GW - 40

Annual Report



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March 11, 2015

Glen Von Gonten
Environmental Engineer
New Mexico Energy, Minerals & Natural Resources Dept.
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, NM 87505

UPS Tracking #:12 881 839 07 6674 8745 Santa Fe UPS Tracking #:12 881 839 02 6553 0767 Aztec

RE: 2014 Annual Report – former Giant Bloomfield Refinery OCD Discharge Permit GW-040

Dear Mr. Von Gonten;

Please find enclosed the 2013 Annual Report for the former Giant Bloomfield Refinery located in the NW ¼ of Section 27 and the SW ¼ of Section 22, Township 29 N, Range 12 W in San Juan County, New Mexico.

If you should have any questions or require additional information, please do not hesitate to contact Randy Schmaltz at 505-632-4171 or at Randy.Schmaltz@wnr.com.

Sincerely,

Kelly Robinson

Environmental Manager

Western Refining

cc: Brandon Powell, NM OCD Aztec District Office

Allen Haines, Western Refining, El Paso

WNR File



2014 Annual Report

Former Giant Bloomfield Refinery Bloomfield, New Mexico Discharge Permit GW-040

March 2015

2014 ANNUAL REPORT

FORMER GIANT BLOOMFIELD REFINERY BLOOMFIELD, NEW MEXICO DISCHARGE PERMIT GW-040

MARCH 2015



WESTERN REFINING SOUTHWEST, INC. Bloomfield, New Mexico

2014 ANNUAL REPORT

FORMER GIANT BLOOMFIELD REFINERY BLOOMFIELD, NEW MEXICO DISCHARGE PERMIT GW-040

MARCH 2015

Prepared for:

WESTERN REFINING SOUTHWEST, INC. 111 County Road 4990 Bloomfield, New Mexico 87413

Prepared by:

LT ENVIRONMENTAL, INC. 2243 Main Avenue, Suite 3 Durango, Colorado 81301 (970) 385-1096



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EXECUTIVE SUMMARY

LT Environmental, Inc. (LTE) on behalf of Western Refining Southwest, Inc. (Western) has prepared this report detailing work completed from January 2014 through December 2014 at the former Giant Bloomfield Refinery (Site) in Bloomfield, New Mexico. The scope of work for this project was continued recovery and monitoring of petroleum hydrocarbon impacts to groundwater, which were identified upon cessation of refinery operations. During the time period covered in this report, Western utilized a groundwater recovery and remediation system consisting of groundwater recovery wells, a carbon filtration unit, and a treated water infiltration trench. The remediation system is permitted under Discharge Permit GW-040 by the New Mexico Oil Conservation Division (NMOCD).

LTE conducted operations and maintenance on the remediation system and monitored groundwater quality during 2014. The total volume of groundwater recovered and treated was approximately 953,112 gallons.

LTE measured depth-to-groundwater in all monitoring wells and recovery wells quarterly and recovered phase-separated hydrocarbons (PSH) in monitoring wells weekly with oil absorbent socks when PSH was detected. Thin accumulations of PSH exist in previously identified source areas. A total of 7.12 gallons of PSH were recovered from the Site in 2014; a decrease from the 14.99 gallons recovered in 2013. The decreased volume of PSH recovered in 2014 can be attributed to a reduction in accumulation of PSH at recovery well locations. Western increased the frequency of PSH recovery activities from quarterly to weekly beginning in August 2011. After three years of aggressive recovery, PSH accumulation in monitoring wells has decreased consistently for two years.

LTE sampled the remediation system influent and effluent in April, June, and November 2014 for laboratory analysis of volatile organic compounds (VOCs) and general water chemistry. In addition, the system effluent was analyzed for polynuclear aromatic hydrocarbons (PAHs) and metals in November 2014. LTE mistakenly omitted third quarter sampling of influent and effluent. Annual sampling of eleven monitoring wells and two recovery wells was conducted in November 2014. Groundwater samples were analyzed for VOCs and general water chemistry. Six of the groundwater samples were also analyzed for PAHs and four were analyzed for total metals concentrations.

Laboratory analytical results indicated no VOCs or PAHs were detected in influent and effluent groundwater samples, and groundwater samples collected from monitoring and recovery wells contained no concentrations of VOCs or PAHs exceeding New Mexico Water Quality Control Commission (NMWQCC) standards. Sulfate concentrations exceeded NMWQCC standards in samples collected in upgradient and on-site monitoring and recovery wells and from the remediation system influent and effluent.

Total dissolved solids exceeded NMWQCC standards in groundwater collected from all thirteen monitoring and recovery wells sampled and from the influent and effluent. Chloride concentrations exceeded the NMWQCC standard in groundwater samples collected from two upgradient monitoring wells and one on-site monitoring well. Twelve of the thirteen monitoring and recovery wells and influent and effluent samples contained manganese in excess of

NMWQCC standards. Iron concentrations exceeded the NMWQCC standard in all monitoring and recovery wells sampled except for GRW-3. Chromium concentrations exceeded NMWQCC standards in three upgradient monitoring wells. Nickel concentrations exceeded NMWQCC standards in two upgradient monitoring wells. Total dissolved solids, chloride, manganese, iron, chromium, and nickel concentrations are attributed to an upgradient release at the Lee Acres Landfill in 1985 or to naturally occurring background conditions.

Based on the results presented in this report, Western will continue PSH recovery and operation of the remediation system. As required in the discharge permit, Western will continue monitoring groundwater flow behavior, as well as influent and effluent sampling and laboratory analysis. Annual sampling of monitoring wells and recovery wells will continue.

1.0 INTRODUCTION

LT Environmental, Inc. (LTE) prepared this report on behalf of Western Refining Southwest, Inc. (Western) to summarize groundwater monitoring and remediation completed from January through December 2014 at the former Giant Bloomfield Refinery (Site) in Bloomfield, New Mexico.

1.1 SITE DESCRIPTION

The Site is on the northeast corner of United States (U.S.) Highway 64 and County Road 3500, approximately five miles west of Bloomfield, New Mexico, in the southwest quarter of Section 22 and, the northwest quarter of Section 27, Township 29 North, Range 12 West in San Juan County, New Mexico (Figure 1). The remediation system includes a control building, two carbon filtration tanks, an infiltration trench, groundwater monitoring wells, and groundwater recovery wells (Figure 2).

1.2 SITE HISTORY

The former refinery, under ownership of Giant Industries, Arizona (Giant), produced leaded and unleaded gasoline, diesel, kerosene, and other refined petroleum products from 1974 to 1982 and is presently inactive. The refining operations and subsequent truck loading and unloading activities impacted groundwater, which was identified and investigated as part of the site closure requirements in 1986 prescribed by the New Mexico Oil Conservation Division (NMOCD). Details of a subsurface investigation and initial remediation efforts are contained in a 1987 report entitled Soil and Groundwater Investigations and Remedial Action Plan, Giant Industries, Inc. Bloomfield Refinery, Bloomfield, New Mexico. The investigation identified three source areas (Figure 2):

- Northern Area (Diesel Spill Area): 10,000 to 15,000 gallons of diesel were released from a pipeline in 1985;
- Central Area (Truck Fueling Area): 15,000 gallons of diesel were released from a pipeline in 1986; and
- Southern Area: Historical releases from a former firefighting drill area east and upgradient of the Site that may have collected in a former seep and a stormwater catchment area.

Concurrent with refinery operations, the former Lee Acres Landfill located upgradient of the Site operated as a San Juan County landfill from 1962 to 1986 (Figure 1). Landfill operations included solid waste disposal in trenches and a series of lagoons used for disposal of a variety of liquid wastes. The NMOCD sampled the lagoons in 1985 and demonstrated that the liquids in the impoundments contained a variety of chlorinated solvents, petroleum hydrocarbon constituents, heavy metals, and salts. In April 1985, a breach in the dike retaining the lagoons released liquid wastes into an arroyo west of the Site. The arroyo drains south toward the Lee Acres Subdivision, where the NMOCD and the New Mexico Environment Department (NMED) identified impacted groundwater in domestic water wells in 1988. In response, the NMOCD

required Giant to investigate petroleum hydrocarbon impacts to groundwater downgradient of the refinery in the Lee Acres Subdivision, and the NMED conducted a separate investigation to identify potential impacts from the landfill. The results of the subsurface investigation conducted by Giant south of the refinery are contained in three volumes of the 1992 report, *Remedial Investigation Report for Lee Acres Landfill*. The NMED, in conjunction with the Bureau of Land Management (BLM) and the United States Geological Survey (USGS), published their results in three reports referenced in Section 6.0 of this report.

The investigations identified two separate plumes of impacted groundwater that commingled across the refinery and flowed downgradient into the Lee Acres Subdivision. Groundwater contaminants detected in the refinery plume included phase-separated hydrocarbons (PSH) and dissolved-phase petroleum hydrocarbons. The dissolved-phase constituents included benzene, toluene, ethylbenzene, and total xylenes (BTEX), naphthalene, and 1,2 dichloroethane (EDC). The landfill contaminant plume contained total dissolved solids (TDS), chloride, sulfate, manganese, metals, BTEX, naphthalene, 1,1 dichloroethane, cis-1,2-dichloroethene, trans-1,2-dichloroethene, tetrachloroethene (PCE), 1,1,1-trichloroethane, and trichloroethene.

Beginning in 1988, Giant installed a groundwater recovery, treatment, and disposal system in stages to restrict migration of contaminants and to remediate groundwater impacts caused by Giant's former operations. A total of 45 monitoring wells were initially installed and designated GBR wells (Figure 2). Of these 45 monitoring wells, 11 were converted to recovery wells and renamed with GRW designations. An additional 17 monitoring wells were installed in the Lee Acres Subdivision and designated as SHS wells. Four SHS wells initially operated as recovery wells. Giant pumped groundwater from the recovery wells into storage tanks, then treated the groundwater with an air stripper and carbon filtration and re-injected treated groundwater into the subsurface through two infiltration galleries.

As groundwater quality improved over time, the remediation system was gradually simplified including eliminating the air stripper and storage of recovered water in aboveground storage tanks. Following initial contaminant reduction, the groundwater remediation system operated in an operation and maintenance mode. Concentrations of contaminates within the remediation influent and effluent systems were below laboratory detection limits for 18 years. In 2008, Western conducted a supplemental evaluation of the remedial operations, which included shutting down the remediation system and sampling groundwater wells under static conditions in an effort to redefine the area of impact and assess effectiveness of the remediation system. Existing equipment was inspected and repaired to optimize performance. Results from the sampling event were included in the 2008 annual report submitted to the NMOCD. Pumping and treating operations were resumed in February 2009 and continued through 2014. In 2014, the system operated under NMOCD Discharge Permit GW-040 and consisted of 9 active groundwater recovery wells that pump groundwater directly into the carbon filtration tanks. The water then passes through the treated water infiltration trench.

1.3 SITE HYDROLOGY

The Site is located on weathered outcrops of the Nacimiento Formation, which is comprised of shales, sandstones, and siltstones of Cretaceous-Tertiary age. The San Juan River is approximately 2,000 feet south of the Site. Immediately west is a large unnamed arroyo, which is

underlain by 30 feet to 60 feet of Quaternary alluvial sediments. Older Quaternary terrace deposits of cobbles and boulders were observed on the interfluvial ridges adjacent to the arroyo. These terrace deposits may have been utilized as fill on the Site. The outcropping surfaces of the Nacimiento Formation have been eroded to form a paleo-channel that appears to be similar in morphology to the existing surface arroyo located to the west of the Site. The bedrock is overlain by recent alluvial deposits (gravel, sand, silt, and clay), which thicken toward the south-southwest as illustrated on the cross section on Figure 3.

The subsurface geology is a controlling feature for groundwater flow direction and potential contaminant migration. Shallow groundwater is generally unconfined with some local areas potentially under semi-confined conditions. There are two aquifers of concern that are in direct hydraulic communication: a shallow aquifer composed of recent alluvial materials and a bedrock aquifer that exists in the underlying Nacimiento Formation (Figures 3 and 4, respectively). The alluvial aquifer generally has the higher permeability of the two aquifers, and recovery wells completed within this aquifer have higher yields with larger radii of influence.

1.4 SCOPE OF WORK

The scope of work for this project included operating and maintaining the groundwater remediation system, monitoring groundwater quality and presence of PSH, and recovering PSH. A summary of field activities, results, conclusions, and recommendations are presented in the subsequent sections of this report.

2.0 METHODOLOGY

2.1 GROUNDWATER REMEDIATION SYSTEM

The groundwater remediation system at the Site was designed to pump impacted groundwater from local aquifers through a series of recovery wells, which prevent migration of impacted groundwater beyond the influence of the wells as illustrated on Figure 5. Groundwater is pumped through two active carbon filters positioned in series where the groundwater is treated by carbon absorption. The treated water is then returned to the aquifer through an infiltration trench. The infiltration trench consists of a subsurface system of perforated polyvinyl chloride (PVC) pipes placed within gravel packs. Water infiltrates the surrounding strata and eventually returns to the aquifer. The return of recovered water to the aquifer acts as a recharge mechanism. Figure 6 is a simplified diagram representing the groundwater recovery, treatment, and disposal system at the Site.

2.2 OPERATIONS AND MAINTENANCE

LTE conducted weekly inspections to ensure normal operation of the remediation system. Weekly observations were recorded in a bound field logbook with the date, time, and person recording the information noted. Water flow meter readings were entered into a spreadsheet to calculate flow volumes and monitor cumulative flow rates. All equipment at the Site was inspected for leaks and malfunctions. The inspector was familiar with the location of underground lines and noted any surface indication of underground leaks. No groundwater leaks were noted during inspections conducted in 2014.

Maintenance included repair and replacement of well pumps, pump controllers, and flow meters. Additionally, LTE replaced filters in the well houses on a regular basis, inspected and replaced the carbon pre-filters, and repaired any other hardware as necessary.

2.3 PSH RECOVERY

Oil absorbent socks were used to passively recover PSH detected in groundwater monitoring wells at the Site. The socks were monitored weekly from January through December and replaced when they were greater than 50 percent full. Volumes of recovered PSH were estimated based on the percent saturation observed in the socks and were recorded in a field logbook.

2.4 GROUNDWATER MONITORING

Quarterly groundwater monitoring included measurements of depth to groundwater at all monitoring and recovery wells with a Keck oil-water interface probe. The interface probe was decontaminated with AlconoxTM soap and rinsed with de-ionized water before each measurement. Depth to groundwater measurements were used to calculate quarterly groundwater elevations at the Site to determine direction of groundwater flow and hydraulic control achieved by the recovery wells. The recovery pumps were not turned off during quarterly monitoring events nor were the pumps removed from the recovery wells; therefore, calculated groundwater elevations do not represent static conditions.

Influent and effluent groundwater samples were collected in March, June, and November. LTE mistakenly omitted third quarter sampling (Table 1). The water samples were analyzed for general water chemistry parameters including pH, electrical conductivity (EC), TDS, alkalinity, hardness, anions (bromide, chloride, sulfate, fluoride, nitrite, nitrate, and phosphorus), and cations (calcium, iron, magnesium, manganese, potassium, and sodium) and for volatile organic compounds (VOCs) using United States Environmental Protection Agency (EPA) Method 8260B. The effluent groundwater sample was also analyzed annually for polynuclear aromatic hydrocarbons (PAHs) according to EPA Method 8270C and total metals (barium, beryllium, cadmium, chromium, copper, lead, nickel, silver, zinc, antimony, arsenic, selenium, and thallium) according to EPA Method 200.7 and 200.8, and mercury according to EPA Method 245.1. Influent groundwater was collected from a system valve before it entered the carbon filtration unit. Effluent groundwater was collected through a sample valve as treated water exited the second carbon filter. Groundwater samples were collected in appropriate pre-cleaned and/or pre-preserved sample bottles or glass vials. Samples were labeled with the date and time of collection, sample designation, project name, collector's name, and parameters to be analyzed and immediately sealed and packed on ice. The samples were shipped on ice following strict chain-of-custody procedures to Hall Environmental Analysis Laboratory (HEAL) in Albuquerque, New Mexico, before designated holding times expired.

LTE collected annual groundwater samples from groundwater monitoring wells and recovery wells within and south of the Site as specified in the Discharge Permit GW-040 (Table 1). The volume of groundwater in the monitoring wells was calculated, and a minimum of three well casing volumes of groundwater was purged from each well using a disposable bailer. As groundwater was extracted, pH, EC, and temperature were monitored. Monitoring wells were purged until these properties stabilized or the well was bailed dry, indicating the purge water was representative of aquifer conditions. Stabilization was defined as three consecutive stable readings for each water property (±0.4 units for pH, ±10 percent for EC, and ±2° Celsius for temperature). Once each monitoring well was properly purged, groundwater samples were collected in bottles or vials and shipped to HEAL. Groundwater sampling from recovery wells followed the same procedures as monitoring wells, except pumps installed in the recovery wells were used to purge the appropriate volume of groundwater from each recovery well. The groundwater samples were analyzed for VOCs according to EPA method 8260B and general water chemistry parameters including pH, EC, TDS, alkalinity, hardness, anions (bromide, chloride, sulfate, fluoride, nitrite, nitrate, and phosphorus), and cations (calcium, iron, magnesium, potassium, and sodium). Six of the groundwater samples were analyzed for PAHs according to EPA Method 8270C and five groundwater samples were analyzed for total metals (barium, beryllium, cadmium, chromium, copper, lead, nickel, silver, zinc, antimony, arsenic, selenium, and thallium) according to EPA Method 200.7 and 200.8, and mercury according to EPA Method 245.1

5

3.0 RESULTS

3.1 OPERATIONS AND MAINTENANCE

LTE and Western worked concurrently to keep the groundwater remediation system fully operational. Repairs and observations included:

- On January 21, 2014, LTE replaced the pre-filter for the flow meter and replaced piping at GRW-5;
- On February 12, 2014, LTE replaced the locks on all of the SHS wells;
- On April 9, 2014, LTE replaced broken piping at GRW-10;
- On May 8, 2014, LTE replaced the flow meter on GRW-13 with a flow meter from inactive GRW-1;
- On May 29, 2014, Western replaced the pump control box on GRW-2, GRW-4, and GRW-13;
- On August 8, 2014, LTE air lifted GRW-6;
- On September 11, 2014, LTE and Western airlifted and replaced the impeller stack on the pump in GRW-4; and
- On November 21, 2014, LTE replaced the impeller stack and cables on the pump in GRW-4.

A total of 953,112 gallons of groundwater were recovered and treated by carbon filtration in 2014 as recorded by flow meters on the individual recovery wells. Except for GRW-3, GRW-12, and GRW-13, the recovery wells pumped smaller volumes of groundwater in 2014 as compared to 2013. Mechanical problems with pumps and well maintenance required more down time in 2014 than in 2013. Additionally, GRW-10, which is the highest producing recovery well, recovered less water in 2014, and GRW-1 became inactive in 2013. Table 2 presents the total volume of groundwater pumped from each recovery well during 2013 and 2014.

3.2 GROUNDWATER ELEVATION

Groundwater elevations measured in groundwater monitoring and recovery wells are presented in Table 3, and quarterly potentiometric surface maps are depicted on Figures 7 through 10. When PSH was detected, the groundwater elevation was corrected using an estimated density correction factor of 0.88. Groundwater flow direction was consistently toward the southwest throughout the year. Drawdown around recovery wells is evident each quarter.

3.3 PSH RECOVERY

Oil-absorbent socks were installed and maintained in monitoring wells GBR-7, GBR-8, GBR-11, GBR-20, GBR-22, GBR-23, GBR-25, GBR-26, and GBR-34 and in product recovery well GBR-

34A during 2014 (Figure 11). Annual volumes of PSH recovered from 2009 through 2014 are presented in Table 4.

No detectable thickness of PSH was measured in any well during 2014. However, oil absorbent socks used in wells that have historically contained PSH recovered the following:

- Approximately 2.41 combined gallons in GBR-23, GBR-25, and GBR-26 in the Northern Area;
- Approximately 2.47 combined gallons in GBR-34, GBR-34A, and GBR-22 in the Central Area; and
- Approximately 1.87 combined gallons in GBR-7, GBR-8, GBR-11, and GBR-20 in the Southern Area.

No PSH was detected in groundwater monitoring wells south of Highway 64. The SHS wells are monitored weekly for groundwater elevation and PSH. PSH socks were removed from SHS-2, SHS-8, and SHS-9 in February 2014.

3.4 GROUNDWATER SAMPLING

Laboratory analytical results from groundwater sampling are presented in Table 5 and the complete laboratory analytical reports are presented in Appendix A. Isopach maps and geologic cross sections illustrating the distribution of analytes are not included because the sampling events do not include wells from all of the current source areas. Such a presentation of results would not be indicative of actual conditions at the Site. Laboratory analytical results from 2014 as compared to New Mexico Water Quality Control Commission (NMWQCC) standards are summarized below:

- No VOCs were detected in influent or effluent samples;
- VOCs were detected in the annual groundwater samples, but only in minor concentrations that did not exceed NMWQCC standards:
 - Ethylbenzene was detected in groundwater from monitoring well SHS-8;
 - PCE was detected in groundwater in upgradient monitoring well GBR-32; and
 - Trichlorofluoromethane was detected in groundwater from monitoring well GBR-51;
- No concentrations of PAHs were detected in samples collected from the system effluent, or groundwater monitoring and recovery wells;
- Sulfate concentrations exceeded the NMWQCC standard in all samples collected from the upgradient and on-site groundwater monitoring and recovery wells, system influent, and system effluent. Sulfate did not exceed the NMWQCC standard in downgradient well SHS-8;

- TDS exceeded the NMWQCC standard in all samples collected from the groundwater monitoring and recovery wells, system influent, and system effluent;
- Chloride concentrations exceeded the NMWQCC standard in groundwater samples collected from up-gradient wells GBR-30, GBR-32, and GBR-48;
- Chromium concentrations in groundwater from GBR-32, GBR-48, and GBR-49
 exceeded the NMWQCC standard. Chromium was detected in GBR-50 but did not
 exceed the NMWQCC standard. These monitoring wells are located within the arroyo
 adjacent to and upgradient of the Site;
- Iron concentrations exceeded the NMWQCC standard in the annual groundwater samples from all groundwater recovery and monitoring wells except GRW-3, but did not exceed the standard in the influent and effluent samples;
- Manganese was detected in concentrations exceeding the NMWQCC standard in annual groundwater samples from all groundwater recovery and monitoring wells, except GRW-17, as well as in the influent and effluent samples; and
- Nickel concentrations exceeded the NMWQCC standard in the annual groundwater samples collected from upgradient wells GBR-32 and GBR-48.

4.0 CONCLUSIONS

Western successfully maintained the groundwater remediation system at the Site and continued to recover residual PSH from original source areas. The volume of groundwater recovered at the Site decreased from 2013 due to downtime associated with ongoing maintenance of the remediation system, as well as decreased production in GRW-10.

Measurable PSH near the previously identified sources was not detected in any monitoring or recovery wells in 2014; however, approximately 7.12 gallons of PSH were recovered in monitoring wells using oil-absorbent socks.

Contaminants of concern were either not detected in groundwater samples or, if detected, can be attributed to an upgradient source or naturally occurring background conditions. The influent and effluent groundwater associated with the remediation system at the Site did not contain detectable concentrations of VOCs or PAHs during 2014, and groundwater samples collected from monitoring and recovery wells did not contain VOCs or PAHs exceeding NMWQCC standards.

Influent and effluent groundwater associated with the pump and treat system at the Site is consistently compliant with standards for general chemistry parameters and metals, with the exception of TDS, chloride, and sulfate. Elevated sulfate, chloride, and TDS are historically characteristic of groundwater at the Site and are most likely related to a release at the Lee Acres Landfill in 1985. These analytes were identified in earlier studies as constituents within the groundwater contaminant plume that originated from the landfill. Previous investigations at the landfill reported elevated levels of chloride present in the water sampled from the liquid waste lagoons (McQuillan, D. and Longmire, P., Water Quality Investigations at the Lee Acres Landfill and Vicinity, San Juan County, New Mexico), and the landfill accepted produced water from natural gas well operations in the San Juan Basin. During initial landfill investigations, the upgradient area near GBR-32, GBR-48, GBR-49, and GBR-50 was identified as the "northern containment slug." Groundwater representative of this area contained TDS concentrations ranging from 2.125 milligrams per kilogram (mg/kg) to 6.068 mg/kg, sulfate concentrations ranging from 1,920 mg/kg to 5,830 mg/kg, and chloride concentrations ranging from 14.7 mg/kg to 2,110 mg/kg (Roy F. Weston, Inc., Remedial Investigation Report for Lee Acres Landfill, Volume 1).

Heavy metals, including chromium, iron, manganese, and nickel were detected in offsite monitoring wells during the annual sampling in November 2014. Additionally, iron and manganese concentrations exceeded NMWQCC standards in on-site wells. Previous studies conducted for the Lee Acres Landfill identified chromium, iron, lead, manganese, nickel, and selenium in groundwater sampled upgradient of the Site. The Remedial Investigation Report for Lee Acres Landfill, Volume 1 states that the upgradient background alluvial aquifer contains elevated levels of chromium and manganese and suggests an unidentified source that is unrelated to the landfill or the Site.

5.0 RECOMMENDATIONS

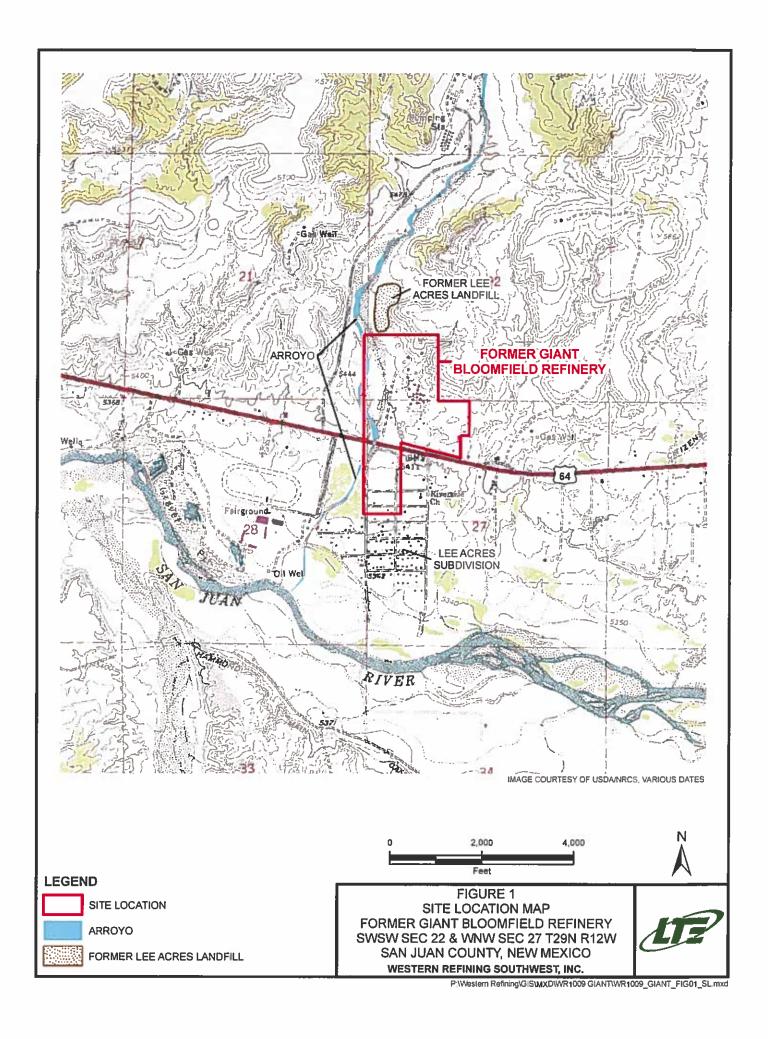
Western will continue to operate the remediation system and monitor groundwater as described in this report, including the activities below:

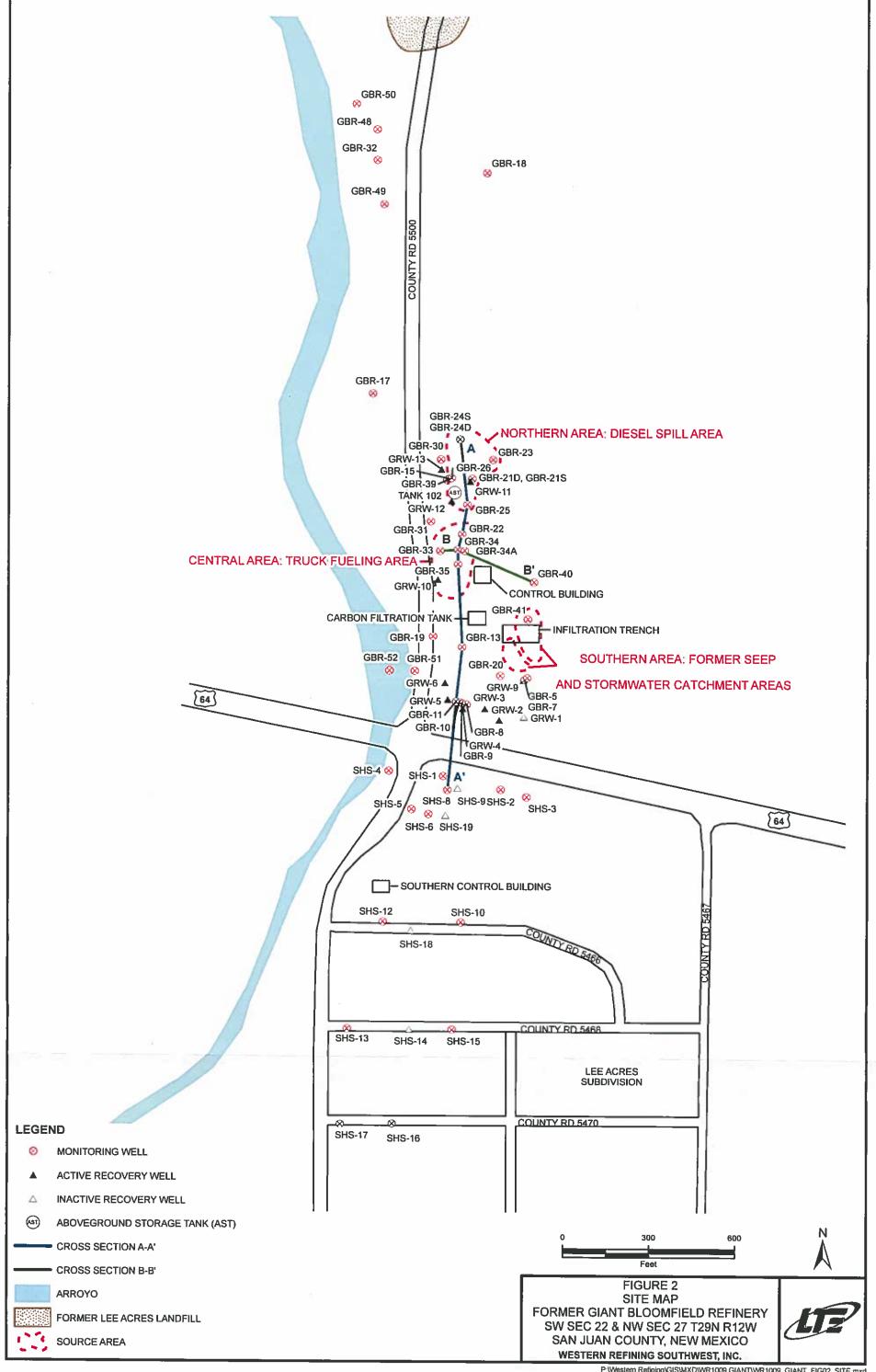
- Operate and maintain the remediation system to prevent migration of PSH;
- Monitor presence of PSH regularly, using oil absorbent socks as needed to recover PSH;
- Monitor groundwater flow behavior quarterly by measuring depth to groundwater;
- Sample the system influent and effluent quarterly; and
- Sample groundwater monitoring and recovery wells annually, including SHS-8 south of the Site, to identify potential changes in water quality.

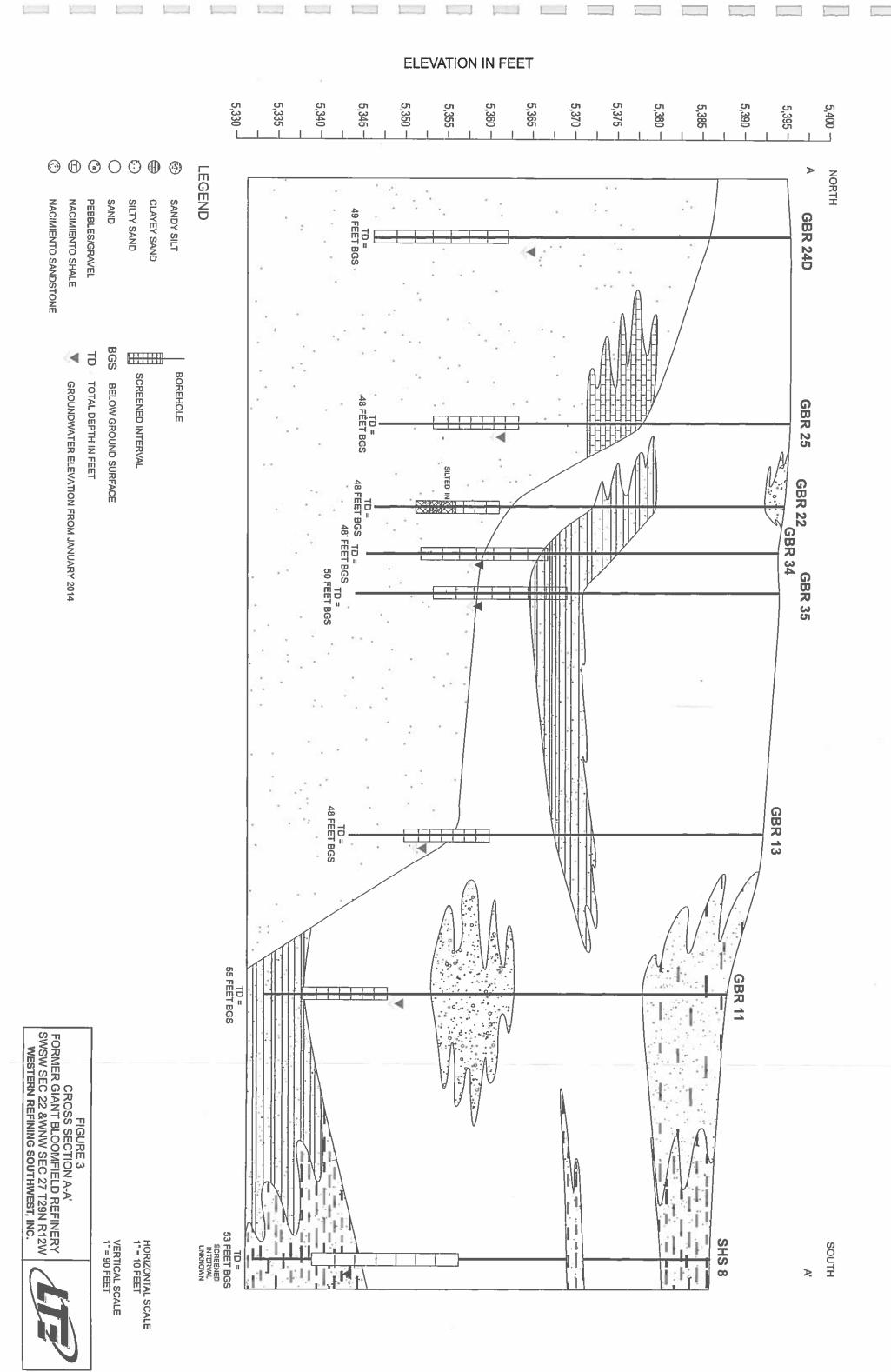
6.0 REFERENCES

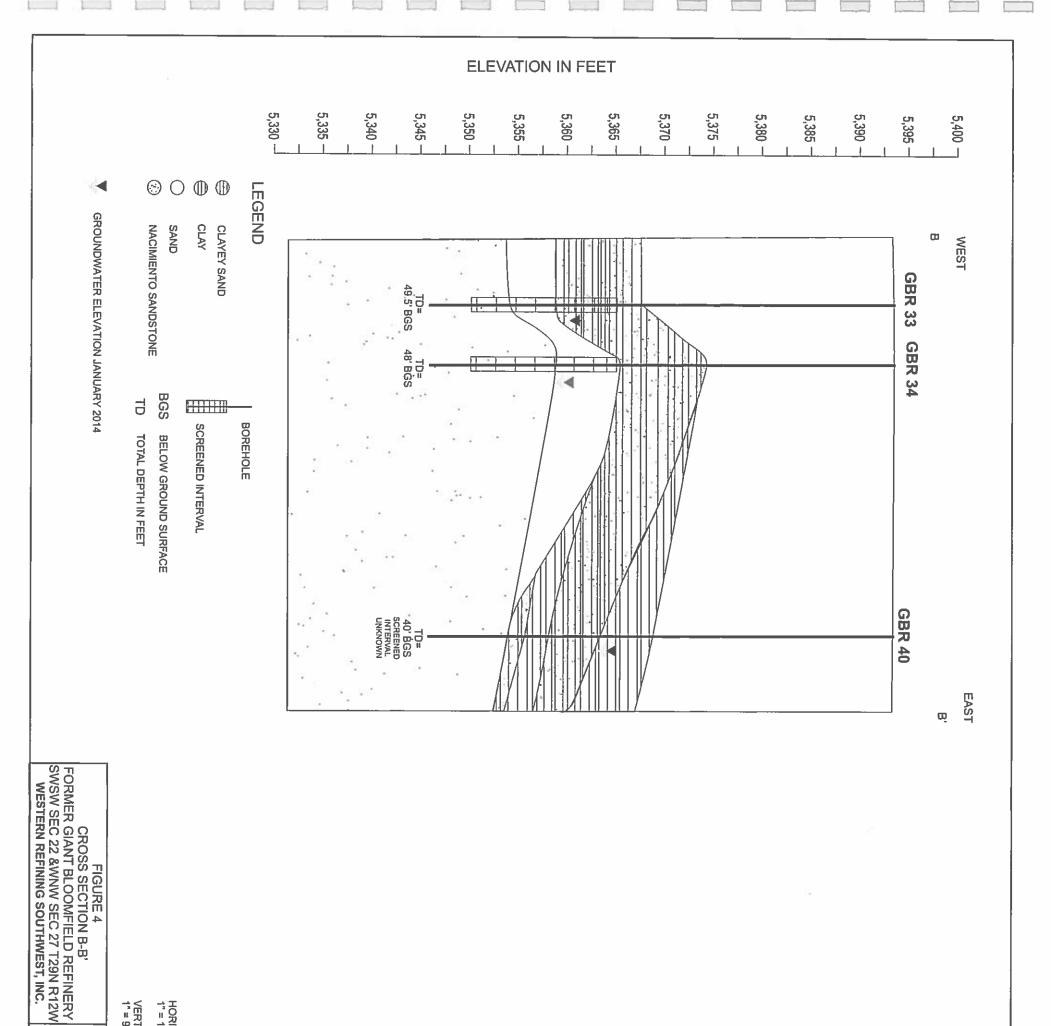
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- McQuillan, D. and Longmire, P. Water Quality Investigations at the Lee Acres Landfill and Vicinity, San Juan County, New Mexico, Environmental Division, Ground water/Hazardous Waste Bureau, Santa Fe, NM, February 1986.
- Peter, K., Williams, R.A. and King, K.W. Hydrogeologic Characteristics of the Lee Acres Landfill Area, San Juan County, New Mexico, U.S. Geological Survey Water Resources Investigations Report 87-4246, Albuquerque, NM, 1987.
- Roy F. Weston, Inc. Remedial Investigation Report for Lee Acres Landfill, Volumes 1-3, Albuquerque, NM, September 1992.
- Roy F. Weston, Inc. Proposed Emergency Action for Lee Acres Landfill, Albuquerque, NM, November 1990.
- Geoscience Consultants, LTD., Soil and Groundwater Investigations and Remedial Action Plan, Giant Industries, Inc. Bloomfield Refinery, Bloomfield, New Mexico, 1987.
- Lodestar Services, Inc., Annual Data Report Former Giant Bloomfield Refinery, March 2009.
- RPS JDC Consulting, Review of Groundwater Remediation System, Old Giant Bloomfield Refinery, Bloomfield, New Mexico, June 2009.

FIGURES



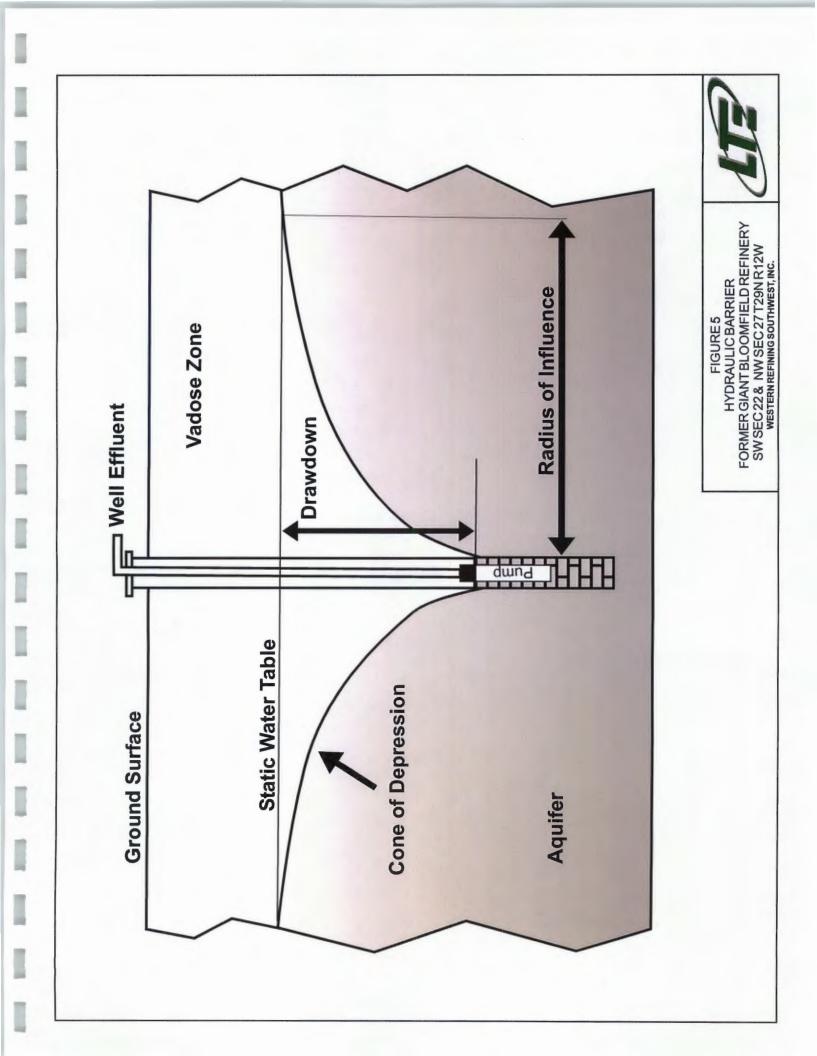


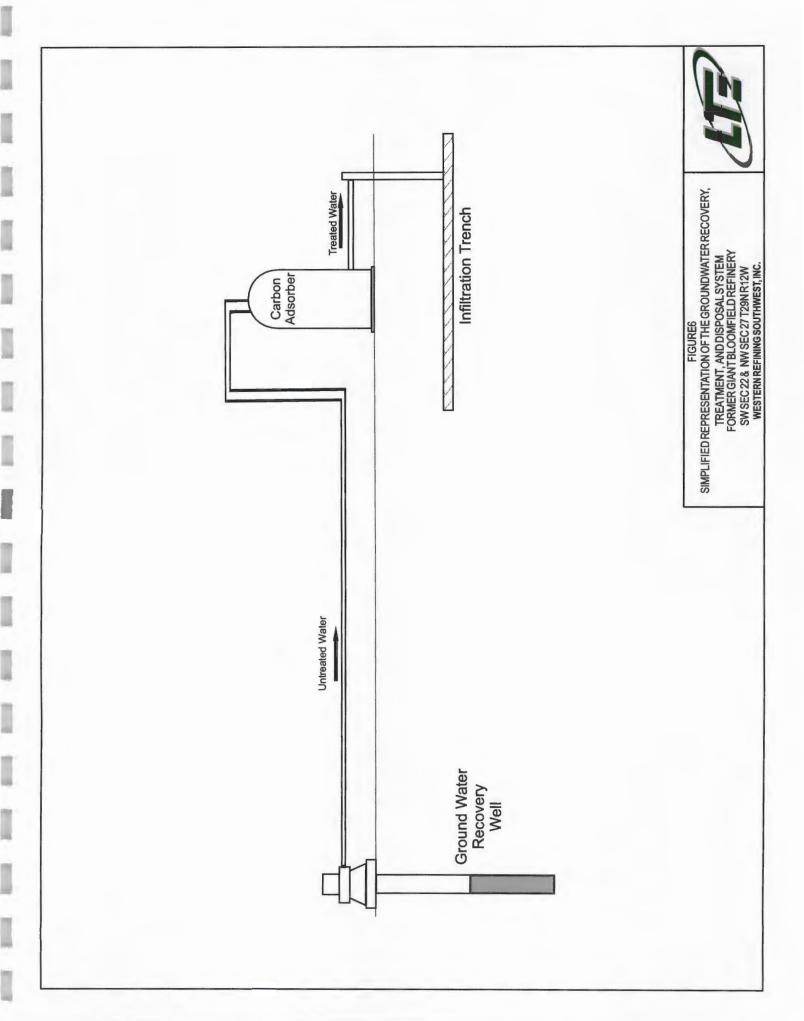


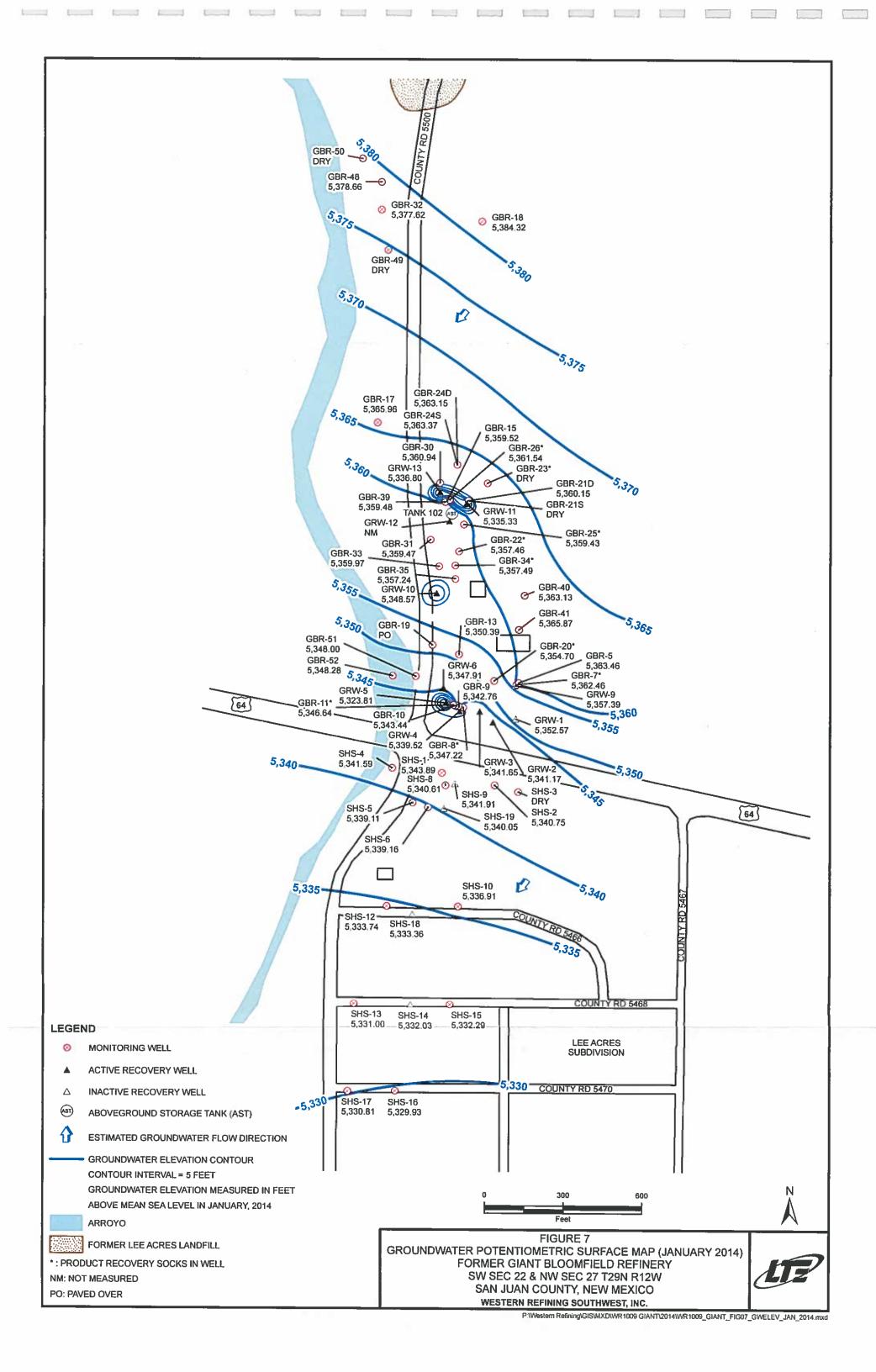


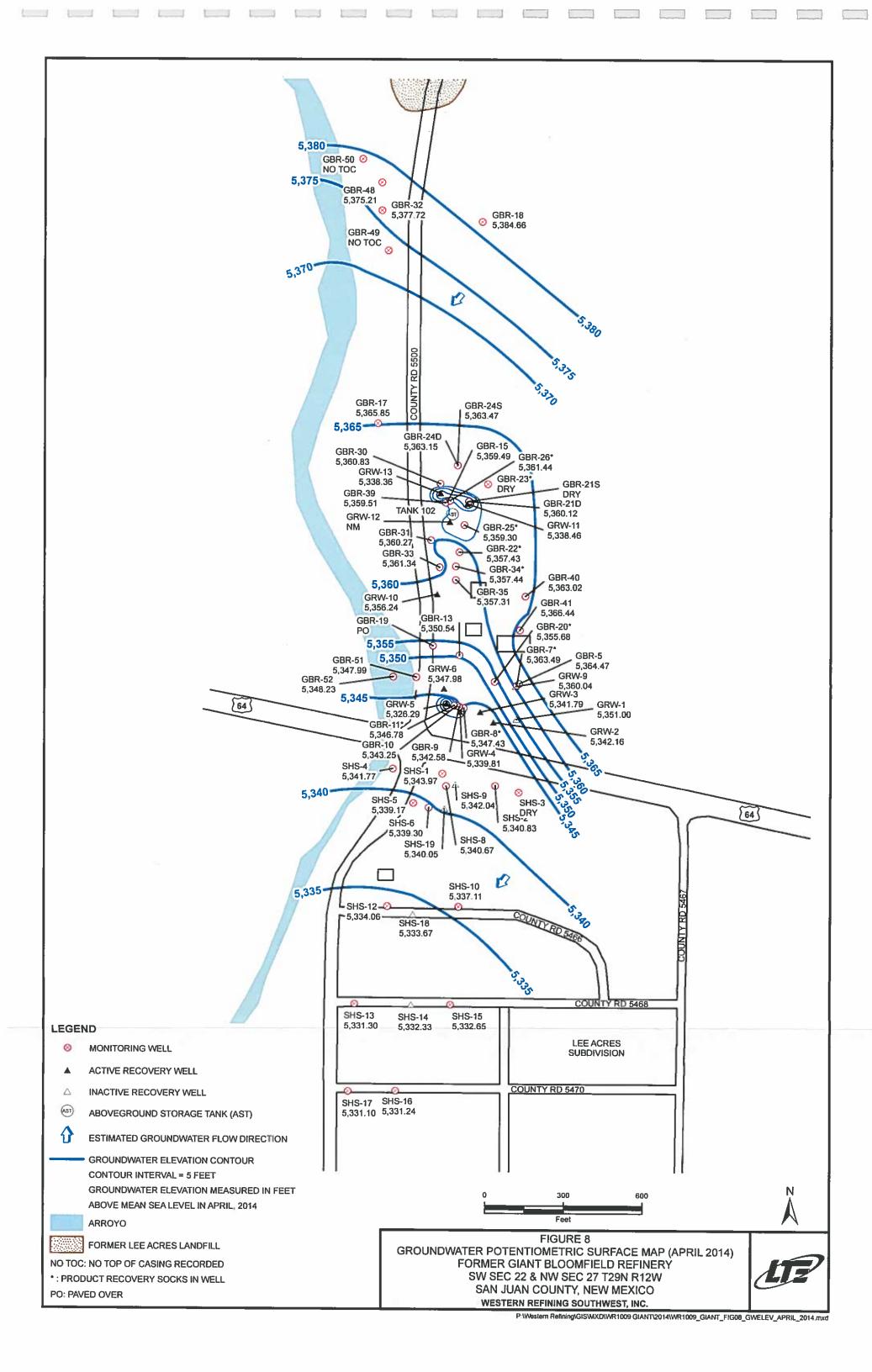
VERTICAL SCALE 1" = 90 FEET

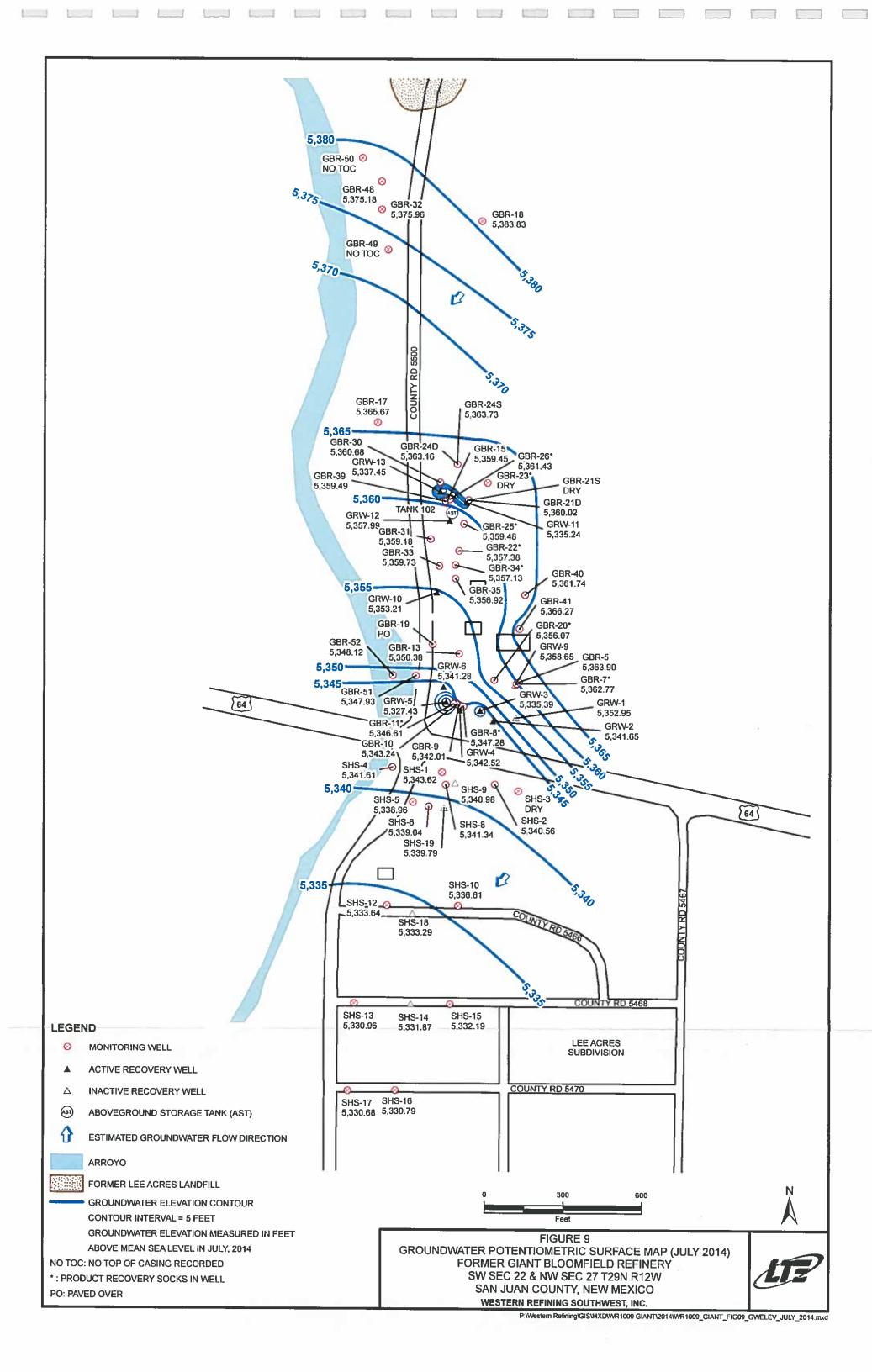
HORIZONTAL SCALE 1" = 10 FEET

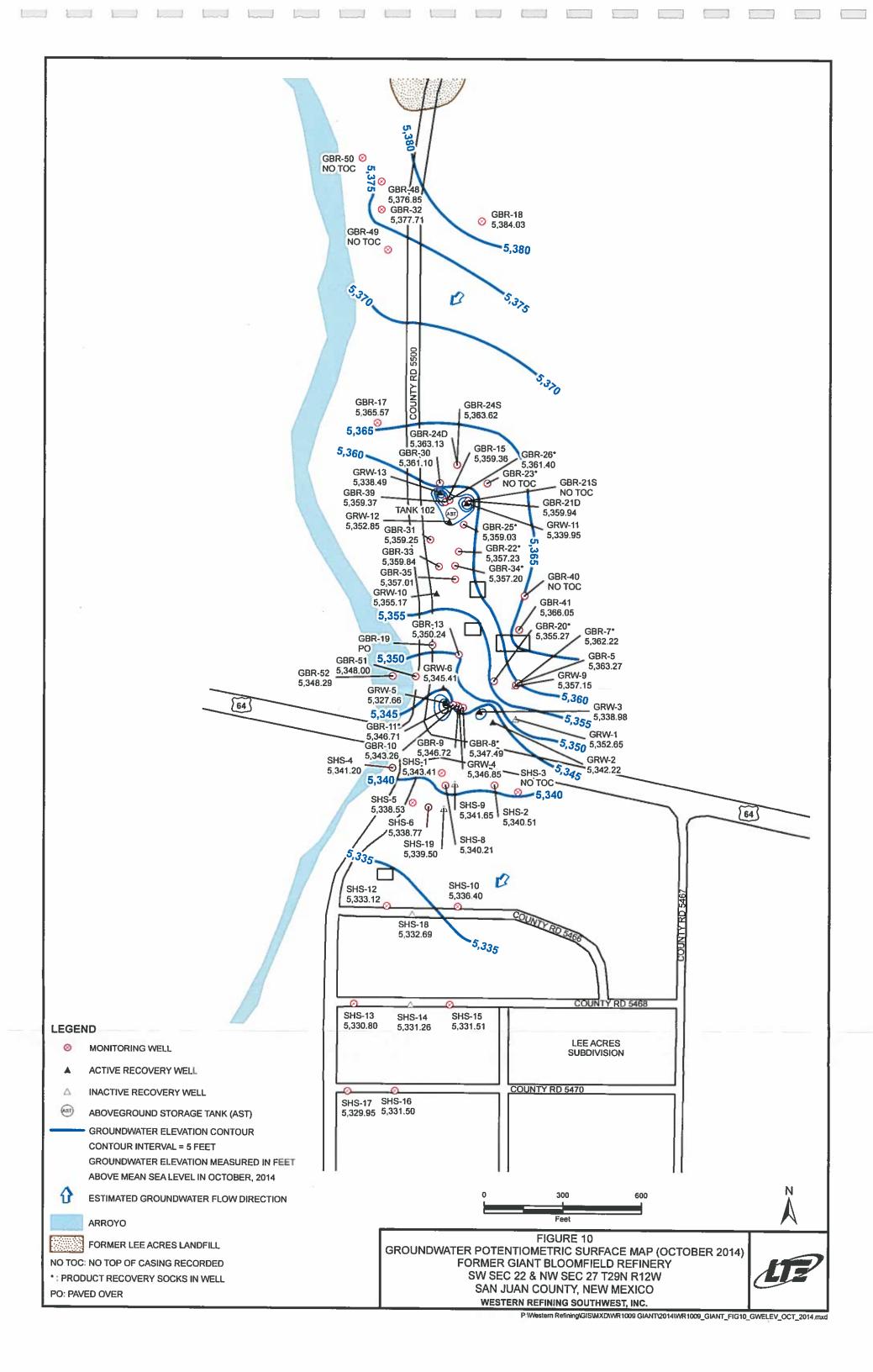


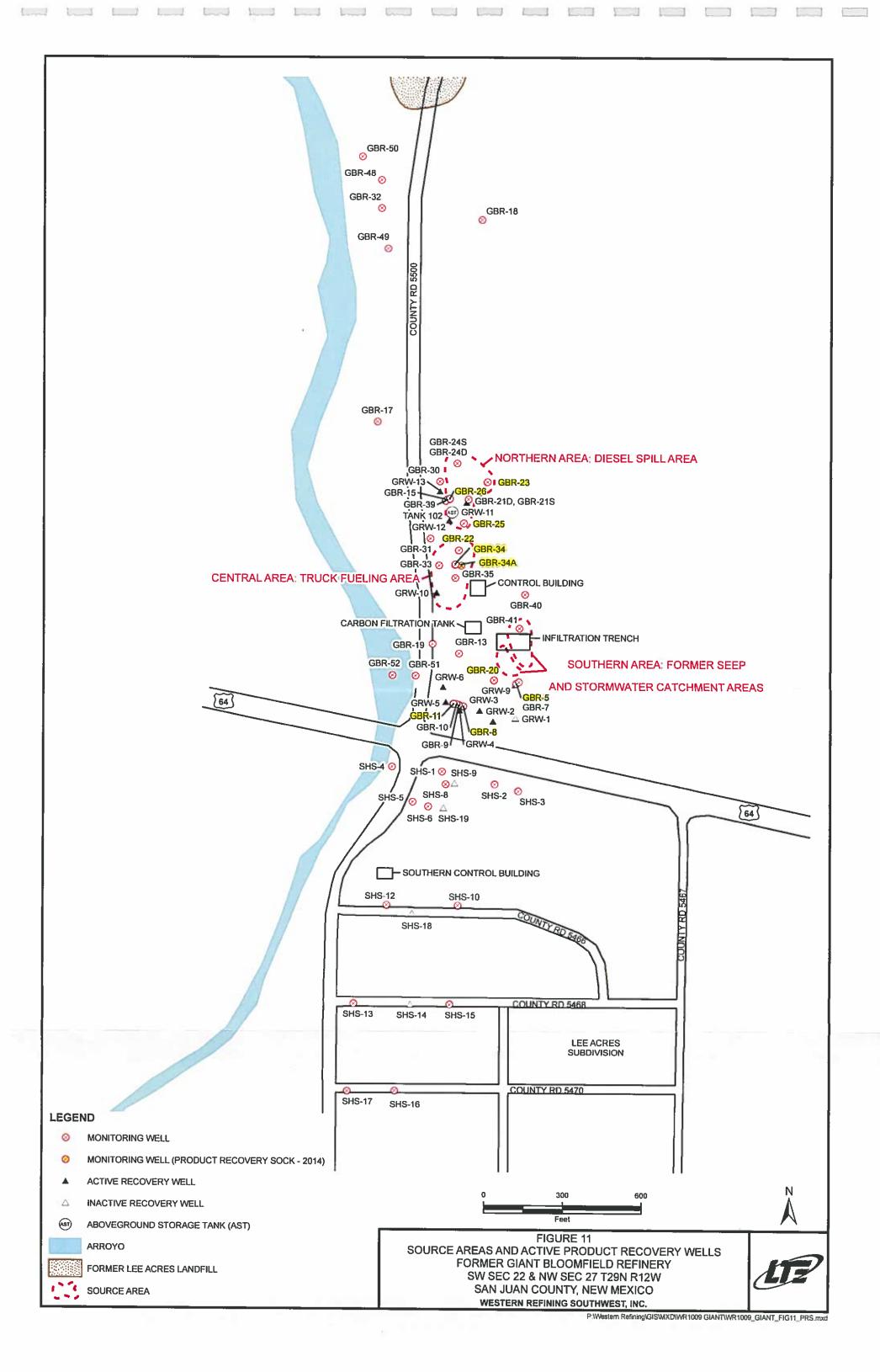












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TABLES

TABLE 1

2014 SAMPLING SCHEDULE FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

| | Mar-14 | Jun-14 | Nov-14 |
|-----------------|-----------|-----------|-------------------------|
| System Influent | VOCs, GWC | VOCs, GWC | VOCs,GWC |
| System Effluent | VOCs, GWC | VOCs, GWC | VOCs, GWC, PAHs, Metals |
| GRW-3 | | | VOCs, GWC, PAHs |
| GRW-6 | | | VOCs,GWC,PAHs |
| GBR-17 | | | VOCs, GWC, PAHs |
| GBR-24D | | | VOCs, GWC, PAHs |
| GBR-30 | | | VOCs,GWC,PAHs |
| GBR-31 | | | VOCs, GWC, PAHs |
| GBR-32 | | | VOCs, GWC, Metals |
| GBR-48 | | | VOCs, GWC, Metals |
| GBR-49 | | | VOCs, GWC, Metals |
| GBR-50 | | | VOCs, GWC, Metals |
| GBR-51 | | | VOCs,GWC |
| GBR-52 | | | VOCs,GWC |
| 8-SHS | | | VOCs, GWC |

Notes:

GWC - Ground Water Chemistry , Ph, electrical conductivity, total dissolved solids, alkalinity, hardness, anions (bromide, chloride, sulfate, flouride, nitrate/nitrite, phosphorus), cations (calcium, iron, magnesium, manganese, potassium, sodium) Metals - barium, beryllium, cadmium, chromium, copper, lead, nickel, silvet, zinc, antimony, arsenic, selenium, thallium, mercury

PAHs - polynuclear aromatic hydrocarbons VOCs - volatile organic compounds

TABLE 2

GROUNDWATER RECOVERY WELL VOLUME TABULATION FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

| Well Number | Total Volume Pumped in 2013 (Gallons) | Total Volume Pumped in 2014 (Gallons) | Difference (Gallons) |
|-------------------------------|---|---|-------------------------|
| GRW-1 | 2,347 | 0 | -2,347.00 |
| GRW-2 | 76,737 | 55,644 | -15,093 |
| GRW-3 | 60,128 | 111,759 | 51,631 |
| GRW-4 | 72,219 | 69,246 | -2,973 |
| GRW-5 | 126,65 | 47,728 | -12,249 |
| GRW-6 | 890'88 | 63,757 | -24,311 |
| GRW-10 | 647,197 | 414,871 | -232,326 |
| GRW-11 | 73,251 | 71,597 | -1,654 |
| GRW-12 | 80,623 | 83,098 | 2,475 |
| GRW-13 | 28,084 | 35,412 | 7,328 |
| Total Volume Pumped (Gallons) | 1,180,284 | 953,112 | -227,172 |

Notes:
* volumes metered at individual recovery wells

Page 1 of 2

GROUNDWATER ELEVATIONS AND THICKNESS OF PHASE-SEPARATED HYDROCARBONS FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

TABLE 3

| ; | Wellhead | [| | | | | | | | | | 1 | | | | **** | | |
|----------------|------------|--------|-------------|----------|--------|------------------|---------------|-----------------------|------------------|------------------|-------------|---------------------|------------------|---------------|------------------------|----------|----------------------|------------------|
| 717 | 14 CHIICAL | 10121 | Depth to | | | , | Depth to | | | | Depth to | | 300 | | Depth to | , | | |
| Well Number | Elevation | Depth | | Depth to | PSH A | Adjusted GWEL | É | Depth to Product 7 | PSH Thickness | Adjusted GWEL | Water | Depth to Product | PSH Thickness | Adjusted GWEL | Water | Depth to | o PSH t Thickness | Adjusted GWEL |
| | (leet) | (1661) | (reet BTOC) | (feet) | (feet) | (feet) | (leet b I OC) | (feet) | (feet) | (feet) | (leet bloc) | (feet) | (feet) | (feet) | (Teet BLOC) | (feet) | (feet) | (feet) |
| GRW-1 | 5,394.30 | 73.35 | 41.73 | , | | 5,352.57 | 40.30 | | | 5,354.00 | 41.35 | | | 5,352.95 | 41.65 | | | 5,352.65 |
| GRW-2 | 5,391.28 | 61.00 | 50.11 | , | ı | 5,341.17 | 49.12 | , | | 5,342.16 | 49.63 | • | | 5,341.65 | 49.06 | • | , | 5,342.22 |
| GRW-3 | 5,388.77 | 58.30 | 47.12 | | | 5,341.65 | 46.98 | | | 5,341.79 | 53.38 | | , | 5,335.39 | 49.79 | • | • | 5,338.98 |
| GRW-4 | 5,390.02 | 00.09 | 50.50 | , | , | 5,339.52 | 50.21 | , | | 5,339.81 | 47.50 | | ' | 5,342.52 | 43.17 | - | ' | 5,346.85 |
| GRW-5 | 5,390.56 | 68.30 | 66.75 | | , | 5,323.81 | 64.27 | | | 5,326.29 | 63.13 | , | | 5,327.43 | 62.90 | | 1 | 5,327.66 |
| GRW-6 | 5,390.81 | 53.80 | 42.90 | | • | 5,347.91 | 42.83 | , | , | 5,347.98 | 49.53 | ' | | 5,341.28 | 45.40 | | • | 5,345.41 |
| GRW-9 | 5,395.70 | 54.40 | 38.31 | | 1 | 5,357.39 | 35.66 | , | | 5,360.04 | 37.05 | 1 | , | 5,358.65 | 38.55 | | 1 | 5,357.15 |
| GRW-10 | 5,395.02 | 66.02 | 46.45 | | | 5,348.57 | 38.78 | | | 5,356.24 | 41.81 | , | • | 5,353.21 | 39.85 | • | , | 5,355.17 |
| GRW-11 | 5,397.85 | 64.00 | 62.52 | , | 1 | 5,335.33 | 59.39 | , | | 5,338.46 | 62.61 | , | ı | 5,335.24 | 57.90 | 1 | • | 5,339.95 |
| GRW-12 | 5,397.24 | 48.00 | , | | , | Δ - | | | | _ | 39.25 | ' | ٠ | 5,357.99 | 44.39 | ' | , | 5,352.85 |
| GRW-13 | 5,396.90 | 61.30 | 60.10 | , | 1 | 5,336.80 | 58.54 | | , | 5,338.36 | 59.45 | | , | 5,337.45 | 58.41 | 1 | ' | 5,338.49 |
| GBR-5 | 5,395.07 | 47.08 | 31.61 | , | 1 | | 30.60 | ' | | | _ | • | , | 5,363.90 | 31.80 | 1 | • | 5,363.27 |
| GBR-7 | 5,395.85 | 51.65 | 33.39 | | | 5,362.46 † | 32.36 | , | | 5,363.49 | | 1 | 1 | | 33.63 | , | • | 5,362.22 |
| GBR-8 | 5,390.50 | 50.90 | 43.28 | • | 1 | | 43.07 | , | | 5,347.43 | | | , | 5,347.28 | 43.01 | , | • | 5,347.49 |
| GBR-9 | 5,389.92 | 67.22 | 47.16 | | | 5,342.76 | 47.34 | - | , | 5,342.58 | 47.91 | , | , | 5,342.01 | 43.20 | _ | • | 5,346.72 |
| GBR-10 | 5,390.57 | 47.56 | 47.13 | | , | 5,343.44 | 47.32 | | , | 5,343.25 | 47.33 | 1 | | 5,343.24 | 47.31 | • | • | 5,343.26 |
| GBR-11 | 5,389.43 | 51.87 | 42.79 | 1 | 1 | 5,346.64 🕈 | 42.65 | | | 5,346.78 | | 1 | , | 5,346.61 | † 42.72 | ' | ' | 5,346.71 |
| GBR-13 | 5,393.04 | 45.47 | 42.65 | , | ., | 5,350.39 | 42.50 | | | 5,350.54 | 42.66 | , | | 5,350.38 | 42.80 | • | 1 | 5,350.24 |
| GBR-15 | 5,397.99 | 58.42 | 38.47 | 1 | 1 | 5,359.52 | 38.50 | , | | 5,359.49 | 38.54 | ' | 1 | 5,359.45 | 38.63 | ' | 1 | 5,359.36 |
| GBR-17 | 5,402.69 | 43.20 | 36.73 | • | | 5,365.96 | 36.84 | , | , | 5,365.85 | 37.02 | , | 1 | 5,365.67 | 37.12 | 1 | • | 5,365.57 |
| GBR-18 | | 47.85 | 37.36 | ' | | 5,384.32 | 37.02 | , | | 5,384.66 | 37.85 | • | • | 5,383.83 | 37.65 | • | , | 5,384.03 |
| GBR-19*** | _ | 46.23 | , | | : | | | | | | | | | | | • | • | ' |
| GBR-20 | 5,393.47 | 54.57 | 38.77 | ' | 1 | 5,354.70 | 37.79 | , | | 5,355.68 | | | | | \$38.20 | | 1 | 5,355.27 |
| GBR-21D | 5,400.19 | 49.77 | 40.04 | | | 5,360.15 | 40.07 | | | 5,360.12 | 40.17 | , | | 5,360.02 | 40.25 | • | • | 5,359.94 |
| GBR-21S | 5,400.65 | 49.77 | Dry | | , | | Dry | , | , | | | , | 1 | | | , | ' | |
| GBR-22 | | 38.73 | 38.45 | | 1 | 5,357.46 † | 38.48 | | | _ | 38.53 | ı | 1 | 5,357.38 | 38.68 | ' | 1 | 5,357.23 |
| GBR-23**** | | 39.45 | Dry | | | + | 41.12 | | | _ | | , | | | | • | ' | |
| GBR-24D | 5,396.77 | 51.40 | 33.62 | | | 5,363.15 | 33.62 | , | | 5,363.15 | 33.61 | 1 | 1 | 5,363.16 | 33.64 | _ | | 5,363.13 |
| GBR-24S | 5,396.08 | 37.05 | 32.71 | | | | 32.61 | , | | | | | | | | | | 5,363.62 |
| GBR-25 | 5,397.03 | 37.12 | 37.60 | | 1 | 5,359.43 | 37.73 | | | 5,359.30 | 37.55 | | | _ | 38.00 | • | ' | 5,359.03 |
| GBR-30 | 5,395,50 | 41.29 | 34.65 | | | | 34.76 | | | | | | | 5,361.43 | 33.32 | 1 1 | | 5,361.40 |
| GBR-31 | 5.396.58 | 43.50 | 37.11 | ' | | 5.359.47 | 36.31 | ' | | 5.360.27 | 37.40 | • | | 5.359.18 | 37.33 | , | , | 5.359.25 |
| GBR-32 | 5,414.86 | 47.83 | 37.24 | , | | 5,377.62 | 37.14 | , | | 5,377.72 | 38.90 | | | 5,375.96 | 37.15 | | 1 | 5,377.71 |
| GBR-33 | 5,396.28 | 45.72 | 36.31 | | 1 | 5,359.97 | 34.94 | | , | 5,361.34 | 36.55 | • | | 5,359.73 | 36.44 | • | , | 5,359.84 |
| GBR-34 | 5,394.00 | 42.20 | 36.51 | , | | 5,357.49 † | 36.56 | , | | | 4 36.87 | • | | | 4 36.80 | • | , | 5,357.20 |
| GBR-35 | 5,393.66 | 42.35 | 36.42 | | | 5,357.24 | 36.35 | , | 1 | 5,357.31 | 36.74 | | | 5,356.92 | 36.65 | | , | 5,357.01 |
| GBR-39 | 5,397.55 | 41.42 | 38.07 | | | 5,359.48 | 38.04 | , | | 5,359.51 | 38.06 | | | 5,359.49 | 38.18 | • | | 5,359.37 |
| GBR-40 | 5,400.76 | 39.38 | 37.63 | , | 1 | 5,363.13 | 37.74 | | | 5,363.02 | 39.02 | | | 5,361.74 | ر برح برح برح | | | |
| GBR-41 | 5,396.35 | 34.28 | 30.48 | | 1 | 5,365.87 | 29.91 | | | 5,366.44 | 30.08 | • | | 5,366.27 | 30.30 | | ' | 5,366.05 |
| CBD 40 | 3,415.90 | 45.54 | 31.80 | | | 0,3/8.00 | 38.09 | | | 17.0/6,6 | 31.82 | • | | 5,5/5.18 | 37.03 | • | 1 | 5,576.85 |
| GBR-50 | * | 44 37 | 34.46 | | | | 34 36 | | | • | 34 50 | ' | • | , | 34 64 | ' | | |
| GBR-51 | 5 389 68 | 57.07 | 41.68 | , | - 1 | 5 348 00 | 41.69 | , | | 5 347 99 | 41.75 | | | 5.347.93 | 41.68 | ı | | 5.348.00 |
| GBR-52 | 5,387.74 | 52.73 | 39.46 | | 1 | 5,348.28 | 39.51 | | | 5,348.23 | 39.62 | , | 1 | 5,348.12 | 39.45 | | 1 | 5,348.29 |

GROUNDWATER ELEVATIONS AND THICKNESS OF PHASE-SEPARATED HYDROCARBONS FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

| Ц | | | ı r | January 2014 | y 2014 | | | April | April 2014 | | | July | July 2014 | | | October 2014 | r 2014 | |
|---|---|---|---|----------------------------|----------|-----|----------------------------------|-------------------------------|----------------------------|----------------------------|----------------------------|-------------------------------|----------------------------|----------------------------|----------------------------------|-------------------------------|----------------------------|----------------------------|
| Total Depth to Depth | Depth to Depth to PSH Adjusted Water Product Thickness GWEL (feet BTOC) | Depth to PSH Adjusted Product Thickness GWEL (feet) | Depth to PSH Adjusted Product Thickness GWEL (feet) | Adjusted GWEL (feet) | ₽ . | | Depth to Water (feet BTOC) | Depth to Product (feet) | PSH Thickness (feet) | Adjusted GWEL (feet) | Depth to Water (feet BTOC) | Depth to Product (feet) | PSH Thickness (feet) | Adjusted GWEL (feet) | Depth to Water (feet BTOC) | Depth to Product (feet) | PSH Thickness (feet) | Adjusted GWEL (feet) |
| 50.40 39.65 - 5,343.89 | 39.65 | | - 5,343.89 | - 5,343.89 | 5,343.89 | | 39.57 | | | 5,343.97 | 39.92 | | | 5,343.62 | 40.13 | | | 5,343.41 |
| 44.56 40.91 - 5,340.75 | 40.91 | | - 5,340.75 | - 5,340.75 | 5,340.75 | | 40.83 | | , | 5,340.83 | 41.10 | ı | ı | 5,340.56 | 41.15 | , | , | 5,340.51 |
| | | | | | | | | | | , | , | | , | | • | | | , |
| - 5,341.59 | 42.03 - 5,341.59 | - 5,341.59 | | | | , | 41.85 | | | 5,341.77 | 42.01 | , | , | 5,341.61 | 42.42 | | | 5,341.20 |
| 39.25 - 5,339.11 | 39.25 - 5,339.11 | 5,339.11 | | | | 'n | 9.19 | | | 5,339.17 | 39.40 | ' | | 5,338.96 | 39.83 | | 1 | 5,338.53 |
| 39.01 - 5,339.16 | 39.01 - 5,339.16 | 5,339.16 | | | | 38 | .87 | , | , | 5,339.30 | 39.13 | ' | 1 | 5,339.04 | 39.40 | ' | , | 5,338.77 |
| 39.64 - 5,340.61 | 39.64 - 5,340.61 | 5,340.61 | _ | _ | _ | 39 | .58 | , | | 5,340.67 | 38.91 | , | | 5,341.34 | 40.04 | | • | 5,340.21 |
| 38.88 - 5,341.91 | 38.88 - 5,341.91 | - 5,341.91 | _ | _ | _ | 38. | 75 | | | 5,342.04 | 39.81 | , | | 5,340.98 | 39.14 | | , | 5,341.65 |
| 36.89 - 5,336.91 | 36.89 - 5,336.91 | 5,336.91 | | | | 36 | 69.9 | | 1 | 5,337.11 | 37.19 | , | | 5,336.61 | 37.40 | | , | 5,336.40 |
| 40.20 - 5,333.74 | 40.20 - 5,333.74 | - 5,333.74 | | | | 36 | 88. | , | , | 5,334.06 | 40.30 | ' | ı | 5,333.64 | 40.82 | | · | 5,333.12 |
| 36.81 5,331.00 | 36.81 5,331.00 | 5,331.00 | | | | ñ | 5.51 | , | , | 5,331.30 | 36.85 | 1 | | 5,330.96 | 37.01 | | , | 5,330.80 |
| 5,332.03 | 35.04 - 5,332.03 | 5,332.03 | _ | _ | _ | 34. | 74 | | , | 5,332.33 | 35.20 | , | | 5,331.87 | 35.81 | | | 5,331.26 |
| 33.92 - 5,332.29 | 33.92 - 5,332.29 | - 5,332.29 | | | | 33 | .56 | | | 5,332.65 | 34.02 | , | , | 5,332.19 | 34.70 | | | 5,331.51 |
| 32.65 - 5,329.93 | 32.65 - 5,329.93 | - 5,329.93 | _ | _ | _ | 31 | .34 | | | 5,331.24 | 31.79 | , | , | 5,330.79 | 31.08 | | ı | 5,331.50 |
| 33.54 5,330.81 | 33.54 5,330.81 | 5,330.81 | | | | 33. | 25 | | | 5,331.10 | 33.67 | ' | | 5,330.68 | 34.40 | | | 5,329.95 |
| 5,333.36 | 40.28 5,333.36 | 5,333.36 | | | | | 39.97 | | , | 5,333.67 | 40.35 | ' | | 5,333.29 | 40.95 | | , | 5,332.69 |
| 52.40 38.84 - 5,340.05 | 38.84 - 5.340.05 | - 5.340.05 | | | | ., | 38.84 | | • | 5,340.05 | 39.10 | , | | 5,339.79 | 39.39 | • | , | 5,339.50 |

BTOC - below top of casing
BTOC - below top of casing
D - designates the well screen is deep
GWEL - groundwater elevation
PSH - phase-separated hydrocarbon
S - designates the well screen is shallow
* Top-of-casing elevation is unknown
** Well is damaged by a tree root
*** Well was paved over in June 2010
**** Well hit by a vehicle May 2014
A Indicates that water level was below groundwater pump
† Product Recovery socks in well, groundwater and product levels are not static
- indicates no GWEL or PSH measured
When PSH is detected, the GWEL is corrected using an estimated density correction factor of 0.88.

TABLE 4

ESTIMATED VOLUMES OF PHASE-SEPARATED HYDROCARBONS RECOVERED FROM GROUNDWATER MONITORING WELLS FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

| Well Number | 2009 Total | 2010 Total | 2011 Total | 2012 Total | 2013 Total | 2014 Total | Cumulative Total |
|------------------------|------------|------------|------------|------------|------------|------------|---------------------|
| | (onuces) | (onuces) | (onuces) | (onuces) | (onnces) | (onuces) | (onnces) |
| GBR-7 | 0.1 | 0.0 | 24.7 | 42.5 | 34 | 51 | 101.2 |
| GBR-8 | no sock | no sock | 23.8 | 51.85 | 41.6 | 68.8 | 117.3 |
| GBR-11 | no sock | no sock | 15.8 | 34 | 70.5 | 51 | 120.4 |
| GBR-20 | no sock | 17.0 | 25.2 | 164.9 | 113.0 | 69.7 | 320.1 |
| GBR-22 | 0.2 | 0.0 | 18.7 | 280.95 | 158.9 | 88.4 | 458.8 |
| GBR-23 | 38.4 | 48.2 | 8.5 | 38.2 | 17 | 60.3 | 150.3 |
| GBR-25 | 9.6 | 45.6 | 59.5 | 117.3 | 170.5 | 187.4 | 401.9 |
| GBR-26 | 17.9 | 0.0 | 10.2 | 60.35 | 40.8 | 61.2 | 129.3 |
| GBR-34 | 12.8 | 63.2 | 713.8 | 1,297.40 | 679.6 | 111.3 | 2,766.8 |
| GBR-34A | no sock | no sock | no sock | 125.5 | 330.5 | 117.1 | 456.1 |
| SHS-2 | no sock | no sock | no sock | 4.0 | 113.9 | 14.9 | 117.9 |
| 6- SHS | no sock | no sock | no sock | no sock | 149.1 | 30.4 | 149.1 |
| Annual Total (Ounces) | 78.3 | 174.0 | 900.1 | 2,217.0 | 1,919.7 | 911.7 | 6,200.8 |
| Annual Total (Gallons) | 0.61 | 1.36 | 7.03 | 17.32 | 15.0 | 7.12 | 48.4 |

2014 GROUNDWATER LABORATORY ANALYTICAL RESULTS FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

TABLES

| Analyte | NMWQCC Standard | Unit | Y | INFLUENT | INFLUENT | EFFLUENT EFFLUENT | | EFFLUENT | \vdash | | \mathbb{H}^{3} | \vdash | | \vdash | \perp | \vdash | <u> </u> | GBR-51 | GBR-52 | SHS-8 |
|---|--------------------|------------------|-------------|--------------|--------------|--|-------------------|----------------|-----------|------------|------------------|--------------|-----------|--------------|----------------|--------------|--------------|--|------------|-------------------|
| | | | 5-Mar | 18-Jun | 14-Nov | 5-Mar | 18-Jun | 14-Nov | 14-Nov 14 | 14-Nov 13- | 13-Nov 14-Nov | Nov 14-N | ov 14-Nov | \vdash | 13-N | 13-Nov | 13-Nov | 12-Nov | 12-Nov | 12-Nov |
| USEPA Method 8260B - Volatiles benzene | 92 | . Т/оп | 0. | 0 | 0 [> | V 10 | 0 | 0.1 | | | | | | | ζ | 7 | 7 | 7 | 7 | ? |
| toluene | 250 | Lest Lest | 0.1 | 0.12 | V 10 | 0.1. | 0.10 | 0 0 | | | | | | | 2,0 | 7 7 | 0.17 |) V | 2 7 | 0, 0 |
| ethylbenzene | 750 | μg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | _ | | | _ | | | 750 | V 10 | V 10 | √ | 0.0 | 28 |
| methyl tert-butyl ether (MTBE) | NE | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | \$20 | . 1∆ 1.0 | V 1.0 | <1.0 | 0.1> | 0.7 |
| 1,2,4-trimethylbenzene | 620 | T/gπ | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | 2 .0 |
| 1,3,5-trimethylbenzene | E S | μg/L | 0.0 | 0.1.0 | <1.0 | 0.[> | √1.0 | 0.12 | | | | | | | 2.0 | <1.0 | 0.1> | 0.1> | 0.1> | 2.0 |
| 1.2-dibromoethane (EDB) | = ₩ | ns/L | 0. T | 0.7 | 0.7 | 0.0 | 0.7 | 0.7 | | | | | | | 0.70 | 0.7 | 0 0 | 0.0 | o c ⊽ 7 | 0, 0 |
| naphthalene | NE . | Lg. | <2.0 | 2.0 | <2.0 | <2.0 | 2.0 | \$2.0 \$2.0 | | | | | | | 0.4 | 2.0 | 7 7 | 2.0 | 7 7 | 0,4 |
| 1-methylnaphtbalene | NE | ηgη. | <4.0 | <4.0 | <4.0 | <4.0 | < 4 .0 | <4.0 | | | | | | | 0.8≻ | ¢4.0 | 0.4> | 4.0 | 0.45 | 0.8> |
| 2-methylnaphthalene | NE | ηgη. | 0.4 | <4.0 | <4.0 | 0.4 | 0.4 | <4.0 | | | | | | | 0.8 | 4.0 | <4.0 | ¢4.0 | <4.0 | - 0.8> |
| acetone | 2 2 | μg/L α | 7 70 | - 0 ₹ | √10 7 √10 | ~10 7 0 | 00 7 | 0 V | | | | | | | 7 79 | V 10 | 01V | 010 | √10 | 62 6 |
| bromodichloromethane | žž | ug/L | 0.0 | 0.0 | V . | 9.0 | 0.0 | 0.0 | | | | | | | 0, 6 | 0.0 | 0.0 | 0.0 | 0.0 | ۵, ر ق |
| bromoform | 2 2 | ug/L | o. 0 | 0. 0 | o. c 7 ∇ | o, c | 0. C | 0.0 | | | | | | | 2, 2 | | 0 0 | 2 0 | > < | 9.0 |
| bromomethane | N. | ng/L | 3.0 | 0.5 | 3.0 | 0.0 | 3.0 | 0.50 | | | | | | | 9 9 | 2 0 | ? ° | 7 7 | 2 0 | 9 9 |
| 2-butanone | ğ | T/8n | <10 | <10 | <10 | <10 | <10 | <10 | | | | | | | <20 | 000 | v 10 | 0 TV | <10 | 750 |
| carbon disulfide | NE | ng/L | ° 70 ∀ | VI0 | <10 | </th <th><10</th> <th><10</th> <th>-</th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>750</th> <th><10</th> <th>0<u>1</u>∨</th> <th>~10 ~10</th> <th><10</th> <th>8</th> | <10 | <10 | - | | | | | | 750 | <10 | 0 <u>1</u> ∨ | ~10 ~10 | <10 | 8 |
| carbon tetrachloride | 10 | ηg/L | <1.0 | 0.1> | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| chlorobenzene | ž, | μg/L | <1.0 | √1.0 0.15 | <1.0 | 0.1≥ | 0.12 | √1.0 0.1 | | | | | | | 0.2 | 0.1> | 0.1 | 0.[> | 0.1> | <2.0 |
| chloroetnane | Ž | ug/L o.ī | 0.77 | 0.77 | 7,70 | 7,70 | 0.75 | 0. 5 | | | | | | | 0.6 | 77.0 | 0.7 | 77.0 | 0.5 | 0, 4 0, 6 |
| chloromethane | ž | nevr 1evr | 3.0 | 0.00 | 0.7 | P. 0 | 0.7 0 | 0.7 & | | | | | | | 0.7 | 7.0 | 0 0 | 2 5 | 0. 6 | 0,09 |
| 2-chlorotoluene | Š | µg/L | <1.0 | 0.1^ | <1.0 | 0.1> | 0.1> | 0.12 | _ | | | | | | <2.0 | √1.0 1.0 | 0.12 | 0.12 | 0.1^ | 2.0 |
| 4-chlorotoluene | Ä | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| cis-1,2-DCE | NE . | μg/L | <1.0 | 0.12 | 0.15 | 0.5 | 0.10 | 0.1^ | | | | | | | <2.0 | 0.1° | 0.1 | 0.10 | 0.1> | \$ \frac{2}{5} |
| cis-1,3-dichloropropene | žž | μg/L | <u>\</u> | ۰ ۱ ۱ | 9. C | 0, 0 | 0.0 | 0.10 | | | | | | | 77.0 | 0.7 5 | 0.0 | 0.0 | 0.10 | 0.7 |
| dibromochloromethane | | ng/L | 0.7 | 7 7 | 0,7 | 0.4 | 0.7 | 0.7 | | | | | | | 9 0 | 0.7 |) V | 0.7 | 7 7 | 3 6 |
| dibronomethane | Ž | μg/L | <1.0 | 0.1> | <1.0 | <1.0 | 0.1 | √1.0 _1.0 | | | | | | | 2.0 | V 1.0 | 0.12 | 0.1 | <1.0 | 0.7 |
| 1,2-dichlorobenzene | Ä | μg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | <1.0 | <1.0 | 0.1> | <1.0 | 0.7 |
| 1,3-dichlorobenzene | ž į | ug/L | 0.77 | 0.0 | 0.12 | 0.12 | 0.7 | 0.0 | | | | | | | 2.0 | 0.0 | <1.0 | 0.1 | 0.1> | 0.7 |
| L,4-dichlorobenzene dichlorodifhoromethane | ž ž | µg/L | Ð. C | 0.0 | 0.1.0 | 0 0 | o. c | 0.0 | | | | | | | 0. 6 | 0. 7 | 0.0 | 0.0 | 0.0 | 0.0 |
| 1,1-dichloroethane | 22 | rs/r L/g/L | 0.12 | 0.12 | 27.0 <1.0 | 2 O | 0.1 | 0. 0. | | | | | | | 2.0 | 7 0 | 0.0 | 0.0 | 0.0 | 2 6 |
| 1,1-dichloroethene | vo | μg/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | 0.1> | <1.0 | <1.0 | <1.0 | <2.0 |
| 1,2-dichloropropane | NE | μg/L | 0.1 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | o.1> | <1.0 | <1.0 | <1.0 | 0.7 |
| 1,3-dichloropropane | ž į | µg/L | 0.0 | 0.0 | 0.10 | ~1.0 ~1.0 | 0.0 | 0.12 | | | | | | | 0.7 | √1.0 √1.0 | 0.10 | 0.0 | 0.0 | 0.7 |
| 1,1-dichloropropene | 2 2 | us/L | 0.1 | 0.0 | 0.1 | ? 7 V | 0.7.0 | 0.7 | | | | | | | 0.4 | 0.7. | 0.70 | 0.7 | 0.7 | \$ 0 5 0 |
| hexachlorobutadiene | Ä | µg/L | <1.0 | <1.0 | <1.0 | <1.0 | 0.1> | 0.1> | _ | | | | | | <2.0 | <1.0 | 0.1^ | 0.12 | 0.12 | \$ 2.0 |
| 2-hexanone | NE | μg/L | <10 | <10 | <10 | <10 | <10 | <10 | | | | | | | √20 | <10 | <10 | <10 | <10 | <20 |
| tsopropylbenzene | | µg/L | 0.0 | 0. 0 | 0.10 | 0 0 | ⊽ ⊽ | 0.0 | | _ | | _ | _ | _ | 6. 6 6. 6 | 7 7.0 | 0, 7 | 0, 0 | 0.0 | 0, 0 |
| 4-methyl-2-pentanone | , E | L/g _H | 01> | 0 \ | <10 | <10 | ~10 VI | ? ? ? | | | | | | |) 65 | 0[> | V 710 | 0[7 | V 10 | Ç 6 |
| methylene chloride | 100 | µg/L | 0.0 | 0.6 | 3.0 | 0.6 | 0.6 | 9.0 | | | 3.0 | | | | 0.9> | 3.0 | 3.0 | 3.0 | <3.0 | <6.0 |
| n-propylbenzene | 2 <u>2</u> | ug/L | o. 0 7 ∇ | o o | 0.0 | o. 0 7 ∇ | 2 0 | 2.0 | | | | | | | 9 0 | 0, Q | 0.0 | 0.0 | 0. C |) ç |
| sec-butylbenzene | NE | ng/L | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | \$2.0 \$2.0 | VI.0 | 0.1 | 0.12 | <1.0 | \$2°0 |
| styrene | NE ! | μg/L | 0.15 | 0, 7 | 0.12 | VI.0 | 0.1 | 0.12 | | | | | | | 2.0 | <1.0 | o.1> | 0.1 | 0.1 | <2.0 |
| tert-butytovitzene 1.1.1.2-tetrachlorosthane | 2 2 | J/S/I | 0.0 | 0.7 | 0.12 |) | 0.7 | 0.17 | | | | | | | 0, 6 | 0.0 | 0.0 | o. c | e e | 0.5 |
| 1,1,2,2-tetrachloroethane | 2 2 | HS/L | 2.0 | 2.0 2.0 | 2.0 | <2.0 | 2.0 | <2.0 <2.0 | | | | | | | 3, 4, | 7.0 | <2.0 <2.0 | 0.7 | 2.0 | 0.4 |
| tetrachloroethene (PCE) | 20 | η/gπ | <1.0 | 0.1> | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | 42.0 | 0.1> | <1.0 | 0. <u>I</u> ^ | <1.0 | <2.0 |
| trans-1,2-DCE | Z S | ηgη T | 0.0 | 0. 0 | 0.1° 0.1° | 0.0 | 0.1 | 0.10 | 0.0 | 0.0 | <1.0 | 0.1> | 0.10 | 0.1 | 0.0 | 0.1 | <1.0 | 0.1> | 0.12 | 2.0 |
| trans-1,5-utemore propene 1,2,3-trichlorobenzene | ž | Lg/L | 0.7 | 0.0 | D: ∇ | o. 0 | 0.1 | 0.10 | | | | | | | 0.75 | 0.0 | 0.10 | 0. 0 | 0.7 | 0.0 |
| 1,2,4-trichlorobenzene | NE | Lg/L | 0.1> | 0.1△ | <1.0 | <1.0 | 0.1 | 0.1> | | | | | | | 70.07 | 0.1 | 0.12 | 0:1> | 0.1 | 2.0 |
| 1,1,1-trichloroethane | 09 | ηgη | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | | | | | | | <2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <2.0 |
| 1,1,2-trichloroethane | 2 9 | L/gri | 0.10 | 0 ° | 0.1.0 | √1.0 √1.0 | 0.0 | 0.0 | | | | | | | | 0.7. | 0.0 | 0.10 | 0.0 | 0.75 |
| trichlorofluoromethane | NE 100 | ng/L ng/L | 0.7 | 0.0 | 0.12 | 0.1 | 0 7 | 0.1 | | | | | | | | 0.1 | 0.10 | 3.5 | 0.7 | 0.0 |
| 1,2,3-trichloropropane | Z | µg/L | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | | | | | | | | <2.0 | <2.0 | \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ | <2.0 | 0.4> |
| vinyl chloride | - 5 | µg/L | 7 7 | 0.12 | 0.1≥ 2.0 | 0.12 | 0.12 | 0.12 | | | 0.10 1.6 | | | | 0.20 | 0.1 | <1.0 | 0. | 0.1 | 0.0 |
| | | 161 | | | 77.7 |) | 2.7 | | ┨ | 1 | ┨ | \downarrow | ┨ | \downarrow | | 71.0 | 21.7 | 7 | | 2.7 |

2014 GROUNDWATER LABORATORY ANALYTICAL RESULTS FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING SOUTHWEST, INC.

| Analyte | NMWQCC Standard | Unit | INFLUENT 5-Mar | INFLUENT 18-fin | INFLUENT 14-Nov | EFFLUENT E | EFFLUENT EI | EFFLUENT G | - | GRW-6 GBI | GBR-17 GBR-24D | 24D GBR-30 | 14-Nov | 1 GBR-32 | GBR-48 | GBR-49 | GBR-50 | GBR-51 | GBR-52 | SHS-8 |
|--|--------------------|----------------|-------------------|--------------------|--------------------|--------------|-------------|----------------|------------|---|-------------------|---------------|-----------|----------|----------|---------------------|--------------------|---------------|------------|------------|
| USEPA Method 8270C: Polycylic Aromatic Hydrocarbons | | | | | | - Livia | III FOT | + | 14-1404 | - | - | + | +- | + | ╇ | 13-Nov | 13-100 | A0N-71 | 17-Nov | 70N-71 |
| naphthalene | 30 | цgЛ | IN | K. | Z, | Į. | Į, | | | | | | | | IN | ĸ | IN | Ł | Ę | Ŗ |
| 1-mettylnaphthalene 2-mettylnaphthalene | 2 2 | regri Legal | ΣĘ | Z Z | IN | ΣĘ | ΣĘ | | | | | | | | ΖΈ | <u> </u> | <u> </u> | ΞĒ | ž ž | ξĘ |
| acenaphtbylene acenaphtbene | N NE | Llon. | E E | <u> </u> | k k | <u> </u> | E F | | | | | | | | k k | ΕÞ | Į į | <u> </u> | E E | i i |
| fluorene | Ħ | ng/L | Ę | . I | LN | - E | Ϋ́ | | | | | | | | ξĘ | ΣĘ | Ϋ́ | ξĘ | ξĘ | ΣĘ |
| phenanthrene anthracene | 2 2 | ng/L Lan | E E | Z Z | Į į | EE | <u> </u> | 05.00 | 05.05 | <0.50 <0.50 <0.50 <0.50 <0.50 | <0.50 <0.50 | 50 <0.50 | 0.50 | 분분 | K F | ξÞ | ΕĒ | 巨豆 | ξÞ | F F |
| Auoranthene | NE | µg/L | Ę | Ę | TN | Ę | : E | | | | | | | | IN | Ė | E | Ę | ĘĘ | E |
| pyrene benz(a)anthracene | N E | ng/L ue/L | k k | <u> </u> | k k | E E | <u> </u> | | | | | | | | <u> </u> | ΕÞ | E E | <u> </u> | E E | ΕÞ |
| chrysene | Z Z | 1.8r | Ę | E E | LN | Z Z | ΕK | _ | | | | | | | Z | Z | Z | ξĖ | ΣŻ | ΣÞ |
| benzo(b)fluoranthene | NE ! | lug/L | LN : | Ę ! | LN | Ę. | Į, | | | | | | | | LN | Ϋ́ | Į, | K | Ę | Į, |
| Denzo(a)pyrene | 0.7 0.7 | Jøn Tøn | ΖÞ | Z Z | z z | z ż | ΖŹ | | | | | | | | ΣÞ | Z Þ | Z Þ | ΞÞ | ΞÞ | Z Þ |
| dibenz(a,h)anthracene | NE | μg/L | NT | ŢŃ | IN | ΙΝ | TN | | | | | | | | Ę | Ę | Į. | Ę | Ę | Ę |
| Denzo(g,h.d)perylene indeno(1,2,3-cd)pyrene | Y E | ng/L ng/L | žξ | z Ł | N N | z ż | ž ž | | | 05.00 | | | | | <u> </u> | z z | r r | k k | z z | E E |
| USERA Method 300,0; Anions | Ž | Γωm | 05.0> | 0\$ 0> | 0.33 | 5 | 9 | | | | | | | | | 9 | 9 | ć | 9 | 11.0 |
| chloride | 250 | mg/L | 74 | 82 | 83 | 06 | 81 | | | | | | | | 420 | 68 | 52 | 54 | 65 | 110 |
| sulfate | 009 | mg/L | 1,600 | 1,500 | 1,500 | 1,400 | 1,500 | 1,600 | 2,200 1, | 1,600 1,2 | 1,200 1,800 | 00 1,400 | 1,500 | 1,900 | 2,100 | 1,400 | 1,700 | 1,400 | 1,700 | 350 |
| nitrate + nitrite as N | Z E | mg/L me/L | 0.90 | 1.5 | 0.85 | 0.80 | 0/:0 | | | | | | | | 0.52 | 0.71 | 0.76 | 09:0 | 0.92 | 1.5 |
| phosphorus, orthophosphate (As P) | Ä | ng/L | 2.5 | 2.5 | <10 | 5.5 | 2.5 | | | | | | | | 01> | 2.5 | 2.5 | 0.0 √10 | 2.5 | 2.5 2.5 |
| USEPA Method 200.7: Total Metals | ! | | į | ļ | ļ | | | | | | | | | | | ļ | | | | |
| barium bervilium | N N | mg/L mg/L | z z | z z | k b | k k | | 0.016 | | | | | <u>E</u> | 0.036 | | 0.70 | 0.047 | F F | E E | E |
| cadmium | 0.01 | T/gm | Ę | Ϋ́ | LX | Ĭ | | <0.0020 | | | | | Ę | <0.0020 | | <0.0020 | <0.0020 | Ę | Ę | Ę |
| calcium | E S | mg/L | 370 | 360 | 350 | 310 | | 350 | | | | | 430 | 490 | | 410 | 450 | 380 | 450 | 210 |
| iron | 1.0 | mg/L mg/L | 0.38 | 0.11 | 0.14 | N. <0.020 | | <0.000 0.15 | | | | | Z 2 | 4.5 | | 0.060 | 3.6 | N 19 | Z 2 | 7 N T |
| magnesium | NE | mg/L | 28 | 32 | 26 | 33 | | 56 | - | | | | 42 | 99 | | 36 | 34 | 32 | 38 | 42 |
| manganese nickel | 0.2 | mg/L mg/L | 5.9 F | S LN | 0.70 FX | E | 89.0 NT | 1.1 <0.010 | 0.44 NT | 5.8 EX | 0.13 1.7 NT NT | 7 2.2 I NT | 9:1- Z | 0.70 | 2.0 | 3.9 0.086 | 0.22 <0.010 | 0.47 F | 0.25 NT | 0.8 T |
| potassium | NE | mg/L | 3.3 | 4.0 | 5.6 | 3.2 | | 5.5 | | | | | 4.6 | 4.2 | | 6.3 | 3.1 | 3.8 | 4.1 | 14 |
| silver | 0.05 | mg/L | TN 074 | TN 054 | NT 042 | ĮN S | | <0.0050 | | | | | FZ S | <0.0050 | | <0.0050 | <0.0050 | F 8 | Z S | IN SE |
| zinc | 92 | mg/L | ĽN | N E | , FN | L N | | 0.023 | | | | | S K | 0.027 | | 0.084 | 0.019 | S Ł | S K | ξĖ |
| USEPA Method 200.8: Total Metals | 2 | 1/01 | Ę | EX | Ļ | £IX | | 500 | | | | | ţ | | | 9 | 0.00 | ļ | | Ę |
| arsenic | 0.1 | mg/L | ΕE | ξK | ξĘ | ξk | | <0.0010 | | | | | Z Z | <0.020 | | 0.0069 | 0.0017 | ΣŻ | ΣŻ | ΣŻ |
| copper | 1.0 | mg/L | K F | E E | <u> </u> | E E | k k | <0.010 | E S | | N N | K ! | E S | 0.084 | 0.064 | 0.041 | 0.0085 | 5.5 | ž ! | F F |
| selenium | 0.05 | mg/L | ξĘ | Z K | IN | ξĘ | | 0.0039 | | | | | Z | 0.023 | | <0.0050 | 0.0028 | ΣĘ | ΣĘ | ΣĘ |
| thallion rices and an analysis and | NE. | mg/L | Ľ | - K | FN | IN | | <0.0010 | | | | | F | <0.0010 | | <0.0050 | <0.0010 | Ϋ́ | Ŕ | IN |
| USEFA Method 243.1; Mercury mercury | 0.002 | mg/L | Ł | LN | TN | Į | - IN | <0.00020 | - IN | Z LX | - IN | - I | ž | <0.00020 | <0.00020 | <0.00020 | <0.00020 | - E | Ę | Z |
| SM 2340B: Hardness | į | | 9 | | | 000 | | | | | | | | | | , | | | | |
| naroness (as CaCO3) USEPA Method SM 2320B: A Belinity | ž | mg/L | 1000 | 0001 | 066 | 076 | 0011 | 0/6 | 001,1 | 002,1 | 086 — 086 | 00,51 | 1,200 | 1,400 | 008.1 | 1,200 | 1,300 | 8 1,1 8 | 1,300 | 700 |
| alkalinity, total (As CaCO3) | | mg/L CaCO3 | | 350 | 340 | 510 | 350 | 340 | | | | | 260 | 300 | 290 | 210 | 200 | 210 | 210 | 760 |
| carbonate | | mg/L CaCO4 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | <2.0 | <2.0 <2.0 | 0 <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | <2.0 | 2.0 | 2.0 | <2.0 |
| Dicar bonate | NE E | mg/L CaCUs | | 350 | 340 | 510 | 350 | 340 | | | | | 260 | 300 | 290 | 210 | 200 | 210 | 210 | 160 |
| Specific Conductance | | | | | | | | | | | | | | | | | | | | |
| specific conductance USEPA Method SM4500-H+B: pH | NE | mp/soum | 3,100 | 3,000 | 3,100 | 3,100 | 3,000 | 3,100 | 3,500 3,1 | 3,100 2,0 | 2,000 3,400 | 00 2,800 | 3,100 | 3,700 | 4,100 | 2,300 | 2,600 | 2,300 | 2,500 | 1,900 |
| pH USEPA Method SM2540C Modified: Total | 6-9 | pH units | 7.38 | 7.13 | 7.47 | 7.35 | 7.17 | 7.57 | 7.56 7. | 7.27 | 7,46 7.83 | 3 7.30 | 7.42 | 7.33 | 7.33 | 09'' | 7.37 | 7.38 | 7.49 | 7.12 |
| Dissolved Solids total dissolved solids | 1,000 | mg/L | 2,950 | 2,790 | 3,050 | 2,810 | 2,810 | 3,030 | 3,680 3,1 | 3,170 1.9 | 1,980 3,410 | 10 2,520 | 3,100 | 3,800 | 4,030 | 2.340 | 2,800 | 2.320 | 2,540 | 1.400 |
| | | | | | | | | | | | | | | | | | | | | |

Notes:

BOLD - indicates concentration exceeds the NMWQCC standard mg/L-milligrams per liter
NE-to established
NMWQCC - New Mexico Water Quality Control Commission
NT - not tested
HILL - micrograms per liter
USEPA - United States Environmental Protection Agency

APPENDIX A LABORATORY ANALYTICAL REPORTS



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

March 14, 2014

Ashley Ager
Western Refining Southwest, Inc.
#50 CR 4990
Bloomfield, NM 87413

TEL: (970) 946-1093 FAX (505) 632-3911

RE: GBR Quarterly Sampling

OrderNo.: 1403235

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 3 sample(s) on 3/6/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Analytical Report Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

Project: GBR Quarterly Sampling

Collection Date: 3/5/2014 1:45:00 PM

Lab ID: 1403235-001

Matrix: AQUEOUS

Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-------|------|-------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | | Analysi | JRR |
| Fluoride | 0.80 | 0.50 | | mg/L | 5 | 3/7/2014 1:03:06 AM | R17173 |
| Chloride | 90 | 2,5 | | mg/L | 5 | 3/7/2014 1:03:06 AM | R17173 |
| Bromide | ND | 0.50 | | mg/L | 5 | 3/7/2014 1:03:06 AM | R17173 |
| Phosphorus, Orthophosphate (As P) | ND | 2,5 | | mg/L | 5 | 3/7/2014 1:03:06 AM | R17173 |
| Sulfate | 1400 | 25 | * | mg/L | 50 | 3/11/2014 2:44:28 AM | R17219 |
| Nitrate+Nitrite as N | ND | 1.0 | | mg/L | 5 | 3/7/2014 1:03:06 AM | R17173 |
| EPA METHOD 200.7: METALS | | | | | | Analyst | : JLF |
| Calcium | 310 | 5.0 | | mg/L | 5 | 3/10/2014 2:34:39 PM | R17220 |
| Iron | ND | 0.020 | | mg/L | 1 | 3/10/2014 2:28:40 PM | R17220 |
| Magnesium | 33 | 1.0 | | mg/L | 1 | 3/10/2014 2:28:40 PM | R17220 |
| Manganese | 1,3 | 0.010 | * | mg/L | 5 | 3/10/2014 2:34:39 PM | R17220 |
| Potassium | 3.2 | 1.0 | | mg/L | 1 | 3/10/2014 2:28:40 PM | R17220 |
| Sodium | 520 | 10 | | mg/L | 10 | 3/10/2014 2:40:17 PM | R17220 |
| SM2340B: HARDNESS | | | | | | Analyst | JLF |
| Hardness (As CaCO3) | 920 | 6.6 | | mg/L | 1 | 3/10/2014 1:37:00 PM | R17220 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analysi | cadg |
| Benzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Toluene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Ethylbenzene | ND | 1,0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 2-Methylnaphthalene | ND | 4.0 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Acetone | ND | 10 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Bromobenzene | ND | 1.0 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Bromodichloromethane | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Bromoform | ND | 1.0 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Bromomethane | ND | 3.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 2-Butanone | ND | 10 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Carbon disulfide | ND | 10 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Chloroethane | ND | 2.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Chloroform | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 19

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

Project: GBR Quarterly Sampling

Collection Date: 3/5/2014 1:45:00 PM

Lab ID: 1403235-001

Matrix: AQUEOUS Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|-----------------------------|--------------|------|---------------|----|------------------------|--------|
| EPA METHOD 8260B: VOLATILES | - | | | | Analyst | cadg |
| Chloromethane | ND | 3.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| cis-1,2-DCE | ND | 1.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| cis-1,3-Dichloropropene | ND | 1.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2-Dibromo-3-chloropropane | NĐ | 2.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Dibromomethane | ND | 1.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,3-Dichlorobenzene | ND | 1,0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,4-Dichlorobenzene | ND | 1,0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM I | R1721 |
| 1,2-Dichloropropane | ND | 1,0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R1721 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 3/11/2014 6:12:15 AM | R1721 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Styrene | ND | 1.0 | μ g/ L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6;12:15 AM | R17213 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1,1-Trichloroethane | ND | 1.0 | μ g/ L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 19

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

Project: GBR Quarterly Sampling

Collection Date: 3/5/2014 1:45:00 PM

Lab ID: 1403235-001

Matrix: AQUEOUS

Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|----------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| 1,2,3-Trichtoropropane | ND | 2.0 | | µg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Xylenes, Total | ND | 1,5 | | μg/L | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Surr: 1,2-Dichloroethane-d4 | 106 | 70-130 | | %REC | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Surr: 4-Bromofluorobenzene | 105 | 70-130 | | %REC | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Surr: Dibromofluoromethane | 108 | 70-130 | | %REC | 1 | 3/11/2014 6:12:15 AM | R17213 |
| Surr: Toluene-d8 | 103 | 70-130 | | %REC | 1 | 3/11/2014 6:12:15 AM | R17213 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JML |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 3/6/2014 5:46:53 PM | R17167 |
| SM4500-H+B: PH | | | | | | Analyst | : JML |
| рН | 7.35 | 1.68 | Н | pH units | 1 | 3/6/2014 5:46:53 PM | R17167 |
| SM2320B: ALKALINITY | | | | | | Analyst | : JML |
| Alkalinity, Hydroxide (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 3/6/2014 5:46:53 PM | R17167 |
| Bicarbonate (As CaCO3) | 510 | 20 | | mg/L CaCO3 | 1 | 3/6/2014 5:46:53 PM | R17167 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 3/6/2014 5:46:53 PM | R17167 |
| Total Alkalinity (as CaCO3) | 510 | 20 | | mg/L CaCO3 | 1 | 3/6/2014 5:46:53 PM | R17167 |
| SM2540C MOD: TOTAL DISSOLVED SO | LIDS | | | | | Analyst | : KS |
| Total Dissolved Solids | 2810 | 20.0 | * | mg/L | 1 | 3/10/2014 11:06:00 AM | 12086 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 19

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Quarterly Sampling

Lab ID: 1403235-002

Client Sample ID: Influent

Collection Date: 3/5/2014 1:10:00 PM

Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|--------|------|---------------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | JRR |
| Fluoride | 0.90 | 0.50 | | mg/L | 5 | 3/7/2014 1:27:56 AM | R17173 |
| Chloride | 74 | 2,5 | | mg/L | 5 | 3/7/2014 1:27:56 AM | R17173 |
| Bromide | ND | 0.50 | | mg/L | 5 | 3/7/2014 1:27:56 AM | R17173 |
| Phosphorus, Orthophosphate (As P) | ND | 2,5 | | mg/L | 5 | 3/7/2014 1:27:56 AM | R17173 |
| Sulfate | 1600 | 25 | • | mg/L | 50 | 3/11/2014 2:56:53 AM | R17219 |
| Nitrate+Nitrite as N | ND | 1.0 | | mg/L | 5 | 3/7/2014 1:27:56 AM | R17173 |
| EPA METHOD 200.7: METALS | | | | | | Analyst | JLF |
| Calcium | 370 | 5.0 | | mg/L | 5 | 3/10/2014 2:44:03 PM | R17220 |
| Iron | 0.38 | 0.020 | | mg/L | 1 | 3/10/2014 2:42.08 PM | R17220 |
| Magnesium | 28 | 1.0 | | mg/L | 1 | 3/10/2014 2:42:08 PM | R17220 |
| Manganese | 0.81 | 0.0020 | * | mg/L | 1 | 3/10/2014 2:42:08 PM | R17220 |
| Potassium | 3,3 | 1,0 | | mg/L | 1 | 3/10/2014 2:42:08 PM | R17220 |
| Sodium | 470 | 5.0 | | mg/L | 5 | 3/10/2014 2:44:03 PM | R17220 |
| SM2340B: HARDNESS | | | | | | Analyst | JLF |
| Hardness (As CaCO3) | 1000 | 6.6 | | mg/L | 1 | 3/10/2014 1:37:00 PM | R17220 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Benzene | NĐ | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Toluene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Acetone | NĐ | 10 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Bromobenzene | ND | 1.0 | | µg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Bromodichloromethane | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Bromoform | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Bromomethane | ND | 3.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 2-Butanone | ND | 10 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Carbon disulfide | ND | 10 | | μ g/ Ľ | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Chloroethane | ND | 2.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Chloroform | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| | | | | | | | |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Influent

Project: GBR Quarterly Sampling

Collection Date: 3/5/2014 1:10:00 PM

Lab ID: 1403235-002

Matrix: AQUEOUS Received Date: 3/6/2014 10:20:00 AM

| m-1 | | | | | | |
|-----------------------------|--------|-------|----------|----|----------------------|-------|
| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | cadg |
| Chloromethane | ND | 3.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 4-Chlorotoluene | ND | 1.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| cis-1,2-DCE | ND | 1.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Methylene Chloride | ND | 3,0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Styrene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| 1,2,3-Trichtorobenzene | ND | 1.0 | µg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R172 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 6:41:01 AM | R1721 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDImit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Influent

Project: GBR Quarterly Sampling

Collection Date: 3/5/2014 1:10:00 PM

Lab ID: 1403235-002

Matrix: AQUEOUS Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|----------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Trichlorofluoromethane | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Xylenes, Total | ND | 1.5 | | -μg/L | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %REC | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Surr: 4-Bromofluorobenzene | 100 | 70-130 | | %REC | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Surr: Dibromofluoromethane | 106 | 70-130 | | %REC | 1 | 3/11/2014 6:41:01 AM | R17213 |
| Surr; Toluene-d8 | 105 | 70-130 | | %REC | 1 | 3/11/2014 6:41:01 AM | R17213 |
| SM2510B: SPECIFIC CONDUCTANC | E | | | | | Analyst | : JML |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 3/6/2014 6:07:28 PM | R17167 |
| SM4500-H+B; PH | | | | | | Analyst | JML |
| рН | 7.38 | 1.68 | Н | pH units | 1 | 3/6/2014 6:07:28 PM | R17167 |
| SM2320B: ALKALINITY | | | | | | Analyst | JML |
| Alkalinity, Hydroxide (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 3/6/2014 6:07:28 PM | R17167 |
| Bicarbonate (As CaCO3) | 300 | 20 | | mg/L CaCO3 | 1 | 3/6/2014 6:07:28 PM | R17167 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 3/6/2014 6:07:28 PM | R17167 |
| Total Alkalinity (as CaCO3) | 300 | 20 | | mg/L CaCO3 | 1 | 3/6/2014 6:07:28 PM | R17167 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | | Analyst | KS |
| Total Dissolved Solids | 2950 | 20.0 | | mg/L | 1 | 3/10/2014 11:06:00 AM | 12086 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 6 of 19

- P Sample pH greater than 2
- RL Reporting Detection Limit

Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Quarterly Sampling

Collection Date:

Lab ID: 1403235-003

Matrix: TRIP BLANK

Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | cadg |
| Benzene | NĐ | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Toluene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721: |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | µg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Acetone | ND | 10 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Bromoform | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 2-Butanone | ND | 10 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Carbon Tetrachloride | ND | 1,0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Chloroethane | NĐ | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Chloroform | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R1721 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 7 of 19

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1403235

Date Reported: 3/14/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Quarterly Sampling

Collection Date:

Lab ID: 1403235-003

Matrix: TRIP BLANK

Received Date: 3/6/2014 10:20:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|--------|------------------------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | • | | | | Analyst | cadg |
| 1,1-Dichloropropene | ND | 1.0 | µg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Methylene Chloride | ND | 3.0 | μ ց/ L _ | 1 | 3/11/2014 7:09:41 AM | R17213 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Styrene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,2,3-Trichlorobenzene | NĐ | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/Ľ | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Trichlorofluoromethane | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| 1,2,3-Trichloropropane | ND | 2.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Vinyl chloride | ND | 1.0 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Xylenes, Total | ND | 1.5 | μg/L | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Surr: 1,2-Dichloroethane-d4 | 105 | 70-130 | %REC | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Surr: 4-Bromofluorobenzene | 107 | 70-130 | %REC | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Surr: Dibromofluoromethane | 107 | 70-130 | %REC | 1 | 3/11/2014 7:09:41 AM | R17213 |
| Surr: Toiuene-d8 | 101 | 70-130 | %REC | 1 | 3/11/2014 7:09:41 AM | R17213 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403235 14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

| Sample ID MB | Samp | Туре: МЕ | BLK | Tes | tCode: El | PA Method | 200.7: Metals | | · | |
|---------------------|------------|--------------------------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batc | h ID; R1 | 7220 | F | RunNo: 1 | 7220 | | | | |
| Prep Date; 2/5/2014 | Analysis (| Analysis Date: 3/10/2014 | | | SeqNo: 4 | 95502 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | ND | 1.0 | | | | | | | | |
| Iron | ND | 0.020 | | | | | | | | |
| Magnesium | ND | 1.0 | | | | | | | | |
| Manganese | ND | 0.0020 | | | | | | | | |
| Potassium | ND | 1.0 | | | | | | | | |
| Sodium | ND | 1.0 | | | | | | | | |

| Sample ID LCS | Samp | Type: LC | S | Tes | tCode: El | PA Method | 200.7: Metals | | | |
|-----------------|------------|----------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSW | Bato | h ID: R1 | 7220 | F | RunNo: 1 | 7220 | | | | |
| Prep Date: | Analysis I | Date: 3/ | 10/2014 | 8 | SeqNo: 4 | 95504 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | 50 | 1.0 | 50.00 | 0 | 99.8 | 85 | 115 | | | |
| Iron | 0.49 | 0.020 | 0.5000 | 0 | 97.7 | 85 | 115 | | | |
| Magnesium | 50 | 1.0 | 50.00 | 0 | 100 | 85 | 115 | | | |
| Manganese | 0.48 | 0.0020 | 0.5000 | 0 | 95.1 | 85 | 115 | | | |
| Potassium | 49 | 1.0 | 50,00 | 0 | 97.3 | 85 | 115 | | | |
| Sodium | 49 | 1.0 | 50.00 | 0 | 98.0 | 85 | 115 | | | |

| Sample ID | 1403235-001CMS | SampT | ype: MS | 3 | Tes | tCode: El | PA Method | 200.7: Metals | 3 | | |
|------------|----------------|------------|------------------------|---------|--------------|-----------|-----------|---------------|------|----------|------|
| Client ID: | Effluent | Batch | iD: R1 | 7220 | F | RunNo: 1 | 7220 | | | | |
| Prep Date: | | Analysis D | ate: 3/ | 10/2014 | S | SeqNo: 4 | 95511 | Units: mg/L | | | |
| Analyte | | Result | Result PQL SPK value S | | | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | | 0.51 | 0.020 | 0.5000 | 0.008500 | 101 | 70 | 130 | | | |
| Magnesium | | 84 | 1.0 | 50.00 | 33.04 | 102 | 70 | 130 | | | |
| Potassium | | 54 | 54 1.0 50.00 | | 3.235 101 70 | | 130 | | | | |

| Sample ID 1403235-001 | CMSD Samp | Туре: МS | SD | Tes | lCode El | PA Method | 200.7: Metals | 5 | | |
|-----------------------|-----------|-----------|-----------|-------------|----------|-----------|---------------|-------|----------|------|
| Client D: Effluent | Bato | ch ID: R1 | 7220 | F | RunNo: 1 | 7220 | | | | |
| Prep Date: | Analysis | Date: 3/ | 10/2014 | S | SeqNo: 4 | 95512 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Iron | 0.51 | 0.020 | 0.5000 | 0.008500 | 100 | 70 | 130 | 0.372 | 20 | |
| Magnesium | 83 | 1.0 | 50.00 | 33.04 | 101 | 70 | 130 | 1.10 | 20 | |
| Potassium | 53 | 1.0 | 50.00 | 3.235 | 100 | 70 | 130 | 0.821 | 20 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

Sample ID 1403235-001CMS

SampType: MS

TestCode: EPA Method 200.7: Metals

LowLimit

Client ID:

Effluent

Batch ID: R17220

PQL

0.010

RunNo: 17220

Units: mg/L

Prep Date:

Analysis Date: 3/10/2014

SeqNo: 495514

Analyte

Result

SPK value SPK Ref Val 2.500

%REC

HighLimit

RPDLimit

Qual

Manganese

Sample ID 1403235-001CMSD

SampType: MSD

Analysis Date: 3/10/2014

TestCode: EPA Method 200.7: Metals

Client ID: **Effluent** Batch ID: R17220

RunNo: 17220

LowLimit

SeqNo: 495515

Units: mg/L Highl.imit

RPDLimit %RPD

Qual

Analyte

Result 3.7 SPK value SPK Ref Val

1.273

%REC 98.4

70

0.112

20

Manganese

Prep Date:

PQL 0.010

2,500

1.273

130

%RPD

Qualifiers:

0

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- RSD is greater than RSDlimit R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- Sample pH greater than 2,
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1403235

14-Mar-14

Client: Western Refining Southwest, Inc. Project: GBR Quarterly Sampling Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R17173 RunNo: 17173 Prep Date: Analysis Date: 3/6/2014 SeqNo: 494059 Units: mg/L Result **PQL** SPK value SPK Ref Val %REC LowLimit HighLimit %RPD **RPDLimit** Qual Analyte ND Fluoride 0.10 ND Chloride 0.50 ND Bromide 0.10 Phosphorus, Orthophosphate (As P ND 0.50 Nitrate+Nitrite as N 0.20 Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: Batch ID: R17173 RunNo: 17173 LCSW Prep Date: Analysis Date: 3/6/2014 SeqNo: 494060 Units: mg/L **RPDLimit** Result **PQL** SPK value SPK Ref Val %REC HighLimit %RPD Qual Analyte LowLimit Fluoride 0.47 0.100.5000 0 93.7 90 110 Chloride 4.7 0.50 5.000 0 93.5 90 110 2.500 96.3 90 **Bromide** 2.4 0.10 ብ 110 Phosphorus, Orthophosphate (As P 4.7 0.50 5,000 0 94.3 90 110 Nitrate+Nitrite as N 3.500 96.8 90 110 3.4 0.20Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: **PBW** Batch ID: R17173 RunNo: 17173 Prep Date: Analysis Date: 3/6/2014 SeqNo: 494113 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Result **PQL** HighLimit %RPD Qual Analyte 0.10 Fluoride ND Chloride ND 0.50 ND 0.10 **Bromide** Phosphorus, Orthophosphate (As P ND 0.50 Nitrate+Nitrite as N ND 0.20 Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R17173 RunNo: 17173 Prep Date: Analysis Date: 3/6/2014 SeaNo: 494114 Units: ma/L

SPK value SPK Ref Val

0.5000

5.000

2.500

5.000

3.500

Qualifiers:

Nitrate+Nitrite as N

Analyte

Fluoride

Chloride

Bromide

Value exceeds Maximum Contaminant Level.

Result

0.51

4.7

2.4

4.9

3.4

PQL

0.10

0.50

0.10

0.50

0.20

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit

Phosphorus, Orthophosphate (As P

- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank

LowLimit

90

90

90

90

90

HighLimit

110

110

110

110

110

%RPD

RPDLimit

Qual

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

%REC

0

0

0

n

101

94.0

97.1

97.4

97.9

- P Sample pH greater than 2
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

Sample ID MB

SampType: MBLK

Batch ID: R17219

TestCode: EPA Method 300.0: Anions

Client ID: PBW

RunNo: 17219

Prep Date:

Analysis Date: 3/10/2014

SeqNo: 495403

Units: mg/L

Analyte

Result **PQL**

SPK value SPK Ref Val %REC LowLimit

HighLimit

Qual

Sulfate

ND 0.50

Sample ID LCS Client ID: LCSW SampType: LCS

TestCode: EPA Method 300.0: Anions

RunNo: 17219

Batch ID: R17219 Analysis Date: 3/10/2014

SeqNo: 495404

Units: mg/L

Analyte Result

SPK value SPK Ref Val %REC

LowLimit

HighLimit

%RPD

RPDLimit

Qual

Prep Date:

9.7

0.50

96.9

90

%RPD

RPDLimit

Sulfate

PQL

10.00

110

Qualifiers:

- Value exceeds Maximum Contaminant Level
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded ND Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project: GBR Quarterly Sampling

| Samula ID 5-1 -t- | Cama-Tu | no MPLK | TeetOede | CDA 84-45 | 00000- 1/01 | ATU EC | | |
|--------------------------------|-------------|---------------|-------------------|------------|-------------|--------|----------|------|
| Sample ID 5mL rb | • | pe: MBLK | | | 8260B: VOL | AIILES | | |
| Client ID: PBW | | ID: R17213 | RunNo | 17213 | | | | |
| Prep Date: | Analysis Da | te: 3/10/2014 | SeqNo | 495288 | Units: µg/L | | | |
| Analyte | Result | | e SPK Ref Val %RE | C LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | |
| Toluene | ND | 1.0 | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | |
| Acetone | ND | 10 | | | | | | |
| Bromobenzene | ND | 1,0 | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | |
| Bromoform | ND | 1.0 | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | |
| 2-Butanone | ND | 10 | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | |
| Chloroform | ND | 1.0 | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | | | | | | |
| cis-1,2-DCE | ND | 1.0 | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | |
| rir-pimimohiohaga | ND | 2.0 | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

| Sample ID 5mL rb | SampT | ype: MBLK | Tes | tCode: EPA Meth | od 8260B: VOL | ATILES | | |
|-----------------------------|------------|----------------|---------------|----------------------|---------------|--------|----------|------|
| Client ID: PBW | Batch | n ID: R17213 | F | RunNo: 17213 | | | | |
| Prep Date: | Analysis D | ate: 3/10/2014 | 5 | SeqNo: 495288 | Units: µg/L | | | |
| Analyte | Result | PQL SPK valu | e SPK Ref Val | %REC LowLin | nit HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | |
| 2-Hexanone | ND | 10 | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | |
| sec-Butylbenzene | NĐ | 1.0 | | | | | | |
| Styrene | ND | 1.0 | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | |
| Trichloroethene (TCE) | ND | 1.0 | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | |
| Surr. 1,2-Dichloroethane-d4 | 10 | 10.00 |) | 104 | '0 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | 10.00 |) | 102 | 70 130 | | | |
| Surr: Dibromofluoromethane | 10 | 10.00 |) | | 70 130 | | | |
| Surr: Toluene-d8 | 10 | 10.00 |) | | 70 130 | | | |

| Sample ID 100ng Ics | SampT | ype: LC | S | Tes | tCode: El | PA Method | ATILES | | | |
|---------------------|--------------|---------------|-----------|-------------|-----------|-----------|-------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R1 | 7213 | F | RunNo: 1 | 7213 | | | | |
| Prep Date: | Analysis D | ate: 3/ | 10/2014 | 8 | SeqNo: 4 | 95290 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 21 | 1.0 | 20.00 | 0 | 105 | 70 | 130 | | | |
| Toluene | 18 | 1.0 | 20.00 | 0 | 89.1 | 80 | 120 | | | |
| Chlorobenzene | 17 1.0 20.00 | | | 0 | 86.6 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 14 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

| Sample ID 100ng Ics | Samp1 | Type: LC | S | Tes | | | | | | |
|-----------------------------|--------------------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batci | h ID: R1 | 7213 | F | RunNo: 1 | 7213 | | | | |
| Prep Date: | Analysis Date: 3/10/2014 | | | \$ | SeqNo: 4 | 95290 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 20 | 1.0 | 20.00 | 0 | 100 | 90 | 143 | | | |
| Trichloroethene (TCE) | 17 | 1.0 | 20.00 | 0 | 86.9 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 10 | | 10.00 | | 100 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | nethane 10 10.0 | | | | 101 | 70 | 130 | | | |
| Surr: Toluene-d8 9.5 | | | 10.00 | | 95.4 | 70 | 130 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- RL Reporting Detection Limit

Page 15 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

Sample ID 1403235-002b dup

SampType: dup

TestCode: SM2510B: Specific Conductance

Client ID: Influent Batch ID: R17167

RunNo: 17167

Prep Date:

Analysis Date: 3/6/2014

SeqNo: 493965

Units: µmhos/cm

Result Analyte

PQL SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit** Qual

Conductivity

3100 0.010 0.290

Qualifiers:

Value exceeds Maximum Contaminant Level

E Value above quantitation range

j Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

Reporting Detection Limit

Page 16 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#: 1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

Result

7.41

Sample ID 1403235-002b dup

SampType: dup

TestCode: SM4500-H+B: pH

Client ID: Influent

Batch ID: R17167

RunNo: 17167

Units: pH units

Prep Date:

Analysis Date: 3/6/2014

SeqNo: 493991 SPK value SPK Ref Val %REC LowLimit

RPDLimit

Qual

Analyte рΗ

PQL 1.68 HighLimit %RPD Н

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits J

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit

Page 17 of 19

Hall Environmental Analysis Laboratory, Inc.

WO#:

1403235

14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Quarterly Sampling

Result

Sample ID mb-1

SampType: mblk

TestCode: SM2320B: Alkalinity

Client ID: PBW

Batch ID: R17167

RunNo: 17167

HighLimit

Prep Date:

Analysis Date: 3/6/2014

SeqNo: 493925

Units: mg/L CaCO3

Analyte

PQL

RPDLimit

Total Alkalinity (as CaCO3)

ND

TestCode: SM2320B: Alkalinity

Sample ID Ics-1 Client ID: LCSW SampType: Ics Batch ID: R17167

RunNo: 17167

Prep Date:

Analysis Date: 3/6/2014

SeqNo: 493926

Units: mg/L CaCO3

Analyte

Result PQL SPK value SPK Ref Val

%REC LowLimit **HighLimit** %RPD **RPDLimit**

RPDLimit

Qual

Qual

Total Alkalinity (as CaCO3)

Client ID: PBW

80

ND

Result

81

20 80.00 99.7

90

110

%RPD

%RPD

%RPD

Sample ID mb-2

SampType: mblk

Batch ID: R17167

TestCode: SM2320B: Alkalinity RunNo: 17167

Units: mg/L CaCO3

Prep Date: Analysis Date: 3/6/2014 Analyte

SeqNo: 493932 SPK value SPK Ref Val %REC LowLimit **PQL**

Qual

Total Alkalinity (as CaCO3)

Sample ID Ics-2

20

TestCode: SM2320B: Alkalinity

RunNo: 17167

HighLimit

Client ID: Prep Date:

Batch ID: R17167 Analysis Date: 3/6/2014

PQL

20

SampType: Ics

SeqNo: 493933

Units: mg/L CaCO3

Analyte

SPK value SPK Ref Val

%REC LowLimit HighLimit

RPDLimit

Qual

Total Alkalinity (as CaCO3)

LCSW

80.00 0

101

110

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Н

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1403235 14-Mar-14

Client:

Western Refining Southwest, Inc.

Project:

Analyte

GBR Quarterly Sampling

Sample ID MB-12086

Prep Date: 3/7/2014

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW**

Batch ID: 12086

PQL

20.0

RunNo: 17192

Analysis Date: 3/10/2014

SeqNo: 494687

Units: mg/L **HighLimit**

%RPD **RPDLimit**

Qual

Total Dissolved Solids

ND

Result

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW Prep Date: 3/7/2014

Sample ID LCS-12086

Balch ID: 12086 Analysis Date: 3/10/2014

RunNo: 17192

SeqNo: 494688

HighLimit

Units: mg/L

PQL

SPK value SPK Ref Val %REC 1000

SPK value SPK Ref Val %REC LowLimit

106

80

%RPD

RPDLimit

Total Dissolved Solids

1060 20.0

LowLimit

120

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Value above quantitation range E

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits R

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Н

ND Not Detected at the Reporting Limit

Sample pH greater than 2. Reporting Detection Limit

P

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Hall Environmental Analysis Laboratory
4901 Hawkins NE
Albuquerque, NM 87109

Sample Log-In Check List

LABORATORY

TEL: 505-345-3975 FAX: 505-345-4107
Website: www.hallenvironmental.com

ient Name: Western Refining Southw

Work Order Number: 1403235

| Client Name: Western Refining Southw Work Order Number | r. 1403235 | | RoptNo: 1 | |
|--|---------------|----------------------------|-------------------------------------|------------------|
| Received by/date 03 D(0) | 4 | Na Ivii | a 4 92 1 7* | |
| Logged By: Ashley Gallegos 3/6/2014 10:20:00 AM | 4 | A | | i i |
| Completed By: Ashley Gallegos 3/6/2014 11:37:43 A | A | A | | |
| Reviewed By: 03/04/1 | 4 | | | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottles? | Yes | No | Not Present ✓ | |
| 2. Is Chain of Custody complete? | Yes 💌 | No | Not Present | |
| 3. How was the sample delivered? | Courier | | | , |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes 🔽 | No 🗀 | NA 🗆 | |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes 🔽 | No 📮 | NA 🗔 | |
| 6. Sample(s) in proper container(s)? | Yes 🗸 | No 🗔 | | |
| 7. Sufficient sample volume for indicated test(s)? | Yes 🗸 | No | | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes 🗹 | No L | | |
| 9. Was preservative added to bottles? | Yes [] | No 🗹 | NA 🖽 | |
| 10.VOA vials have zero headspace? | Yes 🗹 | No 🗔 | No VOA Vials | dracher |
| 11. Were any sample containers received broken? | Yes | No 🗹 | # of preserved | de descri |
| | | | bottles checked 🧸 🕽 | (|
| 12. Does paperwork match bottle labels? (Note discrepancies on chain of custody) | Yes 🗸 | No | for pH: | 12 unless noted) |
| 13. Are matrices correctly identified on Chain of Custody? | Yes 🗸 | No L | Adjusted? | D |
| 14. Is it clear what analyses were requested? | Yes 🔽 | No | $\stackrel{\smile}{\triangleright}$ | to |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🔀 | No 🔛 | Checked by: | 7 |
| Special Handling (if applicable) | | | | |
| 16. Was client notified of all discrepancies with this order? | Yes 🗌 | No 🗆 | NA 🗹 | |
| Person Notified: Date: | | | | |
| By Whom: Via: | eMail | Phone Fax | In Person | |
| Regarding: | 2.2 | | | |
| Client Instructions: | and same same | | | |
| 17. Additional remarks: | | La Albanda I de la Company | | |
| 18. Cooler Information Cooler No Temp °C Condition Seal Intact Seal No | Seal Date | Signed By | | |
| 1 1.0 Good Yes | | | | |

| INTERNATIONAL TABLET | ANALYSIS LABORATORY | www.hallenvironmental.com | 4901 Hawkins NE - Albuquerque, NM 87109 | Tel. 505-345-3975 Fax 505-345-4107 | Analysis Request | iO⁴) BO) | M / OF | HPH (1.81) (1.81) (1.40) (1.82) (1.40) (1.82) (1.40) (1.82) (1.40) (1.82) (1.82) (1.40) (1.82 | 10 GH (GH) (GH) (GH) (GH) (GH) (GH) (GH) (| BTEX + MT BTEX + MT TPH 8015E TPH (Methr PAH's (831 RCRA 8 Mc RORA 9 Mc RORA | X X X | メメター | X | | | | | Remarks: | wes as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |
|-------------------------|-----------------------|---------------------------|---|------------------------------------|------------------|--------------------------------|---|--|--|--|-------------------|-------------------------|-----------------|--|--|--|--|---|--|
| Turn-Atouna Time. | KStandard 🗆 Rush | Project Name: | able Wearthy Sampine | Project #: | | Project Manager: | Ashley AgeR | Sampler: Davie) Menuncul | Sample Temperature: | Container Preservative HEAL No Type and # Type | 7 Varios 001 -009 | 7 Noviews -002-003 | VOA/2 HCL - 003 | | | | | Received by: Ample Louls 3/s/14 1530 Received by: Date 03 D(| cledited laboratories. This se |
| Chain-of-Custody Record | Slient Kelly Robinson | _ ا | Mailing Address: 111 C ド 49억C | 13100mmf + 10 NM R7418 | 32-4166 | ant kelly, robinson over , con | JA/QC Package: £ Standard ☐ Level 4 (Full Validation) | n Other | 3 EDD (Type) | Date Time Matrix Sample Request ID | 1245 AQ | State (SLO A Q Influent | 15/14 Tie Blank | | | | | Sate: Time: Relinquished by; | If necassary, ream |

```
VOCs 8260
General Chemistry:
       pH
BC
      TDS
    alkalinity
     hardness
      anjons
           bromide
           chloride
            sulfate
            fluoride
       nitrate/nitrite
         phosporus .
      cations
           calcium
               iron
        magnesium
         manganese
```

potassium sodium



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

July 01, 2014

Devin Hencmann Western Refining Southwest, Inc. #50 CR 4990

Bloomfield, NM 87413 TEL: (970) 403-6023 FAX (505) 632-3911

RE: GBR OrderNo.: 1406898

Dear Devin Hencmann:

Hall Environmental Analysis Laboratory received 3 sample(s) on 6/19/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

Onlyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Influent

Project: GBR

Collection Date: 6/18/2014 2:20:00 PM

Lab ID:

1406898-001

Matrix: AQUEOUS

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|--------|------|-------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | JRR |
| Fluoride | 0.74 | 0.50 | | mg/L | 5 | 6/19/2014 1:22:41 PM | R19410 |
| Chloride | 82 | 10 | | mg/L | 20 | 6/19/2014 1:59:55 PM | R19410 |
| Nitrogen, Nitrite (As N) | ND | 0.50 | | mg/L | 5 | 6/19/2014 1:22:41 PM | R19410 |
| Bromide | ND | 0,50 | | mg/L | 5 | 6/19/2014 1:22:41 PM | R19410 |
| Nitrogen, Nitrate (As N) | 1.5 | 0.50 | | mg/L | 5 | 6/19/2014 1:22:41 PM | R19410 |
| Phosphorus, Orthophosphate (As P) | ND | 2,5 | | mg/L | 5 | 6/19/2014 1;22:41 PM | R19410 |
| Sulfate | 1500 | 25 | • | mg/L | 50 | 6/26/2014 3:42:01 AM | R19526 |
| EPA METHOD 200.7: METALS | | | | | | Analyst | JLF |
| Calcium | 360 | 10 | | mg/L | 10 | 6/20/2014 3:05:28 PM | R19422 |
| Iron | 0.11 | 0.020 | | mg/L | 1 | 6/19/2014 5:43:13 PM | R19395 |
| Magnesium | 32 | 1.0 | | mg/L | 1 | 6/19/2014 5:43:13 PM | R19395 |
| Manganese | 0.59 | 0.0020 | | mg/L | 1 | 6/19/2014 5:43:13 PM | R19395 |
| Potassium | 4.0 | 1.0 | | mg/L | 1 | 6/19/2014 5:43:13 PM | R19395 |
| Sodium | 450 | 10 | | mg/L | 10 | 6/20/2014 3:05:28 PM | R19422 |
| SM2340B: HARDNESS | | | | | | Analyst | JLF |
| Hardness (As CaCO3) | 1000 | 6.6 | | mg/L | 1 | 6/20/2014 2:03:00 PM | R19422 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Benzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Toluene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Ethylbenzene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | Р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Naphthalene | ND | 2.0 | Р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1-Methylnaphthalene | ND | 4.0 | Р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 2-Methylnaphthalene | ND | 4.0 | Р | μg/L | 1 | 6/23/2014 5:58;35 PM | R19450 |
| Acetone | ND | 10 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Bromobenzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Bromodichloromethane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Bromoform | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Bromomethane | ND | 3.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 2-Butanone | ND | 10 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Carbon disulfide | ND | 10 | Р | µg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Carbon Tetrachloride | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Chlorobenzene | ND | 1.0 | р | µg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Chloroethane | ND | 2.0 | р | µg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 20

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: Influent

CLIENT: Western Refining Southwest, Inc.
Project: GBR

Collection Date: 6/18/2014 2:20:00 PM

Lab ID: 1406898-001

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-----|------|-------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Chloroform | ND | 1.0 | Р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Chloromethane | ND | 3.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 2-Chlorotoluene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 4-Chlorotoluene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| cis-1,2-DCE | NĐ | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| cis-1,3-Dichloropropene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Dibromochloromethane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Dibromomethane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,2-Dichlorobenzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,3-Dichlorobenzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,4-Dichlorobenzene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Dichlorodifluoromethane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,1-Dichloroethane | ND | 1,0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,1-Dichloroethene | ND | 1.0 | p. | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,2-Dichloropropane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,3-Dichloropropane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 2,2-Dichloropropane | ND | 2,0 | р | µg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,1-Dichloropropene | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Hexachlorobutadiene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 2-Hexanone | ND | 10 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Isopropylbenzene | ND | 1,0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 4-Isopropyltoluene | ND | 1.0 | р | µg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 4-Methyl-2-pentanone | ND | 10 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Methylene Chloride | ND | 3.0 | p | pg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| n-Butylbenzene | ND | 3.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| n-Propylbenzene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| sec-Butylbenzene | ND | 1.0 | p | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Styrene | ND | 1.0 | p. | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| tert-Butylbenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | • | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| Tetrachloroethene (PCE) | ND | 1.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| trans-1,2-DCE | ND | 1.0 | • | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| trans-1,3-Dichloropropene | ND | 1.0 | • | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | • | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 6/23/2014 5:58:35 PM | R1945 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Influent

Project: GBR

Collection Date: 6/18/2014 2:20:00 PM

Lab ID: 1406898-001

Matrix: AQUEOUS

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Trichloroethene (TCE) | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Trichlorofluoromethane | ND | 1.0 | р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| 1,2,3-Trichloropropane | ND | 2.0 | р | -μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Vinyl chloride | ND | 1.0 | р | µg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Xylenes, Total | ND | 1.5 | Р | μg/L | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Surr. 1,2-Dichloroethane-d4 | 89.0 | 70-130 | Р | %REC | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Surr: 4-Bromofluorobenzene | 98.9 | 70-130 | р | %REC | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Surr: Dibromofluoromethane | 99.8 | 70-130 | р | %REC | 1 | 6/23/2014 5:58:35 PM | R19450 |
| Surr: Toluene-d8 | 99.6 | 70-130 | Р | %REC | 1 | 6/23/2014 5:58:35 PM | R19450 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| Conductivity | 3000 | 0.010 | | µmhos/cm | 1 | 6/23/2014 12:31:41 PM | R19484 |
| SM4500-H+B: PH | | | | | | Analyst | JRR |
| pH | 7.13 | 1.68 | Н | pH units | 1 | 6/23/2014 12:31:41 PM | R19484 |
| SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| Bicarbonate (As CaCO3) | 350 | 20 | | mg/L CaCO3 | 1 | 6/23/2014 12:31:41 PM | R19484 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 6/23/2014 12:31:41 PM | R19484 |
| Total Alkalinity (as CaCO3) | 350 | 20 | | mg/L CaCO3 | 1 | 6/23/2014 12:31:41 PM | R19484 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | | Analyst | KS |
| Total Dissolved Solids | 2790 | 20.0 | • | mg/L | 1 | 6/24/2014 5:16:00 PM | 13839 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2
- RL Reporting Detection Limit

Analytical Report Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

Project: GBR

Collection Date: 6/18/2014 2:40:00 PM

Lab ID: 1406898-002

Matrix: AQUEOUS Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL | Quai | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|--------|------|-------|----|----------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | JRR |
| Fluoride | 0.70 | 0.50 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Chloride | 81 | 2,5 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Nitrogen, Nitrite (As N) | ND | 0.50 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Bromide | ND | 0.50 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Nitrogen, Nitrate (As N) | 0.89 | 0.50 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Phosphorus, Orthophosphate (As P) | ND | 2.5 | | mg/L | 5 | 6/19/2014 2:37:09 PM | R19410 |
| Sulfate | 1500 | 25 | * | mg/L | 50 | 6/26/2014 3:54:26 AM | R19526 |
| EPA METHOD 200.7: METALS | | | | | | Analyst | JLF |
| Calcium | 370 | 10 | | mg/L | 10 | 6/20/2014 3:07:18 PM | R19422 |
| Iron | 0.069 | 0.020 | | mg/L | 1 | 6/19/2014 5:45:21 PM | R19395 |
| Magnesium | 33 | 1.0 | | mg/L | 1 | 6/19/2014 5:45:21 PM | R19395 |
| Manganese | 0.68 | 0.0020 | * | mg/L | 1 | 6/19/2014 5:45:21 PM | R19395 |
| Potassium | 3.8 | 1.0 | | mg/L | 1 | 6/19/2014 5:45:21 PM | R19395 |
| Sodium | 440 | 10 | | mg/L | 10 | 6/20/2014 3:07:18 PM | R19422 |
| SM2340B: HARDNESS | | | | | | Analyst | JLF |
| Hardness (As CaCO3) | 1100 | 6,6 | | mg/L | 1 | 6/20/2014 2:03:00 PM | R19422 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Benzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Toluene | ND | 1.0 | | µg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,3,5-Trimethylbenzene | ND | 1,0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Acetone | ND | 10 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Bromobenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Bromodichloromethane | NĐ | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Bromoform | NĐ | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Bromomethane | ND | 3.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 2-Butanone | ND | 10 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Carbon disulfide | ND | 10 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Chloroethane | ND | 2.0 | | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2
- RL Reporting Detection Limit

Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

Project: GBR

Collection Date: 6/18/2014 2:40:00 PM

Lab ID: 1406898-002

Matrix: AQUEOUS

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | cadg |
| Chloroform | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 4-Isopropyltoluene | ND | 1.0 | µg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| Styrene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R1945 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27 20 PM | R19450 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Effluent

 Project:
 GBR
 Collection Date: 6/18/2014 2:40:00 PM

 Lab ID:
 1406898-002
 Matrix: AQUEOUS
 Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|-------------------------------|----------|--------|------------|-----|-----------------------|----------|
| EPA METHOD 8260B: VOLATILES | | | | | Analys | t cadg |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Trichlorofluoromethane | ND | 1.0 | µg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| 1,2,3-Trichloropropane | ND | 2.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Vinyl chloride | ND | 1.0 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Xylenes, Total | ND | 1.5 | μg/L | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Surr: 1,2-Dichloroethane-d4 | 90.3 | 70-130 | %REC | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Surr: 4-Bromofluorobenzene | 95.6 | 70-130 | %REC | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Surr: Dibromofluoromethane | 106 | 70-130 | %REC | 1 | 6/23/2014 6:27:20 PM | R19450 |
| Surr: Toluene-d8 | 105 | 70-130 | %REC | 1 | 6/23/2014 6:27:20 PM | R19450 |
| SM2510B; SPECIFIC CONDUCTANCE | = | | | | Analys | t: JRR |
| Conductivity | 3000 | 0.010 | µmhos/cm | 1 | 6/23/2014 12:52:06 PM | R19484 |
| SM4500-H+B: PH | | | | | Analys | t: JRR |
| pH | 7.17 | 1.68 | H pH units | 1 | 6/23/2014 12;52:06 PM | 1 R19484 |
| SM2320B: ALKALINITY | | | | | Analys | t: JRR |
| Bicarbonate (As CaCO3) | 350 | 20 | mg/L CaCO | 3 1 | 6/23/2014 12:52:06 PM | R19484 |
| Carbonate (As CaCO3) | ND | 2.0 | mg/L CaCO | 3 1 | 6/23/2014 12:52:06 PM | R19484 |
| Total Atkalinity (as CaCO3) | 350 | 20 | mg/L CaCO | 3 1 | 6/23/2014 12:52:06 PM | R19484 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | Analys | t: KS |
| Total Dissolved Solids | 2810 | 20,0 | * mg/L | 1 | 6/24/2014 5:16:00 PM | 13839 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1406898

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Trip Blank

Project: GBR

Collection Date:

Lab ID: 1406898-003

Matrix: AQUEOUS

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-----|------|-------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | cadg |
| Benzene | ND | 1,0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Toluene | ND | 1.0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2-Dichloroethane (EDC) | NĐ | 1,0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2-Dibromoethane (EDB) | ND | 1,0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Acetone | ND | 10 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Bromobenzene | ND | 1,0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Bromodichloromethane | ND | 1.0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Bromoform | ND | 1,0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Bromomethane | NĐ | 3.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 2-Butanone | NĐ | 10 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Carbon disulfide | ND | 10 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Chloroethane | ND | 2.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Chloreform | ND | 1.0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Chloromethane | ND | 3.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 2-Chlorotoluene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 4-Chiorotoluene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| cis-1,2-DCE | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| cis-1,3-Dichloropropene | ND | 1.0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2-Dibromo-3-chtoropropane | ND | 2.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Dibromochloromethane | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Dibromomethane | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2-Dichlorobenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,3-Dichtorobenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,4-Dichlorobenzene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Dichlorodifluoromethane | NĐ | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,1-Dichloroethane | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,1-Dichloroethene | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,2-Dichloropropane | ND | 1.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 1,3-Dichloropropane | ND | 1.0 | | µg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 2,2-Dichloropropane | ND | 2.0 | | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 7 of 20

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 7/1/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: Trip Blank

Project: GBR

Collection Date:

Lab ID: 1406898-003

Matrix: AQUEOUS

Received Date: 6/19/2014 7:15:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|--------|----------|----|----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | cadg |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Styrene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Trichlorofluoromethane | ND | 1.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| 1,2,3-Trichloropropane | ND | 2.0 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Vinyl chloride | ND | 1.0 | µg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Xylenes, Total | ND | 1.5 | μg/L | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | %REC | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | %REC | 1 | 6/26/2014 1:43:05 AM | R1951 |
| Surr: Dibromofluoromethane | 107 | 70-130 | %REC | 1 | 6/26/2014 1:43:05 AM | R19511 |
| Surr: Toluene-d8 | 102 | 70-130 | %REC | 1 | 6/26/2014 1:43:05 AM | R19511 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 8 of 20

- P Sample pH greater than 2,
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID MB | Samp [*] | Гуре: МЕ | 3LK | Tes | tCode: E | PA Method | 200.7: Metals | | | |
|----------------|-------------------|----------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batc | h ID: R1 | 9395 | F | RunNo: 1 | 9395 | | | | |
| Prep Date: | Analysis [| Date: 6/ | 19/2014 | \$ | SeqNo: 5 | 61190 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| iron | NĐ | 0.020 | | | | | | | | |
| Magnesium | ND | 1.0 | | | | | | | | |
| Manganese | ND | 0.0020 | | | | | | | | |
| Potassium | ND | 1.0 | | | | | | | | |
| Sample ID LCS | Samp | Гуре: LC | s | Tes | tCode: E | PA Method | 200.7: Metals | | | |
| 01-15-10011 | 5-1-1 | | | _ | | | | | | |

| Client ID. LC344 | balcii ib. R 19395 | | | Г | KUIIIAO. 1 | 2320 | | | | | |
|------------------|--------------------|------------------|-----------|-------------|------------|----------|-------------|------|----------|------|--|
| Prep Date: | Analysis I | Date: 6 / | 19/2014 | 5 | SeqNo: 5 | 61191 | Units: mg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Iron | 0.52 | 0.020 | 0.5000 | 0 | 103 | 85 | 115 | | | | |
| Magnesium | 49 | 1.0 | 50.00 | 0 | 98.9 | 85 | 115 | | | | |
| Manganese | 0.50 | 0.0020 | 0.5000 | 0 | 99.8 | 85 | 115 | | | | |
| Potassium | 46 | 1.0 | 50.00 | 0 | 92.8 | 85 | 115 | | | | |

| Sample ID MB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 200.7: Metals | | | |
|----------------|------------|---------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9422 | F | RunNo: 1 | 9422 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 20/2014 | S | SeqNo: 5 | 61722 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | NĐ | 1.Ò | | | | | | | | |
| Sodium | ND | 1.0 | | | | | | | | |

| Sample ID LCS | SampT | ype: LC | S | Test | lCode: El | PA Method | 200.7: Metals | | | |
|-----------------|------------|---------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R1 | 9422 | R | lunNo: 1 | 9422 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 20/2014 | S | SeqNo: 5 | 61723 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLlmit | %RPD | RPDLimit | Qual |
| Calcium | 48 | 1.0 | 50.00 | 0 | 96.4 | 85 | 115 | | | |
| Sodium | 47 | 1.0 | 50,00 | 0 | 93.9 | 85 | 115 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID MB | SampT | уре: М | BLK | Tes | tCode: E | PA Method | 300.0: Anion: | 3 | | |
|----------------------------------|------------|---------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9410 | F | RunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 19/2014 | 8 | SeqNo: 5 | 61479 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0.10 | | | | | | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | | | | | | | |
| Bromide | ND | 0.10 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |

| Sample ID LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 300.0: Anions | 5 | | |
|----------------------------------|------------|---------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSW | Batch | ID; R1 | 9410 | F | RunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 19/2014 | S | SeqNo: 5 | 61480 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.47 | 0.10 | 0.5000 | 0 | 94.3 | 90 | 110 | | | |
| Chloride | 4.7 | 0.50 | 5.000 | 0 | 94.8 | 90 | 110 | | | |
| Nitrogen, Nitrite (As N) | 0.94 | 0.10 | 1,000 | 0 | 93.7 | 90 | 110 | | | |
| Bromide | 2.4 | 0.10 | 2,500 | 0 | 96.2 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.5 | 0.10 | 2,500 | 0 | 99.8 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 4.9 | 0.50 | 5,000 | 0 | 97.6 | 90 | 110 | | | |

| Sample ID 1406898-001BMS | SampT | ype: MS | 6 | Tes | Code: E | PA Method | 300.0: Anions | 3 | | |
|----------------------------------|------------|-----------------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: Influent | Batch | n ID: R1 | 9410 | F | lunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis D |)ate: 6/ | 19/2014 | 8 | SeqNo: 5 | 61486 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 2.9 | 0.50 | 2,500 | 0.7388 | 87.9 | 72.7 | 110 | | | |
| Nitrogen, Nitrite (As N) | 4.5 | 0.50 | 5.000 | 0 | 90.3 | 75.5 | 104 | | | |
| Bromide | 12 | 0.50 | 12.50 | 0 | 96.2 | 85.1 | 108 | | | |
| Nitrogen, Nitrate (As N) | 14 | 0.50 | 12.50 | 1.517 | 97.3 | 87.8 | 111 | | | |
| Phosphorus, Orthophosphate (As P | 21 | 2.5 | 25.00 | 0 | 85.8 | 81.3 | 101 | | | |

| Sample ID 1406898-001BMS | D SampT | ype: MS | SD | Tes | PA Method | 5 | | | | |
|----------------------------------|------------|----------|-----------|-------------|-----------|----------|-------------|------|----------|------|
| Client ID: Influent | Batch | ı ID: R1 | 9410 | R | lunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis D |)ate: 6/ | 19/2014 | 8 | SeqNo: 5 | 61487 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 3.0 | 0.50 | 2.500 | 0.7388 | 89.7 | 72.7 | 110 | 1.45 | 20 | |
| Nitrogen, Nitrite (As N) | 4.6 | 0.50 | 5,000 | 0 | 92.2 | 75.5 | 104 | 2.04 | 20 | |
| Bromide | 12 | 0.50 | 12.50 | 0 | 97.6 | 85.1 | 108 | 1.44 | 20 | |
| Nitrogen, Nitrate (As N) | 14 | 0.50 | 12.50 | 1.517 | 99.2 | 87.8 | 111 | 1.78 | 20 | |
| Phosphorus, Orthophosphate (As P | 22 | 2,5 | 25.00 | 0 | 87.2 | 81.3 | 101 | 1.63 | 20 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

| Client: |
|---------|
| Duningt |

Western Refining Southwest, Inc.

SampType: LCS

Result

9.4

Batch ID: R19526

Analysis Date: 6/25/2014

PQL

0.50

SPK value SPK Ref Val

10.00

| Project: GBR | | | | | | | | | | |
|----------------------------------|------------|---------------|-----------|-------------|----------|-----------|---------------|------|----------|--------|
| Sample ID MB | SampT | Гуре: МЕ | BLK | Tes | tCode: E | PA Method | 300.0: Anion: | 3 | | |
| Client ID: PBW | Batcl | h ID: R1 | 9410 | F | RunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis E | Date: 6/ | 19/2014 | \$ | SeqNo: 5 | 61529 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual = |
| Fluoride | ND | 0.10 | | | | | | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | | | | | | | |
| Bromide | ND | 0.10 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |
| Sample ID LCS | SampT | ype: LC | s | Tes | tCode: E | PA Method | 300.0: Anions | 3 | | |
| Client ID: LCSW | Batch | n ID: R1 | 9410 | F | RunNo: 1 | 9410 | | | | |
| Prep Date: | Analysis D |)ate: 6/ | 19/2014 | 5 | SeqNo: 5 | 61530 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.51 | 0.10 | 0.5000 | 0 | 101 | 90 | 110 | | | |
| Chloride | 4.8 | 0.50 | 5.000 | 0 | 96.1 | 90 | 110 | | | |
| Nitrogen, Nitrite (As N) | 0.97 | 0.10 | 1.000 | 0 | 97.0 | 90 | 110 | | | |
| Bromide | 2.5 | 0.10 | 2.500 | 0 | 99.2 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.5 | 0.10 | 2.500 | 0 | 101 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 5.0 | 0.50 | 5.000 | 0 | 99.0 | 90 | 110 | | | |
| Sample ID MB | SampT | ype: ME | BLK | Tes | (Code: E | PA Method | 300.0: Anions | | | |
| Client ID: PBW | Batch | 1D: R1 | 9526 | F | RunNo: 1 | 9526 | | | | |
| Prep Date: | Analysis D |)ate: 6/ | 25/2014 | S | SeqNo: 5 | 65235 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sulfate | ND | 0.50 | | | | | | | | |

Qualifiers:

Sample ID LCS

LCSW

Client ID:

Prep Date:

Analyte

Sulfate

- Value exceeds Maximum Contaminant Level.
- Ε Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank

TestCode: EPA Method 300.0: Anions

LowLimit

90

Units: mg/L

HighLimit

110

%RPD

RPDLimit

Qual

RunNo: 19526

SeqNo: 565236

%REC

93.6

- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1406898 01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID b2 | SampTy | уре: МЕ | BLK | Tes | tCode: I | EPA Method | 8260B: VOL | ATILES | | |
|--------------------------------|-------------|---------|-----------|-------------|----------|------------|-------------|--------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9450 | F | RunNo: | 19450 | | | | |
| Prep Date: | Analysis Da | ate: 6/ | 23/2014 | 8 | SeqNo: | 562640 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | | | |
| 2-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | | | |
| 4-Chlorololuene | ND | 1.0 | | | | | | | | |
| cis-1,2-DCE | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | | | |

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID b2 | SampT | ype: MB | BLK | Tes | Code: El | PA Method | 8260B: VOL | ATILES | 1 | |
|-----------------------------|------------|-------------------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | 1 ID: R1 ! | 9450 | R | lunNo: 1 | 9450 | | | | |
| Prep Date: | Analysis D | ate: 6/2 | 23/2014 | - s | SeqNo: 5 | 62640 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachiorobutadiene | ND | 1.0 | | | | | | | | |
| 2-Hexanone | NĐ | 10 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ΝĐ | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | ND | 1.0 | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 8.8 | | 10.00 | | 88.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 102 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 11 | | 10.00 | | 109 | 70 | 130 | | | |
| Surr: Toluene-d8 | 11 | | 10.00 | | 105 | 70 | 130 | | | |

| Sample ID 100ng Ics2 | SampT | ype: LC | s | Tes | (Code: El | PA Method | 8260B: VOL | ATILES | | |
|----------------------|------------|---------------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: LCSW | Batch | ID: R1 | 9450 | F | lunNo: 1 | 9450 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 23/2014 | S | SeqNo: 5 | 62642 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 21 | 1.0 | 20.00 | 0 | 105 | 70 | 130 | | | |
| Toluene | 21 | 1.0 | 20.00 | 0 | 107 | 80 | 120 | | | |
| Chlorobenzene | 19 | 1.0 | 20.00 | 0 | 95.7 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 13 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898 *01-Jul-14*

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID 100ng lcs2 | SampT | ype: LC | S | Tes | tCode: El | PA Method | 8260B; VOL | ATILES | | |
|-----------------------------|------------|----------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: LCSW | Batch | ID: R1 | 9450 | F | RunNo: 1 | 9450 | | | | |
| Prep Date: | Analysis D | ate: 6/: | 23/2014 | 5 | SeqNo: 5 | 62642 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 18 | 1.0 | 20,00 | 0 | 90.3 | 82.6 | 131 | | | |
| Trichloroethene (TCE) | 19 | 1.0 | 20.00 | 0 | 95.6 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.1 | | 10.00 | | 91.2 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.4 | | 10.00 | | 94.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 10 | | 10.00 | | 101 | 70 | 130 | | | |
| Surr: Toluene-d8 | 11 | | 10.00 | | 106 | 70 | 130 | | | |

| Sample ID 5mL rb | SampT | уре: МЕ | BLK | Test | Code: El | PA Method | 8260B: VOL | ATILES | | |
|--------------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9511 | R | tunNo: 1 | 9511 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 25/2014 | S | eqNo: 5 | 64708 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | | | |
| 2-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | | | |
| 4-Chiorotoluene | ND | 1.0 | | | | | | | | |
| cis-1,2-DCE | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID 5mL rb | SampT | ype: MI | BLK | Tes | tCode: El | PA Method | 8260B: VOL | ATILES | | |
|-----------------------------|------------|------------------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | 1 ID: R 1 | 9511 | F | RunNo: 1 | 9511 | | | | |
| Prep Date: | Analysis D | ate: 6 | 25/2014 | 5 | SeqNo: 5 | 64708 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPOLimit | Qual |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | | | |
| 2-Hexanone | ND | 10 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | NĐ | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| • • | | | | | | | | | | |
| 1,1,2-Trichloroethane | ND ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | | | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | 48.00 | | | - | | | | |
| Sum 1,2-Dichloroethane-d4 | 9.8 | | 10.00 | | 98.0 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

| Sample ID 5mL rb | SampT | ype: Mi | BLK | Tes | tCode: E | PA Method | 8260B: VOL | ATILES | | |
|----------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | ID: R1 | 9511 | F | RunNo: 1 | 9511 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 25/2014 | s | SeqNo: 5 | 64708 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sum 4-Bromofluorobenzene | 10 | | 10.00 | | 99.9 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 10 | | 10.00 | | 102 | 70 | 130 | | | |
| Surr: Toluene-d8 | 10 | | 10.00 | | 102 | 70 | 130 | | | |

| Sample ID 100ng Ics | SampT | ype: LC | s | Tes | Code: El | PA Method | 8260B: VOL | ATILES | | |
|-----------------------------|------------|---------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: LCSW | Batch | iD: R1 | 9511 | F | lunNo: 1 | 9511 | | | | |
| Prep Date: | Analysis D | ate: 6/ | 25/2014 | 8 | SeqNo: 5 | 64710 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 20 | 1.0 | 20.00 | 0 | 100 | 70 | 130 | | | |
| Toluene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Chlorobenzene | 21 | 1.0 | 20.00 | 0 | 103 | 70 | 130 | | | |
| 1,1-Dichloroethene | 22 | 1.0 | 20.00 | 0 | 109 | 82.6 | 131 | | | |
| Trichloroethene (TCE) | 18 | 1.0 | 20.00 | 0 | 89.9 | 70 | 130 | | | |
| Surr. 1,2-Dichloroethane-d4 | 9.5 | | 10.00 | | 94.8 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 104 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.4 | | 10.00 | | 94.4 | 70 | 130 | | | |
| Sum Toluene-d8 | 10 | | 10.00 | | 102 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

SampType: DUP

TestCode: SM2510B: Specific Conductance

Client ID:

Sample ID 1406898-001b dup Influent

Batch ID: R19484 Analysis Date: 6/23/2014 RunNo: 19484

SeqNo: 563974

Units: µmhos/cm

HighLimit

Analyte

Result

SPK value SPK Ref Val

%REC LowLimit

%RPD

RPDLimit Qual

Conductivity

PQL

0.135

20

Prep Date:

3000 0.010

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

RL Reporting Detection Limit Page 17 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898 01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

Sample ID 1406898-001b dup

Prep Date:

SampType: DUP

TestCode: SM4500-H+B: pH

LowLimit

Client ID: Influent

Batch ID: R19484

PQL

RunNo: 19484

Analysis Date: 6/23/2014

SeqNo: 563991

SPK value SPK Ref Val %REC

Units: pH units

HighLimit

%RPD **RPDLimit** Qual

Analyte

Result

Н

рΗ

7.15 1.68

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded Η

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

Reporting Detection Limit

Page 18 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#:

1406898

01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

Sample ID mb-1

SampType: MBLK

TestCode: SM2320B: Alkalinity

Client ID: PBW Batch ID: R19484

RunNo: 19484

Units: mg/L CaCO3

Prep Date:

Analysis Date: 6/23/2014

SeqNo: 563920

Analyte

Result

ND

PQL

SPK value SPK Ref Val %REC LowLimit HighLimit %RPD

Qual

Total Alkalinity (as CaCO3)

20

SampType: LCS

TestCode: SM2320B: Alkalinity

RPDLimit

Sample ID Ics-1

Client ID: LCSW

RunNo: 19484

Prep Date:

Batch ID: R19484 Analysis Date: 6/23/2014

PQL

SeqNo: 563921

Units: mg/L CaCO3

110

Analyte Total Alkalinity (as CaCO3)

Sample ID mb-2

Client ID: PBW

79 20 80.00

SPK value SPK Ref Val %REC LowLimit 98.7

90

HighLimit %RPD **RPDLimit**

Qual

SampType: MBLK Batch ID: R19484 TestCode: SM2320B: Alkalinity

RunNo: 19484

Units: mg/L CaCO3

Prep Date:

Analysis Date: 6/23/2014

SeqNo: 563943

HighLimit

Analyte

Result ND SPK value SPK Ref Val %REC LowLimit

%RPD **RPDLimit** Qual

Total Alkalinity (as CaCO3) Sample ID Ics-2

LCSW

SampType: LCS Batch ID: R19484

20

TestCode: SM2320B: Alkalinity RunNo: 19484

110

Prep Date:

Client ID:

Analysis Date: 6/23/2014

SeqNo: 563944

Units: mg/L CaCO3

Analyte Total Alkalinity (as CaCO3) Result POL

80

80.00

SPK value SPK Ref Val

%REC LowLimit

100

HighLimit 90

%RPD

RPDLimit

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits В Analyte detected in the associated Method Blank

Holding times for preparation or analysis exceeded

ND

Sample pH greater than 2. Reporting Detection Limit

Not Detected at the Reporting Limit Page 19 of 20

Hall Environmental Analysis Laboratory, Inc.

WO#: 1406898 01-Jul-14

Client:

Western Refining Southwest, Inc.

Project:

GBR

Sample ID MB-13839

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW** Batch ID: 13839

RunNo: 19474

Prep Date: 6/23/2014

Analysis Date: 6/24/2014

SeqNo: 563504

Units: mg/L

Analyte

Result PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

%RPD **RPDLimit**

Total Dissolved Solids

ND

SampType: LCS

20.0

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

LCSW

Batch ID: 13839

RunNo: 19474

Prep Date: 6/23/2014

Sample ID LCS-13839

Analysis Date: 6/24/2014

SeqNo: 563505

Units: mg/L **HighLimit**

%RPD

SPK value SPK Ref Val %REC LowLimit PQL

1000

101

RPDLimit

Total Dissolved Solids

Result 1010

20.0

120

Qual

Qual

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Е Value above quantitation range
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit ND
- Sample pH greater than 2.
- RL Reporting Detection Limit

Page 20 of 20



4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

Western Refining Southw Work Order Number: 1406898 RcptNo: 1 Client Name: Received by/date: Michelle Garcia 6/19/2014 7:15:00 AM Logged By: 6/19/2014 8:33:04 AM Completed By: Michelle Garcia Reviewed By: Chain of Custody No 🗆 Not Present Yes 🔲 1. Custody seals intact on sample bottles? No 🗆 Yes 🗸 Not Present 2. Is Chain of Custody complete? 3. How was the sample delivered? Courier <u>Log In</u> No 🗆 NA 🗌 Yes 🗸 4. Was an attempt made to cool the samples? Yes 🔽 No 🗆 NA 🗌 5. Were all samples received at a temperature of >0° C to 6.0°C No 🗀 Yes 🗹 6. Sample(s) In proper container(s)? No 🔲 Yes 🔽 7. Sufficient sample volume for indicated test(s)? No 🗆 Yes 🛂 8. Are samples (except VOA and ONG) properly preserved? NA 🗆 Yes 🔲 No 🔽 9. Was preservative added to bottles? No VOA Vials Yes 🔽 No 🗆 10.VOA vials have zero headspace? Yes 🗆 No 🔽 11. Were any sample containers received broken? # of preserved bottles checked Yes 🔽 No 🗌 for pH: 12. Does paperwork match bottle labels? (<2 dr >12 unless noted) (Note discrepancies on chain of custody) Adjusted? ND No 🗆 Yes 🔽 13. Are matrices correctly identified on Chain of Custody? No 🗆 Yes 🔽 14. Is it clear what analyses were requested? Checked by: QSYes V No 🔲 15. Were all holding times able to be met? (If no, notify customer for authorization.) Special Handling (if applicable) Yes 🗌 No 🗆 NA 🔽 16. Was client notified of all discrepancies with this order? Person Notified: Date: By Whom: Via: 🔲 eMail 🔛 Phone 🔲 Fax 🔃 In Person Regarding: Client Instructions: 17. Additional remarks; 18. Cooler Information Cooler No | Temp C | Condition | Seal Intact | Seal No Seal Date Signed By Good Yes

| | ANALYSIS LABORATORY | www hallenvironmental com | 4901 Hawkins NE - Albuqueroue. NM 87109 | | lel. 505-345-3975 Fax 505-345-4107 Analysis Request | (%) | Gas on | 7PH ((), (1), (1), (1), (1), (2), (2), (2), (2), (2), (3), (3), (4), (5), (5), (6), (6), (6), (6), (6), (6), (6), (6 | 9E + 1680 1418 1418 1400 1 | BTEX + MTE | | XXXX | × | | | | | Remarks: Did not ri Please copy results to | aggere Henv.com | This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report. |
|---|-------------------------|---------------------------|---|------------|--|-----------------|--|--|--|---|--------------------------|----------------------------|--------------|----------------------|---|--|--|---|-------------------------|--|
| | X Standard □ Rush | Project Name: | GOE | Project #: | WEIDDG | Project Manager | Devin Hencmann | Broke # | Samole Temperature | Container Preservative Free HEAL No. Type and # Type | Various/8 H3Say - 001 | Various/8 H13Sq. / HCd COZ | | 59 | | | | Extrapolation 6/8/14/542 | 100/ | offor accredited laboratories. |
| _ | Client Wastern Refinion | (Palley, Populagon | Mailing Address: 011 C. 4990 | | Phone # 505 - 801 - 576 (e) | ax#. Vol61.0 | QA/OC Package: U Level 4 (Full Validation) | n Other | ype) | Matrix | 6/18/14 1420 AQ Influent | WISH HUB AG EFFILMENT | A Trip Blank | Try Black My delight | 8 | | | VIV IN 15 UD Selinquishechby: | 418/14 1830 Mart. LAULE | in nacessary, samples submitted to Half Environmental may be subcontracted to |

```
VOCs 8260
General Chemistry:
      pН
      EC
      TDS
    alkalinity
    hardness
     anions
         bromide
          chloride
           sulfate
          fluoride
      nitrate/nitrite
                    PO4 1 06 119114
      - phosporus -
     cations
         calcium
             iron
       magnesium
       manganese
        potassium
```

sodium

II R

25

275 (100)



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 10, 2014

Ashley Ager
Western Refining Southwest, Inc.
#50 CR 4990

Bloomfield, NM 87413 TEL: (970) 946-1093

FAX

RE: GBR Annual Sampling OrderNo.: 1411545

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 9 sample(s) on 11/14/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andyl

4901 Hawkins NE

Albuquerque, NM 87109

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

roject: GBR Annual Sampling

Lab ID: 1411545-001

Client Sample ID: SHS-8

Collection Date: 11/12/2014 12:55:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-------|------|----------------|-----|----------------------|-----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analy | /st: LGP |
| Fluoride | 1.5 | 0,50 | | mg/L | 5 | 11/14/2014 10:42:42 | AM R22558 |
| Chloride | 110 | 10 | | mg/L | 20 | 11/14/2014 10:55:06 | AM R22558 |
| Nitrogen, Nitrite (As N) | ND | 0.50 | | mg/L | 5 | 11/14/2014 10:42:42 | AM R22558 |
| Bromide | 0.71 | 0.50 | | mg/L | 5 | 11/14/2014 10:42:42 | AM R22558 |
| Nitrogen, Nitrate (As N) | ND | 0.50 | | mg/L | 5 | 11/14/2014 10:42:42 | AM R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 2.5 | | mg/L | 5 | 11/14/2014 10:42:42 | AM R22558 |
| Sulfate | 350 | 10 | • | mg/L | 20 | 11/14/2014 10:55:06 | AM R22558 |
| EPA METHOD 200.7: METALS | | | | | | Analy | st: JLF |
| Calcium | 210 | 5,0 | | mg/L | 5 | 11/20/2014 5:07:10 F | PM 16487 |
| Iron | 260 | 10 | • | mg/L | 500 | 11/21/2014 4:33:51 F | PM 16487 |
| Magnesium | 42 | 1.0 | | mg/L | 1 | 11/20/2014 5:05:22 F | PM 16487 |
| Manganese | 5.0 | 0.010 | * | mg/L | 5 | 11/20/2014 5:07:10 F | PM 16487 |
| Potassium | 14 | 1.0 | | mg/L | 1 | 11/20/2014 5:05:22 F | PM 16487 |
| Sodium | 430 | 5.0 | | mg/L | 5 | 11/21/2014 4:32:01 F | PM 16487 |
| SM2340B: HARDNESS | | | | | | Analy | st: JLF |
| Hardness (As CaCO3) | 700 | 6.6 | | mg/L | 1 | 11/20/2014 2:52:00 F | PM R22687 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | st: KJH |
| Benzene | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Toluene | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Ethylbenzene | 2.8 | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Methyl tert-butyl ether (MTBE) | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | | µg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 1,3,5-Trimethylbenzene | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 1,2-Dichloroethane (EDC) | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | | µg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Naphthalene | ND | 4.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 1-Methylnaphthalene | ND | 8.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 2-Methylnaphthalene | ND | 8.0 | | μ g/ ί. | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Acetone | ND | 20 | | μg/L | 2 | 11/14/2014 11:49;53 | PM R22565 |
| Bromobenzene | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Bromodichloromethane | ND | 2.0 | | µg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Bromoform | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Bromomethane | ND | 6.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| 2-Butanone | ND | 20 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Carbon disulfide | ND | 20 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Carbon Tetrachloride | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Chlorobenzene | ND | 2.0 | | µg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |
| Chloroethane | ND | 4.0 | | μg/L | 2 | 11/14/2014 11:49:53 | PM R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 1 of 43

- P Sample pH greater than 2:
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample 1D: SHS-8

Project: GBR Annual Sampling

Collection Date: 11/12/2014 12:55:00 PM

Lab ID: 1411545-001

Matrix: AQUEOUS

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|----------|----|---------------------|----------|
| EPA METHOD 8260B: VOLATILES | | | | | Analy | st KJH |
| Chloroform | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Chloromethane | ND | 6.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 2-Chlorotoluene | ND | 2.0 | µg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 4-Chlorotoluene | ND | 2.0 | µg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| cis-1,2-DCE | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| cis-1,3-Dichloropropene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Dibromochloromethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Dibromomethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,2-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,3-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,4-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Dichlorodifluoromethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1-Dichloroethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1-Dichloroethene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,2-Dichloropropane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,3-Dichloropropane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 2,2-Dichloropropane | ND | 4.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1-Dichloropropene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Hexachlorobutadiene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 2-Hexanone | ND | 20 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Isopropylbenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 4-Isopropyitoluene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 4-Methyl-2-pentanone | ND | 20 | µg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Methylene Chloride | ND | 6.0 | µg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| n-Butylbenzene | ND | 6.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| n-Propylbenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| sec-Bulyibenzene | ND | 2,0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Styrene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| tert-Butylbenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1,1,2-Tetrachloroethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1,2,2-Tetrachloroethane | ND | 4.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| Tetrachloroethene (PCE) | ND | 2.0 | µg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| trans-1,2-DCE | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| trans-1,3-Dichloropropene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,2,3-Trichlorobenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,2,4-Trichlorobenzene | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1,1,1-Trichloroethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |
| 1.1.2-Trichloroethane | ND | 2.0 | μg/L | 2 | 11/14/2014 11:49:53 | PM R2256 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 43

- P Sample pH greater than 2,
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-001

Client Sample ID: SHS-8

Collection Date: 11/12/2014 12:55:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|------------|----|-----------------------|----------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analys | t: KJH |
| Trichloroethene (TCE) | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 F | M R22565 |
| Trichlorofluoromethane | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 F | M R22565 |
| 1,2,3-Trichloropropane | ND | 4.0 | | μg/L | 2 | 11/14/2014 11:49:53 F | M R22565 |
| Vinyl chloride | ND | 2.0 | | μg/L | 2 | 11/14/2014 11:49:53 F | M R22565 |
| Xylenes, Total | ND | 3.0 | | μg/L | 2 | 11/14/2014 11:49:53 P | M R22565 |
| Surr: 1,2-Dichloroethane-d4 | 93.4 | 70-130 | | %REC | 2 | 11/14/2014 11:49:53 P | M R22565 |
| Surr: 4-Bromofluorobenzene | 96.7 | 70-130 | | %REC | 2 | 11/14/2014 11:49:53 F | M R22565 |
| Surr: Dibromofluoromethane | 93.6 | 70-130 | | %REC | 2 | 11/14/2014 11:49:53 F | M R22565 |
| Surr: Toluene-d8 | 97.9 | 70-130 | | %REC | 2 | 11/14/2014 11:49:53 F | M R22565 |
| SM2510B: SPECIFIC CONDUCTANCE | E | | | | | Analys | t: JRR |
| Conductivity | 1900 | 0.010 | | µmhos/cm | 1 | 11/20/2014 1:20:04 PM | 1 R22708 |
| SM4500-H+B: PH | | | | | | Analys | t: JRR |
| рН | 7.12 | 1.68 | Н | pH units | 1 | 11/20/2014 1:20:04 PM | 1 R22708 |
| SM2320B: ALKALINITY | | | | | | Analys | t: JRR |
| Bicarbonate (As CaCO3) | 760 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 1:20:04 PM | 1 R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 1:20:04 PM | 1 R22708 |
| Total Alkalinity (as CaCO3) | 760 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 1:20:04 PM | 1 R22708 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | | Analys | t KS |
| Total Dissolved Solids | 1400 | 200 | • | mg/L | 1 | 11/19/2014 7:01:00 PM | 1 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 43

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported; 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-51

Project: GBR Annual Sampling

Collection Date: 11/12/2014 2:27:00 PM

Lab ID: 1411545-002

Matrix: AQUEOUS

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|--------|------|-------|----|----------------------|-----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analy | st: LGP |
| Fluoride | 0.60 | 0.10 | | mg/L | 1 | 11/14/2014 11:07:31 | AM R22558 |
| Chloride | 54 | 10 | | mg/L | 20 | 11/14/2014 11:19:56 | AM R22558 |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | mg/L | 1 | 11/14/2014 11:07:31 | AM R22558 |
| Bromide | 0.24 | 0.10 | | mg/L | 1 | 11/14/2014 11:07:31 | AM R22558 |
| Nitrogen, Nitrate (As N) | 8.0 | 0.10 | | mg/L | 1 | 11/14/2014 11:07:31 | AM R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | | mg/L | 20 | 11/14/2014 11:19:56 | AM R2255 |
| Sulfate | 1400 | 25 | • | mg/L | 50 | 11/26/2014 7:59:53 P | M R22848 |
| EPA METHOD 200.7: METALS | | | | | | Analy | st: JLF |
| Calcium | 380 | 5.0 | | mg/L | 5 | 11/20/2014 5:10:42 P | M 16464 |
| Iron | 16 | 1.0 | * | mg/L | 50 | 11/20/2014 5:12:31 P | M 16464 |
| Magnesium | 32 | 1.0 | | mg/L | 1 | 11/20/2014 12:45:15 | PM 16464 |
| Manganese | 0.47 | 0.0020 | • | mg/L | 1 | 11/20/2014 5:09:02 P | M 16464 |
| Potassium | 3.8 | 1.0 | | mg/L | 1 | 11/20/2014 12:45:15 | PM 16464 |
| Sodium | 290 | 5.0 | | mg/L | 5 | 11/21/2014 4:35:53 P | M 16464 |
| SM2340B: HARDNESS | | | | | | Analy | st: JLF |
| Hardness (As CaCO3) | 1100 | 6.6 | | mg/L | 1 | 11/20/2014 2:52:00 P | M R2268 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | st: KJH |
| Benzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Toluene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256! |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Acetone | ND | 10 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Bromobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Bromodichloromethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Bromoform | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Bromomethane | ND | 3.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 2-Butanone | ND | 10 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Carbon disulfide | ND | 10 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| Chloroethane | ND | 2.0 | | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 43

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-002

Client Sample ID: GBR-51

Collection Date: 11/12/2014 2:27:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-----|----------------|----|---------------------|-----------|
| EPA METHOD 8260B: VOLATILES | | | | | Anal | yst: KJH |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 4-Chiorotoluene | ND | 1.0 | µg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Dichlorodifluoromethane | NĐ | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 4-Methyl-2-pentanone | ND | 10 | μg/Ľ | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| Styrene | ND | 1.0 | μ ց/ Լ. | 1 | 11/15/2014 12:19:39 | AM R2256 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19;39 | AM R22565 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R2256 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:19:39 | AM R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 5 of 43

- P Sample pH greater than 2
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-51

Project: GBR Annual Sampling

Collection Date: 11/12/2014 2:27:00 PM

Lab ID: 1411545-002

Received Date: 11/14/2014 7:10:00 AM

| EPA METHOD 8260B: VOLATILES Trichloroethene (TCE) Trichlorofluoromethane 1,2,3-Trichloropropane Vinyl chloride | ND 3.5 ND ND ND | 1.0 1.0 2.0 1.0 | | μg/L μg/L μg/L | 1 1 1 | Analyst: 11/15/2014 12:19:39 AM 11/15/2014 12:19:39 AM | 1 R22565 |
|--|-----------------------------|--------------------------|---|----------------------|-------|--|----------|
| Trichlorofluoromethane 1,2,3-Trichloropropane | 3.5 ND ND | 1.0 2.0 1.0 | | μg/L | 1 | 11/15/2014 12:19:39 AM | |
| 1,2,3-Trichloropropane | ND ND | 2.0 1.0 | | 200 | • | | 1 R22565 |
| • • | ND | 1.0 | | μg/L | 1 | | |
| Vinyl chloride | · | | | | | 11/15/2014 12:19:39 AM | R22565 |
| | ND | | | µg/L | 1 | 11/15/2014 12:19:39 AM | R22565 |
| Xylenes, Total | | 1.5 | | µg/L | 1 | 11/15/2014 12:19:39 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 | 92.3 | 70-130 | | %REC | 1 | 11/15/2014 12:19:39 AM | R22565 |
| Surr: 4-Bromofluorobenzene | 99.6 | 70-130 | | %REC | 1 | 11/15/2014 12:19:39 AM | R22565 |
| Surr: Dibromofluoromethane | 95.6 | 70-130 | | %REC | 1 | 11/15/2014 12:19:39 AM | I R22565 |
| Surr: Toluene-d8 | 99.3 | 70-130 | | %REC | 1 | 11/15/2014 12:19:39 AM | I R22565 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst: | JRR |
| Conductivity | 2300 | 0.010 | | µmhos/cm | 1 | 11/20/2014 1:49:28 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst: | JRR |
| pH | 7,38 | 1.68 | Н | pH units | 1 | 11/20/2014 1:49:28 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 1:49:28 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 1:49:28 PM | R22708 |
| Total Alkalinity (as CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 1:49:28 PM | R22708 |
| SM2540C MOD: TOTAL DISSOLVED SC | DLIDS | | | | | Analyst: | KS |
| Total Dissolved Solids | 2320 | 100 | • | mg/L | 1 | 11/19/2014 7:01:00 PM | 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-003

Client Sample ID: GBR-52

Collection Date: 11/12/2014 3:45:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|--------|------|-------|----|-----------------------|-----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analy | st: LGP |
| Fluoride | 0.92 | 0.50 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R22558 |
| Chloride | 65 | 2.5 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R22558 |
| Nitrogen, Nitrite (As N) | ΝĐ | 0.50 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R22558 |
| Bromide | ND | 0.50 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R2255 |
| Nitrogen, Nitrate (As N) | 5.9 | 0.50 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R2255 |
| Phosphorus, Orthophosphate (As P) | ND | 2.5 | | mg/L | 5 | 11/14/2014 11:32:19 | AM R2255 |
| Sulfate | 1700 | 25 | • | mg/L | 50 | 11/26/2014 8:12:17 P | M R2284 |
| EPA METHOD 200.7: METALS | | | | | | Analy: | st: JLF |
| Calcium | 450 | 5.0 | | mg/L | 5 | 11/20/2014 5:19:36 P | M 16464 |
| Iron | 12 | 1.0 | * | mg/L | 50 | 11/20/2014 5:32:27 P | M 16464 |
| Magnesium | 38 | 1.0 | | mg/L | 1 | 11/20/2014 12:46:53 | PM 16464 |
| Manganese | 0.25 | 0.0020 | • | mg/L | 1 | 11/20/2014 5:14:32 P | M 16464 |
| Potassium | 4.1 | 1.0 | | mg/L | 1 | 11/20/2014 12:46:53 [| PM 16464 |
| Sodium | 310 | 5.0 | | mg/L | 5 | 11/24/2014 11:25:55 / | AM 16464 |
| SM2340B: HARDNESS | | | | | | Analys | st: JLF |
| Hardness (As CaCO3) | 1300 | 6.6 | | mg/L | 1 | 11/20/2014 2:52:00 P | M R22687 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analys | st: KJH |
| Benzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Toluene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R2256 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R2256 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R2256 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| 1,2-Dibromoethane (EDB) | NĐ | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Naphthalene | ND | 2.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Acetone | ND | 10 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Bromobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Bromodichioromethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Bromoform | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Bromomethane | ND | 3.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| 2-Butanone | ND | 10 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Carbon disulfide | ND | 10 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R2256 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 / | AM R22565 |
| Chloroethane | NĐ | 2.0 | | μg/L_ | 1 | 11/15/2014 12:49:23 / | AM R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-52

Project: GBR Annual Sampling

Collection Date: 11/12/2014 3:45:00 PM

Lab ID: 1411545-003

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|----------|----|---------------------|----------|
| EPA METHOD 8260B: VOLATILES | | | | | Analy | /st: KJH |
| Chloroform | ND | 1.0 | µg/L | 1. | 11/15/2014 12:49:23 | AM R2256 |
| Chloromethane | ND | 3.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1-Dichloropropene | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 2-Hexanone | ND | 10 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| sec-Butylbenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Styrene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| Tetrachloroethene (PCE) | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| trans-1,2-DCE | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1,1-Trichloroethane | ND | 1.0 | µg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 12:49:23 | AM R2256 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-003

Client Sample ID: GBR-52

Collection Date: 11/12/2014 3:45:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual (| Units | DF | Date Analyzed | Batch |
|------------------------------|--------|--------|--------|------------|----|----------------------|-----------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | st: KJH |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Trichlorofluoromethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 12:49:23 | AM R22565 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Vinyl chloride | ND | 1.0 | | μg/ኒ | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Surr. 1,2-Dichloroethane-d4 | 96.1 | 70-130 | | %REC | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Surr. 4-Bromoftuorobenzene | 99.2 | 70-130 | | %REC | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Surr; Dibromofluoromethane | 98.3 | 70-130 | | %REC | 1 | 11/15/2014 12:49:23 | AM R22565 |
| Surr: Toluene-d8 | 95.8 | 70-130 | | %REC | 1 | 11/15/2014 12:49:23 | AM R22565 |
| SM2510B: SPECIFIC CONDUCTANO | E | | | | | Analy | st: JRR |
| Conductivity | 2500 | 0.010 | | µmhos/cm | 1 | 11/20/2014 2:01:31 P | M R22708 |
| SM4500-H+B: PH | | | | | | Analys | st: JRR |
| рН | 7.49 | 1.68 | Н | pH units | 1 | 11/20/2014 2:01:31 P | M R22708 |
| SM2320B: ALKALINITY | | | | | | Analys | st: JRR |
| Bicarbonate (As CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:01:31 P | M R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 2:01:31 P | M R22708 |
| Total Alkalinity (as CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:01:31 P | M R22708 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | | Analys | st: KS |
| Total Dissolved Solids | 2540 | 100 | * 8 | mg/L | 1 | 11/19/2014 7:01:00 P | M 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-48

Project: GBR Annual Sampling

Collection Date: 11/13/2014 9:39:00 AM

Lab ID: 1411545-004

Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|---------|------|-------|-----|----------------------|-----------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analy | /st: LGP |
| Fluoride | 0.52 | 0.50 | | mg/L | 5 | 11/14/2014 11:56:55 | PM R22558 |
| Chloride | 420 | 50 | • | mg/L | 100 | 11/26/2014 8:24:41 F | PM R22848 |
| Bromide | 1.3 | 0.50 | | mg/L | 5 | 11/14/2014 11:56:55 | PM R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | | mg/L | 20 | 11/15/2014 12:09:20 | AM R2255 |
| Sulfate | 2100 | 50 | • | mg/L | 100 | 11/26/2014 8:24:41 F | PM R22848 |
| Nitrate+Nitrite as N | 5,7 | 1.0 | | mg/L | 5 | 12/1/2014 10:29:51 F | PM R2287 |
| EPA METHOD 200.7: METALS | | | | | | Analy | /st: JLF |
| Barium | 0.40 | 0.0020 | | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Beryllium | 0.0036 | 0.0020 | | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Cadmium | ND | 0.0020 | | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Calcium | 630 | 10 | | mg/L | 10 | 11/20/2014 5:36:31 F | PM 16464 |
| Chromium | 0.92 | 0.0060 | • | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Iron | 52 | 2.0 | • | mg/L | 100 | 11/20/2014 5:38:16 F | PM 16464 |
| Magnesium | 63 | 1.0 | | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Manganese | 2.0 | 0.020 | * | mg/L | 10 | 11/20/2014 5:36:31 F | PM 16464 |
| Nickel | 0.20 | 0.010 | • | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Potassium | 12 | 1.0 | | mg/L | 1 | 11/20/2014 12:51:57 | PM 16464 |
| Silver | ND | 0.0050 | | mg/L | 1 | 11/20/2014 12:51:57 | 1 13 |
| Sodium | 730 | 10 | | mg/L | 10 | 11/20/2014 5:36:31 F | |
| Zinc | 0.10 | 0.010 | | mg/L | 1 | 11/20/2014 5:34:38 F | PM 16464 |
| EPA 200.8: METALS | | | | | | Analy | st: DBD |
| Antimony | ND | 0.0010 | | mg/L | 1 | 11/26/2014 12:06:37 | PM 16464 |
| Arsenic | 0.010 | 0.010 | * | mg/L | 10 | 11/20/2014 1:08:47 F | PM 16464 |
| Lead | 0.031 | 0.0010 | * | mg/L | 1 | 11/20/2014 11:51:52 | AM 16464 |
| Copper | 0.064 | 0.010 | | mg/L | 10 | 11/20/2014 1:08:47 F | PM 16464 |
| Selenium | 0.047 | 0.010 | | mg/L | 10 | 11/20/2014 1:08:47 F | PM 16464 |
| Thallium | ND | 0.0010 | | mg/L | 1 | 11/20/2014 11:51:52 | AM 16464 |
| EPA METHOD 245.1: MERCURY | | | | | | Analy | /st: MMD |
| Mercury | ND | 0.00020 | | mg/L | 1 | 11/25/2014 9:25:18 / | AM 16546 |
| SM2340B: HARDNESS | | | | | | Analy | /st: JLF |
| Hardness (As CaCO3) | 1800 | 6.6 | | mg/L | 1 | 11/20/2014 2:52:00 F | PM R2268 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | /st: KJH |
| Benzene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 / | AM R2256 |
| Toluene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 | AM R2256 |
| Ethylbenzene | NĐ | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 / | AM R2256 |
| Methyl tert-butyl ether (MTBE) | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 / | AM R2256 |
| 1,2,4-Trimethylbenzene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 / | AM R22565 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 10 of 43

- P Sample pH greater than 2
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411545-004

Project:

Client Sample ID: GBR-48

Collection Date: 11/13/2014 9:39:00 AM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|----------|-----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | s | | | 155 | Analyst: | КЈН |
| 1,3,5-Trimethylbenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2-Dichloroethane (EDC) | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2-Dibromoethane (EDB) | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Naphthalene | ND | 4.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1-Methylnaphthalene | ND | 8.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 2-Methylnaphthalene | ND | 8.0 | μg/Ľ | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Acetone | ND | 20 | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Bromobenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Bromodichloromethane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Bromoform | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Bromomethane | ND | 6.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 2-Butanone | ND | 20 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Carbon disulfide | ND | 20 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Carbon Tetrachloride | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Chlorobenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Chloroethane | ND | 4.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Chloroform | ND | 2.0 | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Chloromethane | ND | 6.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 2-Chlorotoluene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 4-Chlorotoluene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| cis-1,2-DCE | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| cis-1,3-Dichloropropene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2-Dibromo-3-chloropropane | ND | 4.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Dibromochloromethane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Dibromomethane | NĐ | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,3-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,4-Dichlorobenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Dichlorodifluoromethane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1-Dichloroethane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1-Dichloroethene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2-Dichloropropane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,3-Dichloropropane | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 2,2-Dichloropropane | ND | 4.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1-Dichloropropene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Hexachlorobutadiene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 2-Hexanone | ND | 20 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Isopropylbenzene | ND | 2.0 | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 4-Isopropyltoluene | ND | 2.0 | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-48

Project: GBR Annual Sampling

Collection Date: 11/13/2014 9:39:00 AM

Lab ID: 1411545-004

Received Date: 11/14/2014 7:10:00 AM

| | Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--|---------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| Melhylene Chloride ND 6.0 µg/L 2 11/15/2014 1:19:07 AM R22565 n-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 sec-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 sec-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Styrene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Styrene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 2-Tetrachloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 2-Titchlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2, 3-Titchlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1, 1-Titchloroethane ND 2. | EPA METHOD 8260B: VOLATILES | | | | | | Analyst | КЈН |
| Description | 4-Methyl-2-pentanone | ND | 20 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| n-Propylbenzene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 sec-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 Styrene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 Styrene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 ptert-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 ptert-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 ptert-Butylbenzene ND 2.0 µg/L 2 11/15/2014 1:19.07 AM R22565 ptert-Butylbenzene ND 4.0 µg/L 2 11/15/2014 1:19.07 AM R22565 ptert-Butylbenzene ND 2.0 ptert-Butylbenzene ND 2.0 ptert-Butylbenzene ND 2.0 ptert-Butyl | Methylene Chloride | ND | 6.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Sec-Butylbenzene | n-Butylbenzene | ND | 6.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Styrene | n-Propylbenzene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| tert-Bulylbenzene | sec-Butylbenzene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | Styrene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | tert-Butylbenzene | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Tetrachloroethene (PCE) ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 trans-1,2-DCE ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 trans-1,3-Dichloropropene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 trans-1,3-Dichloropropene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,1-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropthane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropthane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloroptopane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloroptopane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloroptopane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d9 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroe | 1,1,1,2-Tetrachloroethane | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| trans-1,2-DCE ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 trans-1,3-Dichloropropene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,3-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,4-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,4-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1,1,1-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1,1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,3-Trichloropropane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1.2,3-Trichloroethane-d4 ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Totuene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Totuene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE | 1,1,2,2-Tetrachloroethane | ND | 4.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| trans-1,3-Dichloropropene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,4-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,4-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,1-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 NJ 1,2,3-Trichloroethane-d9 ND 1,2 NJ | Tetrachloroethene (PCE) | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2,3-Trichlorobenzene | trans-1,2-DCE | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2,4-Trichlorobenzene ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,1-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,2-Trichloroethane (TCE) ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloroptopane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Vinyl chloride ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Conductivity 4100 0.010 µmhos/cm 1 11/20/2014 2:12:26 PM R22705 SM2520B: ALKALINITY Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 Carbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 Carbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 SM2540C MOD: TOTAL DISSOLVED SOLIDS | trans-1,3-Dichloropropene | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1,1-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,1,2-Trichloroethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichloroethane (TCE) ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichloroethane (TCE) ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropthane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97:7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 2-Bromofluorobenzene 93:2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 1-Bromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Conductivity 4100 0.010 µmhos/cm 1 11/20/2014 2:12:26 PM R22705 SM4500-H+B: PH pH 7:33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22705 SM2320B: ALKALINITY Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 Carbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 SM2540C MOD: TOTAL DISSOLVED SOLIDS SM2540C MOD: TOTAL DISSOLVED SOLIDS | 1,2,3-Trichlorobenzene | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,1,2-Trichloroethane | 1,2,4-Trichlorobenzene | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Trichloroethene (TCE) ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Vinyl chloride ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE FORMASSINE NAME NAME NAME NAME NAME NAME NAME NA | 1,1,1-Trichloroethane | ND | 2,0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Trichlorofluoromethane ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 1,2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Vinyl chloride ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Sm2510B: SPECIFIC CONDUCTANCE Fanalyst: JRR Conductivity 4100 0.010 µmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY An | 1,1,2-Trichloroethane | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| 1,2,3-Trichloropropane ND 4.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Vinyl chloride ND 2.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 µg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Conductivity 4100 0.010 µmhos/cm 1 11/20/2014 2:12:26 PM R22705 SM4500-H+B: PH pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22705 SM2320B: ALKALINITY Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 Carbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 SM2540C MOD: TOTAL DISSOLVED SOLIDS SM2540C MOD: TOTAL DISSOLVED SOLIDS | Trichloroethene (TCE) | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Vinyl chloride ND 2.0 μg/L 2 11/15/2014 1:19:07 AM R22565 Xylenes, Total ND 3.0 μg/L 2 11/15/2014 1:19:07 AM R22565 Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 4100 0.010 μmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH Analyst: JRR pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) 290 20 | Trichlorofluoromethane | ND | 2.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Xylenes, Total ND 3.0 | 1,2,3-Trichloropropane | ND | 4.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 97.7 70-130 %REC 2 11/15/2014 1:19:07 AM R22568 Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22568 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22568 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22568 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 4100 0.010 µmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH Analyst: JRR pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 | Vinyl chloride | ND | 2.0 | | μg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Surr: 4-Bromofluorobenzene 93.2 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 4100 0.010 μmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH Analyst: JRR pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Xylenes, Total | ND | 3.0 | | µg/L | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Surr: Dibromofluoromethane 100 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 Surr: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 4100 0.010 μmhos/cm 1 11/20/2014 2:12:26 PM R22705 SM4500-H+B: PH Analyst: JRR pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22705 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22705 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Surr: 1,2-Dichloroethane-d4 | 97.7 | 70-130 | | %REC | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Sum: Toluene-d8 101 70-130 %REC 2 11/15/2014 1:19:07 AM R22565 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 4100 0.010 μmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH PH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Surr: 4-Bromofluorobenzene | 93.2 | 70-130 | | %REC | 2 | 11/15/2014 1:19:07 AM | R22565 |
| SM2510B: SPECIFIC CONDUCTANCE Conductivity 4100 0.010 pmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) Analyst: KS | Surr: Dibromofluoromethane | 100 | 70-130 | | %REC | 2 | 11/15/2014 1:19:07 AM | R22565 |
| Conductivity 4100 0.010 μmhos/cm 1 11/20/2014 2:12:26 PM R22708 SM4500-H+B: PH PH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Surr: Toluene-d8 | 101 | 70-130 | | %REC | 2 | 11/15/2014 1:19:07 AM | R22565 |
| SM4500-H+B: PH Analyst: JRR pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS | SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | : JRR |
| pH 7.33 1.68 H pH units 1 11/20/2014 2:12:26 PM R22708 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Conductivity | 4100 | 0.010 | | µmhos/cm | 1 | 11/20/2014 2:12:26 PM | R22708 |
| SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS | SM4500-H+B: PH | | | | | | Analyst | : JRR |
| Bicarbonate (As CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | pH | 7.33 | 1.68 | Н | pH units | 1 | 11/20/2014 2:12:26 PM | R22708 |
| Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | Bicarbonate (As CaCO3) | 290 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:12:26 PM | R22708 |
| Total Alkalinity (as CaCO3) 290 20 mg/L CaCO3 1 11/20/2014 2:12:26 PM R22708 SM2540C MOD: TOTAL DISSOLVED SOLIDS Analyst: KS | | ND | 2.0 | | • | 1 | 11/20/2014 2:12:26 PM | R22708 |
| • | | 290 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:12:26 PM | R22708 |
| Total Dissolved Solids 4030 200 * mg/L 1 11/19/2014 7:01:00 PM 16440 | SM2540C MOD: TOTAL DISSOLVED SO | OLIDS | | | - | | Analyst | : KS |
| | Total Dissolved Solids | 4030 | 200 | | mg/L | 1 | 11/19/2014 7:01:00 PM | 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

ng Southwest, Inc. Client Sample ID: GBR-50

Project: GBR Annual Sampling

Collection Date: 11/13/2014 10:35:00 AM

Lab ID: 1411545-005

Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual U | nits | DF | Date Analyzed | Batch |
|-----------------------------------|--------|---------|--------|------|----|------------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | - | | Analyst: | LGP |
| Fluoride | 0.76 | 0.50 | m | ıg/L | 5 | 11/15/2014 12:21:45 AN | / R22558 |
| Chloride | 52 | 2.5 | т | ıg/L | 5 | 11/15/2014 12:21:45 AN | 1 R22558 |
| Nitrogen, Nitrite (As N) | ND | 0.50 | П | ıg/L | 5 | 11/15/2014 12:21:45 AN | A R22558 |
| Bromide | ND | 0.50 | m | ıg/L | 5 | 11/15/2014 12:21:45 AM | A R22558 |
| Nitrogen, Nitrate (As N) | 5.0 | 0.50 | m | ıg/L | 5 | 11/15/2014 12:21:45 AN | 1 R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 2.5 | m | ıg/L | 5 | 11/15/2014 12:21:45 AN | 1 R22558 |
| Sulfate | 1700 | 25 | * m | ıg/L | 50 | 11/26/2014 8:37:05 PM | R22848 |
| EPA METHOD 200.7: METALS | | | | | | Analyst: | JLF |
| Barium | 0.047 | 0.0020 | m | ıg/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Beryllium | ND | 0.0020 | m | g/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Cadmium | ND | 0.0020 | m | g/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Calcium | 450 | 5.0 | m | ıg/L | 5 | 11/20/2014 5:44:01 PM | 16487 |
| Chromium | 0.013 | 0.0060 | m | ıg/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Iron | 3.6 | 0.10 | * m | ıg/L | 5 | 11/20/2014 5:44:01 PM | 16487 |
| Magnesium | 34 | 1.0 | m | ıg/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Manganese | 0.22 | 0.0020 | * m | ıg/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Nickel | ND | 0.010 | m | g/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Potassium | 3,1 | 1,0 | ш | ıg/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| Silver | ND | 0.0050 | | ıg/L | 1 | 11/20/2014 5:40:14 PM | |
| Sodium | 360 | 5.0 | | g/L | 5 | 11/20/2014 5:44:01 PM | |
| Zinc | 0.019 | 0.010 | m | g/L | 1 | 11/20/2014 5:40:14 PM | 16487 |
| EPA 200.8: METALS | | | | | | Analyst | DBD |
| Antimony | ND | 0.0010 | m | g/L | 1 | 11/26/2014 12:28:00 PM | 16487 |
| Arsenic | 0.0017 | 0.0010 | ш | g/L | 1 | 11/26/2014 12:28:00 PM | 16487 |
| Lead | 0.0028 | 0.0010 | m | g/L | 1 | 11/26/2014 12:28:00 PM | 1 16487 |
| Copper | 0.0085 | 0.0010 | តា | g/L | 1 | 11/26/2014 12:28:00 PM | 1 16487 |
| Selenium | 0.011 | 0.0010 | m | g/L | 1 | 11/26/2014 12:28:00 PM | 1 16487 |
| Thallium | ND | 0.0010 | m | g/L | 1 | 11/26/2014 12:28:00 PN | 1 16487 |
| EPA METHOD 245.1: MERCURY | | | | | | Analyst: | MMD |
| Mercury | ND | 0.00020 | m | g/L | 1 | 11/25/2014 9:27:09 AM | 16546 |
| SM2340B: HARDNESS | | | | | | Analyst: | JLF |
| Hardness (As CaCO3) | 1300 | 6.6 | m | g/L | 1 | 11/20/2014 2:52:00 PM | R22687 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | KJH |
| Benzene | ND | 1.0 | μ | g/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Toluene | ND | 1.0 | μ | g/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Ethylbenzene | ND | 1.0 | þ | g/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | þ | g/L | 1 | 11/15/2014 1:48:58 AM | R22565 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-50

Project: GBR Annual Sampling

Collection Date: 11/13/2014 10:35:00 AM

Lab ID: 1411545-005

Matrix: AQUEOUS

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|----------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 2-Methylnaphthalene | ND | 4.0 | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Acetone | ND | 10 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| cis-1,2-DCE | ND | 1.0 | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,1-Dichloroethane | ND | 1,0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,1-Dichloroethene | ND | 1,0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 2-Hexanone | ND | 10 | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-005

Client Sample ID: GBR-50

Collection Date: 11/13/2014 10:35:00 AM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | KJH I |
| 4-Isopropyltoluene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Methylene Chloride | ND | 3.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| n-Butylbenzene | ND | 3.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| sec-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Styrene | - ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| tert-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Tetrachloroethene (PCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48;58 AM | R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48;58 AM | R22565 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48;58 AM | R22565 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48;58 AM | R22565 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48;58 AM | R22565 |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 | 91.9 | 70-130 | | %REC | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Surr: 4-Bromofluorobenzene | 101 | 70-130 | | %REC | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Surr: Dibromofluoromethane | 94.3 | 70-130 | | %REC | 1 | 11/15/2014 1:48:58 AM | R22565 |
| Surr: Toluene-d8 | 90.9 | 70-130 | | %REC | 1 | 11/15/2014 1:48:58 AM | R22565 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst: | JRR |
| Conductivity | 2600 | 0.010 | | µmhos/cm | 1 | 11/20/2014 2:26:47 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst: | JRR |
| pH | 7.37 | 1.68 | Н | pH units | 1 | 11/20/2014 2:26:47 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 200 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:26:47 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 2:26:47 PM | R22708 |
| Total Alkalinity (as CaCO3) | 200 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:26:47 PM | R22708 |
| SM2540C MOD: TOTAL DISSOLVED S | OLIDS | | | | | Analyst: | KS |
| Total Dissolved Solids | 2800 | 100 | • | mg/L | 1 | 11/19/2014 7:01:00 PM | 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-32

Project: GBR Annual Sampling

Collection Date: 11/13/2014 11:55:00 AM

Lab ID: 1411545-006

Matrix: AQUEOUS

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Q | Qual Units | DF Date Analyzed | Batch |
|-----------------------------------|--------|---------|------------|---------------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | Analyst: | LGP |
| Fluoride | 0.83 | 0.10 | mg/L | 1 11/15/2014 1:11:23 AM | R22558 |
| Chloride | 380 | 10 | * mg/L | 20 11/15/2014 1:23:48 AM | R22558 |
| Nitrogen, Nitrite (As N) | ND | 2.0 | mg/L | 20 11/15/2014 1:23:48 AM | R22558 |
| Bromide | 1.0 | 0.10 | mg/L | 1 11/15/2014 1:11:23 AM | R22558 |
| Nitrogen, Nitrate (As N) | 1.9 | 0.10 | mg/L | 1 11/15/2014 1:11:23 AM | R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | mg/L | 20 11/15/2014 1:23:48 AM | R2255 |
| Sulfate | 1900 | 50 | * mg/L | 100 11/26/2014 8:49:30 PM | R22848 |
| EPA METHOD 200.7: METALS | | | | Analyst | JLF |
| Barium | 0.036 | 0.0020 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Beryllium | ND | 0.0020 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Cadmium | ND | 0.0020 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Calcium | 490 | 10 | mg/L | 10 11/21/2014 4:48:42 PM | 16487 |
| Chromium | 1.4 | 0.030 | * mg/L | 5 11/20/2014 5:47:52 PM | 16487 |
| Iron | 5.9 | 0.20 | * mg/L | 10 11/21/2014 4:48:42 PM | 16487 |
| Magnesium | 56 | 1.0 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Manganese | 0.70 | 0.0020 | * mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Nickel | 0.098 | 0.010 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Potassium | 4.2 | 1.0 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Silver | ND | 0.0050 | mg/L | 1 11/20/2014 5:46:06 PM | 16487 |
| Sodium | 660 | 10 | mg/L | 10 11/24/2014 11:31:15 AM | 16487 |
| Zinc | 0.027 | 0.010 | mg/L | 1 11/20/2014 5;46;06 PM | 16487 |
| EPA 200.8: METALS | | | | Analyst: | DBD |
| Antimony | ND | 0.0010 | mg/L | 1 11/26/2014 12:33:22 PM | 16487 |
| Arsenic | ND | 0.020 | mg/L | 20 12/3/2014 3:03:24 PM | 16487 |
| Lead | 0.0025 | 0.0010 | mg/L | 1 11/26/2014 12:33:22 PM | 16487 |
| Copper | 0.084 | 0.020 | mg/L | 20 12/3/2014 3:03:24 PM | 16487 |
| Selenium | 0.023 | 0.020 | mg/L | 20 12/3/2014 3:03:24 PM | 16487 |
| Thallium | ND | 0.0010 | mg/L | 1 11/26/2014 12:33:22 PM | 16487 |
| EPA METHOD 245.1: MERCURY | | | | Analyst: | MMD |
| Mercury | ND | 0.00020 | mg/L | 1 11/25/2014 9:28:54 AM | 16546 |
| SM2340B: HARDNESS | | | | Analyst: | JLF |
| Hardness (As CaCO3) | 1400 | 6.6 | mg/L | 1 11/21/2014 2:23:00 PM | R2273 |
| EPA METHOD 8260B: VOLATILES | | | | Analyst: | KJH |
| Benzene | ND | 1.0 | μg/L | 1 11/15/2014 2:18:48 AM | R2256 |
| Toluene | ND | 1.0 | μg/L | 1 11/15/2014 2:18:48 AM | R2256 |
| Ethylbenzene | ND | 1.0 | µg/L | 1 11/15/2014 2:18:48 AM | R2256 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | µg/L | 1 11/15/2014 2:18:48 AM | R22565 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411545-006

Project:

Client Sample ID: GBR-32

Collection Date: 11/13/2014 11:55:00 AM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|------|---------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: | KJH |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μ g/ L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Acetone | ND | 10 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Chioromethane | ND | 3.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| cis-1,2-DCE | ND | 1.0 | μ g/ L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,3-Dichtorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 2-Hexanone | ND | 10 | μ g/ Ľ | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-32

Project: GBR Annual Sampling

Collection Date: 11/13/2014 11:55:00 AM

Lab ID: 1411545-006

Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|--------|------|---------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | КЈН |
| 4-Isopropyltoluene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Methylene Chloride | ND | 3.0 | | µg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| n-Butylbenzene | ND | 3.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| sec-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Styrene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| tert-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Tetrachloroethene (PCE) | 1.3 | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Trichlorofluoromethane | ND | 1.0 | | μ g/ L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μ g/ L | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Surr: 1,2-Dichloroethane-d4 | 96.6 | 70-130 | | %REC | 1 | 11/15/2014 2:18:48 AM | R2256 |
| Surr: 4-Bromofluorobenzene | 94.4 | 70-130 | | %REC | 1 | 11/15/2014 2:18:48 AM | R22565 |
| Surr: Dibromofluoromethane | 100 | 70-130 | | %REC | 1 | 11/15/2014 2 18:48 AM | R22565 |
| Surr: Toluene-d8 | 91.9 | 70-130 | | %REC | 1 | 11/15/2014 2,18:48 AM | R22565 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst: | JRR |
| Conductivity | 3700 | 0.010 | | µmhos/cm | 1 | 11/20/2014 2:38:15 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst: | JRR |
| pН | 7.33 | 1.68 | Н | pH units | 1 | 11/20/2014 2:38:15 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 300 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:38:15 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 2:38:15 PM | R22708 |
| Total Alkalinity (as CaCO3) | 300 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:38:15 PM | R22708 |
| SM2540C MOD: TOTAL DISSOLVED SO | DLIDS | | | | | Analyst: | KS |
| Total Dissolved Solids | 3800 | 40,0 | * | mg/L | 1 | 11/19/2014 7:01:00 PM | 16440 |
| | | | | | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411545-007

Project:

Client Sample ID: GBR-49

Collection Date: 11/13/2014 12:45:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|---------|------|-------|-----|-----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analys | t: LGP |
| Fluoride | 0.71 | 0.50 | l | mg/L | 5 | 11/15/2014 1:36:12 AN | R22558 |
| Chloride | 63 | 2.5 | ı | mg/L | 5 | 11/15/2014 1:36:12 AN | R22558 |
| Nitrogen, Nitrite (As N) | ND | 0.50 | l | mg/L | 5 | 11/15/2014 1:36:12 AN | A R22558 |
| Bromide | ND | 0.50 | l | mg/L | 5 | 11/15/2014 1:36:12 AN | R22558 |
| Nitrogen, Nitrate (As N) | 2,6 | 0.50 | l | mg/L | 5 | 11/15/2014 1:36:12 AN | A R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 2,5 | | mg/L | 5 | 11/15/2014 1:36:12 AN | R22558 |
| Sulfate | 1400 | 25 | * | mg/L | 50 | 11/26/2014 9:01:55 PM | R22848 |
| EPA METHOD 200.7: METALS | | | | | | Analys | t JLF |
| Barium | 0.70 | 0.0020 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Beryllium | 0.0027 | 0.0020 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Cadmium | ND | 0,0020 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Calcium | 410 | 10 | | mg/L | 10 | 11/20/2014 5:58:42 PM | 16464 |
| Chromium | 0.060 | 0,0060 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Iron | 41 | 2.0 | • | mg/L | 100 | 11/20/2014 6:00:26 PM | 1 16464 |
| Magnesium | 36 | 1.0 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Manganese | 3.9 | 0,020 | • | mg/L | 10 | 11/20/2014 5:58:42 PM | 1 16464 |
| Nickel | 0.086 | 0.010 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Potassium | 6.3 | 1.0 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Silver | ND | 0.0050 | | mg/L | 1 | 11/20/2014 12:53:46 P | M 16464 |
| Sodium | 270 | 10 | | mg/L | 10 | 11/20/2014 5:58:42 PM | |
| Zinc | 0.084 | 0.010 | | mg/L | 1 | 11/20/2014 5:57:01 PM | 1 16464 |
| EPA 200.8: METALS | | | | | | Analys | DBD |
| Antimony | ND | 0.0010 | | mg/L | 1 | 11/26/2014 12:11:58 P | M 16464 |
| Arsenic | 0,0069 | 0.0050 | | mg/L | 5 | 11/20/2014 1:14:08 PM | 1 16464 |
| Lead | 0.022 | 0.0050 | • | mg/L | 5 | 11/20/2014 1:14:08 PM | 1 16464 |
| Copper | 0.041 | 0.0050 | | mg/L | 5 | 11/20/2014 1:14:08 PM | 1 16464 |
| Setenium | ND | 0.0050 | | mg/L | 5 | 11/20/2014 1:14:08 PM | 1 16464 |
| Thallium | ND | 0.0050 | | mg/L | 5 | 11/20/2014 1:14:08 PM | 1 16464 |
| EPA METHOD 245.1: MERCURY | | | | | | Analys | MMD |
| Mercury | ND | 0.00020 | | mg/L | 1 | 11/25/2014 9:30:40 AM | 1 16546 |
| SM2340B: HARDNESS | | | | | | Analys | JLF |
| Hardness (As CaCO3) | 1200 | 6.6 | | mg/L | 1 | 11/20/2014 2:52:00 PM | R22687 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analys | KJH |
| Benzene | ND | 1,0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Toluene | ND | 1,0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | 1 R22565 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AN | R22565 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| | | | | | | | |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2
- RL Reporting Detection Limit

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-49

Project: GBR Annual Sampling

Collection Date: 11/13/2014 12:45:00 PM

Lab ID: 1411545-007

Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | l Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|--------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: | КЈН |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Naphihalene | ND | 2.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1-Methylnaphthalene | NĎ | 4.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 2-Methylnaphthalene | NĎ | 4.0 | μ g/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Acetone | ND | 10 | μ g/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Bromoform | ND | 1.0 | μ g/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Carbon Tetrachloride | ND | 1,0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Chloroethane | ND | 2,0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/10/2014

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-49

Project: GBR Annual Sampling Collection Date: 11/13/2014 12:45:00 PM

Lab ID: 1411545-007 Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|---------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | КЈН |
| 4-Isopropyltoluene | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Methylene Chloride | ND | 3.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| n-Butylbenzene | ND | 3.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| sec-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Styrene | NĐ | 1.0 | | □µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| tert-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Tetrachloroethene (PCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2,3-Trichlorobenzene | NĐ | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| 1,2,3-Trichloropropane | ND | 2.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Vinyl chloride | ND | 1.0 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Xylenes, Total | ND | 1.5 | | µg/L | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 | 97.6 | 70-130 | | %REC | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Surr: 4-Bromofluorobenzene | 103 | 70-130 | | %REC | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Surr: Dibromofluoromethane | 98.3 | 70-130 | | %REC | 1 | 11/15/2014 3:48:13 AM | R22565 |
| Surr: Toluene-d8 | 92.9 | 70-130 | | %REC | 1 | 11/15/2014 3:48:13 AM | R22565 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| Conductivity | 2300 | 0.010 | | µmhos/cm | 1 | 11/20/2014 2:52:52 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst | JRR |
| pH | 7.60 | 1.68 | Н | pH units | 1 | 11/20/2014 2:52:52 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2;52;52 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 2:52:52 PM | R22708 |
| Total Alkalinity (as CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 2:52:52 PM | R22708 |
| SM2540C MOD: TOTAL DISSOLVED SC | DLIDS | | | | | Analyst: | KS |
| Total Dissolved Solids | 2340 | 200 | • | mg/L | 1 | 11/19/2014 7:01:00 PM | 16440 |

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- E Value above quantitation range
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- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-17

Project: GBR Annual Sampling

Collection Date: 11/13/2014 1:45:00 PM

Lab ID: 1411545-008

Matrix: AQUEOUS Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-----------|------|-------|----|------------------------|---------|
| EPA METHOD 300.0: ANIONS | | | • | | | Analyst: | LGP |
| Fluoride | 0.67 | 0.10 | | mg/L | 1 | 11/15/2014 2:01:01 AM | R22558 |
| Chloride | 44 | 10 | | mg/L | 20 | 11/15/2014 2:13:25 AM | R22558 |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | mg/L | 1 | 11/15/2014 2:01:01 AM | R22558 |
| Bromide | 0.18 | 0.10 | | mg/L | 1 | 11/15/2014 2:01:01 AM | R22558 |
| Nitrogen, Nitrate (As N) | 6.9 | 0.10 | | mg/L | 1 | 11/15/2014 2:01:01 AM | R22558 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | | mg/L | 20 | 11/15/2014 2:13:25 AM | R22558 |
| Sulfate | 1200 | 25 | • | mg/L | 50 | 11/26/2014 9:14:20 PM | R22848 |
| EPA METHOD 200.7: METALS | | | | | | Analyst: | JLF |
| Calcium | 350 | 10 | | mg/L | 10 | 11/20/2014 6:04:03 PM | 16464 |
| Iron | 3,7 | 0.20 | • | mg/L | 10 | 11/20/2014 6:04:03 PM | 16464 |
| Magnesium | 28 | 1.0 | | mg/L | 1 | 11/20/2014 12:55:32 PM | 1 16464 |
| Manganese | 0.13 | 0.0020 | • | mg/L | 1 | 11/20/2014 6;02:29 PM | 16464 |
| Potassium | 1.8 | 1.0 | | mg/L | 1 | 11/20/2014 12:55:32 PM | 16464 |
| Sodium | 250 | 10 | | mg/L | 10 | 11/20/2014 6:04:03 PM | 16464 |
| SM2340B: HARDNESS | | | | | | Analyst: | JLF |
| Hardness (As CaCO3) | 980 | 6,6 | | mg/L | 1 | 11/20/2014 2:52:00 PM | R22687 |
| EPA METHOD 8270C: PAHS | | | | | | Analyst: | DAM |
| Naphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| 1-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| 2-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Acenaphthylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Acenaphthene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Fluorene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Phenanthrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Fluoranthene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Pyrene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Benz(a)anthracene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Chrysene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | |
| Benzo(a)pyrene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | |
| Dibenz(a,h)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | |
| Benzo(g,h,i)perylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 3:26:17 PM | |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | µg/L | 1 | 11/18/2014 3:26:17 PM | |
| Sun; N-hexadecane | 73,2 | 29.9-83.2 | | %REC | 1 | 11/18/2014 3:26:17 PM | 16428 |
| Surr: Benzo(e)pyrene | 73.7 | 22.6-106 | | %REC | 1 | 11/18/2014 3:26:17 PM | 16428 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSD limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411545-008

Client Sample ID: GBR-17

Collection Date: 11/13/2014 1:45:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-------|----------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| Benzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17;58 AM | R22565 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17;58 AM | R22565 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1 | 11/15/2014 4:17;58 AM | R22565 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Acetone | ND | 10 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Carbon Tetrachloride | NĐ | 1.0 | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Chlorobenzene | NĐ | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Chloroform | ND | 1.0 | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Chloromethane | ND | 3.0 | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17;58 AM | R22565 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Dichlorodifluoromethane | ND | 1.0 | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-17

Project: GBR Annual Sampling

Collection Date: 11/13/2014 1:45:00 PM

Lab ID: 1411545-008

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | КЈН |
| 1,1-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Hexachlorobutadiene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 2-Hexanone | ND | 10 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Isopropylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 4-Isopropyitoluene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Methylene Chloride | ND | 3.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| n-Butylbenzene | ND | 3.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Styrene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| tert-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2,0 | | μg/L | 1 | 11/15/2014 4:17;58 AM | R22565 |
| Tetrachtoroethene (PCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2,3-Trichlorobenzene | ND | 1,0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| 1,1,2-Trichloroethane | ND | 1.0 | | µg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| Trichtorofluoromethane | ND | 1.0 | | μg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| 1,2,3-Trichloropropane | ND | 2.0 | | µg/L | 1 | 11/15/2014 4:17:58 AM | R2256 |
| Vinyt chloride | ND | 1.0 | | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Xylenes, Total | ND | 1.5 | | µg/L | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 | 99.3 | 70-130 | | %REC | 1 | 11/15/2014 4:17:58 AM | R2256 |
| Surr: 4-Bromofluorobenzene | 93.9 | 70-130 | | %REC | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Surr; Dibromofluoromethane | 101 | 70-130 | | %REC | 1 | 11/15/2014 4:17:58 AM | R22565 |
| Surr: Toluene-d8 | 97.3 | 70-130 | | %REC | 1 | 11/15/2014 4:17:58 AM | R2256 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| Conductivity | 2000 | 0.010 | | µmhos/cm | 1 | 11/20/2014 3:04:06 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst | JRR |
| рН | 7.46 | 1.68 | Н | pH units | 1 | 11/20/2014 3:04:06 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| Bicarbonate (As CaCO3) | 200 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3 04:06 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 3.04:06 PM | |
| Total Alkalinity (as CaCO3) | 200 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3:04:06 PM | R22708 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411545-008

Project:

Client Sample ID: GBR-17

Collection Date: 11/13/2014 1:45:00 PM

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qual Units | DF Date Analyzed | Batch |
|--------------------------|-------------|---------------|------------------------|---------|
| SM2540C MOD: TOTAL DISSO | LVED SOLIDS | | Analy | st KS |
| Total Dissolved Solids | 1980 | 40.0 * mg/L | 1 11/19/2014 7:01:00 P | M 16440 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Annual Sampling

Collection Date:

Lab ID: 1411545-009

Matrix: TRIP BLANK

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|------|-----------|----|-----------------------|-------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| Benzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,2-Dichloroethane (EDC) | NĐ | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,2-Dibromoethane (EDB) | NĐ | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Acetone | ND | 10 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Carbon Tetrachloride | ND | 1.0 | μց/Լ_ | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Chlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,3-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R225 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R2256 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411545

Date Reported: 12/10/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Annual Sampling

Collection Date:

Lab ID: 1411545-009

Matrix: TRIP BLANK

Received Date: 11/14/2014 7:10:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|--------|----------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Styrene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Tetrachloroethene (PCE) | ND | 1.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,1,1-Trichloroethane | NÐ | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,1,2-Trichtoroethane | ND | 1.0 | µg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Trichlorofluoromethane | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| 1,2,3-Trichloropropane | ND | 2.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Vinyl chloride | ND | 1.0 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Xylenes, Total | ND | 1.5 | μg/L | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Surr: 1,2-Dichloroethane-d4 | 102 | 70-130 | %REC | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Surr: 4-Bromofluorobenzene | 89.4 | 70-130 | %REC | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Surr: Dibromofluoromethane | 104 | 70-130 | %REC | 1 | 11/15/2014 4:47:44 AM | R22565 |
| Surr: Toluene-d8 | 89.9 | 70-130 | %REC | 1 | 11/15/2014 4:47:44 AM | R22565 |
| | | | | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID MB-16464 | Samp | Type: ME | BLK | Tes | tCode: E | PA Method | 200.7: Metals | | | |
|-----------------------|---------------------------|----------|-----------|-------------|--------------|-----------|---------------|------|----------|------|
| Client ID: PBW | Bato | h ID: 16 | 464 | F | RunNo: 22658 | | | | | |
| Prep Date: 11/19/2014 | Analysis Date: 11/20/2014 | | | 8 | SeqNo: 6 | 668338 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | ND | 0.0020 | | | | | | | | |
| Beryllium | ND | 0.0020 | | | | | | | | |
| Cadmium | ND | 0.0020 | | | | | | | | |
| Calcium | ND | 1.0 | | | | | | | | |
| Chromium | ND | 0.0060 | | | | | | | | |
| Iron | ND | 0.020 | | | | | | | | |
| Magnesium | ND | 1.0 | | | | | | | | |
| Manganese | ND | 0.0020 | | | | | | | | |
| Nickel | ND | 0.010 | | | | | | | | |
| Potassium | ND | 1.0 | | | | | | | | |
| Silver | ND | 0.0050 | | | | | | | | |
| Sodium | ND | 1.0 | | | | | | | | |
| Zinc | ND | 0.010 | | | | | | | | |

| Sample ID LCS-16464 | Samp | Type: LC | S | Tes | | | | | | |
|-----------------------|----------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Bato | h ID: 16 | 464 | F | tunNo: 2 | 2658 | | | | |
| Prep Date: 11/19/2014 | Analysis | Date: 11 | /20/2014 | 8 | eqNo: 6 | 68339 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | 0.48 | 0.0020 | 0.5000 | 0 | 96.6 | 85 | 115 | | | |
| Beryllium | 0.51 | 0.0020 | 0.5000 | 0 | 103 | 85 | 115 | | | |
| Cadmium | 0.48 | 0.0020 | 0.5000 | 0 | 96.7 | 85 | 115 | | | |
| Calcium | 49 | 1.0 | 50.00 | 0 | 98.2 | 85 | 115 | | | |
| Chromium | 0.47 | 0.0060 | 0.5000 | 0 | 94.1 | 85 | 115 | | | |
| Iron | 0.50 | 0.020 | 0.5000 | 0 | 101 | 85 | 115 | | | |
| Magnesium | 50 | 1.0 | 50.00 | 0 | 99.5 | 85 | 115 | | | |
| Manganese | 0.49 | 0.0020 | 0,5000 | 0 | 98.1 | 85 | 115 | | | |
| Nickel | 0.47 | 0.010 | 0.5000 | 0 | 94.1 | 85 | 115 | | | |
| Potassium | 49 | 1.0 | 50.00 | 0 | 98.2 | 85 | 115 | | | |
| Silver | 0.10 | 0.0050 | 0.1000 | O | 101 | 85 | 115 | | | |
| Sodium | 49 | 1.0 | 50.00 | 0 | 98.3 | 85 | 115 | | | |
| Zinc | 0.49 | 0.010 | 0.5000 | 0 | 97,3 | 85 | 115 | | | |

| Sample ID | 1411545-003CMS | SampT | | | Tes | tCode: E | PA Method | ; | | | |
|------------|----------------|------------|----------------------|-----------|--------------|----------|-----------|-------------|------|-------------|------|
| Client ID: | GBR-52 | Batch | sis Date: 11/20/2014 | | RunNo: 22658 | | | | | | |
| Prep Date: | 11/19/2014 | Analysis D | ate: 11 | /20/2014 | 8 | SeqNo: 6 | 68608 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Magnesium | | 90 | 1.0 | 50.00 | 37.68 | 105 | 70 | 130 | | | |
| Potassium | | 58 | 1.0 | 50.00 | 4.123 | 108 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Result

Result

Result

0.70

0.70

Sample ID 1411545-003CMSD **GBR-52** Client ID:

SampType: MSD Batch ID: 16464 TestCode: EPA Method 200.7: Metals

70

70

TestCode: EPA Method 200.7: Metals

LowLimit

RunNo: 22658

Prep Date: 11/19/2014

Analysis Date: 11/20/2014 POL

SeqNo: 668609

Units: mg/L

Analyte Magnesium Potassium

91 1.0 50,00 59 1.0 50.00

SPK value SPK Ref Val %REC LowLimit 107

110

HighLimit

130

130

%RPD **RPDLimit** 1.44 20 1.07 20

Sample ID 1411545-003CMS **GBR-52**

SampType: MS Batch ID: 16464

RunNo: 22687

Units: mg/L

%RPD

%RPD

0.726

Analyte Manganese

Client ID:

Client ID:

Prep Date: 11/19/2014

Analysis Date: 11/20/2014 PQL

0.0020

SeqNo: 669147 SPK value SPK Ref Val

37.68

4.123

0.2469

%REC LowLimit 90.1

HighLimit 130 **RPDLimit**

Qual

Qual

Sample ID 1411545-003CMSD

SampType: MSD

RunNo: 22687

TestCode: EPA Method 200.7: Metals

Prep Date: 11/19/2014

GBR-52

11/20/2014

Batch ID: 16464

PQL

0.0020

Analysis Date: 11/20/2014

SPK Ref Val

0.2469

SPK value SPK Ref Val %REC LowLimit

SeqNo: 669148

Units: mg/L HighLimit

130

RPDLimit Qual

20

Analyte Manganese

Sample ID MB-16487

SampType: MBLK

Analysis Date: 11/20/2014

1.0

TestCode: EPA Method 200.7: Metals

%REC

Client ID: PRW

Batch ID: 16487

SPK value

0.5000

0.5000

RunNo: 22687 SeqNo: 669240

Units: mg/L HighLimit

%RPD

RPDLimit

Qual

Analyte Barium Beryllium

Nickel

Potassium

Prep Date:

Cadmium Calcium Chromium Result **PQL** ND 0.0020 ND 0.0020 ND 0.0020 ND 1.0

ND

0.0060 ND ND 0.020 Magnesium ND 1.0 ND 0.0020 Manganese ND 0.010

0.0050 Silver ND Sodium ND 1.0 Zinc ND 0.010

Qualifiers:

Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

1 Analyte detected below quantitation limits

Spike Recovery outside accepted recovery limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2.

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID | LCS-16487 | Samp | Type: LC | S | Tes | tCode: I | EPA Method | 200.7: Metals | | | |
|------------|-----------------|-----------------|-----------|-----------|--------------|------------|------------|---------------|------|----------|------|
| Client ID: | LCSW | Bato | th ID: 16 | 487 | F | RunNo: | 22687 | | | | |
| Prep Date: | 11/20/2014 | Analysis I | Date: 11 | /20/2014 | 8 | SeqNo: | 669241 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | | 0.49 | 0.0020 | 0.5000 | 0 | 98.0 | | 115 | | | |
| Beryllium | | 0.52 | 0.0020 | 0.5000 | 0 | 105 | 85 | 115 | | | |
| Cadmium | | 0.50 | 0.0020 | 0.5000 | 0 | 99.0 | 85 | 115 | | | |
| Calcium | | 50 | 1.0 | 50.00 | 0 | 101 | 85 | 115 | | | |
| Chromium | | 0.48 | 0.0060 | 0.5000 | 0 | 96.8 | 85 | 115 | | | |
| Iron | | 0.51 | 0.020 | 0.5000 | 0 | 101 | 85 | 115 | | | |
| Magnesium | | 51 | 1.0 | 50.00 | 0 | 102 | 85 | 115 | | | |
| Manganese | | 0.48 | 0.0020 | 0.5000 | 0 | 95.7 | 85 | 115 | | | |
| Nickel | | 0.48 | 0.010 | 0.5000 | 0 | 96.6 | 85 | 115 | | | |
| Potassium | | 49 | 1.0 | 50.00 | 0 | 98.0 | 85 | 115 | | | |
| Silver | | 0.11 | 0.0050 | 0.1000 | 0 | 108 | 85 | 115 | | | |
| Sodium | | 50 | 1.0 | 50.00 | 0 | 101 | 85 | 115 | | | |
| Zinc | | 0.48 | 0.010 | 0.5000 | 0 | 96.7 | 85 | 115 | | | |
| Sample ID | 1411545-003CMS | Samp | Type: MS | } | Tes | EPA Method | | | | | |
| | GBR-52 | Bato | h ID: 16 | 464 | F | RunNo: | 22752 | | | | |
| Prep Date | 11/19/2014 | Analysis | Date: 11 | 1/24/2014 | 8 | SeqNo: | 671343 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Sodium | | 360 | 5.0 | 50.00 | 313.9 | 88.9 | 70 | 130 | | | |
| Sample ID | 1411545-003CMSE | D SampType: MSD | | | Tes | tCode: I | EPA Method | 200.7: Metals | | | |
| | | Batch ID: 16464 | | | RunNo: 22752 | | | | | | |
| Client ID: | GBR-52 | Bato | th ID: 16 | 464 | - | KUHINO | 22/52 | | | | |

SPK value SPK Ref Val

313.9

50.00

Qualifiers:

Analyte

Sodium

Value exceeds Maximum Contaminant Level.

Result

360

PQL

5.0

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

%REC

87.1

LowLimit

70

HighLimit

130

- P Sample pH greater than 2.
- RL Reporting Detection Limit

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%RPD

0.249

RPDLimit

20

Qual

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID LLLCS-16464 | SampType: LC | SLL | Tes | tCode: El | PA 200.8: N | letals | | | | - 1 |
|-----------------------|------------------|-----------|-------------|-----------|-------------|-------------|------|----------|------|-----|
| Client ID: BatchQC | Batch ID: 16 | 464 | F | RunNo: 2 | 2664 | | | | | |
| Prep Date: 11/19/2014 | Analysis Date: 1 | 1/20/2014 | 8 | SeqNo: 6 | 58479 | Units: mg/L | | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Arsenic | 0.024 0.0010 | 0.02500 | 0 | 97.7 | 85 | 115 | | | | |
| Lead | 0.025 0.0010 | 0.02500 | 0 | 98.0 | 85 | 115 | | | | |
| Copper | 0.024 0.0010 | 0.02500 | 0 | 96.9 | 85 | 115 | | | | |
| Selenium | 0.024 0.0010 | 0.02500 | 0 | 95.4 | 85 | 115 | | | | |
| Thallium | 0.025 0.0010 | 0.02500 | 0 | 98.4 | 85 | 115 | | | | |

Sample ID MB-16464 SampType: MBLK

Client ID: PBW Batch ID: 16464

TestCode: EPA 200.8: Metals RunNo: 22664

SeqNo: 668480

Result PQL SPK value SPK Ref Val Analyte

Analysis Date: 11/20/2014

Units: mg/L

HighLimit %RPD **RPDLimit** Qual

0.0010 ND Arsenic ND 0.0010 Lead ND 0.0010 Copper Selenium ND 0.0010 Thallium ND 0.0010

Sample ID LLLCS-16464

Prep Date: 11/19/2014

SampType: LCSLL

TestCode: EPA 200.8: Metals

%REC LowLimit

RunNo: 22664 Batch ID: 16464

Prep Date: 11/19/2014

BatchQC

Analysis Date: 11/20/2014

SeqNo: 668690

Units: mg/L

SPK value SPK Ref Val Analyte Result PQL %REC LowLimit **HighLimit** 109 85 115

SPK value SPK Ref Val

Antimony

Client ID:

Client ID:

0.027 0.0010 0.02500

%RPD **RPDLimit** Qual

RPDLimit

Qual

Sample ID MB-16464

SampType: MBLK

TestCode: EPA 200.8: Metals

Batch ID: 16464

RunNo: 22664

Units: mg/L

HighLimit

Prep Date: 11/19/2014

Analysis Date: 11/20/2014

SeqNo: 668691

%RPD

Analyte Antimony

Result PQL 0.0010 ND

Sample ID 1411545-006CMSDL SampType: MSDLL

TestCode: EPA 200.8: Metals

%REC LowLimit

RunNo: 22842

Client ID: GBR-32

Batch ID: 16487

| Prep Date: 11/20/2014 | Analysis | Date: 1 1 | 1/26/2014 | s | SeqNo: 6 | 74052 | Units: mg/L | | | |
|-----------------------|----------|------------------|-----------|-------------|----------|----------|-------------|-------|----------|------|
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.027 | 0.0010 | 0.02500 | 0.0004747 | 104 | 70 | 130 | 0.827 | 20 | |
| Lead | 0.029 | 0.0010 | 0.02500 | 0.002453 | 108 | 70 | 130 | 2.93 | 20 | |
| Thallium | 0.028 | 0.0010 | 0.02500 | .00009472 | 112 | 70 | 130 | 2.46 | 20 | |

Qualifiers:

Value exceeds Maximum Contaminant Level,

E Value above quantitation range

Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

p Sample pH greater than 2,

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID | 1411545-006CMSL | .L Samp | Type: MS | SLL | Tes | Code: El | PA 200.8: N | letals | | | |
|------------|-----------------|------------|----------|-----------|-------------|----------|-------------|-------------|------|----------|------|
| Client ID: | GBR-32 | Bato | h ID: 16 | 487 | R | lunNo: 2 | 2842 | | | | |
| Prep Date: | 11/20/2014 | Analysis I | Date: 11 | /26/2014 | S | SeqNo: 6 | 74053 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | | 0.027 | 0.0010 | 0.02500 | 0.0004747 | 105 | 70 | 130 | | | |
| | | | 0.0040 | 0.00000 | 0.002453 | 104 | 70 | 130 | | | |
| Lead | | 0.029 | 0.0010 | 0.02500 | 0.002455 | 104 | 70 | 130 | | | |

| Sample ID LLLCS-16487 | SampType: LC | SLL | TestCode: EPA 200.8: Metals | | | | | | |
|-----------------------|------------------|-----------|-----------------------------|----------|----------|-------------|------|----------|------|
| Client ID: BatchQC | Batch ID: 16 | 487 | RunNo: 22842 | | | | | | |
| Prep Date: 11/20/2014 | Analysis Date: 1 | 1/26/2014 | 8 | SeqNo: 6 | 74083 | Units: mg/L | | | |
| Analyte | Result PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | 0.028 0.0010 | 0.02500 | 0 | 114 | 85 | 115 | | | |
| Arsenic | 0.026 0.0010 | 0.02500 | 0 | 103 | 85 | 115 | | | |
| Lead | 0.026 0.0010 | 0.02500 | 0 | 105 | 85 | 115 | | | |
| Copper | 0.026 0.0010 | 0.02500 | 0 | 103 | 85 | 115 | | | |
| Selenium | 0.025 0.0010 | 0.02500 | 0 | 101 | 85 | 115 | | | |
| Thallium | 0.026 0.0010 | 0.02500 | 0 | 106 | 85 | 115 | | | |

| Sample ID MB-16487 | SampType | : MBLK | Test | Code: EF | PA 200.8: N | letals | | | • |
|-----------------------|---------------|--------------|-------------|----------|-------------|-------------|------|----------|------|
| Client ID: PBW | Batch ID | 16487 | R | unNo: 22 | 2842 | | | | |
| Prep Date: 11/20/2014 | Analysis Date | 11/26/2014 | S | eqNo: 67 | 74088 | Units: mg/L | | | |
| Analyte | Result P | QL SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Antimony | ND 0.0 | 010 | | | | | | | |
| Arsenic | ND 0.0 | 0010 | | | | | | | |

| Arsenic | ND | 0.0010 |
|----------|----|--------|
| Lead | ND | 0.0010 |
| Copper | ND | 0.0010 |
| Selenium | ND | 0.0010 |
| Thallium | ND | 0.0010 |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID MB-16546

SampType: MBLK

TestCode: EPA Method 245.1: Mercury

Client ID:

Batch ID: 16546

PQL

RunNo: 22791

Prep Date: 11/24/2014

Result

SeqNo: 672552

SPK value SPK Ref Val %REC LowLimit

Units: mg/L HighLimit

Analyte

Mercury

Analysis Date: 11/25/2014

%RPD

%RPD

Sample ID LCS-16546

SampType: LCS

ND 0.00020

TestCode: EPA Method 245.1: Mercury

Client ID: LCSW Batch ID: 16546

RunNo: 22791

Prep Date: 11/24/2014

Analysis Date: 11/25/2014

SeqNo: 672553

Units: mg/L

Analyte

%REC

HighLimit

RPDLimit

RPDLimit

Qual

109

120

SPK value SPK Ref Val PQL

Mercury

0.0054 0.00020 0.005000

Qual

Qualifiers:

Value exceeds Maximum Contaminant Level.

Spike Recovery outside accepted recovery limits

E Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

P Sample pH greater than 2, Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID MB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 300.0: Anion: | 5 | | |
|----------------------------------|------------|----------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID; PBW | Batci | n ID: R2 | 2558 | F | | | | | | |
| Prep Date: | Analysis D |)ate: 11 | /14/2014 | 8 | SeqNo: 6 | 65153 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0,10 | | | | | | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | | | | | | | |
| Bromide | ND | 0.10 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |
| Sulfate | ND | 0.50 | | | | | | | | |

| Sample ID LCS | Samp1 | ype: LC | :s | Tes | TestCode: EPA Method 300,0; Anions | | | | | |
|----------------------------------|------------|----------|-----------|-------------|------------------------------------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batcl | n ID: R2 | 2558 | F | RunNo: 2 | 2558 | | | | |
| Prep Date: | Analysis E | ate: 1 | 1/14/2014 | 8 | SeqNo: 6 | 65154 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.51 | 0.10 | 0.5000 | 0 | 101 | 90 | 110 | | | |
| Chloride | 4.8 | 0.50 | 5,000 | 0 | 95.1 | 90 | 110 | | | |
| Nitrogen, Nitrite (As N) | 0.99 | 0.10 | 1,000 | 0 | 99.4 | 90 | 110 | | | |
| Bromide | 2.3 | 0.10 | 2,500 | 0 | 94.0 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.5 | 0.10 | 2,500 | 0 | 100 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 4,9 | 0.50 | 5.000 | 0 | 97.9 | 90 | 110 | | | |
| Sulfale | 10 | 0.50 | 10.00 | 0 | 104 | 90 | 110 | | | |

| Sample ID 1411545-003BMS | SampT | SampType: MS TestCode: EPA Method 300.0: Anions | | | | | | | | |
|----------------------------------|------------|---|--------------------------------------|-------------|----------|----------|-----------|------|----------|------|
| Client ID: GBR-52 | Batch | 1D: R2 | 2558 | F | RunNo: 2 | 2558 | | | | |
| Prep Date: | Analysis D | ate: 11 | 11/14/2014 SeqNo: 665160 Units: mg/L | | | | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 3.2 | 0.50 | 2,500 | 0.9210 | 92.5 | 66.1 | 113 | | | |
| Chloride | 88 | 2.5 | 25.00 | 65.11 | 92.6 | 81.8 | 112 | | | |
| Nitrogen, Nitrite (As N) | 4.7 | 0.50 | 5.000 | 0 | 94.5 | 66.4 | 111 | | | |
| Bromide | 12 | 0.50 | 12.50 | 0.4265 | 91.1 | 82.5 | 103 | | | |
| Nitrogen, Nitrate (As N) | 18 | 0.50 | 12.50 | 5.870 | 98.2 | 84 | 109 | | | |
| Phosphorus, Orthophosphate (As P | 22 | 2.5 | 25.00 | 0 | 86.1 | 69 | 109 | | | |

| Sample ID | 1411545-003BMSD | SD SampType: MSD TestCode: EPA Method 300.0: Anions | | | | | | | | | |
|------------|-----------------|---|--------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: | GBR-52 | Batch | D: R2 | 2558 | R | RunNo: 2 | 2558 | | | | |
| Prep Date: | | Analysis Da | te: 11 | /14/2014 | 5 | SeqNo: 6 | 65161 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | | 3.3 | 0.50 | 2,500 | 0.9210 | 93.9 | 66.1 | 113 | 1.05 | 20 | |
| Chloride | | 87 | 2.5 | 25.00 | 65.11 | 88.3 | 81.8 | 112 | 1.22 | 20 | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Project: GBR An | nual Samp | ling | | | | | | | | |
|----------------------------------|------------|----------|-----------|-------------|-----------|-----------|---------------|-------|----------|------|
| Sample ID 1411545-003BMS | D Samp | Гуре: М | SD | Tes | tCode: E | PA Method | 300.0: Anion | S | | |
| Client ID: GBR-52 | Batcl | h ID: R2 | 2558 | F | RunNo: 2 | 2558 | | | | |
| Prep Date: | Analysis E | Date: 1 | 1/14/2014 | 4 | SeqNo: 6 | 65161 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrogen, Nitrite (As N) | 4.7 | 0.50 | 5.000 | 0 | 93.6 | 66.4 | 111 | 0.946 | 20 | |
| Bromide | 12 | 0.50 | 12.50 | 0.4265 | 89.8 | 82.5 | 103 | 1.40 | 20 | |
| Nitrogen, Nitrate (As N) | 18 | 0.50 | 12.50 | 5.870 | 96.4 | 84 | 109 | 1.27 | 20 | |
| Phosphorus, Orthophosphate (As P | 21 | 2.5 | 25.00 | 0 | 85.9 | 69 | 109 | 0.263 | 20 | |
| Sample ID MB | Samp1 | Гуре: МЕ | BLK | Tes | tCode: El | PA Method | 300.0: Anion: | 5 | | |
| Client ID: PBW | Batcl | h ID: R2 | 2558 | F | RunNo: 2 | 2558 | | | | |
| Prep Date: | Analysis D | Date: 11 | 1/14/2014 | = 5 | SeqNo: 6 | 65207 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0.10 | | | | | | | | - |
| Chloride | ND | 0.50 | | | | | | | | |
| Nitrogen, Nitrite (As N) | ND | 0.10 | | | | | | | | |
| Bromide | ND | 0.10 | | | | | | | | |
| Nitrogen, Nitrate (As N) | ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |
| Sulfate | ND | 0.50 | | | | | | | | |
| Sample ID LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 300.0: Anions | 5 | | |
| Client ID: LCSW | Batch | 1 ID: R2 | 2558 | F | RunNo: 2 | 2558 | | | | |
| Prep Date: | Analysis D | ate: 11 | /14/2014 | 8 | SeqNo: 6 | 65208 | Units: mg/L | | | |
| Алаlyte | Result | PQL | | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.52 | 0.10 | 0.5000 | 0 | 103 | 90 | 110 | | | |
| Chloride | 4.7 | 0.50 | 5.000 | 0 | 93.9 | 90 | 110 | | | |
| Nitrogen, Nitrite (As N) | 0.97 | 0.10 | 1.000 | 0 | 97.3 | 90 | 110 | | | |
| Bromide | 2.3 | 0.10 | 2.500 | 0 | 91.0 | 90 | 110 | | | |
| Nitrogen, Nitrate (As N) | 2.4 | 0.10 | 2.500 | 0 | 97.1 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 4.7 | 0.50 | 5.000 | 0 | 95.0 | 90 | 110 | | | |

| Sample ID MB | SampType: MB | ILK Tes | tCode: EPA Method | 300.0: Anions | | | |
|----------------|--------------------|-----------------------|-------------------|---------------|------|----------|------|
| Client ID: PBW | Batch ID: R22 | 2848 F | RunNo: 22848 | | | | İ |
| Prep Date: | Analysis Date: 11/ | /26/2014 | SeqNo: 674415 | Units: mg/L | | | |
| Analyte | Result PQL | SPK value SPK Ref Val | %REC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Chloride | ND 0.50 | | | | | _ | |
| Sulfate | ND 0.50 | | | | | | |

0

0.50

9.4

10.00

Qualifiers:

Sulfate

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

J Analyte detected below quantitation limits

O RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

B Analyte detected in the associated Method Blank

90

110

H Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

93.8

P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545 10-Dec-14

Client: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0; Anions LCSW Client ID: Batch ID: R22848 RunNo: 22848 Prep Date: Analysis Date: 11/26/2014 SeqNo: 674416 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit **HighLimit** %RPD **RPDLimit** Qual Chloride 4.9 0.50 5,000 0 98.8 90 110 Sulfate 10 0.50 10.00 0 102 90 110

Sample ID MB SampType: MBLK TestCode: EPA Method 300.0: Anions Client ID: PBW Batch ID: R22875 RunNo: 22875 Prep Date: Analysis Date: 12/1/2014 SeqNo: 675391 Units: mg/L SPK value SPK Ref Val %REC LowLimit **RPDLimit** Analyte Result HighLimit %RPD Qual 0.20 Nitrate+Nitrite as N ND

Sample ID LCS SampType: LCS TestCode: EPA Method 300.0: Anions Client ID: LCSW Batch ID: R22875 RunNo: 22875 Prep Date: Analysis Date: 12/1/2014 SeqNo: 675392 Units: mg/L %REC %RPD **RPDLimit** Analyte Result PQL SPK value SPK Ref Val LowLimit HighLimit Qual Nitrate+Nitrite as N 3.5 0.20 101 3.500 110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID b3 | SampT | ype: M | BLK | Tes | tCode: E | PA Method | 8260B: VOL | ATILES | | |
|--------------------------------|------------|--------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | iD: R | 22565 | F | RunNo: | 22565 | | | | |
| Prep Date: | Analysis D | ate: 1 | 1/14/2014 | 5 | SeqNo: (| 665381 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| I,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| I,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| I-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | NĐ | 1.0 | | | | | | | | |
| 3romodichloromethane | ND | 1.0 | | | | | | | | |
| 3romoform | ND | 1.0 | | | | | | | | |
| Promomethane | ND | 3.0 | | | | | | | | |
| !-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| -Chiorotoluene | ND | 1.0 | | | | | | | | |
| -Chlorotoluene | ND | 1.0 | | | | | | | | |
| is-1,2-DCE | ND | 1.0 | | | | | | | | |
| is-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| ,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| ,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| ,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| .4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| ichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| .1-Dichloroethane | ND | 1.0 | | | | | | | | |
| ,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| ,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| | | | | | | | | | | |
| ,3-Dichloropropane | ND | 1.0 | | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID b3 | SampT | ype: ME | BLK | Tes | (Code; El | PA Method | 8260B: VOL | ATILES | | |
|-----------------------------|------------|---------|-----------|-------------|-----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | ID: R2 | 2565 | F | RunNo: 2 | 2565 | | | | |
| Prep Date: | Analysis D | ate: 11 | /14/2014 | S | SeqNo: 6 | 55381 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | | | |
| 2-Hexanone | ND | 10 | | | | | | | | |
| lsopropylbenzene | ND | 1.0 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | 100 | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | ND | 1.0 | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.8 | | 10.00 | | 97.9 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.7 | | 10.00 | | 97.3 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.8 | | 10.00 | | 97.6 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.5 | | 10.00 | | 94.6 | 70 | 130 | | | |
| Sample ID 100ng ics2 | SampT | ype: LC | s | Tes | tCode: El | PA Method | 8260B: VOL | ATILES | | |

| Sample ID 100ng ics2 | SampT | ype: LC | s | Tes | Code: El | | | | | |
|----------------------|------------|---------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R2 | 2565 | F | lunNo; 2 | 2565 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/14/2014 | 5 | eqNo: 6 | 65383 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 20 | 1.0 | 20.00 | 0 | 100 | 70 | 130 | | | |
| Toluene | 20 | 1.0 | 20.00 | 0 | 102 | 80 | 120 | | | |
| Chlorobenzene | 20 | 1.0 | 20.00 | 0 | 98.2 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID 100ng Ics2 | SampT | ype: LC | S | Tes | tCode: E | PA Method | 8260B: VOL | ATILES | | |
|-----------------------------|------------|------------------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: LCSW | Batcl | Batch ID: R22565 | | | RunNo: 2 | 2565 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/14/2014 | 8 | SeqNo: 6 | 65383 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 22 | 1.0 | 20.00 | 0 | 110 | 82.6 | 131 | | | |
| Trichloroethene (TCE) | 15 | 1.0 | 20.00 | 0 | 75.1 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.4 | | 10.00 | | 94.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.1 | | 10.00 | | 90.6 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.6 | | 10.00 | | 95.7 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.9 | | 10.00 | | 98.6 | 70 | 130 | | | |

| Sample ID 1411545-006a ms | SampT | ype: MS | 5 | Tes | | | | | | |
|-----------------------------|-------------|---------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: GBR-32 | Batch | ID: R2 | 2565 | F | RunNo: 2 | 2621 | | | | |
| Prep Date: | Analysis Da | ate: 11 | 1/18/2014 | S | SeqNo: 6 | 67165 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 23 | 1.0 | 20.00 | 0 | 113 | 70 | 130 | | | |
| Toluene | 22 | 1.0 | 20.00 | 0 | 111 | 70 | 130 | | | |
| Chlorobenzene | 21 | 1.0 | 20.00 | 0 | 106 | 70 | 130 | | | |
| 1,1-Dichloroethene | 25 | 1.0 | 20.00 | 0 | 126 | 70 | 130 | | | |
| Trichloroethene (TCE) | 22 | 1.0 | 20.00 | 0.5080 | 108 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.7 | | 10.00 | | 96.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.7 | | 10.00 | | 97.1 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.7 | | 10.00 | | 97.0 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.7 | | 10.00 | | 96.5 | 70 | 130 | | | |

| Sample ID 1411545-006a ms | d SampT | ype: MS | SD. | Tes | tCode: E | ATILES | | | | |
|-----------------------------|------------|---------|-----------|-------------|----------|----------|-------------|-------|----------|------|
| Client ID: GBR-32 | Batch | ID: R2 | 2565 | F | 2621 | | | | | |
| Prep Date: | Analysis D | ate: 11 | /18/2014 | 8 | SeqNo: 6 | 67166 | Units: µg/L | | | |
| Analyte | Result | PQL, | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 21 | 1.0 | 20.00 | 0 | 107 | 70 | 130 | 6.00 | 20 | |
| Toluene | 24 | 1.0 | 20.00 | 0 | 118 | 70 | 130 | 5.85 | 20 | |
| Chlorobenzene | 21 | 1.0 | 20.00 | 0 | 107 | 70 | 130 | 0.711 | 20 | |
| 1,1-Dichloroethene | 23 | 1.0 | 20.00 | 0 | 117 | 70 | 130 | 6.80 | 20 | |
| Trichloroethene (TCE) | 17 | 1.0 | 20.00 | 0.5080 | 82.6 | 70 | 130 | 25.9 | 20 | R |
| Surr: 1,2-Dichloroethane-d4 | 9.5 | | 10.00 | | 95.5 | 70 | 130 | 0 | 0 | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 102 | 70 | 130 | 0 | 0 | |
| Surr: Dibromoffuoromethane | 9.1 | | 10.00 | | 91.5 | 70 | 130 | 0 | 0 | |
| Surr; Toluene-d8 | 10 | | 10.00 | | 100 | 70 | 130 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID mb-16428 | SampT | уре: МЕ | BLK | Tes | tCode: E | PA Method | 8270C: PAHs | • | | |
|------------------------|------------|---------|------------|-------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch | ID: 164 | 128 | F | RunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis D | ate: 11 | /18/2014 | 8 | SeqNo: 6 | 66994 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Naphthalene | ND | 0.50 | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.50 | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.50 | | | | | | | | |
| Acenaphthylene | ND | 0.50 | | | | | | | | |
| Acenaphthene | ND | 0.50 | | | | | | | | |
| Fluorene | ND | 0.50 | | | | | | | | |
| Phenanthrene | ND | 0.50 | | | | | | | | |
| Anthracene | ND | 0.50 | | | | | | | | |
| Fluoranthene | ND | 0.50 | | | | | | | | |
| Pyrene | ND | 0.50 | | | | | | | | |
| Benz(a)anthracene | ND | 0.50 | | | | | | | | |
| Chrysene | ND | 0.50 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.50 | | | | | | | | 7 |
| Benzo(k)fluoranthene | ND | 0.50 | | | | | | | | |
| Benzo(a)pyrene | ND | 0.50 | | | | | | | | |
| Dibenz(a,h)anthracene | ND | 0.50 | | | | | | | | |
| Benzo(g.h,i)perylene | ND | 0.50 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | | | | | | | |
| Surr: N-hexadecane | 62 | | 87.60 | | 70.6 | 29.9 | 83.2 | | | |
| Surr: Benzo(e)pyrene | 15 | | 20.00 | | 73.6 | 22.6 | 106 | | | |

| Sample ID Ics-16428 | SampT | ype: LC | S | Test | | | | | | |
|-----------------------|------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batch | n ID: 16 | 428 | R | tunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis D |)ate: 11 | /18/2014 | S | eqNo: 6 | 66995 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Naphthalene | 12 | 0.50 | 20.00 | 0 | 59.1 | 37.5 | 104 | | | |
| 1-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 61.0 | 39.4 | 108 | | | |
| 2-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 58.5 | 40.5 | 98.2 | | | |
| Acenaphthylene | 12 | 0.50 | 20.00 | 0 | 60.2 | 43.6 | 103 | | | |
| Acenaphthene | 12 | 0.50 | 20.00 | 0 | 61.3 | 42.1 | 104 | | | |
| Fluorene | 12 | 0.50 | 20.00 | 0 | 61.5 | 45.7 | 105 | | | |
| Phenanthrene | 12 | 0.50 | 20.00 | 0 | 58.8 | 52.6 | 104 | | | |
| Anthracene | 12 | 0.50 | 20.00 | 0 | 59.8 | 52.8 | 104 | 15 | | |
| Fluoranthene | 13 | 0.50 | 20.00 | 0 | 66.8 | 53.4 | 109 | | | |
| Pyrene | 12 | 0.50 | 20.00 | 0 | 62.3 | 44.9 | 108 | | | |
| Benz(a)anthracene | 13 | 0.50 | 20.00 | 0 | 63.2 | 45.1 | 110 | | | |
| Chrysene | 8.2 | 0.50 | 20.00 | 0 | 41.2 | 40.1 | 131 | | | |
| Benzo(b)fluoranthene | 13 | 0.50 | 20.00 | 0 | 62.8 | 49.9 | 105 | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID ics-16428 | Sampī | Type: LC | S | Tes | tCode: E | | | | | |
|-----------------------|------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batcl | h ID: 16 | 428 | F | RunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis C | Date: 11 | /18/2014 | 5 | SeqNo: 6 | 66995 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzo(k)fluoranthene | 13 | 0.50 | 20.00 | 0 | 65.3 | 49.4 | 103 | | | |
| Зепzo(а)рутепе | 13 | 0.50 | 20.00 | 0 | 62.7 | 49 | 100 | | | |
| Dibenz(a,h)anthracene | 13 | 0.50 | 20.00 | 0 | 63.7 | 52.9 | 115 | | | |
| Benzo(g,h,i)perylene | 12 | 0.50 | 20.00 | 0 | 59.4 | 43.6 | 107 | | | |
| ndeno(1,2,3-cd)pyrene | 12 | 0.50 | 20.00 | 0 | 59.0 | 47.6 | 102 | | | |
| Surr: N-hexadecane | 68 | | 87.60 | | 78.2 | 29.9 | 83.2 | | | |
| Surr: Benzo(e)pyrene | 16 | | 20.00 | | 82.0 | 22.6 | 106 | | | |

| Client ID: LCSS02 | Batch | n ID: 16 | 428 | F | RunNo: 2 | 2616 | | | | |
|------------------------|------------|----------|-----------|-------------|----------|----------|-------------|-------|----------|------|
| Prep Date: 11/18/2014 | Analysis D |)ate: 11 | 1/18/2014 | 8 | SeqNo: 6 | 66996 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | Highl.imit | %RPD | RPDLimit | Qual |
| Naphthalene | 12 | 0.50 | 20.00 | 0 | 58.9 | 37.5 | 104 | 0.339 | 20 | |
| 1-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 59.3 | 39.4 | 108 | 2.83 | 26.8 | |
| 2-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 60.4 | 40.5 | 98.2 | 3.20 | 23.8 | |
| Acenaphthylene | 12 | 0.50 | 20.00 | 0 | 58.1 | 43.6 | 103 | 3.55 | 28.6 | |
| Acenaphthene | 12 | 0.50 | 20.00 | 0 | 60.3 | 42.1 | 104 | 1.64 | 27 | |
| Fluorene | 12 | 0.50 | 20.00 | 0 | 60.3 | 45.7 | 105 | 1.97 | 25.7 | |
| Phenanthrene | 13 | 0.50 | 20.00 | 0 | 63.7 | 52.6 | 104 | 8.00 | 20 | |
| Anthracene | 13 | 0.50 | 20.00 | 0 | 64.8 | 52.8 | 104 | 8.03 | 21.2 | |
| Fluoranthene | 13 | 0.50 | 20.00 | 0 | 65.8 | 53.4 | 109 | 1.51 | 21.8 | |
| Pyrene | 13 | 0.50 | 20.00 | 0 | 64.4 | 44.9 | 108 | 3.31 | 31.1 | |
| Benz(a)anthracene | 13 | 0.50 | 20.00 | 0 | 62.6 | 45.1 | 110 | 0.954 | 26.6 | |
| Chrysene | 8.6 | 0.50 | 20.00 | 0 | 43.2 | 40.1 | 131 | 4.74 | 21.2 | |
| Benzo(b)fluoranthene | 13 | 0.50 | 20.00 | 0 | 65.9 | 49.9 | 105 | 4.82 | 20 | |
| Benzo(k)fluoranthene | 14 | 0.50 | 20.00 | 0 | 72.0 | 49.4 | 103 | 9.82 | 21 | |
| Benzo(a)pyrene | 13 | 0.50 | 20.00 | 0 | 66.2 | 49 | 100 | 5.43 | 24.8 | |
| Dibenz(a,h)anthracene | 13 | 0.50 | 20.00 | 0 | 65.0 | 52.9 | 115 | 2.02 | 26 | |
| Benzo(g,h,i)perylene | 13 | 0.50 | 20.00 | 0 | 63.2 | 43.6 | 107 | 6.20 | 20 | |
| Indeno(1,2,3-cd)pyrene | 13 | 0.50 | 20.00 | 0 | 63.2 | 47.6 | 102 | 6.87 | 20 | |
| Surr. N-hexadecane | 59 | | 87.60 | | 67.1 | 29.9 | 83.2 | 0 | 0 | |
| Surr: Benzo(e)pyrene | 14 | | 20.00 | | 67.5 | 22.6 | 106 | 0 | 0 | |
| 2.00 | | | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Analysis Date: 11/20/2014

20

80.00

81

| Project: | GBR Annual Sampling | | | |
|---------------------------|---------------------------|---------------------------|-------------------|---------------|
| Sample ID mb-1 | SampType: MBLK | TestCode: SM2320B; All | kalinity | |
| Client ID: PBW | Batch ID: R22708 | RunNo: 22708 | | |
| Prep Date: | Analysis Date: 11/20/2014 | SeqNo: 669700 | Units: mg/L CaCO3 | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Total Alkalinity (as CaCO | 3) ND 20 | | | |
| Sample ID lcs-1 | SampType: LCS | TestCode: SM2320B: All | kalinity | |
| Client ID: LCSW | Batch ID: R22708 | RunNo: 22708 | | |
| Prep Date: | Analysis Date: 11/20/2014 | SeqNo: 669701 | Units: mg/L CaCO3 | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| Total Alkalinity (as CaCO | 3) 79 20 80.00 | 0 99.2 90 | 110 | |
| Sample ID mb-2 | SampType: MBLK | TestCode: SM2320B: All | kalinity | |
| Client ID: PBW | Batch ID: R22708 | RunNo: 22708 | | |
| Prep Date: | Analysis Date: 11/20/2014 | SeqNo: 669724 | Units: mg/L CaCO3 | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit %RPD | RPDLimit Qual |
| otal Alkalinity (as CaCO | 3) ND 20 | | | |
| Sample ID Ics-2 | SampType: LCS | TestCode: SM2320B: All | kalinity | |
| | | | 17 | |

SPK value SPK Ref Val %REC LowLimit

SeqNo: 669725

101

Units: mg/L CaCO3

110

%RPD

RPDLimit

Qual

HighLimit

90

| Qua | | i | ĺ | i | C | ľ | S | |
|-----|--|---|---|---|---|---|---|--|
|-----|--|---|---|---|---|---|---|--|

Prep Date:

Total Alkalinity (as CaCO3)

Analyte

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- J Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
 - Sample pH greater than 2.
- Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411545

10-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

Analyte

GBR Annual Sampling

Sample ID MB-16440

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID:

PBW

Batch ID: 16440

PQL

RunNo: 22645

Prep Date: 11/18/2014

Result

Result

995

Analysis Date: 11/19/2014

SeqNo: 667787

Units: mg/L HighLimit

%RPD **RPDLimit**

Qual

Total Dissolved Solids

ND 20.0

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW

Batch ID: 16440

RunNo: 22645

Units: mg/L

Prep Date: 11/18/2014

Sample ID LCS-16440

Analysis Date: 11/19/2014

SeqNo: 667788

HighLimit

SPK value SPK Ref Val PQL

99.5

%RPD

RPDLimit

Qual

1000

%REC

LowLimit

120

Total Dissolved Solids

20.0

SPK value SPK Ref Val %REC

Qualifiers:

Value exceeds Maximum Contaminant Level

Е Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit

Sample pH greater than 2. P

Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105

TEL: 505-345-3975 FAX: 505-345-410; Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: Western Refining Southw Western Refining Southw | ork Order Number: 14115 | 545 | | RcptNo: 1 |
|--|---------------------------|-------------------------|----------|-------------------------|
| Received by/date | 14/14 | | | |
| Logged By: Ashley Gallegos 11/14 | 4/2014 7:10:00 AM | 5 | A P | |
| Completed By: Ashley Gallegos 11/14 | 4/2014 9:33:46 AM | 5 | A | |
| Reviewed By: | 4/2014 | | | |
| Chain of Custody | | | | |
| 1. Custody seals intact on sample bottles? | Yes | | No 🗆 | Not Present 🗹 |
| 2. Is Chain of Custody complete? | Yes | \checkmark | No 🗀 | Not Present |
| 3. How was the sample delivered? | Cour | <u>rier</u> | | |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes | | No 🗆 | NA 🗆 |
| 5. Were all samples received at a temperature of > | 0° C to 6.0°C Yes | $\overline{\mathbf{Z}}$ | No 🗆 | NA 🗆 |
| 6. Sample(s) in proper container(s)? | Yes | | No 🗆 | |
| 7. Sufficient sample volume for indicated test(s)? | Yes | ₽ | No 🗆 | / |
| 8. Are samples (except VOA and ONG) properly pre | served? -Yas - | <u> </u> | No 🗓 | |
| 9. Was preservative added to bottles? | Yes | (I) | No 🛂 | NA 🗆 |
| METALS ANALYSIS! Apoed Iml | HNOSTO -OC | 751 | DOS GA | DR ACCEPTABLE PT |
| 11. Were any sample containers received broken? | Yes | | No 🗹 | # of preserved AFTEIZ |
| 40 - | Yes | | No 🗆 | bottles checked for pH: |
| 12.Does paperwork match bottle labels? (Note discrepancies on chain of custody) | tes | Y | 140 | (<2 or >12 µnless no |
| 13. Are matrices correctly identified on Chain of Cust | ody? Yes | \checkmark | No 🗆 | Adjusted? ES |
| 14. Is it clear what analyses were requested? | Yes | - | No 🔲 | N-K- |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes | V | No 🗆 | Checked by: |
| Special Handling (if applicable) | | | | • |
| 16. Was client notified of all discrepancies with this o | rder? Yes | | No 🗆 | NA 🗹 |
| Person Notified: | Date: | | | _ |
| By Whom: | Via: 🗆 eM | ail Pho | ne 🗌 Fax | In Person |
| Regarding: | | | | |
| Client Instructions: | | | | |
| 17. Additional remarks: | | | | |
| 18. Cooler Information Cooler No Temp °C Condition Seal In | tact Seal No Seal D | ate S | igned By | |

| STACE Project Name: (1) Project Name: (1) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project Name: (9) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project Name: (9) Project Name: (1) Project Name: (1) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project Name: (9) Project Name: (1) Project Name: (1) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project Name: (9) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project Name: (8) Project Name: (8) Project Name: (9) Project Name: (9) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (6) Project Name: (8) Project Name: (8) Project Name: (9) Project Name: (9) Project Name: (1) Project Name: (2) Project Name: (3) Project Name: (4) Project Name: (5) Project Name: (6) Project Name: (7) Project Name: (8) Project | Chain-of-Custody Record | E | l r | | | | I | ¥: | | Z | H. | O | ME | HALL ENVIRONMENTAL | ٠, ١ |
|--|-------------------------|------------------|------------|-------------|-------|--------------|---------|--------|----------|-------|------------------|-------|-------|--------------------|-------------|
| Container Project # Project Project # Project Project # Project # Project # Project # Project # Project | | 9 | □ Rush | | | | 4 | Z | בֻ | SIS | | NB(| 2 | TOF | 2 |
| STACK Project #: Project Manager: Project Manager: Project Manager: Project Manager: Project Manager: Mana | | 928 A. | | | | 3 | | www. | hellen | viron | nonta | 8 | 07400 | | |
| Project Manager: Sample: David Library Dect Manager: Project Manager: Dect Manager: | M STIR | Project #: | - 1 | 200 | ű F | | 1377KII | 30 SU | ξ | Fax | alque, 505-34 | 45.41 | 207 | | |
| Project Manager: | | 5 P 10 | 29 | 6da | | | | | Ana | ysis | Requ | est | | | |
| Sample-Lance Manufacture | | Project Manager: | | | | - | | | | (10 | | - | | | |
| Sampler David Wilder W | ull Validation) | | Gek | | - | Ben | | | | s'tod | PCB's | _ | | | |
| Sample Temperature Sample Temperature Sample Temperature Sample Temperature Sample Temperature Sample Temperature Container Type and # Type Type And # Type BTEX + MTBE + Type Medials RORA 8 Media | - | 결 | ni Ben | - | | | | | (H) | 3'NO | 2808 / | | | | (N 1 |
| Type and # Type Left Log | | Tem | | | | | | | _ | | | | | | o Y) |
| 7 | | | U. V. DET | 10 | | | | | | | | | | | Air Bubbles |
| 7 -002 -004 -004 -006 -006 -006 -006 -007 -007 -007 -007 | | | | | | | | | | | | | X | | |
| 7 -003 -004 -006 -006 -006 Received by: Date Time Received by: Date Time | 15 | | | -002 | | | | | | | | | - | | |
| 1 | 4B R-57 | | | -003 | | | | | | | 172/10 | | 9911 | | |
| Received by: | 46 | | | h00- | | | | | _ | | - | | 3 | | |
| 1000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -00000 -0000 -0000 -0000 -0000 -0000 -0000 -0000 -00000 -00 | 30 | | | -005 | | | | | | | | 770 | | | |
| 1 | 33 | | | -000 | | | - 2 | | - | | | 230 | 3 | | |
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| | | | | | - | - | | | | | | + | | | |
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| | | | | | | | | | \dashv | | | - | - | | |
| Received by. Til | (| Received by: | The United | Time 1,20 | Remar | <u> </u> | | | | | | | | | |
| | 2 | Received by: | Pate 1 | 150 | | | | | | | | | | | |

TABLE 1

2012 SAMPLING SCHEDULE FORMER GIANT BLOOMFIELD REFINERY **WESTERN REFINING**

| Sample ID | ANNUALLY (Jan) | Notes: |
|------------------|----------------|----------------|
| | VOC | VOC |
| System Influent | GWC | method 8260 |
| | VOC | |
| | GWC | PAH |
| System Efficient | METALS ^ | method \$270 |
| | PAH | _ |
| | VOC | GWC |
| GRW-3 | GWC - | pН |
| 02611-0 | PAH | EC |
| | VOC | TDS ' |
| GRW-6 | GWC ** | alkalinity |
| GRW | PAH | berdness |
| | VOC | anions |
| GBR-17 | GWC - | bromid |
| UDD-17 | PAH | chlorid |
| | VOC | sulfat |
| GBR-24D | GWC | fluorid |
| GBR-24D | PAH | nitrato/nitrit |
| | VOC | phosporu |
| GBR-30 | GWC | cations |
| GDK-30 | PAH | calciu |
| | VOC | iro |
| GBR-31 | GWC | magnesiu |
| GDWOI | PAH | (mengane) |
| (4) | 7100 | potassiu |
| GBR-32 | 15 DC GWC | şodiu |
| GDIT-ON | METALS | |
| | VOC | Metals |
| GBR-48 | GWC * | barlum |
| (IDI(-IO | METALS | beryllium |
| | VOC | cadmium |
| GBR-49 | GWC. | chromiun |
| GDI(-4) | METALS | copper |
| | VOC | lead |
| GBR-50 | GWC- | nickel |
| GHIC-30 | METALS | silver |
| | VOC. | zinc |
| GBR-51 | GWC | antimony - |
| (2) | VOC | arsenic |
| GBR-52 | GMC. | ectonium |
| | VOC | thallium |
| SH3-8 | OWC ' | mercury |

1/14



Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87109 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

December 11, 2014

Ashley Ager Western Refining Southwest, Inc. #50 CR 4990

Bloomfield, NM 87413 TEL: (970) 946-1093

FAX

RE: GBR Annual Sampling

OrderNo.: 1411608

Dear Ashley Ager:

Hall Environmental Analysis Laboratory received 8 sample(s) on 11/15/2014 for the analyses presented in the following report.

These were analyzed according to EPA procedures or equivalent. To access our accredited tests please go to www.hallenvironmental.com or the state specific web sites. In order to properly interpret your results it is imperative that you review this report in its entirety. See the sample checklist and/or the Chain of Custody for information regarding the sample receipt temperature and preservation. Data qualifiers or a narrative will be provided if the sample analysis or analytical quality control parameters require a flag. When necessary, data qualifers are provided on both the sample analysis report and the QC summary report, both sections should be reviewed. All samples are reported, as received, unless otherwise indicated. Lab measurement of analytes considered field parameters that require analysis within 15 minutes of sampling such as pH and residual chlorine are qualified as being analyzed outside of the recommended holding time.

Please don't hesitate to contact HEAL for any additional information or clarifications.

ADHS Cert #AZ0682 -- NMED-DWB Cert #NM9425 -- NMED-Micro Cert #NM0190

Sincerely,

Andy Freeman

Laboratory Manager

andel

4901 Hawkins NE

Albuquerque, NM 87109

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

Client Sample ID: GBR-31

Project: GBR Annual Sampling

CLIENT: Western Refining Southwest, Inc.

Collection Date: 11/14/2014 9:11:00 AM

Lab ID: 1411608-001

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-----------|------|-------|-----|-----------------------|-----------------|
| EPA METHOD 300.0: ANIONS | | | | | | Analys | st: LGP |
| Fluoride | 0.55 | 0.10 | | mg/L | 1. | 11/17/2014 11:35:15 | PM R22603 |
| Chloride | 230 | 10 | | mg/L | 20 | 11/17/2014 11:47:39 | PM R22603 |
| Bromide | 0.66 | 0.10 | | mg/L | 1 | 11/17/2014 11:35:15 | PM R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 | 11/17/2014 11:47:39 [| PM R22603 |
| Sulfate | 1500 | 50 | * | mg/L | 100 | 11/26/2014 10:03:58 I | PM R22848 |
| Nitrate+Nitrite as N | 2.3 | 1.0 | | mg/L | 5 | 11/26/2014 6:58:12 A | M R22809 |
| EPA METHOD 200.7: METALS | | | | | | Analys | st: JLF |
| Calcium | 430 | 5.0 | | mg/L | 5 | 11/25/2014 4:35:09 P | M 16543 |
| Iron | 12 | 0.40 | * | mg/L | 20 | 11/25/2014 5:26:50 P | M 16543 |
| Magnesium | 42 | 1.0 | } | mg/L | 1 | 11/25/2014 4:33:23 P | M 16543 |
| Manganese | 1.6 | 0.010 | * | mg/L | 5 | 11/25/2014 4:35:09 P | M 16543 |
| Potassium | 4.6 | 1,0 | | mg/L | 1 | 11/25/2014 4:33:23 P | M 16543 |
| Sodium | 530 | 20 | | mg/L | 20 | 11/25/2014 5:26:50 P | M 16543 |
| SM2340B: HARDNESS | | | | | | Analys | st JLF |
| Hardness (As CaCO3) | 1200 | 6.6 | | mg/L | 1 | 11/25/2014 3:17:00 P | M R22794 |
| EPA METHOD 8270C: PAHS | | | | | | Analys | st: DAM |
| Naphthalene | ND | 0.50 | | µg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| 1-Methylnaphthalene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| 2-Methylnaphthalene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Acenaphthylene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Acenaphthene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Fluorene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Phenanthrene | NĐ | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Anthracene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Fluoranthene | ND | 0.50 | 0 | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Pyrene | ND | 0.50 | 1 | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Benz(a)anthracene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Chrysene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | 1 | µg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | } | µg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Benzo(a)pyrene | ND | 0.50 |) | µg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Dibenz(a,h)anthracene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Benzo(g,h,i)perylene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 |) | μg/L | 1 | 11/18/2014 6:08:20 P | M 16428 |
| Surr: N-hexadecane | 64.7 | 29.9-83.2 | : | %REC | 1 | 11/18/2014 6 08:20 P | M 16428 |
| Surr: Benzo(e)pyrene | 65.1 | 22.6-106 | } | %REC | 1 | 11/18/2014 6:08:20 P | M 16428 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | st: KJ H |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page I of 49

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411608-001

Client Sample ID: GBR-31

Collection Date: 11/14/2014 9:11:00 AM

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF Date Analyzed | l Batch |
|--------------------------------|--------|-------|----------|-------------------|----------------|
| EPA METHOD 8260B: VOLATILES | | | | A | nalyst: KJH |
| Benzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Toluene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Ethylbenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Naphthalene | ND | 2.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 1-Methylnaphthalene | ND | 4.0 | µg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Acetone | ND | 10 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Bromobenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Bromodichloromethane | ND | 1,0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Bromoform | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Bromomethane | ND | 3.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 2-Butanone | ND | 10 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Carbon disulfide | ND | 10 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Carbon Tetrachloride | ND | 1.0 | µg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| Chloroethane | ND | 2.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Chloroform | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Chioromethane | ND | 3.0 | μg/L | 1 11/20/2014 7:31 | 26 PM R2268 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Dibromomethane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,4-Dichlorobenzene | ND | 1.0 | µg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 11/20/2014 7:31 | :26 PM R2268 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 2 of 49

- P Sample pH greater than 2
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-31

Project: GBR Annual Sampling

Collection Date: 11/14/2014 9:11:00 AM

Lab ID: 1411608-001

Matrix: AQUEOUS Received Date: 1

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|------------------------|----|-----------------------|-------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | КЈН |
| 1,1-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Hexachlorobutadiene | ND | 1.0 | | µg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 2-Hexanone | ND | 10 | | µg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Isopropylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 4-Isopropyltoluene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Methylene Chloride | ND | 3.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| n-Butylbenzene | ND | 3.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| sec-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Styrene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| tert-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | μ g/ Ι <u>.</u> | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μ g/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Tetrachloroethene (PCE) | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Trichlorofluoromethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| 1,2,3-Trichtoropropane | ND | 2.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Surr: 1,2-Dichloroethane-d4 | 102 | 70-130 | | %REC | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Surr: 4-Bromofluorobenzene | 94.1 | 70-130 | | %REC | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Surr: Dibromofluoromethane | 98.8 | 70-130 | | %REC | 1 | 11/20/2014 7:31:26 PM | R2268 |
| Surr: Toluene-d8 | 99.2 | 70-130 | | %REC | 1 | 11/20/2014 7:31:26 PM | R2268 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst: | JRR |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 11/20/2014 3:41:59 PM | R2270 |
| SM4500-H+B; PH | | | | | | Analyst: | JRR |
| pH | 7.42 | 1.68 | Н | pH units | 1 | 11/20/2014 3:41:59 PM | R2270 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 260 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3:41:59 PM | R2270 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 3:41:59 PM | R2270 |
| Total Alkalinity (as CaCO3) | 260 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3:41:59 PM | R2270 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 3 of 49

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-31

Project: GBR Annual Sampling

Collection Date: 11/14/2014 9:11:00 AM

Lab ID: 1411608-001

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qual Units | DF Date Analyzed | Batch |
|---------------------------|------------|---------------|------------------------|----------|
| SM2540C MOD: TOTAL DISSOL | VED SOLIDS | | Analy | st: KS |
| Total Dissolved Solids | 3100 | 100 * mg/L | 1 11/21/2014 6:33:00 F | PM 16496 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 4 of 49

- P Sample pH greater than 2;
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-30

Project: GBR Annual Sampling

Collection Date: 11/14/2014 10:05:00 AM

Lab ID: 1411608-002

Matrix: AQUEOUS

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Q | ual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-----------|-----|-------|----|-------------------------|-----------|
| EPA METHOD 300.0; ANIONS | | | | | | Analys | st: LGP |
| Fluoride | 0.46 | 0.10 | | mg/L | 1 | 11/18/2014 12:00:04 / | M R22603 |
| Chloride | 270 | 10 | * | mg/L | 20 | 11/18/2014 12:12:29 / | M R22603 |
| Bromide | 0.74 | 0.10 | | mg/L | 1 | 11/18/2014 12:00:04 / | M R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 | 11/18/2014 12:12:29 / | M R22603 |
| Sulfate | 1400 | 25 | * | mg/L | 50 | 11/26/2014 10:16:23 F | PM R22848 |
| Nitrate+Nitrite as N | 7.8 | 1.0 | | mg/L | 5 | 11/26/2014 7:10:37 AI | M R22809 |
| EPA METHOD 200.7: METALS | | | | | | Analys | t JLF |
| Calcium | 440 | 5.0 | | mg/L | 5 | 11/25/2014 4:38:54 PI | VI 16543 |
| Iron | 88 | 2.0 | * | mg/L | 10 | D 11/25/2014 5:28:44 PI | M 16543 |
| Magnesium | 45 | 1:0 | | mg/L | 1 | 11/25/2014 4:37:09 PI | M 16543 |
| Manganese | 2.2 | 0.010 | * | mg/L | 5 | 11/25/2014 4:38:54 PI | M 16543 |
| Potassium | 12 | 1.0 | | mg/L | 1 | 11/25/2014 4:37:09 PI | M 16543 |
| Sodium | 360 | 5.0 | | mg/L | 5 | 11/25/2014 4:38:54 PI | M 16543 |
| SM2340B: HARDNESS | | | | | | Analys | t JLF |
| Hardness (As CaCO3) | 1300 | 6.6 | | mg/L | 1 | 11/25/2014 3:17:00 PI | M R22794 |
| EPA METHOD 8270C: PAHS | | | | | | Analys | t: DAM |
| Naphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| 1-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| 2-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Acenaphthylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Acenaphthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Fluorene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Phenanthrene | ND | 0.50 | | µg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Benz(a)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Chrysene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | | µg/L | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| Benzo(a)pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Dibenz(a,h)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Benzo(g.h.i)perylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | µg/L | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Surr: N-hexadecane | 66.1 | 29.9-83.2 | | %REC | 1 | 11/18/2014 4:12:35 PI | VI 16428 |
| Sur: Benzo(e)pyrene | 66.8 | 22.6-106 | | %REC | 1 | 11/18/2014 4:12:35 PI | M 16428 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analys | st: KJH |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-30

Project: GBR Annual Sampling

Collection Date: 11/14/2014 10:05:00 AM

Lab ID: 1411608-002

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| EPA METHOD 8260B: VOLATILES Benzene ND 1.0 μg/L Toluene ND 1.0 μg/L | . 1 11/20/2014 8:01:23 PM R2268 . 1 11/20/2014 8:01:23 PM R2268 |
|---|--|
| Toluene ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 1 11/20/2014 8:01:23 PM R2268 |
| | . 1 11/20/2014 8:01:23 PM R2268 |
| Ethallia and an | |
| Ethylbenzene ND 1.0 μg/L | |
| Methyl tert-butyl ether (MTBE) ND 1.0 µg/L | . I IIIZUIZUI4 0.UI.Z3 FWI RZZ00 |
| 1,2,4-Trimethylbenzene ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| 1,3,5-Trimethylbenzene ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| 1,2-Dichloroethane (EDC) ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,2-Dibromoethane (EDB) ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Naphthalene ND 2.0 μg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| 1-Methylnaphthalene ND 4.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| 2-Methylnaphthalene ND 4.0 μg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Acetone ND 10 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Bromobenzene ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Bromodichloromethane ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Bromoform ND 1.0 µg/L | . 1 11/20/2014 8:01:23 PM R2268 |
| Bromomethane ND 3.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 2-Butanone ND 10 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Carbon disulfide ND 10 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Carbon Tetrachloride ND 1.0 µg/L | |
| Chlorobenzene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Chloroethane ND 2.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Chloroform ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Chloromethane ND 3.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 2-Chlorotoluene ND 1.0 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 4-Chlorotoluene ND 1.0 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| cis-1,2-DCE ND 1.0 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| cis-1,3-Dichloropropene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,2-Dibromo-3-chloropropane ND 2.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Dibromochloromethane ND 1.0 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Dibromomethane ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,2-Dichlorobenzene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,3-Dichlorobenzene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,4-Dichlorobenzene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| Dichlorodifluoromethane ND 1.0 μg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,1-Dichloroethane ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,1-Dichloroethene ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,2-Dichloropropane ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 1,3-Dichloropropane ND 1.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |
| 2,2-Dichloropropane ND 2.0 µg/L | 1 11/20/2014 8:01:23 PM R2268 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

Page 6 of 49

- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc. Date Reported: 12/11/2014

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-30

Project: GBR Annual Sampling Collection Date: 11/14/2014 10:05:00 AM

Lab ID: 1411608-002 Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|---------------|----|-----------------------|-------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | КЈН |
| 1,1-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Hexachlorobutadiene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 2-Hexanone | ND | 10 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Isopropylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 4-isopropyltoluene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8 01:23 PM | R2268 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/20/2014 8 01:23 PM | R2268 |
| Methylene Chloride | ND | 3.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| n-Butylbenzene | ND | 3.0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| n-Propylbenzene | ND | 1,0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Styrene | ND | 1,0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| tert-Butylbenzene | ND | 1,0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,1,1,2-Tetrachloroethane | ND | 1,0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,1,2,2-Tetrachloroethane | ND | 2,0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Tetrachioroethene (PCE) | ND | 1,0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| trans-1,3-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8 01:23 PM | R2268 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Trichloroethene (TCE) | ND | 1,0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Trichlorofluoromethane | ND | 1.0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| 1,2,3-Trichloropropane | ND | 2.0 | | µg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Xylenes, Total | ND | 1.5 | | μ g/ L | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Surr: 1,2-Dichloroethane-d4 | 101 | 70-130 | | %REC | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Surr: 4-Bromofluorobenzene | 94.5 | 70-130 | | %REC | 1 | 11/20/2014 8:01:23 PM | |
| Surr: Dibromofluoromethane | 97.7 | 70-130 | | %REC | 1 | 11/20/2014 8:01:23 PM | R2268 |
| Surr: Toluene-d8 | 98.7 | 70-130 | | %REC | 1 | 11/20/2014 8:01:23 PM | R2268 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| Conductivity | 2800 | 0.010 | | µmhos/cm | 1 | 11/20/2014 3:59:23 PM | R2270 |
| SM4500-H+B: PH | | | | | | Analyst | JRR |
| pН | 7.30 | 1.68 | Н | pH units | 1 | 11/20/2014 3:59 23 PM | R2270 |
| SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| Bicarbonate (As CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3:59:23 PM | R2270 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 3:59:23 PM | R2270 |
| Total Alkalinity (as CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 3:59:23 PM | R2270 |
| (2) | | | 50 L | _ | | | |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2
- RL Reporting Detection Limit

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc. **GBR Annual Sampling**

1411608-002 Lab ID:

Project:

Client Sample ID: GBR-30

Collection Date: 11/14/2014 10:05:00 AM

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qual Units | DF Date Analyzed | Batch |
|--------------------------|--------------|---------------|------------------------|----------|
| SM2540C MOD: TOTAL DISSO |)LVED SOLIDS | | Analy | /st: KS |
| Total Dissolved Solids | 2520 | 200 * mg/L | 1 11/21/2014 6:33:00 F | PM 16496 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- 0 RSD is greater than RSDlimit
- RPD outside accepted recovery limits R
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

Page 8 of 49

- Sample pH greater than 2:
- Reporting Detection Limit RL

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-24D

Project: GBR Annual Sampling

Collection Date: 11/14/2014 10:55:00 AM

Lab ID: 1411608-003

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF Date Analyzed Bate | ch |
|-----------------------------------|--------|-----------|------|---------------|--------------------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: LGF | — Р |
| Fluoride | 0.91 | 0,10 | ı | mg/L | 1 11/18/2014 12:24:54 AM R22 | 2603 |
| Chloride | 210 | 10 | ı | mg/L | 20 11/18/2014 12:37:18 AM R22 | 2603 |
| Bromide | 0.82 | 0.10 | 1 | mg/L | 1 11/18/2014 12:24:54 AM R22 | 2603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 11/18/2014 12:37:18 AM R22 | 2603 |
| Sulfate | 1800 | 50 | * | mg/L | 100 11/26/2014 10:28:47 PM R22 | 2848 |
| Nitrate+Nitrite as N | ND | 1.0 | 1 | mg/L | 5 11/26/2014 7:23:01 AM R22 | 2809 |
| EPA METHOD 200.7: METALS | | | | | Analyst: JLF | F |
| Calcium | 440 | 5.0 | l | mg/L | 5 11/25/2014 4:49:06 PM 165 | i43 |
| Iron | 12 | 0.40 | * | mg/L | 20 12/1/2014 5:04:08 PM 165 | 43 |
| Magnesium | 40 | 1.0 | 1 | mg/L | 1 11/25/2014 4:47:28 PM 165 | 43 |
| Manganese | 1.7 | 0.010 | • | mg/L | 5 11/25/2014 4:49:06 PM 165 | 43 |
| Potassium | 9.3 | 1.0 | 1 | mg/L | 1 11/25/2014 4:47:28 PM 165 | 43 |
| Sodium | 600 | 20 |) | mg/L | 20 12/1/2014 5:04:08 PM 165 | 43 |
| SM2340B: HARDNESS | | | | | Analyst: JLF | F |
| Hardness (As CaCO3) | 1300 | 6.6 | i | mg/L | 1 11/25/2014 3:17:00 PM R22 | 2794 |
| EPA METHOD 8270C: PAHS | | | | | Analyst: DAI | M |
| Naphthalene | ND | 0.50 |) | μ g/ L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| 1-Methylnaphthalene | ND | 0.50 |) | µg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| 2-Methylnaphthalene | ND | 0.50 |) | µg/է. | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Acenaphthylene | ND | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Acenaphthene | ND | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Fluorene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35;44 PM 164 | 28 |
| Phenanthrene | ND | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Anthracene | ND | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Fluoranthene | ND | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Pyrene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Benz(a)anthracene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Chrysene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Benzo(b)fluoranthene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Benzo(k)fluoranthene | ND | 0.50 | 1 | μg/L | 1 11/18/2014 4:35:44 PM 164 | 28 |
| Benzo(a)pyrene | ND | 0.50 | } | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Dibenz(a,h)anthracene | NĐ | 0.50 | } | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Benzo(g,h,i)perylene | NĐ | 0.50 | } | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Indeno(1,2,3-cd)pyrene | NĐ | 0.50 |) | μg/L | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Surr: N-hexadecane | 74.5 | 29.9-83.2 | | %REC | 1 11/18/2014 4:35:44 PM 164 | 128 |
| Surr: Benzo(e)pyrene | 69.1 | 22.6-106 | i | %REC | 1 11/18/2014 4:35:44 PM 164 | 128 |
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: KJI | Н |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-24D

Project: **GBR Annual Sampling** Collection Date: 11/14/2014 10:55:00 AM

Lab ID: 1411608-003 Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-------|------------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| Benzene | ND | 1,0 | μg/L_ | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Toluene | ND | 1.0 | µg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Acetone | ND | 10 | μg/L | 1 | 11/20/2014 8 31:19 PM | R2268 |
| Bromobenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Bromodichloromethane | ND | 1.0 | µg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Carbon Tetrachioride | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Chloromethane | NĐ | 3.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| cis-1,2-DCE | ND | 1.0 | µg/L | 1 | 11/20/2014 8:31:19 PM | R2268 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22688 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Dibromomethane | ND | 1.0 | μg/ L | 1 | 11/20/2014 8:31:19 PM | R22688 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411608-003

Client Sample 1D: GBR-24D

Collection Date: 11/14/2014 10:55:00 AM

Received Date: 11/15/2014 10:00:00 AM

| Page | Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|--|-------------------------------|--------|--------|------|--------------|----|-----------------------|--------|
| Hexachlorobutadilene | EPA METHOD 8260B: VOLATILES | | | | | | Analyst: | KJH |
| 2-Hexanone | 1,1-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Isopropylbenzene | Hexachlorobutadiene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 4-Isopropylloluene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ 4-Methyl-2-pentanone ND 10 μg/L 1 11/20/2014 8:31:19 PM R226/ Methylene Chloride ND 3.0 μg/L 1 11/20/2014 8:31:19 PM R226/ n-Butylbenzene ND 3.0 μg/L 1 11/20/2014 8:31:19 PM R226/ n-Butylbenzene ND 3.0 μg/L 1 11/20/2014 8:31:19 PM R226/ n-Propylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Styrene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Styrene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Styrene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itel-Butylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itel-Butylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itel-Butylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itel-Butylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itel-Butylbenzene ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Iters-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Dichloroperopene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/ Itrans-1,3-Tichloropethane ND 1.0 μg/L 1 11/20/2014 8:31:1 | 2-Hexanone | ND | 10 | | μ g/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 4-Methyl-2-pentanone ND 10 μg/L 1 11/20/2014 8:31:19 PM R226/8 Methylene Chloride ND 3.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 n-Butylbenzene ND 3.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 n-Propylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 see-Butylbenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 Styrene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 Styrene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 1.1,2,2-Tetrachloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 1.1,2,2-Tetrachloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 Irans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/8 Irans-1,2-Trichlorobenzene | Isopropylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Methylene Chloride | 4-Isopropyitoluene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Description | 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Propylbenzene | Methylene Chloride | ND | 3.0 | | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Sec-Butylbenzene | n-Butylbenzene | ND | 3.0 | | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Styrene | n-Propylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2,2-Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-DCE ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,4-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,1-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,1,2-Tichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R2268 1,2,3-Tichloropthane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT 1,2-Dichloroethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 99.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 99.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2268 SMIT Dibromofluorobenzene 90.0 70-130 %REC 1 11/20/2014 8:31:1 | sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1,1,2-Tetrachloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2,2-Tetrachloroethane ND 2.0 yg/L 1 11/20/2014 8:31:19 PM R226i Tetrachloroethane (PCE) ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i trans-1,2-DCE ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i trans-1,3-Dichloropropene ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i trans-1,3-Dichloropropene ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichlorobenzene ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane ND 1.0 yg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane-d4 ND 1.5 yg/L Surr: 1,2-Dichloroethane-d4 ND 1.5 yg/L Surr: 1,2-Dichloroethane-d4 ND 1.5 yg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 ND 1.5 yg/L Surr: 1,2-Dichloroethane-d4 ND 1.7 yg/L Surri: 1,1-Dichloroethane-d4 ND 1.7 yg/L Surri: 1,1-Dichloroethane-d4 ND 1 | Styrene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1,2,2-Tetrachloroethane ND 2.0 | tert-Butylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Tetrachloroethene (PCE) ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloropropane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 μg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 1-Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 8:31:19 PM R226i SM2520B: ALKALINITY Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) | 1,1,1,2-Tetrachloroethane | ND | 1.0 | | µg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane (TCE) ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Trichloroptopane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Viryl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Xylenes, Total ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethan | 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 8:31:19 PM R226i Vinyl chloride ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i Xylenes, Total ND 1.5 µg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR PM PM 7.83 1.68 H PH units 1 11/20/2014 4:11:22 PM R227i SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) | Tetrachloroethene (PCE) | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane (TCE) ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 8:31:19 PM R226i Vinyl chloride ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i Vinyl chloride ND 1.0 µg/L 1 11/20/2014 8:31:19 PM R226i Xylenes, Total ND 1.5 µg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toliuene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toliuene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toliuene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE | trans-1,2-DCE | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Trichloroethane (TCE) ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R226i Vinyl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Conductivity Analyst: JRR PH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R227i SM2320B: ALKALINITY Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227i Carbonate (As CaCO3) 1 11/20/2014 4:11:22 PM R227i | trans-1,3-Dichtoropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1,1-Trichloroethane | 1,2,3-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Trichloroethene (TCE) ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R2260 Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2260 Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2260 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2270 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 <t< td=""><td>1,2,4-Trichlorobenzene</td><td>ND</td><td>1.0</td><td></td><td>μg/L</td><td>1</td><td>11/20/2014 8:31:19 PM</td><td>R22685</td></t<> | 1,2,4-Trichlorobenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Trichloroethene (TCE) ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R226i Vinyl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226i Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R226i Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R226i Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R226i SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R227i SM2320B: ALKALINITY Analyst: JRR | 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2260 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R2260 Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2260 Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2260 Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R2260 SM2510B: SPECIFIC CONDUCTANCE Face of the properties of the proper | 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 8:31:19 PM R226/2014 chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R226/2014 chloride ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R226/2014 chloride ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R226/2014 chloride ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R226/2014 chloride needd 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 99.0 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 chlorideneedd 91.5 70-130 %REC 1 11/20/2014 4:11:22 PM R226/2014 | Trichloroethene (TCE) | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Vinyl chloride ND 1.0 μg/L 1 11/20/2014 8:31:19 PM R2266 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R2266 Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2276 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 <td>Trichlorofluoromethane</td> <td>ND</td> <td>1.0</td> <td></td> <td>μg/L</td> <td>1</td> <td>11/20/2014 8:31:19 PM</td> <td>R22685</td> | Trichlorofluoromethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Xylenes, Total ND 1.5 μg/L 1 11/20/2014 8:31:19 PM R2266 Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2276 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) </td <td>1,2,3-Trichloropropane</td> <td>ND</td> <td>2.0</td> <td></td> <td>μg/L</td> <td>1</td> <td>11/20/2014 8:31:19 PM</td> <td>R22685</td> | 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Surr: 1,2-Dichloroethane-d4 97.9 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2276 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | Vinyl chloride | ND | 1.0 | | | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Sum: 4-Bromofluorobenzene 98.8 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Sum: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 Sum: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R2266 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2276 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Sum: Dibromofluoromethane 90.0 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2015 R22 | Surr: 1,2-Dichloroethane-d4 | 97.9 | 70-130 | | %REC | 1 | 11/20/2014 8:31:19 PM | R22685 |
| Surr: Toluene-d8 91.5 70-130 %REC 1 11/20/2014 8:31:19 PM R226/2014 PM R226/20 | Surr: 4-Bromofluorobenzene | 98.8 | 70-130 | | %REC | 1 | 11/20/2014 8:31:19 PM | R22688 |
| SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2276 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | Surr: Dibromofluoromethane | 90.0 | 70-130 | | %REC | 1 | 11/20/2014 8:31:19 PM | R2268 |
| Conductivity 3400 0.010 μmhos/cm 1 11/20/2014 4:11:22 PM R2270 SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2270 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2270 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2270 | Surr: Toluene-d8 | 91.5 | 70-130 | | %REC | 1 | 11/20/2014 8:31:19 PM | R2268 |
| SM4500-H+B: PH Analyst: JRR pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| pH 7.83 1.68 H pH units 1 11/20/2014 4:11:22 PM R2276 SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | Conductivity | 3400 | 0.010 | | µmhos/cm | 1 | 11/20/2014 4:11:22 PM | R22708 |
| SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | SM4500-H+B: PH | | | | | | Analyst | JRR |
| Bicarbonate (As CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | pН | 7.83 | 1.68 | Н | pH units | 1 | 11/20/2014 4:11:22 PM | R22708 |
| Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 1 11/20/2014 4:11:22 PM R2276 | SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| | Bicarbonate (As CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:11:22 PM | R2270 |
| Total Alkalinity (as CaCO3) 210 20 mg/L CaCO3 1 11/20/2014 4:11:22 PM R227 | Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 4:11:22 PM | R22708 |
| | Total Alkalinity (as CaCO3) | 210 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:11:22 PM | R22708 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GBR-24D

Project: GBR Annual Sampling

Collection Date: 11/14/2014 10:55:00 AM

Lab ID: 1411608-003

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qual Units | DF Date Analyzed | Batch |
|---------------------------|------------|---------------|------------------------|----------|
| SM2540C MOD: TOTAL DISSOI | VED SOLIDS | | Analy | /st: KS |
| Total Dissolved Solids | 3410 | 100 * mg/L | 1 11/21/2014 6:33:00 F | PM 16496 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GRW-6

Project: GBR Annual Sampling

Collection Date: 11/14/2014 1:45:00 PM

Lab ID: 1411608-004

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-----------|------|-------|-----|-----------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analys | t LGP |
| Fluoride | 0.45 | 0.10 | | mg/L | 1 | 11/18/2014 12:49:43 A | M R22603 |
| Chloride | 86 | 10 | | mg/L | 20 | 11/18/2014 1:02:08 AM | R22603 |
| Bromide | 0.34 | 0.10 | | mg/L | 1 | 11/18/2014 12:49:43 A | M R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 | 11/18/2014 1:02:08 AM | R22603 |
| Sulfate | 1600 | 50 | | mg/L | 100 | 11/26/2014 10:41:12 P | M R22848 |
| Nitrate+Nitrite as N | ND | 1,0 | | mg/L | 5 | 11/26/2014 7:35:26 AM | A R22809 |
| EPA METHOD 200.7: METALS | | | | | | Analys | t JLF |
| Calcium | 420 | 10 | | mg/L | 10 | 11/25/2014 5:44:59 PM | A R22813 |
| Iron | 35 | 1.0 | • | mg/L | 50 | 11/25/2014 5:46:44 PM | A R22813 |
| Magnesium | 45 | 1.0 | | mg/L | 1 | 11/25/2014 4:29:06 PM | A R22813 |
| Manganese | 8.5 | 0.020 | * | mg/L | 10 | 11/25/2014 5:44:59 PM | A R22813 |
| Potassium | 3.4 | 1.0 | | mg/L | 1 | 11/25/2014 4:29:06 PM | A R22813 |
| Sodium | 460 | 10 | | mg/L | 10 | 11/25/2014 5:44:59 PM | A R22813 |
| SM2340B: HARDNESS | | | | | | Analys | t: JLF |
| Hardness (As CaCO3) | 1200 | 6.6 | | mg/L | 1 | 11/25/2014 1:10:00 PM | R22813 |
| EPA METHOD 8270C: PAHS | | | | | | Analys | t DAM |
| Naphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| 1-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| 2-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Acenaphthylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Acenaphthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Fluorene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Phenanthrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Benz(a)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Chrysene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Benzo(a)pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Dibenz(a,h)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Benzo(g,h,i)perylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Surr: N-hexadecane | 69.3 | 29.9-83.2 | | %REC | 1 | 11/18/2014 4:58:52 PM | 16428 |
| Surr: Benzo(e)pyrene | 73.5 | 22.6-106 | | %REC | 1 | 11/18/2014 4:58:52 PM | 16428 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analys | t: KJH |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/11/2014

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GRW-6

Project: **GBR** Annual Sampling Collection Date: 11/14/2014 1:45:00 PM

Lab ID: 1411608-004 Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Q | ual Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|------|---------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| Benzene | ND | 1,0 | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Ethylbenzene | ND | 1,0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Methyl tert-butyl ether (MTBE) | ND | 1,0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2-Dibromoethane (EDB) | ND | 1,0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Naphthalene | ND | 2.0 | μ g/ L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1-Methylnaphthalene | NĐ | 4.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Acetone | ND | 10 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Chloromethane | ND | 3.0 | μg/Ľ | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R22685 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R22685 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R22685 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,4-Dichtorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/20/2014 9:01:15 PM | R22685 |
| 2,2-Dichloropropane | ND | 2.0 | µg/L | 1 | 11/20/2014 9:01:15 PM | R22685 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range E
- Analyte detected below quantitation limits
- RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411608-004

Project:

Client Sample ID: GRW-6

Collection Date: 11/14/2014 1:45:00 PM

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|-------------------------------|--------|--------|------|---------------|----|-----------------------|-------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | КЈН |
| 1,1-Dichloropropene | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Hexachlorobutadiene | ND | 1.0 | | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 2-Hexanone | ND | 10 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Isopropylbenzene | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 4-Isopropyltoluene | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 4-Methyl-2-pentanone | ND | 10 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Methylene Chloride | ND | 3.0 | | μ g/ L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| n-Butylbenzene | ND | 3.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| n-Propylbenzene | ND | 1.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| sec-Butylbenzene | ND | 1.0 | | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Styrene | ND | 1.0 | | μg/L | 1 | 11/20/2014 9;01;15 PM | R2268 |
| tert-Butylbenzene | ND | 1.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Tetrachloroethene (PCE) | ND | 1.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| trans-1,2-DCE | ND | 1.0 | | μ g/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| trans-1,3-Dichloropropene | ND | 1,0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2,3-Trichlorobenzene | ND | 1,0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1,1-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,1,2-Trichloroethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Trichloroethene (TCE) | ND | 1.0 | | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Trichlorofluoromethane | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Xylenes, Total | ND | 1.5 | | µg/L | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Surr: 1,2-Dichloroethane-d4 | 94.1 | 70-130 | | %REC | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Surr: 4-Bromofluorobenzene | 91.2 | 70-130 | | %REC | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Surr: Dibromofluoromethane | 89.0 | 70-130 | | %REC | 1 | 11/20/2014 9:01:15 PM | R2268 |
| Surr: Toluene-d8 | 96.9 | 70-130 | | %REC | 1 | 11/20/2014 9:01:15 PM | R2268 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst: | JRR |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 11/20/2014 4:22:56 PM | R2270 |
| SM4500-H+B; PH | | | | | | Analyst: | JRR |
| pH | 7.27 | 1.68 | Н | pH units | 1 | 11/20/2014 4:22:56 PM | R2270 |
| SM2320B: ALKALINITY | | | | | | Analyst: | JRR |
| Bicarbonate (As CaCO3) | 410 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:22:56 PM | R2270 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 4:22:56 PM | R2270 |
| Total Alkalinity (as CaCO3) | 410 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:22:56 PM | R2270 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GRW-6

Project: GBR Annual Sampling

Collection Date: 11/14/2014 1:45:00 PM

Lab ID: 1411608-004

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qual Units | DF Date Analyzed Batch |
|--------------------------|-------------|---------------|-------------------------------|
| SM2540C MOD: TOTAL DISSO | LVED SOLIDS | | Analyst: KS |
| Total Dissolved Solids | 3170 | 100 * mg/L | 1 11/21/2014 6:33:00 PM 16496 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: System Influent

Project: GBR Annual Sampling

Collection Date: 11/14/2014 2:10:00 PM

Lab ID: 1411608-005

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF Date Analyzed B | Batch |
|-----------------------------------|--------|--------|------|-------|------------------------------|--------|
| EPA METHOD 300.0: ANIONS | | | | | Analyst: L | _GP |
| Fluoride | 0.85 | 0.10 | | mg/L | 1 11/18/2014 2:04:11 AM R | R22603 |
| Chloride | 83 | 10 | | mg/L | 20 11/18/2014 2:16:36 AM R | R22603 |
| Bromide | 0.33 | 0.10 | | mg/L | 1 11/18/2014 2:04:11 AM R | R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 11/18/2014 2:16:36 AM R | R22603 |
| Sulfate | 1500 | 50 | • | mg/L | 100 11/26/2014 10:53:37 PM R | R22848 |
| Nitrate+Nitrite as N | ND | 1.0 | | mg/L | 5 11/26/2014 8:25:05 AM R | R22809 |
| EPA METHOD 200.7: METALS | | | | | Analyst: J | JLF |
| Calcium | 350 | 10 | | mg/L | 10 11/25/2014 5:48:50 PM R | R22813 |
| Iron | 0.14 | 0.020 | | mg/L | 1 11/25/2014 4:30:51 PM R | R22813 |
| Magnesium | 26 | 1.0 | | mg/L | 1 11/25/2014 4:30:51 PM R | R22813 |
| Manganese | 0.70 | 0.0020 | * | mg/L | 1 11/25/2014 4:30:51 PM R | R22813 |
| Potassium | 5.6 | 1.0 | | mg/L | 1 11/25/2014 4:30:51 PM R | R22813 |
| Sodium | 540 | 10 | | mg/L | 10 11/25/2014 5:48:50 PM R | R22813 |
| SM2340B: HARDNESS | | | | | Analyst: J | JLF |
| Hardness (As CaCO3) | 990 | 6.6 | | mg/L | 1 11/25/2014 1:10:00 PM R | R22813 |
| EPA METHOD 8260B: VOLATILES | | | | | Analyst: K | KJH |
| Benzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R22685 |
| Toluene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Ethylbenzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 1,2-Dichloroethane (EDC) | NĐ | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 1,2-Dibromoethane (EDB) | NĐ | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Naphthalene | ND | 2.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 1-Methylnaphthalene | ND | 4.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 2-Methylnaphthalene | ND | 4.0 | | μg/Ł | 1 11/20/2014 9:31:15 PM R | R2268 |
| Acetone | ND | 10 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Bromobenzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Bromodichloromethane | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Bromoform | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Bromomethane | ND | 3.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| 2-Butanone | ND | 10 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Carbon disulfide | ND | 10 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Carbon Tetrachloride | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Chlorobenzene | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Chloroethane | ND | 2.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |
| Chloroform | ND | 1.0 | | μg/L | 1 11/20/2014 9:31:15 PM R | R2268 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2,
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Project: GBR Annual Sampling

Lab ID: 1411608-005

Client Sample ID: System Influent

Collection Date: 11/14/2014 2:10:00 PM

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|----------|---------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | <u>-</u> | | | Analyst | КЈН |
| Chloromethane | ND | 3.0 | րց/Լ | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| cis-1,3-Dichloropropene | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,4-Dichlorobenzene | NĐ | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,3-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Hexachlorobutadiene | ND | 1.0 | μ g/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Isopropylbenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 4-Isopropyltoluene | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Styrene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | μ g/ L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Tetrachloroethene (PCE) | NĐ | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2,3-Trichlorobenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: System Influent

Project: GBR Annual Sampling

Collection Date: 11/14/2014 2:10:00 PM

Lab ID: 1411608-005

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|--------|------|------------|----|-----------------------|--------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | : KJH |
| Trichlorofluoromethane | МĐ | 1.0 | | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Surr: 1,2-Dichloroethane-d4 | 104 | 70-130 | | %REC | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Surr: 4-Bromofluorobenzene | 94.2 | 70-130 | | %REC | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Surr: Dibromofluoromethane | 93.5 | 70-130 | | %REC | 1 | 11/20/2014 9:31:15 PM | R22685 |
| Surr: Toluene-d8 | 97.6 | 70-130 | | %REC | 1 | 11/20/2014 9:31:15 PM | R22685 |
| SM2510B: SPECIFIC CONDUCTANCE | | | | | | Analyst | JRR |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 11/20/2014 4:40:59 PM | R22708 |
| SM4500-H+B: PH | | | | | | Analyst | JRR |
| рН | 7.47 | 1.68 | Н | pH units | 1 | 11/20/2014 4:40:59 PM | R22708 |
| SM2320B: ALKALINITY | | | | | | Analyst | JRR |
| Bicarbonate (As CaCO3) | 340 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:40:59 PM | R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 4:40:59 PM | R22708 |
| Total Alkalinity (as CaCO3) | 340 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 4:40:59 PM | R22708 |
| SM2540C MOD: TOTAL DISSOLVED S | OLIDS | | | | | Analyst | : KS |
| Total Dissolved Solids | 3050 | 20.0 | | mg/L | 1 | 11/21/2014 6:33:00 PM | 16496 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level,
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GRW-3

Project: GBR Annual Sampling Collection Date: 11/14/2014 2:35:00 PM

Lab ID: 1411608-006 Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|-----------|------|-------|-----|------------------------|----------|
| EPA METHOD 300.0: ANIONS | | | | | - 1 | Analyst | LGP |
| Fluoride | 0.93 | 0.10 | 1 | mg/L | 1 | 11/18/2014 2:29:00 AM | R22603 |
| Chloride | 26 | 10 | l | mg/L | 20 | 11/18/2014 2:41:24 AM | R22603 |
| Bromide | 0.13 | 0.10 | 1 | mg/L | 1 | 11/18/2014 2:29:00 AM | R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | Н | mg/L | 20 | 11/18/2014 2:41:24 AM | R22603 |
| Sulfate | 2200 | 50 | * | mg/L | 100 | 11/26/2014 11:06:01 PM | 1 R22848 |
| Nitrate+Nitrite as N | ND | 1.0 | + | mg/L | 5 | 11/26/2014 8:37:29 AM | R22809 |
| EPA METHOD 200.7: METALS | | | | | | Analyst: | JLF |
| Calcium | 420 | 10 | + | mg/L | 10 | 11/25/2014 5:56:38 PM | R22813 |
| Iron | 0.86 | 0.020 | * | mg/L | 1 | 11/25/2014 4:38:35 PM | R22813 |
| Magnesium | 20 | 1.0 | | mg/L | 1 | 11/25/2014 4:38:35 PM | R22813 |
| Manganese | 0.44 | 0.0020 | * | mg/L | 1 | 11/25/2014 4:38:35 PM | R22813 |
| Potassium | 7.1 | 1.0 | | mg/L | 1 | 11/25/2014 4:38:35 PM | R22813 |
| Sodium | 610 | 10 | | mg/L | 10 | 11/25/2014 5:56:38 PM | R22813 |
| SM2340B: HARDNESS | | | | | | Analyst | JLF |
| Hardness (As CaCO3) | 1100 | 6.6 | | mg/L | 1 | 11/25/2014 1:10:00 PM | R22813 |
| EPA METHOD 8270C: PAHS | | | | | | Analyst | DAM |
| Naphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| 1-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| 2-Methylnaphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Acenaphthylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Acenaphthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Fluorene | ND | 0.50 | | µg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Phenanthrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Benz(a)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Chrysene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Benzo(a)pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Dibenz(a,h)anthracene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Benzo(g,h,i)perylene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Surr: N-hexadecane | 75.2 | 29.9-83.2 | | %REC | 1 | 11/18/2014 5:22:00 PM | 16428 |
| Surr: Benzo(e)pyrene | 71.0 | 22.6-106 | | %REC | 1 | 11/18/2014 5:22:00 PM | 16428 |
| EPA METHOD 8260B: VOLATILES | | | | | | Analyst | KJH |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: GRW-3

Project: GBR Annual Sampling

Collection Date: 11/14/2014 2:35:00 PM

Lab ID: 1411608-006

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF 1 | Date Analyzed | Batch |
|--------------------------------|--------|-------|----------|------|---------------------|-----------|
| EPA METHOD 8260B: VOLATILES | | | | | Anal | yst: KJH |
| Benzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Ethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Methyl tert-butyl ether (MTBE) | ND | 1,0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2,4-Trimethylbenzene | ND | 1,0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | µg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Acetone | ND | 10 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Chloroethane | ND | 2.0 | µg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Chloroform | ND | 1.0 | µg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 10:01:15 | PM R22685 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411608-006

Project:

Client Sample ID: GRW-3

Collection Date: 11/14/2014 2:35:00 PM Received Date: 11/15/2014 10:00:00 AM

Analyses Result **RL Qual Units** DF Date Analyzed Batch **EPA METHOD 8260B: VOLATILES** Analyst: KJH 1,1-Dichloropropene ND 1.0 11/20/2014 10:01:15 PM R22685 μg/L 1 Hexachlorobutadiene ND 1.0 μg/L 11/20/2014 10:01:15 PM R22685 2-Hexanone ND 10 μg/L 11/20/2014 10:01:15 PM R22685 1 Isopropylbenzene ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 4-Isopropyltoluene ND 1.0 μg/L 11/20/2014 10:01:15 PM R22685 4-Methyl-2-pentanone ND 10 μg/L 11/20/2014 10:01:15 PM R22685 Methylene Chloride ND 3.0 μg/L 11/20/2014 10:01:15 PM R22685 n-Butylbenzene ND 3.0 µg/L 1 11/20/2014 10:01:15 PM R22685 n-Propylbenzene ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 sec-Butylbenzene ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 Styrene ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 tert-Butylbenzene ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 1,1,1,2-Tetrachloroethane ND 1.0 μg/L 11/20/2014 10:01:15 PM R22685 1,1,2,2-Tetrachloroethane ND 2.0 11/20/2014 10:01:15 PM R22685 μg/L Tetrachloroethene (PCE) ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 1,2,3-Trichlorobenzene ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 1,1,1-Trichloroethane ND 1.0 µg/L 11/20/2014 10:01:15 PM R22685 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 10:01:15 PM R22685 Trichloroethene (TCE) ND 1.0 µg/L 1 11/20/2014 10:01:15 PM R22685 Trichlorofluoromethane ND 1.0 μg/L 11/20/2014 10:01:15 PM R22685 1,2,3-Trichloropropane ND 2.0 11/20/2014 10:01:15 PM R22685 μg/L 1 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 10:01:15 PM R22685 Xvienes, Total ND 1.5 μg/L 1 11/20/2014 10:01:15 PM R22685 Surr: 1.2-Dichloroethane-d4 101 70-130 %REC 11/20/2014 10:01:15 PM R22685 Surr: 4-Bromofluorobenzene 89.3 70-130 %REC 11/20/2014 10:01:15 PM R22685 Surr: Dibromofluoromethane 91.5 70-130 %REC 11/20/2014 10:01:15 PM R22685 1 Surr: Toluene-d8 95.1 70-130 %REC 11/20/2014 10:01:15 PM R22685 SM2510B: SPECIFIC CONDUCTANCE Analyst: JRR Conductivity 11/20/2014 4:56:05 PM R22708 3500 0.010 µmhos/cm SM4500-H+B: PH Analyst: JRR pΗ 7.56 11/20/2014 4:56:05 PM R22708 1.68 H pH units SM2320B: ALKALINITY Analyst: JRR Bicarbonate (As CaCO3) 190 20 mg/L CaCO3 1 11/20/2014 4:56:05 PM R22708 Carbonate (As CaCO3) ND 2.0 mg/L CaCO3 11/20/2014 4:56:05 PM R22708 Total Alkalinity (as CaCO3) 190 20 mg/L CaCQ3 11/20/2014 4:56:05 PM R22708

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample 1D: GRW-3

GBR Annual Sampling Project: Lab ID: 1411608-006

Matrix: AQUEOUS

Collection Date: 11/14/2014 2:35:00 PM Received Date: 11/15/2014 10:00:00 AM

| | | 171.000 | | |
|--------------------------|-------------|---------------|------------------------|----------------|
| Analyses | Result | RL Qual Units | DF Date Analyzed | Batch |
| SM2540C MOD: TOTAL DISSO | LVED SOLIDS | | Analy | yst: KS |
| Total Dissolved Solids | 3680 | 20.0 * ma/L | 1 11/21/2014 6:33:00 F | PM 16496 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits J
- O RSD is greater than RSDlimit
- RPD outside accepted recovery limits
- Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit

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- Sample pH greater than 2.
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

GBR Annual Sampling

Lab ID: 1411608-007

Project:

Client Sample ID: System Effluent

Collection Date: 11/14/2014 3:10:00 PM

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL | Qual | Units | DF | Date Analyzed | Batch |
|-----------------------------------|--------|---------|------|-------|-----|------------------------|-----------|
| EPA METHOD 300.0: ANIONS | | | | | | Analyst | LGP |
| Fluoride | 0,81 | 0.10 | | mg/L | 1 | 11/18/2014 2:53:49 AM | R22603 |
| Chloride | 76 | 10 | | mg/L | 20 | 11/18/2014 3:31:05 AM | R22603 |
| Bromide | 0,28 | 0,10 | | mg/L | 1 | 11/18/2014 2:53:49 AM | R22603 |
| Phosphorus, Orthophosphate (As P) | ND | 10 | H | mg/L | 20 | 11/18/2014 3:31:05 AM | R22603 |
| Sulfate | 1600 | 50 | • | mg/L | 100 | 11/26/2014 11:18:25 PM | /I R22848 |
| Nitrate+Nitrite as N | ND | 1.0 | | mg/L | 5 | 11/26/2014 8:49:53 AM | R22809 |
| EPA METHOD 200.7: METALS | | | | | | Analyst | JLF |
| Barium | 0.016 | 0.0020 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Beryllium | ND | 0.0020 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Cadmium | ND | 0.0020 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Calcium | 350 | 10 | | mg/L | 10 | 11/25/2014 5:58:35 PM | R22813 |
| Chromium | ND | 0.0060 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Iron | 0.15 | 0.020 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Magnesium | 26 | 1,0 | | mg/L | 1 | 11/25/2014 4:40:32 PM | R22813 |
| Manganese | 1.1 | 0.020 | * | mg/L | 10 | 11/25/2014 5:58:35 PM | |
| Nickel | ND | 0.010 | | mg/L | 1 | 11/25/2014 4:40:32 PM | |
| Potassium | 5.5 | 1.0 | | mg/L | 1 | 11/25/2014 4:40:32 PM | |
| Silver | ND | 0.0050 | | mg/L | 1 | 11/25/2014 4:40:32 PM | |
| Sodium | 540 | 10 | | mg/L | 10 | 11/25/2014 5:58:35 PM | |
| Zinc | 0.023 | 0.010 | | mg/L | 1 | 11/26/2014 3:24:39 PM | R22823 |
| EPA 200.8: METALS | | | | | | Analyst | DBD |
| Antimony | ND | 0.0010 | | mg/L | 1 | 12/2/2014 1:50:53 PM | R22885 |
| Arsenic | ND | 0.0010 | | mg/L | 1 | 12/1/2014 12:04:28 PM | R22871 |
| Lead | ND | 0.0010 | | mg/L | 1 | 12/2/2014 1:50:53 PM | R22885 |
| Copper | ND | 0.010 | | mg/L | 10 | 12/2/2014 4:29:51 PM | R22885 |
| Selenium | 0.0039 | 0.0010 | | mg/L | 1 | 12/1/2014 12:04:28 PM | R22871 |
| Thallium | ND | 0.0010 | | mg/L | 1 | 12/2/2014 1:50:53 PM | R22885 |
| EPA METHOD 245.1: MERCURY | | | | | | Analyst: | MMD |
| Mercury | ND | 0.00020 | | mg/L | 1 | 11/26/2014 3:17:31 PM | 16593 |
| SM2340B: HARDNESS | | | | | | Analyst: | JLF |
| Hardness (As CaCO3) | 970 | 6.6 | | mg/L | 1 | 11/25/2014 1:10:00 PM | R22813 |
| EPA METHOD 8270C: PAHS | | | | | | Analyst: | DAM |
| Naphthalene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| 1-Methylnaphthalene | ND | 0,50 | | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| 2-Methylnaphthalene | NĐ | 0.50 | | μg/L | 1 | 11/18/2014 5 45 11 PM | 16428 |
| Acenaphthylene | ND | 0.50 | | µg/L | 1 | 11/18/2014 5 45 11 PM | 16428 |
| Acenaphthene | ND | 0.50 | | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| | | | | | | | |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/11/2014

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: System Effluent

Project: GBR Annual Sampling

Collection Date: 11/14/2014 3:10:00 PM

Lab ID: 1411608-007

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-----------|------------|----|------------------------|---------|
| EPA METHOD 8270C: PAHS | | | | | Analyst | DAM |
| Fluorene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Phenanthrene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Anthracene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Fluoranthene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Pyrene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Benz(a)anthracene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Chrysene | ND | 0.50 | µg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Benzo(b)fluoranthene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Benzo(k)fluoranthene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Benzo(a)pyrene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Dibertz(a,h)anthracene | ND | 0.50 | μg/L | 1 | 11/18/2014 5;45:11 PM | 16428 |
| Benzo(g,h,i)perylene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | μg/L | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Surr: N-hexadecane | 72.9 | 29.9-83.2 | %REC | 1 | 11/18/2014 5:45:11 PM | 16428 |
| Surr: Benzo(e)pyrene | 71.5 | 22,6-106 | %REC | 1 | 11/18/2014 5:45:11 PM | 16428 |
| EPA METHOD 8260B: VOLATILES | | | | | Analyst | КЈН |
| Benzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pf | и R2268 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pt | и R2268 |
| Ethylbenzene | NĐ | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pf | и R2268 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pf | и R2268 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pt | и R2268 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pf | M R2268 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pl | M R2268 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 Pt | M R2268 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/20/2014 10:31:12 Pt | M R2268 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 10:31:12 P! | M R2268 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | и R2268 |
| Acetone | ND | 10 | μg/L | 1 | 11/20/2014 10:31:12 P! | и R2268 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | и R2268 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Bromomethane | ND | 3.0 | μց/Լ | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| 2-Butanone | ND | 10 | µg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Chloroform | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |
| Chloromethane | ND | 3.0 | μg/L | 1 | 11/20/2014 10:31:12 PI | M R2268 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Analytical Report

Lab Order 1411608

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: System Effluent

Project: GBR Annual Sampling

Collection Date: 11/14/2014 3:10:00 PM

Lab ID: 1411608-007

Matrix: AQUEOUS Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|-----------------------------|--------|-------|---------------|----|---------------------|-----------|
| EPA METHOD 8260B: VOLATILES | | | | | Anal | /st: KJH |
| 2-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 4-Chlorotoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,2-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1-Dichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1-Dichloroethene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,2-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 2,2-Dichloropropane | ND | 2.0 | µg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 2-Hexanone | ND | 10 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Isopropylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| Styrene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| tert-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1,1,2-Tetrachioroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| trans-1,3-Dichloropropene | NĐ | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| 1,2,3-Trichlorobenzene | NĐ | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| 1,2,4-Trichlorobenzene | ND | 1.0 | μ g/ L | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1,1-Trichloroethane | ND | 1.0 | րց/Լ | 1 | 11/20/2014 10:31:12 | PM R2268 |
| 1,1,2-Trichloroethane | ND | 1.0 | µg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Trichlorofluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: System Effluent

Project: GBR Annual Sampling

Collection Date: 11/14/2014 3:10:00 PM

Lab ID: 1411608-007

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL (| Qual | Units | DF | Date Analyzed | Batch |
|------------------------------|--------|--------|------|------------|----|----------------------|----------------|
| EPA METHOD 8260B: VOLATILES | | | | | | Analy | st: KJH |
| 1,2,3-Trichloropropane | ND | 2.0 | | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Vinyl chloride | ND | 1.0 | | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Xylenes, Total | ND | 1.5 | | μg/L | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Surr: 1,2-Dichloroethane-d4 | 99.1 | 70-130 | | %REC | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Surr: 4-Bromofluorobenzene | 90.1 | 70-130 | | %REC | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Surr: Dibromofluoromethane | 90.9 | 70-130 | | %REC | 1 | 11/20/2014 10:31:12 | PM R22685 |
| Surr: Toluene-d8 | 95.5 | 70-130 | | %REC | 1 | 11/20/2014 10:31:12 | PM R22685 |
| SM2510B: SPECIFIC CONDUCTANC | E | | | | | Апаlу | st. JRR |
| Conductivity | 3100 | 0.010 | | µmhos/cm | 1 | 11/20/2014 5:06:54 P | M R22708 |
| SM4500-H+B: PH | | | | | | Апаlу | st: JRR |
| pH | 7.57 | 1.68 | Н | pH units | 1 | 11/20/2014 5:06:54 P | M R22708 |
| SM2320B: ALKALINITY | | | | | | Апаlу | st JRR |
| Bicarbonate (As CaCO3) | 340 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 5:06:54 P | M R22708 |
| Carbonate (As CaCO3) | ND | 2.0 | | mg/L CaCO3 | 1 | 11/20/2014 5:06:54 P | M R22708 |
| Total Alkalinity (as CaCO3) | 340 | 20 | | mg/L CaCO3 | 1 | 11/20/2014 5:06:54 P | M R22708 |
| SM2540C MOD: TOTAL DISSOLVED | SOLIDS | | | | | Апаlу | st: KS |
| Total Dissolved Solids | 3030 | 20.0 | * | mg/L | 1 | 11/21/2014 6:33:00 P | M 16496 |

Matrix: AQUEOUS

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

Date Reported: 12/11/2014

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Annual Sampling

Collection Date:

Lab ID: 1411608-008

Matrix: TRIP BLANK

Received Date: 11/15/2014 10:00:00 AM

| Analyses | Result | RL Qu | al Units | DF | Date Analyzed | Batch |
|--------------------------------|--------|-------|----------|----|---------------------|-----------|
| EPA METHOD 8260B: VOLATILES | | | | | Апаlу | st. KJH |
| Benzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Toluene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Ethylbenzene | ND | 1.0 | μց/ኒ | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2,4-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,3,5-Trimethylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Naphthalene | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 2-Methylnaphthalene | ND | 4.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Acetone | ND | 10 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Bromobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Bromodichloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Bromoform | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Bromomethane | ND | 3.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 2-Butanone | ND | 10 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Carbon disulfide | ND | 10 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Carbon Tetrachloride | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Chlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Chloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Chloroform | NĐ | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Chloromethane | ND | 3.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 2-Chlorotoluene | ND | 1.0 | μց/Լ | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 4-Chlorotoiuene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| cis-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| cis-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Dibromochloromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Dibromomethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2-Dichlorobenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,3-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,4-Dichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| Dichlorodifluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,1-Dichloroethane | ND | 1.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,1-Dichloroethene | NĐ | 1.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,2-Dichloropropane | ND | 1.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 1,3-Dichloropropane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |
| 2,2-Dichloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R22685 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Date Reported: 12/11/2014

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Inc.

Client Sample ID: TRIP BLANK

Project: GBR Annual Sampling

Collection Date:

Lab ID: 1411608-008

Matrix: TRIP BLANK

Received Date: 11/15/2014 10:00:00 AM

| Page | Analyses | Result | RL Qual | Units | DF | Date Analyzed | Batch |
|--|-----------------------------|--------|---------|-------|----|---------------------|----------|
| Hexachlorobutadiene | EPA METHOD 8260B: VOLATILES | | | | | Analy | st: KJH |
| 2-Hexanone ND 10 µg/L 1 11/20/2014 11:01:09 PM R226 Isopropylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 4-Isopropylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 4-Methyl-2-pentanone ND 10 µg/L 1 11/20/2014 11:01:09 PM R226 4-Methyl-2-pentanone ND 10 µg/L 1 11/20/2014 11:01:09 PM R226 Methylene Chloride ND 3.0 µg/L 1 11/20/2014 11:01:09 PM R226 n-Butylbenzene ND 3.0 µg/L 1 11/20/2014 11:01:09 PM R226 n-Propylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 sec-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1.1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2,2-Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R2 | 1,1-Dichloropropene | ND | 1.0 | μg/L | 1. | 11/20/2014 11:01:09 | PM R2268 |
| Isopropylbenzene | Hexachlorobutadiene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 4-Isopropylloluene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 4-Methyl-2-pentanone ND 10 μg/L 1 11/20/2014 11:01:09 PM R226 Methylene Chloride ND 3.0 μg/L 1 11/20/2014 11:01:09 PM R226 n-Butylbenzene ND 3.0 μg/L 1 11/20/2014 11:01:09 PM R226 n-Propylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 sec-Butytbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 stert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 stert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 stert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene | 2-Hexanone | ND | 10 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 4-Methyl-2-pentanone ND 10 μg/L 1 11/20/2014 11:01:09 PM R226 Methylene Chloride ND 3.0 μg/L 1 11/20/2014 11:01:09 PM R226 n-Butylbenzene ND 3.0 μg/L 1 11/20/2014 11:01:09 PM R226 n-Propylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 sec-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1.1,2-2-Tertachloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Tertachloroethane N | Isopropyibenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Methylene Chloride ND 3.0 µg/L 1 11/20/2014 11:01:09 PM R226 n-Butylbenzene ND 3.0 µg/L 1 11/20/2014 11:01:09 PM R226 n-Propylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 sec-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloroethane <td>4-Isopropyltoluene</td> <td>ND</td> <td>1.0</td> <td>μg/L</td> <td>1</td> <td>11/20/2014 11:01:09</td> <td>PM R2268</td> | 4-Isopropyltoluene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| n-Bulylbenzene ND 3.0 µg/L 1 11/20/2014 11:01:09 PM R226 n-Propylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 sec-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Bulylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.1,2,2-Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,4-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,4-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,4-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofthane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1.2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1-1-Dichloroethane-92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1-1-Dichloroethane-92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1-1-Dichloroethane-92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1-1-Dichloroethane-92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 1-1-Dichloroethane-92.3 70-130 | 4-Methyl-2-pentanone | ND | 10 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| n-Propylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 sec-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropenzene ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-T | Methylene Chloride | ND | 3.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| sec-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Styrene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1,2-Tetrachloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2,2-Tetrachloroethane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Tetrachloroethane (PCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Tri | n-Butylbenzene | ND | 3.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Styrene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Tetrachloroethane (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 | n-Propylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Tetrachloroethene (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethane (TCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 | sec-Butylbenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| tert-Butylbenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1,2-Tetrachloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2,2-Tetrachloroethane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Tetrachloroethene (PCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethane (TCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 | Styrene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,1,2,2-Tetrachloroethane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Tetrachloroethene (PCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane (TCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 | tert-Butylbenzene | ND | 1.0 | | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Tetrachloroethene (PCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane (TCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 <tr< td=""><td>1,1,1,2-Tetrachloroethane</td><td>ND</td><td>1.0</td><td>μg/L</td><td>1</td><td>11/20/2014 11:01:09</td><td>PM R2268</td></tr<> | 1,1,1,2-Tetrachloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 | 1,1,2,2-Tetrachloroethane | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| trans-1,2-DCE ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 trans-1,3-Dichloropropene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 | Tetrachloroethene (PCE) | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,2,3-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,4-Trichlorobenzene ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethane (TCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofiuorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofiuoromethane 92.3 70-130 %REC | trans-1,2-DCE | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,2,4-Trichlorobenzene ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,1-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethene (TCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofituorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofituoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | trans-1,3-Dichloropropene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,1,1-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,1,2-Trichloroethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethene (TCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | 1,2,3-Trichlorobenzene | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,1,2-Trichloroethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichloroethene (TCE) ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | 1,2,4-Trichlorobenzene | ND | 1.0 | µg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Trichloroethene (TCE) ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Totał ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | 1,1,1-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Trichlorofluoromethane ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 1,2,3-Trichloropropane ND 2.0 μg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | 1,1,2-Trichloroethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| 1,2,3-Trichloropropane ND 2.0 µg/L 1 11/20/2014 11:01:09 PM R226 Vinyl chloride ND 1.0 µg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 µg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Trichloroethene (TCE) | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Vinyl chloride ND 1.0 μg/L 1 11/20/2014 11:01:09 PM R226 Xylenes, Total ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Trichlorofluoromethane | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Xylenes, Total ND 1.5 μg/L 1 11/20/2014 11:01:09 PM R226 Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromoftuorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromoftuoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | 1,2,3-Trichloropropane | ND | 2.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Surr: 1,2-Dichloroethane-d4 95.8 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: 4-Bromofluorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Vinyl chloride | ND | 1.0 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Surr: 4-Bromofiuorobenzene 98.6 70-130 %REC 1 11/20/2014 11:01:09 PM R226 Surr: Dibromofiuoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Xylenes, Total | ND | 1,5 | μg/L | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Surr: Dibromofluoromethane 92.3 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Surr: 1,2-Dichloroethane-d4 | 95.8 | 70-130 | %REC | 1 | 11/20/2014 11:01:09 | PM R2268 |
| | Surr: 4-Bromofluorobenzene | 98.6 | 70-130 | %REC | 1 | 11/20/2014 11:01:09 | PM R2268 |
| Surr: Toluene-d8 94.4 70-130 %REC 1 11/20/2014 11:01:09 PM R226 | Surr: Dibromofluoromethane | 92.3 | 70-130 | %REC | 1 | 11/20/2014 11:01:09 | PM R2268 |
| | Surr: Toluene-d8 | 94.4 | 70-130 | %REC | 1 | 11/20/2014 11:01:09 | PM R2268 |

Refer to the QC Summary report and sample login checklist for flagged QC data and preservation information.

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit

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- P Sample pH greater than 2.
- RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| rroject: | UDK A | iiiiuai Saiiiļ | omig | | | | | | | | |
|------------|------------|----------------|-----------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Sample ID | MB-16543 | Samp | Type: MI | BLK | Tes | tCode: E | PA Method | 200.7: Metals | | | |
| Client ID: | PBW | Bato | :h ID: 16 | 543 | F | RunNo: 2 | 2794 | | | | |
| Prep Date: | 11/24/2014 | Analysis | Date: 1 | 1/25/2014 | 1 5 | SeqNo: 6 | 72663 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | | ND | 1.0 | | | | | | | | |
| lron | | ND | 0.020 | | | | | | | | |
| Magnesium | | ND | 1.0 | | | | | | | | |
| Manganese | | ND | 0.0020 | | | | | | | | |
| Potassium | | ND | 1.0 | | | | | | | | |
| Sodium | | ND | 1.0 | | | | | | | | |
| Sample ID | LCS-16543 | Samp | Type: LC | s | Tes | tCode: Ei | PA Method | 200.7: Metals | | | |
| Client ID: | LCSW | Bato | h ID: 16 | 543 | F | RunNo: 2 | 2794 | | | | |
| Prep Date: | 11/24/2014 | Analysis I | Date: 1 | 1/25/2014 | \$ | SeqNo: 6 | 72664 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Calcium | | 51 | 1.0 | 50.00 | 0 | 102 | 85 | 115 | | | |
| iron | | 0.48 | 0.020 | 0.5000 | 0 | 95.4 | 85 | 115 | | | |
| Magnesium | | 51 | 1.0 | 50.00 | 0 | 103 | 85 | 115 | | | |
| Manganese | | 0.46 | 0.0020 | 0.5000 | 0 | 91.2 | 85 | 115 | | | |
| Potassium | | 50 | 1.0 | 50.00 | 0 | 99.1 | 85 | 115 | | | |
| Sodium | | 51 | 1.0 | 50.00 | 0 | 101 | 85 | 115 | | | |
| Sample ID | MB | Samp | Туре: МЕ | BLK | Tes | 1Code: El | PA Method | 200.7: Metals | | | |
| Client ID: | PBW | Bato | h ID: R2 | 2813 | F | RunNo: 2 | 2813 | | | | |
| Prep Date: | | Analysis (| Date: 11 | 1/25/2014 | 8 | SeqNo: 6 | 73339 | Units: mg/L | | | |
| | | | | | | | | | | | |

| Client ID: PBW | Bate | ch ID: R2 | 2813 | F | RunNo: 2 | 2813 | | | | |
|----------------|----------|-----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Prep Date: | Analysis | Date: 1 | 1/25/2014 | 5 | SeqNo: 6 | 73339 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Barium | ND | 0.0020 | | | | | | | | |
| Beryllium | ND | 0.0020 | | | | | | | | |
| Cadmium | ND | 0.0020 | | | | | | | | |
| Calcium | ND | 1.0 | | | | | | | | |
| Chromium | ND | 0.0060 | | | | | | | | |
| Iron | ND | 0.020 | | | | | | | | |
| Magnesium | ND | 1.0 | | | | | | | | |
| Manganese | ND | 0.0020 | | | | | | | | |
| Nickel | ND | 0.010 | | | | | | | | |
| Potassium | ND | 1.0 | | | | | | | | |
| Silver | ND | 0.0050 | | | | | | | | |
| Sodium | ND | 1.0 | | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Beryllium | | | | | | | | | | | |
|---|-----------------|------------|----------|-----------|-------------|--------------|-----------|---------------|------|----------|------|
| Prep Date: Analysis Date: 11/25/2014 SeqNo: 673340 Units: mg/L | Sample ID LCS | Samp | Type: LC | s | Tes | Code: El | PA Method | 200.7: Metals | | | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Client ID: LCSW | Bato | h ID: R2 | 2813 | F | RunNo: 22813 | | | | | |
| Barium | Prep Date: | Analysis I | Date: 11 | /25/2014 | S | SeqNo: 67 | 73340 | Units: mg/L | | | |
| Beryllium | Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Cadmium 0.49 0.0020 0.5000 0 98.0 85 115 Calcium 50 1.0 50.00 0 99.2 85 115 Chromium 0.48 0.0060 0.5000 0 96.4 85 115 Iron 0.50 0.020 0.5000 0 101 85 115 Magnesium 50 1.0 50.00 0 99.2 85 115 Manganese 0.50 0.0020 0.5000 0 99.0 85 115 Nickel 0.49 0.010 0.5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.050 0.1000 0 98.4 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: | Barium | 0.49 | 0.0020 | 0.5000 | 0 | 98.0 | 85 | 115 | | | |
| Calcium 50 1.0 50.00 0 99.2 85 115 Chromium 0.48 0.0060 0.5000 0 96.4 85 115 Iron 0.50 0.020 0.5000 0 101 85 115 Magnesium 50 1.0 50.00 0 99.2 85 115 Manganese 0.50 0.0020 0.5000 0 99.0 85 115 Nickel 0.49 0.010 0.5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.0050 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7; Metals Client ID: PBW Batch ID: R22823 RunNo: 22823< | Beryllium | 0.50 | 0.0020 | 0.5000 | 0 | 100 | 85 | 115 | | | |
| Chromium 0.48 0.0060 0.5000 0 96.4 85 115 Iron 0.50 0.020 0.5000 0 101 85 115 Magnesium 50 1.0 50.00 0 99.2 85 115 Manganese 0.50 0.0020 0.5000 0 99.0 85 115 Nickel 0.49 0.010 0.5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.0050 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 SampType: MBLK TestCode: EPA Method 200.7: Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L | Cadmium | 0.49 | 0.0020 | 0.5000 | 0 | 98.0 | 85 | 115 | | | |
| Name | Calcium | 50 | 1.0 | 50.00 | 0 | 99.2 | 85 | 115 | | | |
| Magnesium 50 1.0 50.00 0 99.2 85 115 Manganese 0.50 0.0020 0.5000 0 99.0 85 115 Nickel 0.49 0.010 0.5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.093 0.0050 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7: Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Chromium | 0.48 | 0.0060 | 0.5000 | 0 | 96.4 | 85 | 115 | | | |
| Manganese 0.50 0.0020 0.5000 0 99.0 85 115 Nickel 0.49 0.010 0.5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.093 0.0050 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7: Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Iron | 0.50 | 0.020 | 0.5000 | 0 | 101 | 85 | 115 | | | |
| Nickel 0,49 0.010 0,5000 0 97.5 85 115 Potassium 49 1.0 50.00 0 98.1 85 115 Silver 0.093 0.0050 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7; Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Magnesium | 50 | 1.0 | 50.00 | 0 | 99,2 | 85 | 115 | | | |
| Potassium | Manganese | 0.50 | 0.0020 | 0.5000 | 0 | 99.0 | 85 | 115 | | | |
| Silver 0.093 0.0950 0.1000 0 93.3 85 115 Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7; Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Nickel | 0.49 | 0.010 | 0.5000 | 0 | 97.5 | 85 | 115 | | | |
| Sodium 49 1.0 50.00 0 98.4 85 115 Sample ID MB SampType: MBLK TestCode: EPA Method 200.7; Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Potassium | 49 | 1.0 | 50.00 | 0 | 98.1 | 85 | 115 | | | |
| Sample ID MB SampType: MBLK TestCode: EPA Method 200.7; Metals Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Silver | 0.093 | 0.0050 | 0.1000 | 0 | 93.3 | 85 | 115 | | | |
| Client ID: PBW Batch ID: R22823 RunNo: 22823 Prep Date: Analysis Date: 11/26/2014 SeqNo: 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Sodium | 49 | 1.0 | 50.00 | 0 | 98.4 | 85 | 115 | | | |
| Prep Date: Analysis Date: 11/26/2014 SeqNo; 673668 Units: mg/L Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Sample ID MB | Samp | Type: ME | BLK | Tes | tCode: Ef | PA Method | 200.7: Metals | | · | |
| Analyte Result PQL SPK value SPK Ref Val %REC LowLimit HighLimit %RPD RPDLimit Qual | Client ID: PBW | Bato | h ID: R2 | 2823 | F | RunNo: 2 | 2823 | | | | |
| | Prep Date: | Analysis | Date: 11 | 1/26/2014 | 8 | SeqNo: 6 | 73668 | Units: mg/L | | | |
| Zinc ND 0.010 | Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| | Zinc | ND | 0.010 | | | | | | | | |

| Sample ID LCS | SampT | ype: LC | s | Tes | Code: El | PA Method | 200.7: Metals | 3 | | |
|-----------------|------------|---------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R2 | 2823 | R | tunNo: 2 | 2823 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/26/2014 | 8 | eqNo: 6 | 73669 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Zinc | 0.50 | 0.010 | 0.5000 | 0 | 100 | 85 | 115 | | • | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.

RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

| Project: | GBR Ann | _ | | st, inc. | | | | | | | |
|------------|-----------------|------------|-----------|-----------|-------------|-----------|-------------|-------------|-------|----------|------|
| Sample ID | 1411608-007DMS | Samp | Туре: М | 3 = = | Tes | tCode: E | PA 200.8: N | Netals | | | |
| Client ID: | System Effluent | Bate | ch ID: R2 | 2871 | F | RunNo: 2 | 2871 | | | | |
| Prep Date: | | Analysis | Date: 1: | 2/1/2014 | 5 | SeqNo: 6 | 74994 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.027 | 0.0010 | | 0.0008168 | 105 | 70 | 130 | | | |
| Selenium | | 0.030 | 0.0010 | 0.02500 | 0.003911 | 104 | 70 | 130 | | | |
| Sample ID | 1411608-007DMSI |) Samp | Type: MS | SD | Tes | tCode: El | PA 200.8: N | fletals | | | |
| Client ID: | System Effluent | Bato | h ID: R2 | 2871 | F | RunNo: 2 | 2871 | | | | |
| Prep Date: | | Analysis | Date: 1 | 2/1/2014 | 5 | SeqNo: 6 | 74995 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.027 | 0.0010 | | 0.0008168 | 105 | 70 | 130 | 0.183 | 20 | |
| Selenium | | 0.030 | 0.0010 | 0.02500 | 0.003911 | 106 | 70 | 130 | 2.26 | 20 | |
| Sample ID | LCS = | Samp | Type: LC | s | Tes | tCode: El | PA 200.8: N | fetals | | | |
| Client ID: | LCSW | Bato | h ID: R2 | 2871 | F | RunNo: 2 | 2871 | | | | |
| Prep Date: | | Analysis | Date: 12 | 2/1/2014 | | SeqNo: 6 | 75052 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.024 | 0.0010 | 0.02500 | 0 | 97.7 | 85 | 115 | | | |
| Selenium | | 0.024 | 0.0010 | 0.02500 | 0 | 97.6 | 85 | 115 | | | |
| Sample ID | LCS | Samp | Type: LC | S | Tes | tCode: El | PA 200.8: N | letals | | | |
| Client ID: | LCSW | Bato | h ID: R2 | 2871 | F | RunNo: 2 | 2871 | | | | |
| Prep Date: | | Analysis | Date: 12 | 2/1/2014 | 8 | SeqNo: 6 | 75054 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | 0.023 | 0.0010 | 0.02500 | 0 | 90.2 | 85 | 115 | | | |
| Selenium | | 0.022 | 0.0010 | 0.02500 | 0 | 88.9 | 85 | 115 | | | |
| Sample ID | МВ | Samp | Type: ME | BLK | Tes | tCode: El | PA 200.8: N | letais | | | |
| Client ID: | PBW | Bato | h ID: R2 | 2871 | F | RunNo: 2: | 2871 | | | | |
| Prep Date: | | Analysis I | Date: 12 | 2/1/2014 | 5 | SeqNo: 6 | 75056 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Arsenic | | ND | 0.0010 | | | | | | | | |
| Selenium | | ND | 0.0010 | | | | | | | | |
| Sample ID | MB | Samp | Туре: МЕ | BLK | Tes | tCode: Ef | PA 200.8: N | letals | | | |
| Client ID: | PBW | Bato | h ID: R2 | 2871 | F | RunNo: 2 | 2871 | | | | |
| Prep Date: | | Analysis i | Date: 12 | 2/1/2014 | 8 | SeqNo: 6 | 75058 | Units: mg/L | | | |

Qualifiers:

Analyte

Value exceeds Maximum Contaminant Level.

Result

- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- D. Sample off areater than 3

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Qual

RPDLimit

%RPD

HighLimit

P Sample pH greater than 2.

SPK value SPK Ref Val %REC LowLimit

RL Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Qual

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID MB

SampType: MBLK

PBW

Batch ID: R22871

TestCode: EPA 200.8: Metals

Client ID:

PQL

RunNo: 22871

SPK value SPK Ref Val %REC LowLimit

0

0

0

0

0

n

0

0

0

0

0

SPK value SPK Ref Val

0.02500

0.02500

0.02500

Prep Date:

Analysis Date: 12/1/2014

Result

Result

0.025

0.028

0.026

0.028

0.028

Result

0.024

0.025

0.025

0.025

SeqNo: 675058

Units: mg/L **HighLimit**

RPDLimit

Analyte Arsenic Selenium

ND 0.0010 ND 0.0010

Sample ID 1411608-007DMS

SampType: MS

TestCode: EPA 200.8: Metals

%RPD

Client ID: System Effluent

System Effluent

Batch ID: R22885

RunNo: 22885

%REC

98.4

112

113

70

70

70

70

70

70

LowLimit

Units: mg/L

HighLimit

130

130

130

Prep Date: Analyte

Analysis Date: 12/2/2014 PQL

0.0010

0.0010

SeqNo: 675749

%RPD **RPDLimit** Qual

Antimony Lead Thallium

0.028 0.0010 Sample ID 1411608-007DMSD

SampType: MSD

TestCode: EPA 200.8: Metals

RunNo: 22885

Client ID: Prep Date:

Batch ID: R22885 Analysis Date: 12/2/2014

0.0010

0.0010

0.0010

PQL

0.0010

0.0010

0.0010

0.0010

Batch ID: R22885

0.0010

SeqNo: 675750

Units: mg/L

4.78

0.158

0.166

Analyte Antimony Lead

Result PQL SPK value SPK Ref Val

%REC LowLimit

103

112

113

HighLimit %RPD 130

130

130

RPDLimit

Qual 20

Thallium Sample ID LCS

SampType: LCS

Batch ID: R22885

0.02500

0.02500

0.02500

0.02500

0.02500

SPK value SPK Ref Val

0.02500

0.02500

0.02500

TestCode: EPA 200.8: Metals RunNo: 22885

%REC

97.0

101

99.9

101

LowLimit

Prep Date: Analyte **Antimony** Lead

Client ID:

LCSW

LCSW

Analysis Date: 12/2/2014

SeqNo: 675785

85

85

85

85

Units: mg/L **HighLimit**

115

115

115

115

115

115

%RPD **RPDLimit** Qual

20

20

Thallium Sample ID LCS

Copper

SampType: LCS

TestCode: EPA 200.8: Metals

98.4

97.9

RunNo: 22885

Prep Date: Analyte

Client ID:

Analysis Date: 12/2/2014

SeqNo: 675786

Units: mg/L

Qual

Lead Copper Result POL 0.025 0.0010

0.024

SPK value SPK Ref Val 0.02500

%REC

HighLimit LowLimit

85

85

%RPD

RPDLimit

Qualifiers: Value exceeds Maximum Contaminant Level.

Е Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

ND Not Detected at the Reporting Limit Sample pH greater than 2

Reporting Detection Limit RL

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

0.0010

ND

Project:

Thallium

GBR Annual Sampling

| Sample ID MB | SampT | уре: МЕ | BLK | Tes | Code: E | PA 200.8: N | letals | | | | |
|----------------|------------|---------|-----------|-------------|----------|-------------|-------------|------|----------|------|--|
| Client ID: PBW | Batch | ID: R2 | 2885 | F | lunNo: 2 | 2885 | | | | | |
| Prep Date: | Analysis D | ate: 12 | 2/2/2014 | S | eqNo: 6 | 75788 | Units: mg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Antimony | ND | 0.0010 | | | | | | · | | | |
| Lead | ND | 0.0010 | | | | | | | | | |
| Copper | ND | 0.0010 | | | | | | | | | |

| Sample ID MB | SampTy | уре: МВ | LK | Tes | Code: E | PA 200.8: M | letals | | | - |
|----------------|-------------|---------|-----------|-------------|---------|-------------|-------------|------|----------|------|
| Client ID: PBW | Batch | ID: R2 | 2885 | R | unNo: 2 | 22885 | | | | |
| Prep Date: | Analysis Da | ate: 12 | /2/2014 | S | eqNo: 6 | 675789 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Lead | ND | 0.0010 | | | | | | | | |

 Lead
 ND
 0.0010

 Copper
 ND
 0.0010

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID MB-16593

Prep Date: 11/26/2014

SampType: MBLK

TeslCode: EPA Method 245.1: Mercury

Client ID: **PBW**

Batch ID: 16593

RunNo: 22825

Analysis Date: 11/26/2014

SeqNo: 673696

Units: mg/L

HighLimit

Qual

Analyte Mercury

0.00020

PQL

Sample ID LCS-16593

LCSW

SampType: LCS

TestCode: EPA Method 245.1: Mercury

Batch ID: 16593

RunNo: 22825

%REC

HighLimit

Prep Date: 11/26/2014

Analysis Date: 11/26/2014 PQL

SeqNo: 673697 Units: mg/L

LowLimit

%RPD

%RPD

Qual

Analyte

Result

SPK value SPK Ref Val

Mercury

Client ID:

0.0051 0.00020

0.005000

SPK value SPK Ref Val %REC LowLimit

102

80

120

RPDLimit

RPDLimit

Qualifiers:

Value exceeds Maximum Contaminant Level

Value above quantitation range

J Analyte detected below quantitation limits

0 RSD is greater than RSD limit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank В

Н Holding times for preparation or analysis exceeded Not Detected at the Reporting Limit

Sample pH greater than 2. P

Reporting Detection Limit RL

ND

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID MB | SampT | ype: MI | BLK | Tes | tCode: E | PA Method | 300.0: Anions | s | | |
|----------------------------------|------------|----------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batch | n ID: R2 | 22603 | F | RunNo: 2 | 2603 | | | | |
| Prep Date: | Analysis D | ate: 1 | 1/17/2014 | 1170 | SeqNo: 6 | 66596 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0.10 | | | | | | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Bromide | ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |
| Sample ID LCS | SampT | ype: LC | s | Tes | tCode: E | PA Method | 300.0: Anions | S | | |
| Client ID: LCSW | Batch | ı ID: R2 | 22603 | F | RunNo: 2 | 2603 | | | | |
| Prep Date: | Analysis D | ate: 1 | 1/17/2014 | 5 | SeqNo: 6 | 66597 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.48 | 0.10 | 0.5000 | 0 | 96.7 | 90 | 110 | | | |
| Chloride | 4.8 | 0.50 | 5.000 | 0 | 95.8 | 90 | 110 | | | |
| 3romide | 2.5 | 0.10 | 2.500 | 0 | 99.7 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 4.9 | 0.50 | 5.000 | 0 | 97.5 | 90 | 110 | | | |
| Sample ID MB | SampT | ype: ME | BLK | Tes | tCode: E | PA Method | 300.0: Anions | | | |
| Client ID: PBW | Batch | ı ID: R2 | 2603 | F | RunNo: 2 | 2603 | | | | |
| Prep Date: | Analysis D | ate: 1 | 1/18/2014 | 5 | SeaNo: 6 | 66650 | Units: ma/L | | | |

| Prep Date: | Analysis D |)ate: 11 | 1/18/2014 | s | SeqNo: 6 | 66650 | Units: mg/L | | | |
|----------------------------------|------------|----------|-----------|-------------|----------|----------|-------------|------|----------|------|
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | ND | 0.10 | | | | | <u>-</u> . | | | |
| Chloride | ND | 0.50 | | | | | | | | |
| Bromide | - ND | 0.10 | | | | | | | | |
| Phosphorus, Orthophosphate (As P | ND | 0.50 | | | | | | | | |
| | | | | | | | | | | |

| Sample ID LCS | SampT | ype: LC | S | Tes | tCode: El | PA Method | 300.0: Anion: | S | | |
|----------------------------------|------------|---------|-----------|-------------|-----------|-----------|---------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R2 | 2603 | F | RunNo: 2 | 2603 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/18/2014 | 5 | SeqNo: 6 | 66651 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | 0.49 | 0.10 | 0.5000 | 0 | 97.4 | 90 | 110 | | | |
| Chloride | 4.9 | 0.50 | 5.000 | 0 | 97.5 | 90 | 110 | | | |
| Bromide | 2.5 | 0.10 | 2.500 | 0 | 102 | 90 | 110 | | | |
| Phosphorus, Orthophosphate (As P | 5.0 | 0.50 | 5.000 | 0 | 99.7 | 90 | 110 | | | |

| Sample ID 1411608-007CM | S SampType: MS | TestCode: EPA Method | 300.0: Anlons | | |
|----------------------------|---------------------------|---------------------------|---------------|---------------|------|
| Client ID: System Effluent | Batch ID: R22603 | RunNo: 22603 | | | |
| Prep Date: | Analysis Date: 11/18/2014 | SeqNo: 666659 | Units: mg/L | | |
| Analyte | Result PQL SPK value | SPK Ref Val %REC LowLimit | HighLimit % | 6RPD RPDLimit | Qual |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Client: Project:

Hall Environmental Analysis Laboratory, Inc.

Western Refining Southwest, Inc.

3.5

0.20

3.500

GBR Annual Sampling

WO#:

1411608

11-Dec-14

| | ODITION | uar oumpi | 6 | | | | | | | | |
|-----------------|-----------------|-------------|---------|-----------|-------------|-----------|-----------|---------------|----------|----------|------|
| Sample ID | 1411608-007CMS | SampTy | /pe: MS | 3 | Tes | Code: El | PA Method | 300.0: Anions | 3 | | |
| Client ID: | System Effluent | Batch | ID; R2 | 2603 | F | lunNo; 2 | 2603 | | | | |
| Prep Date: | | Analysis Da | ate: 11 | 1/18/2014 | S | SeqNo: 6 | 66659 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | | 1.3 | 0.10 | 0.5000 | 0.8070 | 89.0 | 66,1 | 113 | | | |
| Bromide | | 2.7 | 0.10 | 2,500 | 0.2810 | 96.4 | 82.5 | 103 | | | |
| Sample ID | 1411608-007CMS |) SampT | ype: MS | SD | Tes | tCode: El | PA Method | 300.0: Anions | | | |
| Client ID: | System Effluent | Batch | ID: R2 | 2603 | F | RunNo: 2 | 2603 | | | | |
| Prep Date: | | Analysis Da | ate: 11 | 1/18/2014 | S | SeqNo: 6 | 66660 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Fluoride | | 1.2 | 0.10 | 0.5000 | 0.8070 | 88.6 | 66.1 | 113 | 0.160 | 20 | |
| Bromide | | 2.7 | 0.10 | 2.500 | 0.2810 | 97.1 | 82.5 | 103 | 0.630 | 20 | |
| Sample ID | MB | SampT | ype: ME | BLK | Tes | tCode: El | PA Method | 300.0: Anions | ; | | |
| Client ID: | PBW | Batch | ID: R2 | 2809 | F | RunNo: 2 | 2809 | | | | |
| Prep Date: | | Analysis D | ate: 11 | 1/25/2014 | 8 | SeqNo: 6 | 73181 | Units: mg/L | | | |
| Analyte | | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite | as N | ND | 0.20 | | • | | | | | | |
| Sample ID | LCS | SampT | ype: LC | s | Tes | tCode: El | PA Method | 300.0: Anions | <u> </u> | | |
| Client ID: | LCSW | Batch | ID: R2 | 2809 | F | RunNo: 2 | 2809 | | | | |
| Prep Date: | | Analysis Da | ate: 11 | 1/25/2014 | S | SeqNo: 6 | 73182 | Units: mg/L | | | |
| | | | | | | | | | | | |

| Sample ID MB SampType: MBLK | | | | Tes | tCode: E | PA Method | 300.0: Anions | 3 | | |
|-----------------------------|------------|---------|-----------|-------------|----------|-----------|---------------|------|----------|------|
| Client ID: PBW | Batch | ID: R2 | 2809 | F | RunNo: 2 | 2809 | | | | |
| Prep Date: | Analysis D | ate: 11 | /26/2014 | S | SeqNo: 6 | 73237 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | ND | 0.20 | | | | | | | | |

0

101

90

110

| Sample ID LCS | SampTy | pe: LC | S | Test | tCode: E | EPA Method | 300.0: Anions | 5 | | |
|----------------------|-------------|----------------|-----------|-------------|----------|-------------------|---------------|------|----------|------|
| Client ID: LCSW | Batch | D: R2 | 2809 | R | lunNo: | 2280 9 | | | | |
| Prep Date: | Analysis Da | te: 1 1 | 1/26/2014 | S | SeqNo: | 673238 | Units: mg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Nitrate+Nitrite as N | 3.5 | 0.20 | 3.500 | 0 | 100 | 90 | 110 | | | |

Qualifiers:

Nitrate+Nitrite as N

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
 - Sample pH greater than 2.

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Result

Sample ID MB

SampType: MBLK

TestCode: EPA Method 300.0: Anions

Client ID: PBW

Batch ID: R22848

RunNo: 22848

Analysis Date: 11/26/2014

HighLimit

Prep Date:

PQL

SeqNo: 674415

Units: mg/L

%RPD **RPDLimit**

Analyte Sulfate

ND 0.50

SampType: LCS

TestCode: EPA Method 300.0: Anions

Sample ID LCS Client ID:

LCSW

Batch ID: R22848

RunNo: 22848 SeqNo: 674416

Units: mg/L

Analyte

Prep Date:

Analysis Date: 11/26/2014

10

SPK value SPK Ref Val

%REC

LowLimit HighLimit %RPD

Qual

PQL

0

SPK value SPK Ref Val %REC LowLimit

102

110

Sulfate

90

0.50

10.00

RPDLimit

Page 38 of 49

Qualifiers:

Value exceeds Maximum Contaminant Level,

E Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

RPD outside accepted recovery limits

Н Holding times for preparation or analysis exceeded

Analyte detected in the associated Method Blank

ND Not Detected at the Reporting Limit

Sample pH greater than 2.

Reporting Detection Limit

J

R Spike Recovery outside accepted recovery limits

Hall Environmental Analysis Laboratory, Inc.

WO#: 1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID 5mL-rb | SampT | ype: MBLK | Tes | tCode: EPA Method | 8260B: VOL | ATILES | | |
|--------------------------------|--------|-----------------|---------------|----------------------|-------------|--------|----------|------|
| Client ID: PBW | Batch | ID: R22685 | ı | RunNo: 22685 | | | | |
| Prep Date: | | ate: 11/20/2014 | | SeqNo: 668946 | Units: µg/L | | | |
| Analyte | Result | PQL SPK valu | e SPK Ref Val | %REC LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | |
| Toluene | ND | 1.0 | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | |
| 1,3,5-Trimethylbenzene | ND | 1.0 | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | |
| Acetone | ND | 10 | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | |
| Bromoform | ND | 1.0 | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | |
| 2-Butanone | ND | 10 | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | |
| Chloroethane | NĐ | 2.0 | | | | | | |
| Chloroform | ND | 1.0 | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | | | | | | |
| dis-1,2-DCE | ND | 1.0 | | | | | | |
| ds-1,3-Dichloropropene | ND | 1.0 | | | | | | |
| 1,2-Dibromo-3-chloropropane | ND | 2.0 | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | |
| 1.4-Dichlorobenzene | ND | 1.0 | | | | | | |
| Dichlorod fluoromethane | ND | 1.0 | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | |
| ele eminiahiahana | .,,, | de s Mr | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID 5mL-rb | SampT | ype: MB | LK | Tes | Code: EF | A Method | 8260B: VOL | ATILES | - | |
|-----------------------------|------------|---------|-----------|-------------|-----------|----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | 1D: R2 | 2685 | R | unNo: 2 | 2685 | | | | |
| Prep Date: | Analysis D | ate: 11 | /20/2014 | S | SeqNo: 60 | 68946 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | | | |
| 2-Hexanone | ND | 10 | | | | | | | | |
| Isopropylbenzene | ND | 1.0 | | | | | | | | |
| 4-Isopropyltoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | | | |
| n-Propylbenzene | NĐ | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | ND | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | NĐ | 1.0 | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.0 | | 10.00 | | 90.3 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 10 | | 10.00 | | 100 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 8.9 | | 10.00 | | 89.4 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.1 | | 10.00 | | 91.5 | 70 | 130 | | | |

| Sample ID 10000 | J LC\$200ngAnn Samp | rype: LC | 5 | ies | (Code: El | ATILES | | | | |
|-----------------|---------------------|-----------|-----------|-------------|-----------|----------|-------------|------|----------|------|
| Client ID: LCSV | V Bat | ch ID: R2 | 2685 | F | RunNo. 2 | 2685 | | | | |
| Prep Date: | Analysis | Date: 11 | 1/20/2014 | S | SeqNo: 6 | 68948 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 21 | 1.0 | 20.00 | 0 | 103 | 70 | 130 | | | |
| Toluene | 22 | 1.0 | 20.00 | 0 | 111 | 80 | 120 | | | |
| Chlorobenzene | 21 | 1.0 | 20.00 | 0 | 103 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

Page 40 of 49

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| | | | | •• | | - | | | | |
|--------------------------------|------------|----------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Sample ID 100ng Lcs200ng | Ann SampT | ype: LC | S | Tes | Code: E | PA Method | 8260B: VOL | ATILES | | |
| Client ID: LCSW | Batcl | D: R2 | 2685 | F | lunNo: 2 | 2685 | | | | |
| Prep Date: | Analysis C | Date: 11 | /20/2014 | S | SeqNo: 6 | 68948 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,1-Dichloroethene | 22 | 1.0 | 20.00 | 0 | 109 | 82.6 | 131 | | | |
| Trichloroethene (TCE) | 20 | 1.0 | 20.00 | 0 | 100 | 70 | 130 | | | |
| Surr: 1,2-Dichloroethane-d4 | 9.9 | | 10.00 | | 99.0 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.0 | | 10.00 | | 90.4 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.4 | | 10.00 | | 93.5 | 70 | 130 | | | |
| Surr: Toluene-d8 | 9.9 | | 10.00 | | 98.7 | 70 | 130 | | | |
| Sample ID b2 | SampT | ype: ME | BLK | Tes | (Code: E | PA Method | 8260B: VOL | ATILES | | |
| Client ID: PBW | Batcl | h ID: R2 | 2685 | F | RunNo: 2 | 2685 | | | | |
| Prep Date: | Analysis D | | | | SeqNo: 6 | | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | ND | 1.0 | | | | | | | | |
| Toluene | ND | 1.0 | | | | | | | | |
| Ethylbenzene | ND | 1.0 | | | | | | | | |
| Methyl tert-butyl ether (MTBE) | ND | 1.0 | | | | | | | | |
| 1,2,4-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,3.5-Trimethylbenzene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloroethane (EDC) | ND | 1.0 | | | | | | | | |
| 1,2-Dibromoethane (EDB) | ND | 1.0 | | | | | | | | |
| Naphthalene | ND | 2.0 | | | | | | | | |
| 1-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| 2-Methylnaphthalene | ND | 4.0 | | | | | | | | |
| Acetone | ND | 10 | | | | | | | | |
| Bromobenzene | ND | 1.0 | | | | | | | | |
| Bromodichloromethane | ND | 1.0 | | | | | | | | |
| Bromoform | ND | 1.0 | | | | | | | | |
| Bromomethane | ND | 3.0 | | | | | | | | |
| 2-Butanone | ND | 10 | | | | | | | | |
| Carbon disulfide | ND | 10 | | | | | | | | |
| Carbon Tetrachloride | ND | 1.0 | | | | | | | | |
| Chlorobenzene | ND | 1.0 | | | | | | | | |
| Chloroethane | ND | 2.0 | | | | | | | | |
| Chloroform | ND | 1.0 | | | | | | | | |
| Chloromethane | ND | 3.0 | | | | | | | | |
| 2-Chlorotoluene | ND | 1.0 | | | | | | | | |
| 4-Chlorotoluene | ND | 1.0 | | | | | | | | |
| cis-1,2-DCE | ND | 1.0 | | | | | | | | |
| cis-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID b2 | SampT | ype: ME | BLK | TestCode: EPA Method 8260B: VOLATILES | | | | | | |
|-----------------------------|------------|---------|-----------|---------------------------------------|----------|----------|-------------|------|----------|------|
| Client ID: PBW | Batch | ID: R2 | 2685 | F | RunNo: 2 | 2685 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/20/2014 | 5 | SeqNo: 6 | 68977 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| 1,2-Dibromo-3-chloropropane | NĐ | 2.0 | | | | | | | | |
| Dibromochloromethane | ND | 1.0 | | | | | | | | |
| Dibromomethane | ND | 1.0 | | | | | | | | |
| 1,2-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,3-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,4-Dichlorobenzene | ND | 1.0 | | | | | | | | |
| Dichlorodifluoromethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethane | ND | 1.0 | | | | | | | | |
| 1,1-Dichloroethene | ND | 1.0 | | | | | | | | |
| 1,2-Dichloropropane | ND | 1.0 | | | | | | | | |
| 1,3-Dichloropropane | ND | 1.0 | | | | | | | | |
| 2,2-Dichloropropane | ND | 2.0 | | | | | | | | |
| 1,1-Dichloropropene | ND | 1.0 | | | | | | | | |
| Hexachlorobutadiene | ND | 1.0 | | | | | | | | |
| 2-Hexanone | ND | 10 | | | | | | | | |
| Isopropylbenzene | NĐ | 1.0 | | | | | | | | |
| 4-Isopropyitoluene | ND | 1.0 | | | | | | | | |
| 4-Methyl-2-pentanone | ND | 10 | | | | | | | | |
| Methylene Chloride | ND | 3.0 | | | | | | | | |
| n-Butylbenzene | ND | 3.0 | | | | | | | | |
| n-Propylbenzene | ND | 1.0 | | | | | | | | |
| sec-Butylbenzene | ND | 1.0 | | | | | | | | |
| Styrene | ND | 1.0 | | | | | | | | |
| tert-Butylbenzene | ND | 1.0 | | | | | | | | |
| 1,1,1,2-Tetrachloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2,2-Tetrachloroethane | ND | 2.0 | | | | | | | | |
| Tetrachloroethene (PCE) | NĐ | 1.0 | | | | | | | | |
| trans-1,2-DCE | ND | 1.0 | | | | | | | | |
| trans-1,3-Dichloropropene | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,2,4-Trichlorobenzene | ND | 1.0 | | | | | | | | |
| 1,1,1-Trichloroethane | ND | 1.0 | | | | | | | | |
| 1,1,2-Trichloroethane | ND | 1.0 | | | | | | | | |
| Trichloroethene (TCE) | ND | 1.0 | | | | | | | | |
| Trichlorofluoromethane | ND | 1.0 | | | | | | | | |
| 1,2,3-Trichloropropane | ND | 2.0 | | | | | | | | |
| Vinyl chloride | ND | 1.0 | | | | | | | | |
| Xylenes, Total | ND | 1.5 | | | | | | | | |
| Surr: 1,2-Dichloroethane-d4 | 10 | | 10.00 | | 102 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID b2 | SampT | SampType: MBLK | | | Code: El | PA Method | 8260B: VOL | ATILES | | |
|----------------------------|------------|------------------|-----------|-------------|----------|-----------|-------------|--------|----------|------|
| Client ID: PBW | Batch | Batch ID: R22685 | | | tunNo: 2 | 2685 | | | | |
| Prep Date: | Analysis D | ate: 1 | 1/20/2014 | 8 | ieqNo: 6 | 68977 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Surr: 4-Bromofluorobenzene | 9.1 | | 10.00 | | 91.2 | 70 | 130 | | | |
| Surr: Dibromofluoromethane | 9.6 | | 10.00 | | 95.7 | 70 | 130 | | | |
| Sur: Toluene-d8 | 8.8 | | 10.00 | | 88.3 | 70 | 130 | | | |

| Sample ID 100ng Ics2 | SampT | ype: LCS TestCode: EPA Method 8260B: VOLATILES | | | | | | | | |
|-----------------------------|------------|--|-----------|-------------|-----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batch | ID: R2 | 2685 | R | RunNo: 22 | 2685 | | | | |
| Prep Date: | Analysis D | ate: 11 | 1/21/2014 | S | SeqNo: 60 | 68979 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzene | 21 | 1.0 | 20.00 | 0 | 107 | 70 | 130 | | | |
| Toluene | 22 | 1.0 | 20.00 | 0 | 109 | 80 | 120 | | | |
| Chlorobenzene | 20 | 1.0 | 20.00 | 0 | 101 | 70 | 130 | | | |
| 1,1-Dichloroethene | 23 | 1.0 | 20.00 | 0 | 116 | 82.6 | 131 | | | |
| Trichloroethene (TCE) | 21 | 1.0 | 20.00 | 0 | 105 | 70 | 130 | | | |
| Surr. 1,2-Dichloroethane-d4 | 10 | | 10.00 | | 99.7 | 70 | 130 | | | |
| Surr: 4-Bromofluorobenzene | 9.9 | | 10.00 | | 98.9 | 70 | 130 | | | |
| Surr Dibromofluoromethane | 9.2 | | 10.00 | | 92.0 | 70 | 130 | | | |
| Sur: Toluene-d8 | 10 | | 10.00 | | 99.6 | 70 | 130 | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID mb-16428 | SampT | уре: МВ | LK | Tes | tCode: E | PA Method | 8270C: PAHs | | | |
|------------------------|------------|----------|-------------|-------------|----------|-----------|-------------|------|----------|------|
| Client ID: PBW | Batch | ID: 164 | 28 | F | RunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis D | ate: 11/ | 18/2014 | S | SeqNo: 6 | 66994 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Naphthalene | ND | 0.50 | | | | | | | | |
| 1-Methylnaphthalene | ND | 0.50 | | | | | | | | |
| 2-Methylnaphthalene | ND | 0.50 | | | | | | | | |
| Acenaphthylene | NĐ | 0.50 | | | | | | | | |
| Acenaphthene | ND | 0.50 | | | | | | | | |
| Fluorene | ND | 0.50 | | | | | | | | |
| Phenanthrene | ND | 0.50 | | | | | | | | |
| Anthracene | ND | 0.50 | | | | | | | | |
| Fluoranthene | ND | 0.50 | | | | | | | | |
| Рутеле | ND | 0.50 | | | | | | | | |
| Benz(a)anthracene | ND | 0.50 | | | | | | | | |
| Chrysene | ND | 0.50 | | | | | | | | |
| Benzo(b)fluoranthene | ND | 0.50 | | | | | | | | |
| Benzo(k)fluoranthene | ND | 0.50 | | | | | | | | |
| Benzo(a)pyrene | ND | 0.50 | | | | | | | | |
| Dibenz(a,h)anthracene | NĐ | 0.50 | | | | | | | | |
| Benzo(g,h,i)perylene | ND | 0.50 | | | | | | | | |
| Indeno(1,2,3-cd)pyrene | ND | 0.50 | | | | | | | | |
| Surr: N-hexadecane | 62 | | 87.60 | | 70.6 | 29.9 | 83.2 | | | |
| Surr: Benzo(e)pyrene | 15 | | 20.00 | | 73.6 | 22.6 | 106 | | | |
| Sample ID Ics-16428 | SampTy | ype: LCS | | Tesi | Code: El | PA Method | 8270C: PAHs | | | |

| | Carrie . | oup., po. 200 | | | 100000. El Alliobiod office, i Allo | | | | | | |
|-----------------------|------------|---------------|-----------|-------------|-------------------------------------|----------|-------------|------|----------|------|--|
| Client ID: LCSW | Batc | h ID: 16 | 428 | F | RunNo: 2 | 2616 | | | | | |
| Prep Date: 11/18/2014 | Analysis [| Date: 11 | 1/18/2014 | S | SeqNo: 6 | 66995 | Units: µg/L | | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual | |
| Naphthalene | 12 | 0.50 | 20.00 | 0 | 59.1 | 37.5 | 104 | | | | |
| 1-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 61.0 | 39.4 | 108 | | | | |
| 2-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 58.5 | 40.5 | 98.2 | | | | |
| Acenaphthylene | 12 | 0.50 | 20.00 | 0 | 60.2 | 43.6 | 103 | | | | |
| Acenaphthene | 12 | 0.50 | 20.00 | 0 | 61.3 | 42.1 | 104 | | | | |
| Fluorene | 12 | 0.50 | 20.00 | 0 | 61.5 | 45.7 | 105 | | | | |
| Phenanthrene | 12 | 0.50 | 20.00 | 0 | 58.8 | 52.6 | 104 | | | | |
| Anthracene | 12 | 0.50 | 20.00 | 0 | 59.8 | 52.8 | 104 | | | | |
| Fluoranthene | 13 | 0.50 | 20.00 | 0 | 66.8 | 53.4 | 109 | | | | |
| Pyrene | 12 | 0.50 | 20.00 | 0 | 62.3 | 44.9 | 108 | | | | |
| Benz(a)anthracene | 13 | 0.50 | 20.00 | 0 | 63.2 | 45.1 | 110 | | | | |
| Chrysene | 8.2 | 0.50 | 20.00 | 0 | 41.2 | 40.1 | 131 | | | | |
| Benzo(b)fluoranthene | 13 | 0.50 | 20.00 | 0 | 62.8 | 49.9 | 105 | | | | |
| | | | | | | | | | | | |

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

| Sample ID Ics-16428 | • | ype: LC | | | | | 8270C: PAHs | | | |
|------------------------|------------|---------|-----------|---------------|----------|----------|-------------|------|----------|------|
| Client ID: LCSW | Batch | ID: 16 | 428 | F | RunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis D | ate: 11 | /18/2014 | SeqNo: 666995 | | | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Benzo(k)fluoranthene | 13 | 0.50 | 20,00 | 0 | 65.3 | 49.4 | 103 | | | |
| Benzo(a)pyrene | 13 | 0.50 | 20.00 | 0 | 62,7 | 49 | 100 | | | |
| Dibenz(a,h)anthracene | 13 | 0.50 | 20.00 | 0 | 63.7 | 52.9 | 115 | | | |
| Benzo(g,h,i)perylene | 12 | 0.50 | 20.00 | 0 | 59.4 | 43.6 | 107 | | | |
| Indeno(1,2,3-cd)pyrene | 12 | 0.50 | 20.00 | 0 | 59.0 | 47.6 | 102 | | | |
| Surr. N-hexadecane | 68 | | 87,60 | | 78.2 | 29.9 | 83.2 | | | |
| Surr: Benzo(e)pyrene | 16 | | 20.00 | | 82.0 | 22,6 | 106 | | | |

| Sample ID Icsd-16428 | SampT | ype: LC | SD | TestCode: EPA Method 8270C: PAHs | | | | | | |
|------------------------|------------|-----------|-----------|----------------------------------|----------|----------|-------------|-------|----------|------|
| Client ID: LCSS02 | Batcl | n ID: 164 | 128 | F | RunNo: 2 | 2616 | | | | |
| Prep Date: 11/18/2014 | Analysis D | ate: 11 | /18/2014 | \$ | SeqNo: 6 | 66996 | Units: µg/L | | | |
| Analyte | Result | PQL | SPK value | SPK Ref Val | %REC | LowLimit | HighLimit | %RPD | RPDLimit | Qual |
| Naphthalene | 12 | 0.50 | 20.00 | 0 | 58.9 | 37.5 | 104 | 0.339 | 20 | |
| 1-Methylnaphthalene | 12 | 0.50 | 20.00 | 0 | 59.3 | 39.4 | 108 | 2.83 | 26.8 | |
| 2-Methylnaphthalene | 12 | 0.50 | 20,00 | 0 | 60.4 | 40.5 | 98.2 | 3.20 | 23.8 | |
| Acenaphthylene | 12 | 0.50 | 20.00 | 0 | 58.1 | 43.6 | 103 | 3.55 | 28.6 | |
| Acenaphthene | 12 | 0.50 | 20.00 | 0 | 60.3 | 42.1 | 104 | 1.64 | 27 | |
| Fluorene | 12 | 0.50 | 20.00 | 0 | 60.3 | 45.7 | 105 | 1.97 | 25.7 | |
| Phenanthrene | 13 | 0.50 | 20.00 | 0 | 63.7 | 52.6 | 104 | 8.00 | 20 | |
| Anthracene | 13 | 0.50 | 20.00 | 0 | 64.8 | 52.8 | 104 | 8.03 | 21.2 | |
| Fluoranthene | 13 | 0.50 | 20.00 | 0 | 65.8 | 53.4 | 109 | 1.51 | 21.8 | |
| Pyrene | 13 | 0.50 | 20.00 | 0 | 64.4 | 44.9 | 108 | 3,31 | 31.1 | |
| Benz(a)anthracene | 13 | 0.50 | 20.00 | 0 | 62.6 | 45.1 | 110 | 0.954 | 26.6 | |
| Chrysene | 8.6 | 0.50 | 20.00 | 0 | 43.2 | 40.1 | 131 | 4.74 | 21.2 | |
| Benzo(b)fluoranthene | 13 | 0.50 | 20.00 | 0 | 65,9 | 49.9 | 105 | 4.82 | 20 | |
| Benzo(k)fluoranthene | 14 | 0.50 | 20.00 | 0 | 72.0 | 49.4 | 103 | 9.82 | 21 | |
| Benzo(a)pyrene | 13 | 0.50 | 20.00 | 0 | 66.2 | 49 | 100 | 5.43 | 24.8 | |
| Dibenz(a,h)anthracene | 13 | 0.50 | 20.00 | 0 | 65.0 | 52.9 | 115 | 2.02 | 26 | |
| Benzo(g,h,i)perylene | 13 | 0.50 | 20.00 | 0 | 63.2 | 43.6 | 107 | 6.20 | 20 | |
| Indeno(1,2,3-cd)pyrene | 13 | 0.50 | 20.00 | 0 | 63.2 | 47.6 | 102 | 6.87 | 20 | |
| Surr: N-hexadecane | 59 | | 87.60 | | 67.1 | 29.9 | 83.2 | 0 | 0 | |
| Surr: Benzo(e)pyrene | 14 | | 20.00 | | 67.5 | 22.6 | 106 | 0 | 0 | |

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- O RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- P Sample pH greater than 2.
- RL Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID 1411608-001c dup

SampType: DUP

TestCode: SM2510B: Specific Conductance

Client ID: GBR-31

Batch ID: R22708

RunNo: 22708

Prep Date:

Analysis Date: 11/20/2014

SeqNo: 669758

Units: µmhos/cm

Analyte

Result

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD **RPDLimit** Qual

Conductivity

PQL 3100 0.010

0.256

20

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

RSD is greater than RSDlimit

RPD outside accepted recovery limits

Spike Recovery outside accepted recovery limits

Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2 P

Reporting Detection Limit

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Hall Environmental Analysis Laboratory, Inc.

WO#: 1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID 1411608-001c dup

SampType: DUP

TestCode: SM4500-H+B: pH

Client ID: **GBR-31**

Batch ID: R22708

RunNo: 22708

Prep Date:

Analysis Date: 11/20/2014

SeqNo: 669788

SPK value SPK Ref Val %REC LowLimit

Units: pH units

HighLimit

RPDLimit %RPD Qual

Н

Analyte

7.45

Result

PQL 1.68

Qualifiers:

Value exceeds Maximum Contaminant Level.

E Value above quantitation range

Analyte detected below quantitation limits

0 RSD is greater than RSDlimit

R RPD outside accepted recovery limits

S Spike Recovery outside accepted recovery limits В Analyte detected in the associated Method Blank

Н Holding times for preparation or analysis exceeded

Not Detected at the Reporting Limit

Sample pH greater than 2.

RL Reporting Detection Limit Page 47 of 49

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Sample ID mb-1

SampType: MBLK

TestCode: SM2320B: Alkalinity

Client ID: PBW

Batch ID: R22708

RunNo: 22708

Prep Date:

Analysis Date: 11/20/2014

SeqNo: 669700

Units: mg/L CaCO3

Analyte

Result

PQL

SPK value SPK Ref Val %REC LowLimit

HighLimit

RPDLimit

Qual

Total Alkalinity (as CaCO3)

ND 20

SampType: LCS

TestCode: SM2320B: Alkalinity

Sample ID Ics-1 Client ID: LCSW

Sample ID mb-2

Client (D: PBW

Batch ID: R22708

RunNo: 22708

Prep Date:

Analysis Date: 11/20/2014

SeqNo: 669701

Units: mg/L CaCO3

Analyte

Result

80.00

%REC LowLimit

HighLimit

RPDLimit

Qual

PQL 79 20

SPK value SPK Ref Val 80.00

99.2

110

%RPD

%RPD

Total Alkalinity (as CaCO3)

SampType: MBLK

Batch ID: R22708

TestCode: SM2320B: Alkalinity

RunNo: 22708 SeqNo: 669724

Units: mg/L CaCO3

Prep Date: Analyte

Analysis Date: 11/20/2014 Result POL

Result

81

SPK value SPK Ref Val %REC LowLimit

HighLimit %RPD **RPDLimit**

Qual

Total Alkalinity (as CaCO3)

Sample ID Ics-2

Client ID: LCSW

ND 20

SampType: LCS

Batch ID: R22708

TestCode: SM2320B: Alkalinity

RunNo: 22708

Prep Date:

Analysis Date: 11/20/2014

SeqNo: 669725

HighLimit

Units: mg/L CaCO3

%RPD

LowLimit

RPDLimit

Qual

Analyte Total Alkalinity (as CaCO3)

PQL SPK value 20

SPK Ref Val

%REC 101

110

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Ę Value above quantitation range
- Analyte detected below quantitation limits J
- RSD is greater than RSDlimit
- RPD outside accepted recovery limits Spike Recovery outside accepted recovery limits
- Analyte detected in the associated Method Blank
- Н Holding times for preparation or analysis exceeded
- Not Detected at the Reporting Limit
- Sample pH greater than 2.
- Page 48 of 49
- Reporting Detection Limit

Hall Environmental Analysis Laboratory, Inc.

WO#:

1411608

11-Dec-14

Client:

Western Refining Southwest, Inc.

Project:

GBR Annual Sampling

Result

Sample ID MB-16496

SampType: MBLK

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: **PBW**

Batch ID: 16496

RunNo: 22713

Units: mg/L

Analyte

Prep Date:

11/20/2014

Analysis Date: 11/21/2014

SeqNo: 669879

HighLimit

%RPD **RPDLimit** Qual

Total Dissolved Solids

Analyte

PQL ND 20.0

Sample ID LCS-16496

SampType: LCS

TestCode: SM2540C MOD: Total Dissolved Solids

Client ID: LCSW

Batch ID: 16496

RunNo: 22713

Units: mg/L

Prep Date: 11/20/2014

Analysis Date: 11/21/2014

PQL

SegNo: 669880

HighLimit

%RPD **RPDLimit**

Qual

1000

SPK value SPK Ref Val

%REC

101

120

Total Dissolved Solids

1010

20.0

0

SPK value SPK Ref Val %REC LowLimit

80

LowLimit

Qualifiers:

- Value exceeds Maximum Contaminant Level.
- Value above quantitation range Е
- Analyte detected below quantitation limits
- 0 RSD is greater than RSDlimit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits
- В Analyte detected in the associated Method Blank
- Holding times for preparation or analysis exceeded Н
- ND Not Detected at the Reporting Limit
- Sample pH greater than 2. Reporting Detection Limit

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Hall Environmental Analysis Laboratory 4901 Hawkins NE Albuquerque, NM 87105 TEL: 505-345-3975 FAX: 505-345-4107 Website: www.hallenvironmental.com

Sample Log-In Check List

| Client Name: Western Refining Southw Work Order Numb | er: 1411608 | | RcptNo: 1 | |
|--|----------------|-------------|-------------------------|-----------------|
| Received by/date: A F 11/15/2014 | | | | |
| Logged By: Ashley Gallegos 11/15/2014 10:00:00 | AM | A P | | |
| Completed By: Ashley Gallegos 11/17/2014 10:45:36 | AM | A I | | 3 |
| Reviewed By: CS 14714 | | ď | | |
| Chain of Custody | 1.00 | | | |
| 1. Custody seals intact on sample bottles? | Yes 🗆 | No 🗆 | Not Present 🗹 | |
| 2. Is Chain of Custody complete? | Yes 🗹 | No 🗆 | Not Present 🔲 | |
| 3. How was the sample delivered? | Courler | | | |
| <u>Log In</u> | | | | |
| 4. Was an attempt made to cool the samples? | Yes 🗹 | No 🗆 | NA 🗆 | |
| 5. Were all samples received at a temperature of >0° C to 6.0°C | Yes 🗹 | No 🗆 | na 🗆 | |
| 6. Sample(s) in proper container(s)? | Yes 🗹 | No 🗆 | | |
| 7. Sufficient sample volume for indicated test(s)? | Yes 🗹 | No 🗆 | | |
| 8. Are samples (except VOA and ONG) properly preserved? | Yes 🗹 | No 🗆 | | |
| 9. Was preservative added to bottles? | Yes 🗆 | No 🗹 | NA 🗆 | |
| 10.VOA vials have zero headspace? | Yes 🗹 | No 🗆 | No VOA Vials | |
| 11. Were any sample containers received broken? | Yes 🗆 | No 🗹 | # of preserved | 200 |
| 12.Does paperwork match bottle tabels? (Note discrepancies on chain of custody) | Yes 🔽 | No 🗆 | bottles checked for pH: | 12 unless noted |
| 13. Are matrices correctly identified on Chain of Custody? | Yes 🗹 | No 🗆 | Adjusted?~\ | |
| 14, Is it clear what analyses were requested? | Yes 🗹 | No 🗀 | 21 | |
| 15. Were all holding times able to be met? (If no, notify customer for authorization.) | Yes 🗹 | No 📙 | Checked by: | |
| Special Handling (if applicable) | | | | |
| 16. Was client notified of all discrepancies with this order? | Yes 🗆 | No 🗆 | NA 🗹 | |
| Person Notified: Date: | | | | |
| By Whom: Via: | _ eMall _ | Phone 🔲 Fax | ☐ In Person | |
| Regarding: | | | | |
| Client Instructions: | | | | |
| 17. Additional remarks: | | | | |
| 18. Cooler Information | Cool Balls 1 | Stand St. | | |
| Cooler No Temp C Condition Seal Intact Seat No 1 4.5 Good Yes | Seal Date | Signed By | | |

| HALL ENVIRONMENTAL ANALYSIS LABORATORY www.hallenvironmental.com 4901 Hawkins NE - Albuquerque, NM 87109 Tel. 505-345-3975 Fax 505-345-4107 Analysis Request | 8TEX + MTBE + TMB's (8021) BTEX + MTBE + TPH (Gas only) TPH Method 8015B (Gas/Dlesel) TPH (Method 418.1) EDB (Method 504.1) 8310 (PNA or PAH) RCRA 8 Metals Anions (F,CI,NO ₂ ,NO ₂ ,PO ₄ ,SO ₄) 8081 Pesticides / 8082 PCB's 8260B (VOA) 8260B (VOA) 8270 (Semi-VOA) Sellotter (You N) | | × × | | X > | ×× | 7 | Remarks: Dease email results to | acager Oltenv. com | died laboratores. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report |
|--|--|-------------------|----------|---------------|------------|----------------------------|---|---------------------------------|--------------------|---|
| Chain-of-Custody Record Tum-Around Time: Clent: Kelly Robinson Standard Broject Name: Western Pefining Project Name: Mailing Address: 11 c. 4460 C. BR Annoul Schmpling Eloom-Field UM, 87413 Project #. | ckage: and Level 4 (Full Validation) from and other Sampler Type) Time Matrix Sample Request ID Contain | 3 Various Various | - (BR-30 | 1025 UDE AT U | | 1410 System Influent - 005 | | Date: Time: Re-inquished by: | 4, | If recossary, famples submitted to Half Environmental may be subcontracted to other accoss |

TABLE 1

2012 SAMPLING SCHEDULE FORMER GIANT BLOOMFIELD REFINERY WESTERN REFINING

| Sample ID | ANNUALLY (Jan) | Notes: |
|-----------------------------|----------------|----------------|
| | VOC | YOC |
| System Influent | GWC | mathod 8260 |
| | •VOC • | |
| Compared III (Compared III) | ■GWQ= | PAIL |
| CSystem Effluent | METALS | method 8270 |
| | PAH | |
| - 07.m.cv - 0 | VOC | GWC |
| GRW-3 | GWC | pil |
| | PAH | EC |
| | VOC | TDS |
| GRW-6 | GWC | alkalinity |
| | PAH | hardness |
| | VoC | anions |
| GBR-17 | GWC | biomid |
| | PAH | chloride |
| | VOC | sulfat |
| CBR 24D | GWC | fluorid |
| | PAH | nitrate/nitrit |
| | VOC | phosporu |
| GBR-30 | GWC | cations |
| | PAH | calciun |
| | VOC | inor |
| GBR-31 | GWC | nugnesiun |
| | PAH 📑 | manganes |
| | VOC | potassiun |
| GBR-32 | GWC | sodiun |
| | METALS | |
| | VOC | Metals |
| GBR-48 | GWC | barium = |
| | METALS | beryllium 1 |
| | VOC | cadmium 1 |
| GBR-49 | GWC | chromium , |
| | METALS | copper |
| | VOC | lead * |
| GBR-50 | GWC | nickel * |
| W-1- | METALS | silver |
| | VOC | zinc |
| GBR-51 | GWC | antimony * |
| | VOC | arsenic * |
| CBR-52 | GWC | selenium 🔹 |
| | VOC | thallium , |
| S11S-8 | GWC | mercury , |



| Sal |
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