AP - 111

EVAPORATION PONDS

2012 - Present

Chavez, Carl J, EMNRD

From: VanHorn, Kristen, NMENV
Sent: Monday, August 22, 2016 8:18 AM
To: Riege, Ed
Cc: Hains, Allen (Allen.Hains@wnr.com); Chavez, Carl J, EMNRD; Cobrain, Dave, NMENV; Dhawan, Neelam, NMENV; Holcomb, Sarah, NMENV; king.laurie@epa.gov
Subject: Disapproval EP 7 Dike Breach Letter Report
Attachments: Disapproval_LetterReport_DikeBreachandRepairs_August2016.pdf

Please see the attached correspondence.

If you have any questions, please contact me.

Thank you,
Kristen

Kristen Van Horn
NMED Hazardous Waste Bureau
2905 Rodeo Park Drive East
Building 1
Santa Fe, NM 87505
Phone: 505-476-6046
Email: *Kristen.VanHorn@state.nm.us*

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Governor
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Lieutenant Governor

BUTCH TONGATE
Acting Cabinet Secretary
J. C. BORREGO
Acting Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

August 22, 2016

Mr. Ed Riege
Remediation Manager
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: DISAPPROVAL
LETTER REPORT EVAPORATION POND 7 DIKE BREACH AND
SUMMARY REPORT EVAPORATION POND REPAIRS
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-15-006

Dear Mr. Riege:

In March and April of 2015 the New Mexico Environment Department (NMED) and the Oil Conservation Division (OCD) contacted Western Refining Southwest, Inc. Gallup Refinery (the Permittee) regarding requirements related to the repair of evaporation pond berms. The Permittee subsequently submitted a report discussing the breach and repair of the Evaporation Pond 7 berm as well as improvements to several other evaporation pond berms. NMED has completed its review of the Permittee's *Letter Report Evaporation Pond 7 Dike Breach and Summary Report Evaporation Pond Repairs* (Report), dated December 2015 and hereby issues this Disapproval with the following comments.

Comment 1

In Section III (Miscellaneous), Part B (Pond Integrity), the Permittee states, "NMED's April 8, 2015 letter states 'seepage is likely occurring' and 'there is evidence that the berms are still in need of repair.' NMED notes that the basis for this observation is information from an August 2014 U.S. Environmental Protection Agency (EPA) RCRA compliance inspection. EPA' s

Inspection Report indicated that EPA had observed what it believed was moisture at a pond dike, and included several photographs, all of Pond 6. Western received EPA's Inspection Report in Fall 2014 and completed significant berm improvements on Pond 6 in March 2015, prior to receiving NMED's April 8th letter. Western also completed improvements to other pond dikes during this same time period." Section 2.4.3 (Pond 7/8 West Berm Soil Borings) describes the soils as "[t]he berm fill soil was characterized as a red, silt to clay moist soil, until the native material was encountered around 12 feet deep. Native material was characterized as gray fine sand overlaying a stiff wet red clay." Soil boring logs presented in Appendix D (Soil Boring Logs) indicate that there are "wet" layers in the soils within the evaporation pond berms along Ponds 7 and 8. Sand layers are also identified in the berm boring logs. The boring logs provided in Appendix C indicate water was present when those borings were installed in 2000. For example Boring 8 (Southwest Corner of Pond 9A) indicates that the depth to water is 18 feet with a note "water bearing at 18', water rises to 6'2" after 24-hours and stabilizes." From 10 feet below the berm surface and down, the soil descriptions are "slightly sandy" at 10 feet, "very sandy" at 15 feet, and "sandy" at 20 feet. This is evidence that the evaporation pond berms allow water to seep through in spite of the calculated 1.9×10^{-7} cm/sec permeability. In the revised Report, discuss the permeability of the berms, the sand layers, and whether or not the water observed in the borings presents a risk for berm failure. See also Comment 4.

Comment 2

In Section III (Miscellaneous) point B, bullet 1 the Permittee discusses the placement of additional evaporation blowers to help in lowering the amount of water in the evaporation ponds. In the revised Report discuss the frequency (e.g., continuous, as needed) the blowers will be used.

Comment 3

In Section III (Miscellaneous) point B, bullet 3 the Permittee discusses new staff gauges that were installed to measure current storage, remaining storage volume, and freeboard in the evaporation ponds. The Permittee must keep track of these measurements and report the data in table format in the annual Facility-wide Groundwater Monitoring Report. Additionally, the Permittee must also report on evaporation pond inspections, maintenance, and/or repairs to the evaporation pond berms in the annual Facility Wide Groundwater Monitoring Report.

Comment 4

In Section 2.4.4 the Permittee states, "[w]ater levels (if present) have been measured in the drive-point piezometers three times since installation (as of November 11, 2015) and that data is contained in the piezometer logs in Appendix E. Due to the low permeability clay soil in the berms, as of December 2015, the water levels in the piezometers have not yet completely stabilized. Western will continue to monitor the water levels in the piezometers as needed. The drive-point piezometer logs also visually illustrate the location of the phreatic surface." The piezometer logs indicate that surface water is entering the casing at the ground surface in a few

of the piezometers (e.g., Pond 6, Piezometer E), ensure that the casing is constructed so that surface water cannot infiltrate the casing. Additionally, in the revised Report discuss how often water levels in the piezometer will be monitored and reference that the information will be reported in an annual status report (See Comment 3). Also, discuss whether or not the piezometric surface is below the potential or existing sliding surface or below the stability threshold for the berm slopes and discuss what measures will be taken if the water levels in the piezometers increase to the point where slope failure is possible.

Specific Geotechnical Comments

Comment 5

The stability of the embankment slopes was evaluated using total stress rather than effective stress analysis methods. Total stress analyses involve less sophisticated (and less costly) laboratory strength test methods than effective stress analyses and were in common usage thirty or more years ago. It has since become clear to the engineering profession that the strength behavior of soil is best characterized in terms of effective stresses, where the pressure of the water within the pores of the soil is explicitly accounted for. In total stress analyses, by comparison, pore water pressures are simply lumped into the soil strength value without quantification. The total stress method, because of the soil testing methodology employed, can potentially involve computations that involve artificially high values of soil cohesion, which, in turn, may lead to falsely high computed factors of safety (FS). Although the stability of the embankment slopes may indeed be satisfactory, that conclusion cannot reasonably be drawn from the data presented.

In order to assess whether the stability of each embankment lies within an acceptable range (for example, the FS = 1.5 for long term stability of the downstream face), all stability analyses must be repeated using the effective stress method in the context of the Bishop Method or the Morgenstern Price method. This requires retesting the soils to determine their effective stress shear strength parameters (φ and c) using, for example, the direct shear method (a drained test) or the triaxial test (a drained test or, alternatively, an undrained test with pore pressure measurement). Provide a work plan proposing to collect additional soil data from the evaporation pond berms.

Comment 6

The slope stability analyses did not include an assessment of potential seismic loading conditions. A pseudo-seismic analysis must be performed for this purpose. As required by 40 CFR § 257.74(3)(e)(iv) and discussed in Seed, H.B. 1979. Geotechnique Vol. 29, No. 3. An appropriate peak ground acceleration (PGA) should be applied to determine if the proposed slopes are stable under a seismic load. It is recommended that a PGA (2% over 50 years) of 0.081g based on current mapping be applied. The liquefaction potential of the berm material must also be evaluated.

Comment 7
It is not clear how the water level was determined for the Pond 9 north rebuild section. It does not appear that piezometers were installed in the embankment. In addition, boring logs in the area seem to present conflicting information. Provide information regarding how the groundwater levels were determined for this section and to discuss the method used to measure the water level.

Comment 8
The Report does not provide information on how the strengths and unit weights for each soil type were determined, nor does it provide information as to how the delineations of soil materials were determined. Boring logs from 2002 do not contain elevations and no geotechnical lab data were provided concerning the soil material used to complete repairs in 2013 and 2015. The analysis must include this information so that slope stability analyses are accurate and also so that a technical evaluation of the soils geotechnical information may be completed. If historic boring logs do not include elevations and geotechnical laboratory data, then the Permittee must provide a schedule to submit a work plan proposing to collect additional soil boring data.

Comment 9
The Report does not specify whether rapid drawdown will be employed during site operations. If rapid drawdown is expected to occur, then a rapid drawdown analysis must be conducted to investigate the stability of interior slope faces of any pond embankment that is potentially subject to instances of abrupt lowering of the water level in the pond. Under such circumstances, the rate of dissipation of pore water pressures in the embankment soils, which have developed under long term steady state conditions, cannot keep pace with the lowering of the pond level. This results in excess pore pressures in the embankment that are likely to reduce embankment stability below that of long term steady state conditions. If the Permittee expects rapid drawdown at the evaporation ponds, then this analysis must be conducted. Please revise the Report accordingly.

Comment 10
The Report does not specify whether loading to the berms is anticipated. The analyses were run assuming there would be no loadings on the berms (that is, no vehicular axle loadings and no dead loads). Traffic or high loadings on the berms must be included in the analysis if, in fact, such loadings are present or may occur.

Comment 11
The graphical output profile of the Slope/W runs is confusing. Although the output file appears to provide a detailed summary of the specific run, the delineation of materials and zones is unclear. Also, in some runs, the critical failure plane is cut off and not within the limits of the profile. The graphical output must be portrayed at a scale that shows the full profile and is clear and understandable so that the stability of the slope can be confidently evaluated. Revise the Report accordingly.

Comment 12

In the revised Report, the following design scenarios must be evaluated in order to determine whether their inclusion would significantly impact embankment stability:

1. Utilize a more conservative estimate of the groundwater elevation through the embankment for Pond 6 (west to east) and Pond 8 (south to north), using the November 11, 2015 readings from Piezometers A and E.

2. In the Slope/W runs, larger entry/exit ranges with more convergence/slip surfaces for each point must be utilized to increase confidence that the critical failure surface (that is, the surface with the lowest factor of safety) had, in fact, been identified.

3. The Report does not explicitly state why the sections were cut where they were. Revise the Report to discuss the decision process. Additionally:

   a) move Section 6 to the southwest and extending Section 6 into the bottom of Pond 7 to enable a stability analysis of the interior slopes of Ponds 6 and 7, including a surcharge loading (as appropriate). [See Annotated Drawing 6a, note 5];

   b) move Section 8 slightly to the west to capture the low point of the pond, corresponding to what appears to be the tallest and most appropriate embankment section for the analysis of stability. [See Annotated Drawing 6a, note 6]; and

   c) extend Section 9A directly north into the Pond 6 bottom, so the stability analysis is performed of the interior slopes of Ponds 6 and 9, with the inclusion of surcharge loads, as appropriate. [See Annotated Drawing 6a, note 7]

The Permittee must submit a revised Report. The submittal must be in the form of two bound paper copies and also an electronic copy that includes a redline-strikeout version of the Report that shows where all changes have been made to the Report. The revised Report must be submitted on or before **February 21, 2017**. Please ensure that NMED and OCD are both copied on all correspondence and submittals regarding this issue.

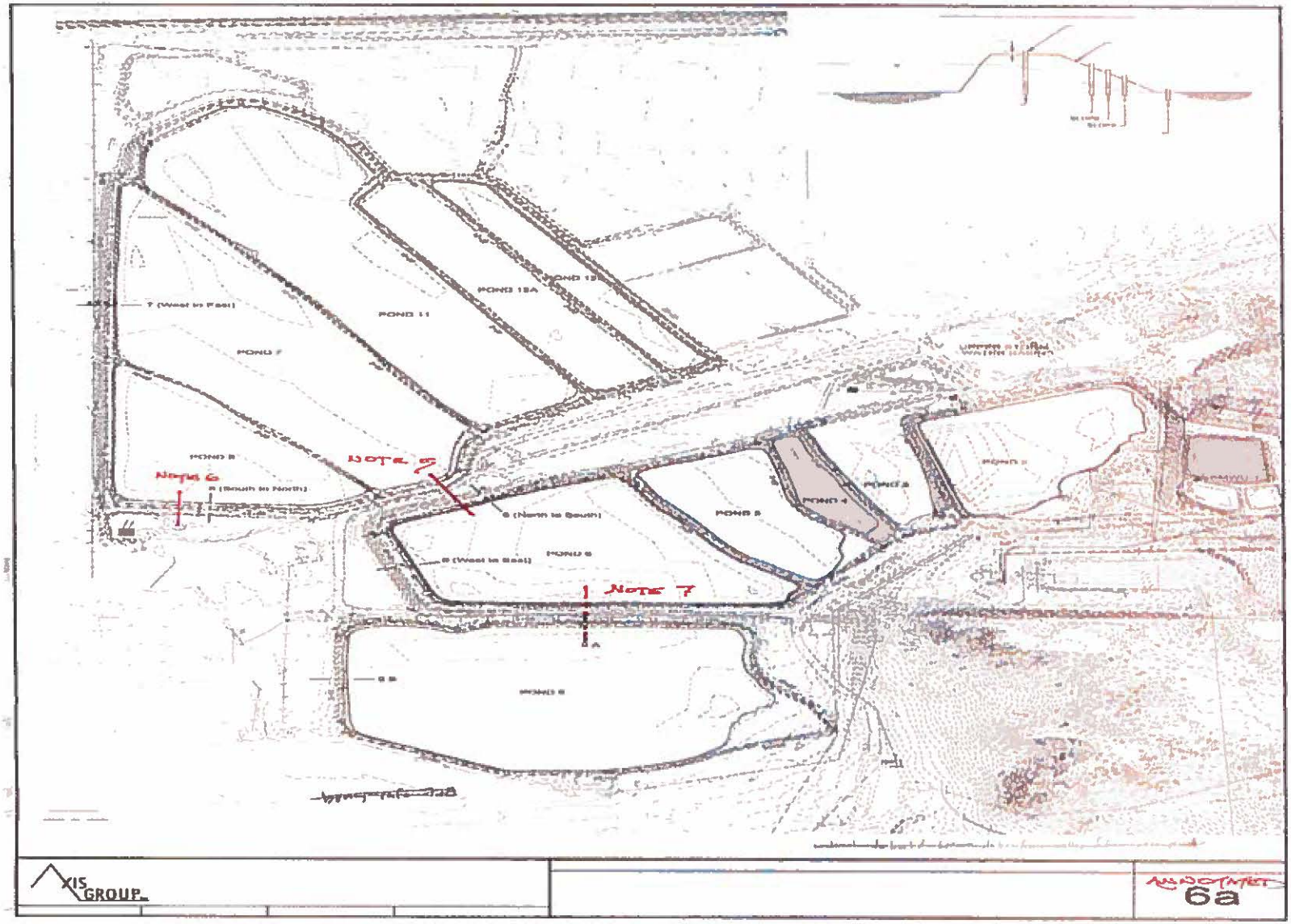
If you have questions regarding this Requirement, please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
K. Van Horn, NMED HWB
A. Hains, WRG
C. Chavez, EMNRD OCD
S. Holcomb, NMED SWQB
L. King, EPA

File: Reading File and WRG 2016 File
WRG-15-006



XIS GROUP

ATTACHMENT 6a

NEW MEXICO
ENVIRONMENT DEPARTMENT

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Cabinet Secretary
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Deputy Secretary

CERTIFIED MAIL – RETURN RECEIPT REQUESTED

August 4, 2014

Mr. Ed Riege
Environmental Manager
Western Refining, Southwest Inc., Gallup Refinery
92 Giant Crossing Road
Gallup, New Mexico 87301

RE: DISAPPROVAL
EVAPORATION POND 7 DIKE BREACH
WESTERN REFINING SOUTHWEST INC., GALLUP REFINERY
EPA ID # NMD000333211
HWB-WRG-14-003

Dear Mr. Riege:

The New Mexico Environment Department (NMED) has received Western Refining Southwest Inc., Gallup Refinery's (Permittee) letter report, *Evaporation Pond 7 Dike Breach* (Report), dated April 2014. Based on the review of the Report, NMED hereby issues this disapproval with the following comments requiring the Permittee's response.

Comment 1

The Permittee states in the final paragraph of page 2 of the Report that, "NMED noted in its March 20th email that previous water samples from Pond 7 had contained concentrations of several constituents above "screening levels." Western would like to clarify that the screening levels reported in the previous submittals of the Gallup Refinery Annual Groundwater Monitoring Reports are specific to groundwater and were included in all data tables for initial comparison purposes only. However, the groundwater screening levels are not applicable to water in the refinery's evaporation ponds. We also note that the evaporation ponds at the Gallup Refinery are not "surface water(s) of the State," as defined in New Mexico Administrative Code 20.6.4.7.CCC." It appears the Permittee used CCC as a placeholder, the citation is 20.6.4.7.S(5)

NMAC which states, "[w]aste treatment systems, including treatment ponds or lagoons designed and actively used to meet requirements of the Clean Water Act (other than cooling ponds as defined in 40 CFR Part 423.11(m) that also meet the criteria of this definition), are not surface waters of the state, unless they were originally created in surface waters of the state or resulted in the impoundment of surface waters of the state." The evaporation ponds are not waters of the state as defined in NMAC; however, evaporation ponds are hazardous waste surface impoundments, because hazardous waste has been discharged to the ponds in the past, and wastewater stored in the evaporation ponds remains subject to RCRA Subtitle C from its point of generation through and including its storage and treatment in the evaporation ponds. Once the wastewater left evaporation pond 7 through the breach, it became a release from a solid waste management unit (SWMU), SWMU No. 2, which the Permittee is required under 40 CFR § 264.101 and Permit Sections IV.H (Corrective Action Procedures) and IV.B.1 (Corrective Action beyond the Facility Boundary) to properly investigate and, if necessary, remediate any release. Such a release is also subject to the reporting requirements of Permit Section II.C. Additionally, screening levels indicate the potential for contamination; therefore, the screening levels used in the Facility-Wide Groundwater Monitoring Report (the Permittee compares the surface water samples collected at the evaporation ponds to: WQCC 20.6.2.3103 NMAC; 40 CFR § 141.62 MCL (Apr 2013); and EPA RSL Tap Water (Nov 2012)) are used as a screening tool to determine whether or not the wastewater held in the evaporation ponds may contaminate soil or groundwater.

Comment 2

The laboratory analytical reports included with the Report indicates that the soils that were affected by the pond breach were not affected by hazardous constituents; however, the Permittee did not include any information regarding the methods and procedures used to collect the soil and water samples. Therefore, NMED is not able to fully assess the spill or cleanup information. In a letter response, include descriptions of the methods used to collect soil and water samples, and the collection depths of the soil samples. Furthermore, the soil samples were analyzed for TCLP Metals only, for proper characterization the samples should have been analyzed for total metals. TCLP is used for waste characterization purposes, not site characterization and cleanup.

Comment 3

Under the heading "April 2014 Pond Dike Seepage", the Permittee states, "Western submitted form C-141 on July 18, 2014 [NOTE: the correct date is July 18, 2013] to inform NMOCD and NMED of actions being taken to prevent future seepage and planned activities to investigate soils along the evaporation pond dikes where seepage had been previously observed. The soil samples were analyzed for semi-volatile organic compounds ("SVOCs") and chloride, as reported to NMOCD and NMED on October 14, 2013. While no SVOCs were detected, chloride was found at concentrations exceeding values obtained from three background samples." In addition NMED does not consider the "background samples" to be appropriate background samples. If the Permittee wishes to use background samples, then the Permittee must submit a soil

background study work plan for NMED review and approval following the requirements outlined in Permit Section IV.J.6 (Determination of Background) and established in EPA and NMED guidance. The chloride levels reported in the October 2013 letter report exceeded the chloride standards set by the OCD.

Comment 4

The level of wastewater in the evaporation ponds has been an issue since at least 2012 when evaporation pond 1 overflowed. In May 2013 there was seepage noted from evaporation ponds 2, 6, 7, 8, 9, 11 as reported in the C-141 dated May 8, 2013, submitted to NMED on July 18, 2013. The Surface Water Quality Bureau NPDES compliance inspection report from May 8, 2013 states, "[a]s the inspectors were looking at Outfall 001, they noted that there was major seepage coming through the toe of the berms at evaporation ponds # 7 & 8… The way that the seepage was occurring was a concern because the water is not captured by the small ponding area prior to Outfall 001 and could essentially become an uncontrolled point of discharge of process water." It appears that the Permittee did not immediately address the seepage, until the breach occurred on March 19, 2014, almost a year later. The Permittee is responsible for maintenance of the evaporation ponds. 40 CFR § 264.221(g) states that "[a] surface impoundment must be designed, constructed, maintained, and operated to prevent overtopping resulting from normal or abnormal operations; overfilling; wind and wave action; rainfall; run-on; malfunctions of level controllers, alarms, and other equipment; human error." In addition, 40 CFR § 264.221(h) states, "[a] surface impoundment must have dikes that are designed, constructed, and maintained with sufficient structural integrity to prevent massive failure of the dikes." SWMU 2 is not a permitted unit; however, the standards for surface impoundments described in 40 CFR 264 Subpart K establish the design criteria applicable to this SWMU. The Permittee failed to properly maintain the facility's structures and are subject to an enforcement action in the event of additional releases from the evaporation ponds. The Permittee must demonstrate that the dikes have been repaired and are currently maintained and must ensure that the head or freeboard maintained in the ponds is sufficient enough to maintain the structural integrity of the berms. Include information regarding the methods and materials used to repair the berms. The Permittee must note that 40 CFR § 264.227(a) requires that "[a] surface impoundment must be removed from service in accordance with paragraph (b) of this section if: (1) The level of liquids in the impoundment suddenly drops and the drop is not known to be caused by changes in the flows into or out of the impoundment; or (2) The dike leaks." In the future, if additional berm failures occur, the Permittee will be subject to the requirements outlined in 40 CFR § 264.227(a) through (e). Provide a contingency plan and an inspection plan for berm maintenance. Provide a figure depicting the location of Outfall 1 and the groundwater monitoring wells in the vicinity of the breach.

Comment 5

At the time of the Report, the Permittee was waiting for off-site access. In the letter response, discuss whether off-site access was granted and whether or not chloride contaminated soils have

been removed. Provide confirmation sample collection methods, analytical data and a figure depicting the locations of the confirmation samples. In addition discuss whether or not the methods proposed to maintain adequate freeboard in the evaporation ponds have been successful or not.

The Permittee must address all comments in this Disapproval and submit a response letter on or before **September 15, 2014**.

If you have questions regarding this Disapproval, please contact Kristen Van Horn of my staff at 505-476-6046.

Sincerely,

John E. Kieling
Chief
Hazardous Waste Bureau

cc: D. Cobrain, NMED HWB
N. Dhawan, NMED HWB
K. Van Horn, NMED HWB
A. Hains, WRG
C. Chavez, EMNRD OCD
S. Holcomb, NMED SWQB
L. King, EPA

File: Reading File and WRG 2014 File
WRG-14-003

Chavez, Carl J, EMNRD

From: Johnson, Cheryl <Cheryl.Johnson@wnr.com>
Sent: Monday, July 02, 2012 10:18 AM
To: VanHorn, Kristen, NMENV; Chavez, Carl J, EMNRD
Cc: Riege, Ed; Larsen, Thurman
Subject: Semi-Annual Evaporation Pond Results
Attachments: Rpt_1205B66_v2.pdf

Good Morning:

Attached are the analytical results for the evaporation ponds for our facility. If you have any questions, please call or e-mail me.

Thank you, cj

Cheryl Johnson
Environmental Specialist

Western Refining - Gallup Refinery
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Website: www.hallenvironmental.com

June 27, 2012

Cheryl Johnson
Western Refining Southwest, Gallup
Rt. 3 Box 7
Gallup, NM 87301
TEL: (505) 722-0231
FAX (505) 722-0210

RE: 2012 SEMI ANNUAL PONDS OrderNo.: 1205B66

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 15 sample(s) on 5/30/2012 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. 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. 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.

Sincerely,

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 10:45:00 AM
Lab ID: 1205B66-001 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	55	2.0	*	mg/L	20	6/5/2012 3:15:06 PM
Chloride	6600	250		mg/L	500	6/5/2012 3:39:55 PM
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	5/30/2012 4:26:21 PM
Bromide	2.6	0.50		mg/L	5	5/30/2012 4:13:56 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 4:13:56 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 4:13:56 PM
Sulfate	1300	25		mg/L	50	6/5/2012 3:27:30 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.060	0.0020		mg/L	1	6/15/2012 9:22:23 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:22:23 AM
Calcium	200	10		mg/L	10	6/19/2012 5:40:30 PM
Chromium	ND	0.0060		mg/L	1	6/19/2012 6:33:12 PM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:22:23 AM
Iron	0.46	0.020	*	mg/L	1	6/19/2012 6:33:12 PM
Lead	ND	0.0050		mg/L	1	6/15/2012 9:22:23 AM
Magnesium	73	1.0		mg/L	1	6/15/2012 9:22:23 AM
Manganese	0.15	0.0020	*	mg/L	1	6/15/2012 9:22:23 AM
Potassium	150	10		mg/L	10	6/15/2012 9:25:25 AM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:22:23 AM
Sodium	2900	50		mg/L	50	6/19/2012 4:56:57 PM
Zinc	0.024	0.010		mg/L	1	6/19/2012 6:33:12 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.064	0.0020		mg/L	1	6/14/2012 10:23:54 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:23:54 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:23:54 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:23:19 AM
Iron	0.99	0.020	*	mg/L	1	6/27/2012 10:03:30 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:23:54 AM
Manganese	0.15	0.0020	*	mg/L	1	6/14/2012 10:23:54 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:23:54 AM
Zinc	0.032	0.010		mg/L	1	6/14/2012 10:23:54 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.011	0.0050	*	mg/L	5	6/19/2012 5:28:36 PM
Selenium	0.011	0.0050		mg/L	5	6/19/2012 5:28:36 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:28:36 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.011	0.0025	*	mg/L	2.5	6/14/2012 12:59:57 PM
Selenium	0.011	0.0025		mg/L	2.5	6/14/2012 12:59:57 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 12:59:57 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 10:45:00 AM
Lab ID: 1205B66-001
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:40:52 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Aniline	110	50		µg/L	1	6/1/2012 12:38:46 AM
Anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Carbazole	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Chrysene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dimethylphenol	110	50		µg/L	1	6/1/2012 12:38:46 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 10:45:00 AM
Lab ID: 1205B66-001 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Fluorene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Isophorone	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Methylphenol	580	50		µg/L	1	6/1/2012 12:38:46 AM
3+4-Methylphenol	810	250		µg/L	5	6/1/2012 8:56:31 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 12:38:46 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Phenol	1700	250		µg/L	5	6/1/2012 8:56:31 AM
Pyrene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Pyridine	ND	50		µg/L	1	6/1/2012 12:38:46 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 12:38:46 AM
Surr: 2,4,6-Tribromophenol	70.5	44.2-126		%REC	1	6/1/2012 12:38:46 AM
Surr: 2-Fluorobiphenyl	55.3	37-114		%REC	1	6/1/2012 12:38:46 AM
Surr: 2-Fluorophenol	42.9	23.4-98		%REC	1	6/1/2012 12:38:46 AM
Surr: 4-Terphenyl-d14	61.0	41.3-116		%REC	1	6/1/2012 12:38:46 AM
Surr: Nitrobenzene-d5	65.0	39.5-118		%REC	1	6/1/2012 12:38:46 AM
Surr: Phenol-d5	32.5	20.9-95.9		%REC	1	6/1/2012 12:38:46 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Toluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 10:45:00 AM
Lab ID: 1205B66-001 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 1:52:59 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 1:52:59 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 1:52:59 AM
Acetone	430	100		µg/L	10	6/2/2012 1:52:59 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromoform	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 1:52:59 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Chloroform	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 1:52:59 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 1:52:59 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 1:52:59 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 10:45:00 AM
Lab ID: 1205B66-001
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 1:52:59 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 1:52:59 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Styrene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 1:52:59 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 1:52:59 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 1:52:59 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 1:52:59 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 1:52:59 AM
Surr: 1,2-Dichloroethane-d4	101	70-130		%REC	10	6/2/2012 1:52:59 AM
Surr: 4-Bromofluorobenzene	106	70-130		%REC	10	6/2/2012 1:52:59 AM
Surr: Dibromofluoromethane	94.8	69.8-130		%REC	10	6/2/2012 1:52:59 AM
Surr: Toluene-d8	102	70-130		%REC	10	6/2/2012 1:52:59 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	20000	0.50		µmhos/cm	50	5/31/2012 6:13:24 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.60	1.68	H	pH units	1	5/31/2012 10:31:36 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-1
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:10:00 AM
Lab ID: 1205B66-002 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	34	2.0	*	mg/L	20	6/5/2012 3:52:20 PM
Chloride	3400	100		mg/L	200	6/5/2012 4:17:10 PM
Nitrogen, Nitrite (As N)	ND	0.50		mg/L	5	5/30/2012 5:03:34 PM
Bromide	2.0	0.50		mg/L	5	5/30/2012 5:03:34 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 5:03:34 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:03:34 PM
Sulfate	1300	25		mg/L	50	6/5/2012 4:04:45 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.046	0.0020		mg/L	1	6/15/2012 9:40:18 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:40:18 AM
Calcium	120	10		mg/L	10	6/19/2012 5:43:51 PM
Chromium	ND	0.0060		mg/L	1	6/19/2012 6:36:19 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:36:19 PM
Iron	0.76	0.020	*	mg/L	1	6/19/2012 6:36:19 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:36:19 PM
Magnesium	51	1.0		mg/L	1	6/15/2012 9:40:18 AM
Manganese	0.15	0.0020	*	mg/L	1	6/15/2012 9:40:18 AM
Potassium	73	1.0		mg/L	1	6/19/2012 6:36:19 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:40:18 AM
Sodium	1600	50		mg/L	50	6/19/2012 4:59:55 PM
Zinc	0.074	0.010		mg/L	1	6/19/2012 6:36:19 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.074	0.0020		mg/L	1	6/14/2012 10:30:22 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:30:22 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:30:22 AM
Copper	0.014	0.0060		mg/L	1	6/15/2012 8:26:27 AM
Iron	2.3	0.10	*	mg/L	5	6/21/2012 11:45:11 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:30:22 AM
Manganese	0.15	0.0020	*	mg/L	1	6/14/2012 10:30:22 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:30:22 AM
Zinc	0.17	0.010		mg/L	1	6/14/2012 10:30:22 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.0084	0.0050		mg/L	5	6/19/2012 5:30:28 PM
Selenium	0.011	0.0050		mg/L	5	6/19/2012 5:30:28 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:30:28 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.0091	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM
Selenium	0.0098	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:01:50 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-1
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:10:00 AM
Lab ID: 1205B66-002
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	0.00082	0.00020		mg/L	1	6/1/2012 3:42:37 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Aniline	70	50		µg/L	1	6/1/2012 1:08:07 AM
Anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Carbazole	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Chrysene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dimethylphenol	70	50		µg/L	1	6/1/2012 1:08:07 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-1
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:10:00 AM
Lab ID: 1205B66-002
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Fluorene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Isophorone	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Methylphenol	310	50		µg/L	1	6/1/2012 1:08:07 AM
3+4-Methylphenol	700	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 1:08:07 AM
Phenanthrene	51	50		µg/L	1	6/1/2012 1:08:07 AM
Phenol	1100	100		µg/L	2	6/1/2012 9:25:36 AM
Pyrene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Pyridine	ND	50		µg/L	1	6/1/2012 1:08:07 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 1:08:07 AM
Surr: 2,4,6-Tribromophenol	82.4	44.2-126		%REC	1	6/1/2012 1:08:07 AM
Surr: 2-Fluorobiphenyl	68.6	37-114		%REC	1	6/1/2012 1:08:07 AM
Surr: 2-Fluorophenol	53.3	23.4-98		%REC	1	6/1/2012 1:08:07 AM
Surr: 4-Terphenyl-d14	71.5	41.3-116		%REC	1	6/1/2012 1:08:07 AM
Surr: Nitrobenzene-d5	70.8	39.5-118		%REC	1	6/1/2012 1:08:07 AM
Surr: Phenol-d5	40.8	20.9-95.9		%REC	1	6/1/2012 1:08:07 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Toluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-1
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:10:00 AM
Lab ID: 1205B66-002 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 2:22:24 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:22:24 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:22:24 AM
Acetone	610	100		µg/L	10	6/2/2012 2:22:24 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromoform	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 2:22:24 AM
2-Butanone	110	100		µg/L	10	6/2/2012 2:22:24 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Chloroform	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 2:22:24 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:22:24 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 2:22:24 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-1
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:10:00 AM
Lab ID: 1205B66-002
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 2:22:24 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 2:22:24 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Styrene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:22:24 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 2:22:24 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 2:22:24 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 2:22:24 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 2:22:24 AM
Surr: 1,2-Dichloroethane-d4	99.6	70-130		%REC	10	6/2/2012 2:22:24 AM
Surr: 4-Bromofluorobenzene	100	70-130		%REC	10	6/2/2012 2:22:24 AM
Surr: Dibromofluoromethane	88.5	69.8-130		%REC	10	6/2/2012 2:22:24 AM
Surr: Toluene-d8	96.9	70-130		%REC	10	6/2/2012 2:22:24 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	8800	0.010		µmhos/cm	1	5/31/2012 10:35:51 AM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.75	1.68	H	pH units	1	5/31/2012 10:35:51 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12B
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:35:00 AM
Lab ID: 1205B66-003
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	19	2.0	*	mg/L	20	6/5/2012 4:29:35 PM
Chloride	7000	250		mg/L	500	6/5/2012 4:54:25 PM
Bromide	3.6	0.50		mg/L	5	5/30/2012 5:53:14 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:53:14 PM
Sulfate	1500	25		mg/L	50	6/5/2012 4:42:00 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 12:21:08 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.067	0.0020		mg/L	1	6/15/2012 9:48:46 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:48:46 AM
Calcium	290	10		mg/L	10	6/19/2012 5:47:06 PM
Chromium	0.0071	0.0060		mg/L	1	6/19/2012 6:39:48 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:39:48 PM
Iron	0.18	0.020		mg/L	1	6/19/2012 6:39:48 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:39:48 PM
Magnesium	130	10		mg/L	10	6/15/2012 9:51:52 AM
Manganese	0.11	0.0020	*	mg/L	1	6/15/2012 9:48:46 AM
Potassium	190	10		mg/L	10	6/19/2012 5:47:06 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:48:46 AM
Sodium	4300	50		mg/L	50	6/19/2012 5:02:58 PM
Zinc	0.015	0.010		mg/L	1	6/19/2012 6:39:48 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.072	0.0020		mg/L	1	6/14/2012 10:38:19 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:38:19 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 10:38:19 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:34:21 AM
Iron	0.32	0.10	*	mg/L	5	6/19/2012 7:17:52 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:38:19 AM
Manganese	0.12	0.0020	*	mg/L	1	6/14/2012 10:38:19 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:38:19 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 10:38:19 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.019	0.010	*	mg/L	10	6/19/2012 5:32:20 PM
Selenium	0.024	0.010		mg/L	10	6/19/2012 5:32:20 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:32:20 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.016	0.0025	*	mg/L	2.5	6/14/2012 1:03:42 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:03:42 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:03:42 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12B
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:35:00 AM
Lab ID: 1205B66-003
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:47:53 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Acenaphthylene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Aniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Azobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benz(a)anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(a)pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(b)fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(g,h,i)perylene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzo(k)fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Benzoic acid	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Benzyl alcohol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroethoxy)methane	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroethyl)ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-chloroisopropyl)ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Bis(2-ethylhexyl)phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Bromophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Butyl benzyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Carbazole	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chloro-3-methylphenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chloroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Chloronaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Chlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Chlorophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Chrysene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Di-n-butyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Di-n-octyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dibenz(a,h)anthracene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dibenzofuran	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,2-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,3-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,4-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
3,3'-Dichlorobenzidine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Diethyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Dimethyl phthalate	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dichlorophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dimethylphenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4,6-Dinitro-2-methylphenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
2,4-Dinitrophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-003 **Matrix:** AQUEOUS

Client Sample ID: EP-12B
Collection Date: 5/29/2012 11:35:00 AM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,6-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Fluoranthene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Fluorene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorobutadiene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachlorocyclopentadiene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Hexachloroethane	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Isophorone	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Methylphenol	330	100		µg/L	1	6/1/2012 2:58:10 AM
3+4-Methylphenol	560	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodi-n-propylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodimethylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
N-Nitrosodiphenylamine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Naphthalene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Nitroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
3-Nitroaniline	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Nitroaniline	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Nitrobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2-Nitrophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
4-Nitrophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Pentachlorophenol	ND	200		µg/L	1	6/1/2012 2:58:10 AM
Phenanthrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Phenol	1100	100		µg/L	1	6/1/2012 2:58:10 AM
Pyrene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Pyridine	ND	100		µg/L	1	6/1/2012 2:58:10 AM
1,2,4-Trichlorobenzene	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4,5-Trichlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
2,4,6-Trichlorophenol	ND	100		µg/L	1	6/1/2012 2:58:10 AM
Surr: 2,4,6-Tribromophenol	48.7	44.2-126		%REC	1	6/1/2012 2:58:10 AM
Surr: 2-Fluorobiphenyl	45.2	37-114		%REC	1	6/1/2012 2:58:10 AM
Surr: 2-Fluorophenol	42.5	23.4-98		%REC	1	6/1/2012 2:58:10 AM
Surr: 4-Terphenyl-d14	52.3	41.3-116		%REC	1	6/1/2012 2:58:10 AM
Surr: Nitrobenzene-d5	49.7	39.5-118		%REC	1	6/1/2012 2:58:10 AM
Surr: Phenol-d5	33.3	20.9-95.9		%REC	1	6/1/2012 2:58:10 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Toluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-003 **Matrix:** AQUEOUS

Client Sample ID: EP-12B
Collection Date: 5/29/2012 11:35:00 AM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 2:51:40 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:51:40 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 2:51:40 AM
Acetone	100	100		µg/L	10	6/2/2012 2:51:40 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromoform	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 2:51:40 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Chloroform	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 2:51:40 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:51:40 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 2:51:40 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12B
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:35:00 AM
Lab ID: 1205B66-003
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 2:51:40 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 2:51:40 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Styrene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 2:51:40 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 2:51:40 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 2:51:40 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 2:51:40 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 2:51:40 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	10	6/2/2012 2:51:40 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	10	6/2/2012 2:51:40 AM
Surr: Dibromofluoromethane	101	69.8-130		%REC	10	6/2/2012 2:51:40 AM
Surr: Toluene-d8	106	70-130		%REC	10	6/2/2012 2:51:40 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	25000	0.50		µmhos/cm	50	5/31/2012 6:17:40 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.75	1.68	H	pH units	1	5/31/2012 10:40:00 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12A
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:55:00 AM
Lab ID: 1205B66-004
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	23	2.0	*	mg/L	20	6/5/2012 5:44:03 PM
Chloride	7600	250		mg/L	500	6/5/2012 5:06:49 PM
Bromide	5.0	0.50		mg/L	5	5/30/2012 6:05:39 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:05:39 PM
Sulfate	2300	50		mg/L	100	6/5/2012 5:56:28 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 1:10:48 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.075	0.0020		mg/L	1	6/15/2012 9:55:13 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 9:55:13 AM
Calcium	310	10		mg/L	10	6/19/2012 5:50:30 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 6:42:52 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:42:52 PM
Iron	0.16	0.020		mg/L	1	6/19/2012 6:42:52 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:42:52 PM
Magnesium	130	10		mg/L	10	6/15/2012 9:58:16 AM
Manganese	0.73	0.0020	*	mg/L	1	6/15/2012 9:55:13 AM
Potassium	240	10		mg/L	10	6/19/2012 5:50:30 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 9:55:13 AM
Sodium	4000	50		mg/L	50	6/19/2012 5:06:12 PM
Zinc	0.080	0.010		mg/L	1	6/19/2012 6:42:52 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.083	0.0020		mg/L	1	6/14/2012 10:54:00 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 10:54:00 AM
Chromium	0.0097	0.0060		mg/L	1	6/14/2012 10:54:00 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:37:28 AM
Iron	0.52	0.020	*	mg/L	1	6/19/2012 7:21:16 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 10:54:00 AM
Manganese	0.75	0.0020	*	mg/L	1	6/14/2012 10:54:00 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 10:54:00 AM
Zinc	0.016	0.010		mg/L	1	6/14/2012 10:54:00 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.026	0.010	*	mg/L	10	6/19/2012 5:36:04 PM
Selenium	0.018	0.010		mg/L	10	6/19/2012 5:36:04 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:36:04 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.025	0.0025	*	mg/L	2.5	6/14/2012 1:05:34 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:05:34 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:05:34 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12A
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:55:00 AM
Lab ID: 1205B66-004 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:49:39 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Aniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Carbazole	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Chrysene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12A
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:55:00 AM
Lab ID: 1205B66-004
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Fluorene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Isophorone	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3+4-Methylphenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 3:27:36 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Phenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pyrene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Pyridine	ND	50		µg/L	1	6/1/2012 3:27:36 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:27:36 AM
Surr: 2,4,6-Tribromophenol	33.7	44.2-126	S	%REC	1	6/1/2012 3:27:36 AM
Surr: 2-Fluorobiphenyl	67.4	37-114		%REC	1	6/1/2012 3:27:36 AM
Surr: 2-Fluorophenol	32.7	23.4-98		%REC	1	6/1/2012 3:27:36 AM
Surr: 4-Terphenyl-d14	75.6	41.3-116		%REC	1	6/1/2012 3:27:36 AM
Surr: Nitrobenzene-d5	69.7	39.5-118		%REC	1	6/1/2012 3:27:36 AM
Surr: Phenol-d5	35.5	20.9-95.9		%REC	1	6/1/2012 3:27:36 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Toluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12A
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:55:00 AM
Lab ID: 1205B66-004 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 3:20:54 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:20:54 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:20:54 AM
Acetone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromoform	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 3:20:54 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Chloroform	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 3:20:54 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:20:54 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 3:20:54 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-12A
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:55:00 AM
Lab ID: 1205B66-004 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 3:20:54 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 3:20:54 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Styrene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:20:54 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 3:20:54 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 3:20:54 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 3:20:54 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 3:20:54 AM
Surr: 1,2-Dichloroethane-d4	99.7	70-130		%REC	10	6/2/2012 3:20:54 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	6/2/2012 3:20:54 AM
Surr: Dibromofluoromethane	96.1	69.8-130		%REC	10	6/2/2012 3:20:54 AM
Surr: Toluene-d8	108	70-130		%REC	10	6/2/2012 3:20:54 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	25000	0.50		µmhos/cm	50	5/31/2012 6:21:55 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.88	1.68	H	pH units	1	5/31/2012 10:44:15 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-11
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:10:00 PM
Lab ID: 1205B66-005 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	22	2.0	*	mg/L	20	6/5/2012 6:08:52 PM
Chloride	8200	500		mg/L	1000	6/11/2012 5:50:57 PM
Bromide	5.1	0.50		mg/L	5	5/30/2012 6:18:03 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:18:03 PM
Sulfate	3700	50		mg/L	100	6/5/2012 6:21:17 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 1:23:12 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.081	0.0020		mg/L	1	6/15/2012 10:01:37 AM
Cadmium	ND	0.0020		mg/L	1	6/15/2012 10:01:37 AM
Calcium	360	10		mg/L	10	6/19/2012 5:53:52 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 6:45:55 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 6:45:55 PM
Iron	0.16	0.020		mg/L	1	6/19/2012 6:45:55 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 6:45:55 PM
Magnesium	160	10		mg/L	10	6/15/2012 10:04:41 AM
Manganese	0.78	0.0020	*	mg/L	1	6/15/2012 10:01:37 AM
Potassium	310	10		mg/L	10	6/19/2012 5:53:52 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:01:37 AM
Sodium	4800	100		mg/L	100	6/19/2012 4:23:04 PM
Zinc	0.023	0.010		mg/L	1	6/19/2012 6:45:55 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.086	0.0020		mg/L	1	6/14/2012 11:00:28 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:00:28 AM
Chromium	0.0099	0.0060		mg/L	1	6/14/2012 11:00:28 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:40:31 AM
Iron	0.48	0.020	*	mg/L	1	6/19/2012 7:24:20 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:00:28 AM
Manganese	0.80	0.0020	*	mg/L	1	6/14/2012 11:00:28 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:00:28 AM
Zinc	0.014	0.010		mg/L	1	6/14/2012 11:00:28 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.030	0.010	*	mg/L	10	6/19/2012 5:37:56 PM
Selenium	0.019	0.010		mg/L	10	6/19/2012 5:37:56 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:37:56 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.028	0.0025	*	mg/L	2.5	6/14/2012 1:07:26 PM
Selenium	0.017	0.0025		mg/L	2.5	6/14/2012 1:07:26 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:07:26 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-11
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:10:00 PM
Lab ID: 1205B66-005
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:51:24 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Aniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Carbazole	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Chrysene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-11
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:10:00 PM
Lab ID: 1205B66-005 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Fluorene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Isophorone	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3+4-Methylphenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 3:56:57 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Phenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pyrene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Pyridine	ND	50		µg/L	1	6/1/2012 3:56:57 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 3:56:57 AM
Surr: 2,4,6-Tribromophenol	72.6	44.2-126		%REC	1	6/1/2012 3:56:57 AM
Surr: 2-Fluorobiphenyl	73.3	37-114		%REC	1	6/1/2012 3:56:57 AM
Surr: 2-Fluorophenol	60.6	23.4-98		%REC	1	6/1/2012 3:56:57 AM
Surr: 4-Terphenyl-d14	73.7	41.3-116		%REC	1	6/1/2012 3:56:57 AM
Surr: Nitrobenzene-d5	75.7	39.5-118		%REC	1	6/1/2012 3:56:57 AM
Surr: Phenol-d5	43.6	20.9-95.9		%REC	1	6/1/2012 3:56:57 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Toluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-005 **Matrix:** AQUEOUS

Client Sample ID: EP-11
Collection Date: 5/29/2012 12:10:00 PM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 3:50:08 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:50:08 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 3:50:08 AM
Acetone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromoform	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 3:50:08 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Chloroform	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 3:50:08 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:50:08 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 3:50:08 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-11
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:10:00 PM
Lab ID: 1205B66-005 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 3:50:08 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 3:50:08 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Styrene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 3:50:08 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 3:50:08 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 3:50:08 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 3:50:08 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 3:50:08 AM
Surr: 1,2-Dichloroethane-d4	102	70-130		%REC	10	6/2/2012 3:50:08 AM
Surr: 4-Bromofluorobenzene	105	70-130		%REC	10	6/2/2012 3:50:08 AM
Surr: Dibromofluoromethane	98.8	69.8-130		%REC	10	6/2/2012 3:50:08 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 3:50:08 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	30000	0.50		µmhos/cm	50	5/31/2012 6:26:10 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.84	1.68	H	pH units	1	5/31/2012 10:48:23 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-7
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:25:00 PM
Lab ID: 1205B66-006
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	24	5.0	*	mg/L	50	6/5/2012 6:46:06 PM
Chloride	50000	2500		mg/L	5000	6/11/2012 6:03:21 PM
Bromide	25	5.0		mg/L	50	6/5/2012 6:46:06 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 6:46:06 PM
Sulfate	9500	500		mg/L	1000	6/5/2012 7:10:55 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 6:40:35 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.14	0.020		mg/L	10	6/15/2012 10:11:17 AM
Cadmium	ND	0.020		mg/L	10	6/15/2012 10:11:17 AM
Calcium	1100	20		mg/L	20	6/19/2012 5:30:00 PM
Chromium	ND	0.060		mg/L	10	6/19/2012 5:58:58 PM
Copper	ND	0.060		mg/L	10	6/19/2012 5:58:58 PM
Iron	ND	0.20		mg/L	10	6/19/2012 5:58:58 PM
Lead	ND	0.050		mg/L	10	6/19/2012 5:58:58 PM
Magnesium	980	10		mg/L	10	6/15/2012 10:11:17 AM
Manganese	0.74	0.020	*	mg/L	10	6/15/2012 10:11:17 AM
Potassium	1300	20		mg/L	20	6/19/2012 5:30:00 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:11:17 AM
Sodium	28000	5000		mg/L	5000	6/21/2012 10:32:23 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 5:58:58 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.14	0.0020		mg/L	1	6/14/2012 11:07:05 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:07:05 AM
Chromium	0.014	0.0060		mg/L	1	6/14/2012 11:07:05 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 8:55:11 AM
Iron	0.18	0.020		mg/L	1	6/19/2012 7:27:36 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:07:05 AM
Manganese	0.74	0.0020	*	mg/L	1	6/14/2012 11:07:05 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:07:05 AM
Zinc	0.011	0.010		mg/L	1	6/14/2012 11:07:05 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.081	0.020	*	mg/L	20	6/19/2012 5:39:49 PM
Selenium	0.086	0.020	*	mg/L	20	6/19/2012 5:39:49 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:39:49 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.078	0.010	*	mg/L	10	6/14/2012 1:22:28 PM
Selenium	0.077	0.010	*	mg/L	10	6/14/2012 1:22:28 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:02:20 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-7
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:25:00 PM
Lab ID: 1205B66-006 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:53:09 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Aniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Carbazole	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Chrysene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-7
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:25:00 PM
Lab ID: 1205B66-006
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Fluorene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Isophorone	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3+4-Methylphenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 4:26:08 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Phenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pyrene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Pyridine	ND	10		µg/L	1	6/1/2012 4:26:08 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:26:08 AM
Surr: 2,4,6-Tribromophenol	50.6	44.2-126		%REC	1	6/1/2012 4:26:08 AM
Surr: 2-Fluorobiphenyl	48.1	37-114		%REC	1	6/1/2012 4:26:08 AM
Surr: 2-Fluorophenol	50.8	23.4-98		%REC	1	6/1/2012 4:26:08 AM
Surr: 4-Terphenyl-d14	40.8	41.3-116	S	%REC	1	6/1/2012 4:26:08 AM
Surr: Nitrobenzene-d5	53.1	39.5-118		%REC	1	6/1/2012 4:26:08 AM
Surr: Phenol-d5	43.5	20.9-95.9		%REC	1	6/1/2012 4:26:08 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Toluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-7
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:25:00 PM
Lab ID: 1205B66-006 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 4:19:30 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:19:30 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:19:30 AM
Acetone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromoform	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 4:19:30 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Chloroform	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 4:19:30 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:19:30 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 4:19:30 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-7
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:25:00 PM
Lab ID: 1205B66-006
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 4:19:30 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 4:19:30 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Styrene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:19:30 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 4:19:30 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 4:19:30 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 4:19:30 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 4:19:30 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	6/2/2012 4:19:30 AM
Surr: 4-Bromofluorobenzene	115	70-130		%REC	10	6/2/2012 4:19:30 AM
Surr: Dibromofluoromethane	98.4	69.8-130		%REC	10	6/2/2012 4:19:30 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 4:19:30 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	150000	0.50		µmhos/cm	50	5/31/2012 6:30:17 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.72	1.68	H	pH units	1	5/31/2012 10:52:32 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-8
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:40:00 PM
Lab ID: 1205B66-007
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	33	5.0	*	mg/L	50	6/5/2012 8:12:59 PM
Chloride	67000	2500		mg/L	5000	6/11/2012 6:15:46 PM
Bromide	39	5.0		mg/L	50	6/5/2012 8:12:59 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 8:12:59 PM
Sulfate	9700	250		mg/L	500	6/5/2012 8:25:23 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 6:53:00 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.18	0.020		mg/L	10	6/15/2012 10:30:48 AM
Cadmium	ND	0.020		mg/L	10	6/19/2012 6:02:15 PM
Calcium	730	10		mg/L	10	6/15/2012 10:30:48 AM
Chromium	ND	0.060		mg/L	10	6/19/2012 6:02:15 PM
Copper	ND	0.060		mg/L	10	6/19/2012 6:02:15 PM
Iron	ND	0.20		mg/L	10	6/19/2012 6:02:15 PM
Lead	ND	0.050		mg/L	10	6/19/2012 6:02:15 PM
Magnesium	1500	20		mg/L	20	6/19/2012 5:33:32 PM
Manganese	7.3	0.020	*	mg/L	10	6/15/2012 10:30:48 AM
Potassium	2200	100		mg/L	100	6/19/2012 4:42:31 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:30:48 AM
Sodium	35000	500		mg/L	500	6/21/2012 10:38:07 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 6:02:15 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.17	0.0020		mg/L	1	6/14/2012 11:15:11 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:15:11 AM
Chromium	0.018	0.0060		mg/L	1	6/14/2012 11:15:11 AM
Copper	0.0071	0.0060		mg/L	1	6/15/2012 8:58:26 AM
Iron	0.50	0.10	*	mg/L	5	6/21/2012 11:48:25 AM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:15:11 AM
Manganese	8.6	0.020	*	mg/L	10	6/15/2012 9:01:51 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:15:11 AM
Zinc	0.025	0.010		mg/L	1	6/14/2012 11:15:11 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.16	0.020	*	mg/L	20	6/19/2012 5:43:35 PM
Selenium	0.13	0.020	*	mg/L	20	6/19/2012 5:43:35 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:43:35 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.15	0.010	*	mg/L	10	6/14/2012 1:24:20 PM
Selenium	0.12	0.010	*	mg/L	10	6/14/2012 1:24:20 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:06:16 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-8
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:40:00 PM
Lab ID: 1205B66-007
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 3:58:29 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Aniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Carbazole	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Chrysene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-8
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:40:00 PM
Lab ID: 1205B66-007
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Fluorene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Isophorone	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3+4-Methylphenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 4:55:12 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Phenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pyrene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Pyridine	ND	10		µg/L	1	6/1/2012 4:55:12 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 4:55:12 AM
Surr: 2,4,6-Tribromophenol	62.8	44.2-126		%REC	1	6/1/2012 4:55:12 AM
Surr: 2-Fluorobiphenyl	70.3	37-114		%REC	1	6/1/2012 4:55:12 AM
Surr: 2-Fluorophenol	63.5	23.4-98		%REC	1	6/1/2012 4:55:12 AM
Surr: 4-Terphenyl-d14	54.0	41.3-116		%REC	1	6/1/2012 4:55:12 AM
Surr: Nitrobenzene-d5	80.5	39.5-118		%REC	1	6/1/2012 4:55:12 AM
Surr: Phenol-d5	59.0	20.9-95.9		%REC	1	6/1/2012 4:55:12 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Toluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-8
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:40:00 PM
Lab ID: 1205B66-007
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 4:48:45 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:48:45 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 4:48:45 AM
Acetone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromoform	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 4:48:45 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Chloroform	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 4:48:45 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:48:45 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 4:48:45 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-8
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 12:40:00 PM
Lab ID: 1205B66-007
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 4:48:45 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 4:48:45 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Styrene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 4:48:45 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 4:48:45 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 4:48:45 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 4:48:45 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 4:48:45 AM
Surr: 1,2-Dichloroethane-d4	109	70-130		%REC	10	6/2/2012 4:48:45 AM
Surr: 4-Bromofluorobenzene	111	70-130		%REC	10	6/2/2012 4:48:45 AM
Surr: Dibromofluoromethane	94.2	69.8-130		%REC	10	6/2/2012 4:48:45 AM
Surr: Toluene-d8	104	70-130		%REC	10	6/2/2012 4:48:45 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	180000	0.50		µmhos/cm	50	5/31/2012 6:34:39 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.53	1.68	H	pH units	1	5/31/2012 11:01:06 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-5
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:00:00 PM
Lab ID: 1205B66-008
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	21	2.0	*	mg/L	20	6/5/2012 8:50:12 PM
Chloride	6100	250		mg/L	500	6/5/2012 9:15:01 PM
Bromide	3.2	0.50		mg/L	5	5/30/2012 6:55:17 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 6:55:17 PM
Sulfate	1300	25		mg/L	50	6/5/2012 9:02:36 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:00:26 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.059	0.0020		mg/L	1	6/15/2012 10:34:02 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:00:33 PM
Calcium	240	10		mg/L	10	6/15/2012 10:37:07 AM
Chromium	0.0069	0.0060		mg/L	1	6/19/2012 7:00:33 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:00:33 PM
Iron	0.19	0.020		mg/L	1	6/19/2012 7:00:33 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:00:33 PM
Magnesium	120	10		mg/L	10	6/15/2012 10:37:07 AM
Manganese	0.065	0.0020	*	mg/L	1	6/15/2012 10:34:02 AM
Potassium	170	10		mg/L	10	6/19/2012 6:14:42 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:34:02 AM
Sodium	3600	50		mg/L	50	6/19/2012 5:09:30 PM
Zinc	0.023	0.010		mg/L	1	6/19/2012 7:00:33 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.064	0.0020		mg/L	1	6/14/2012 11:22:01 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:22:01 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 11:22:01 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:05:05 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:47:20 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:22:01 AM
Manganese	0.070	0.0020	*	mg/L	1	6/14/2012 11:22:01 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:22:01 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:22:01 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.017	0.010	*	mg/L	10	6/19/2012 5:51:07 PM
Selenium	0.023	0.010		mg/L	10	6/19/2012 5:51:07 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:51:07 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.015	0.0025	*	mg/L	2.5	6/14/2012 1:09:18 PM
Selenium	0.018	0.0025		mg/L	2.5	6/14/2012 1:09:18 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:09:18 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- B Analyte detected in the associated Method Blank
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- RL Reporting Detection Limit
- S Spike Recovery outside accepted recovery limits
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-5
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:00:00 PM
Lab ID: 1205B66-008
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:00:17 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Aniline	57	50		µg/L	1	6/1/2012 5:24:20 AM
Anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Carbazole	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Chrysene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dimethylphenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-5
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:00:00 PM
Lab ID: 1205B66-008
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Fluorene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Isophorone	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Methylphenol	820	50		µg/L	1	6/1/2012 5:24:20 AM
3+4-Methylphenol	1100	250		µg/L	5	6/1/2012 9:54:52 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 5:24:20 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Phenol	2700	250		µg/L	5	6/1/2012 9:54:52 AM
Pyrene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Pyridine	ND	50		µg/L	1	6/1/2012 5:24:20 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:24:20 AM
Surr: 2,4,6-Tribromophenol	89.7	44.2-126		%REC	1	6/1/2012 5:24:20 AM
Surr: 2-Fluorobiphenyl	74.3	37-114		%REC	1	6/1/2012 5:24:20 AM
Surr: 2-Fluorophenol	61.2	23.4-98		%REC	1	6/1/2012 5:24:20 AM
Surr: 4-Terphenyl-d14	85.2	41.3-116		%REC	1	6/1/2012 5:24:20 AM
Surr: Nitrobenzene-d5	79.7	39.5-118		%REC	1	6/1/2012 5:24:20 AM
Surr: Phenol-d5	53.5	20.9-95.9		%REC	1	6/1/2012 5:24:20 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Toluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-5
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:00:00 PM
Lab ID: 1205B66-008
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 5:17:57 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:17:57 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:17:57 AM
Acetone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromoform	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 5:17:57 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Chloroform	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 5:17:57 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:17:57 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 5:17:57 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-5
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:00:00 PM
Lab ID: 1205B66-008
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 5:17:57 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 5:17:57 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Styrene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:17:57 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 5:17:57 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 5:17:57 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 5:17:57 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 5:17:57 AM
Surr: 1,2-Dichloroethane-d4	106	70-130		%REC	10	6/2/2012 5:17:57 AM
Surr: 4-Bromofluorobenzene	107	70-130		%REC	10	6/2/2012 5:17:57 AM
Surr: Dibromofluoromethane	98.2	69.8-130		%REC	10	6/2/2012 5:17:57 AM
Surr: Toluene-d8	107	70-130		%REC	10	6/2/2012 5:17:57 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	22000	0.50		µmhos/cm	50	5/31/2012 6:38:46 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.84	1.68	H	pH units	1	5/31/2012 11:05:14 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-4
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:15:00 PM
Lab ID: 1205B66-009
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	20	2.0	*	mg/L	20	6/5/2012 9:27:26 PM
Chloride	6500	250		mg/L	500	6/5/2012 9:52:15 PM
Nitrogen, Nitrite (As N)	ND	2.0		mg/L	20	5/30/2012 5:40:49 PM
Bromide	3.3	0.50		mg/L	5	5/30/2012 5:28:24 PM
Nitrogen, Nitrate (As N)	ND	0.50		mg/L	5	5/30/2012 5:28:24 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 5:28:24 PM
Sulfate	1400	25		mg/L	50	6/5/2012 9:39:51 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.060	0.0020		mg/L	1	6/15/2012 10:40:29 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:03:40 PM
Calcium	230	10		mg/L	10	6/15/2012 10:43:34 AM
Chromium	0.0067	0.0060		mg/L	1	6/19/2012 7:03:40 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:03:40 PM
Iron	0.20	0.020		mg/L	1	6/19/2012 7:03:40 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:03:40 PM
Magnesium	110	10		mg/L	10	6/15/2012 10:43:34 AM
Manganese	0.061	0.0020	*	mg/L	1	6/15/2012 10:40:29 AM
Potassium	170	10		mg/L	10	6/19/2012 6:18:08 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:40:29 AM
Sodium	3600	50		mg/L	50	6/19/2012 5:12:37 PM
Zinc	0.036	0.010		mg/L	1	6/19/2012 7:03:40 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.064	0.0020		mg/L	1	6/14/2012 11:40:07 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:40:07 AM
Chromium	0.0060	0.0060		mg/L	1	6/14/2012 11:40:07 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:09:49 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:50:26 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:40:07 AM
Manganese	0.064	0.0020	*	mg/L	1	6/14/2012 11:40:07 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:40:07 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:40:07 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.017	0.0050	*	mg/L	5	6/19/2012 5:52:59 PM
Selenium	0.024	0.0050		mg/L	5	6/19/2012 5:52:59 PM
Uranium	ND	0.0050		mg/L	5	6/19/2012 5:52:59 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.015	0.0025	*	mg/L	2.5	6/14/2012 1:11:10 PM
Selenium	0.018	0.0025		mg/L	2.5	6/14/2012 1:11:10 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:11:10 PM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-4
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:15:00 PM
Lab ID: 1205B66-009
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:02:04 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Acenaphthylene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Aniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Azobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benz(a)anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(a)pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(b)fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(g,h,i)perylene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzo(k)fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Benzoic acid	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Benzyl alcohol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroethoxy)methane	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroethyl)ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-chloroisopropyl)ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Bis(2-ethylhexyl)phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Bromophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Butyl benzyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Carbazole	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chloro-3-methylphenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chloroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Chloronaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Chlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Chlorophenyl phenyl ether	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Chrysene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Di-n-butyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Di-n-octyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dibenz(a,h)anthracene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dibenzofuran	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,2-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,3-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,4-Dichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
3,3'-Dichlorobenzidine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Diethyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Dimethyl phthalate	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dichlorophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dimethylphenol	110	50		µg/L	1	6/1/2012 5:53:31 AM
4,6-Dinitro-2-methylphenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
2,4-Dinitrophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM

Qualifiers:

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- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-4
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:15:00 PM
Lab ID: 1205B66-009 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,6-Dinitrotoluene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Fluoranthene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Fluorene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorobutadiene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachlorocyclopentadiene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Hexachloroethane	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Indeno(1,2,3-cd)pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Isophorone	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Methylnaphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Methylphenol	780	50		µg/L	1	6/1/2012 5:53:31 AM
3+4-Methylphenol	1200	250		µg/L	5	6/1/2012 10:24:26 AM
N-Nitrosodi-n-propylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
N-Nitrosodimethylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
N-Nitrosodiphenylamine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Naphthalene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
3-Nitroaniline	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Nitroaniline	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Nitrobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
4-Nitrophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Pentachlorophenol	ND	100		µg/L	1	6/1/2012 5:53:31 AM
Phenanthrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Phenol	2900	250		µg/L	5	6/1/2012 10:24:26 AM
Pyrene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Pyridine	ND	50		µg/L	1	6/1/2012 5:53:31 AM
1,2,4-Trichlorobenzene	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4,5-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
2,4,6-Trichlorophenol	ND	50		µg/L	1	6/1/2012 5:53:31 AM
Surr: 2,4,6-Tribromophenol	81.5	44.2-126		%REC	1	6/1/2012 5:53:31 AM
Surr: 2-Fluorobiphenyl	69.7	37-114		%REC	1	6/1/2012 5:53:31 AM
Surr: 2-Fluorophenol	56.4	23.4-98		%REC	1	6/1/2012 5:53:31 AM
Surr: 4-Terphenyl-d14	72.5	41.3-116		%REC	1	6/1/2012 5:53:31 AM
Surr: Nitrobenzene-d5	71.7	39.5-118		%REC	1	6/1/2012 5:53:31 AM
Surr: Phenol-d5	50.3	20.9-95.9		%REC	1	6/1/2012 5:53:31 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Toluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM

Qualifiers:

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E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-4
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:15:00 PM
Lab ID: 1205B66-009
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 5:47:25 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:47:25 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 5:47:25 AM
Acetone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromoform	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 5:47:25 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Chloroform	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 5:47:25 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:47:25 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 5:47:25 AM

Qualifiers:

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- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-4
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:15:00 PM
Lab ID: 1205B66-009 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 5:47:25 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 5:47:25 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Styrene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 5:47:25 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 5:47:25 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 5:47:25 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 5:47:25 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 5:47:25 AM
Surr: 1,2-Dichloroethane-d4	100	70-130		%REC	10	6/2/2012 5:47:25 AM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	10	6/2/2012 5:47:25 AM
Surr: Dibromofluoromethane	94.0	69.8-130		%REC	10	6/2/2012 5:47:25 AM
Surr: Toluene-d8	105	70-130		%REC	10	6/2/2012 5:47:25 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	22000	0.50		µmhos/cm	50	5/31/2012 6:42:52 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.87	1.68	H	pH units	1	5/31/2012 11:09:20 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-3
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:30:00 PM
Lab ID: 1205B66-010
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	22	2.0	*	mg/L	20	6/5/2012 10:41:53 PM
Chloride	9500	250		mg/L	500	6/5/2012 10:04:40 PM
Bromide	2.4	0.50		mg/L	5	5/30/2012 7:32:30 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 7:32:30 PM
Sulfate	1400	25		mg/L	50	6/5/2012 10:54:18 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:12:51 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.076	0.0020		mg/L	1	6/15/2012 10:46:55 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:08:25 PM
Calcium	410	10		mg/L	10	6/15/2012 10:49:58 AM
Chromium	ND	0.0060		mg/L	1	6/19/2012 7:08:25 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:08:25 PM
Iron	0.22	0.020		mg/L	1	6/19/2012 7:08:25 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:08:25 PM
Magnesium	140	10		mg/L	10	6/15/2012 10:49:58 AM
Manganese	0.10	0.0020	*	mg/L	1	6/15/2012 10:46:55 AM
Potassium	190	10		mg/L	10	6/19/2012 6:21:29 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 10:46:55 AM
Sodium	4700	100		mg/L	100	6/19/2012 4:45:55 PM
Zinc	0.033	0.010		mg/L	1	6/19/2012 7:08:25 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.081	0.0020		mg/L	1	6/14/2012 11:48:16 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:48:16 AM
Chromium	ND	0.0060		mg/L	1	6/14/2012 11:48:16 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:12:55 AM
Iron	0.39	0.020	*	mg/L	1	6/19/2012 7:53:30 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:48:16 AM
Manganese	0.11	0.0020	*	mg/L	1	6/14/2012 11:48:16 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:48:16 AM
Zinc	ND	0.010		mg/L	1	6/14/2012 11:48:16 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.014	0.010	*	mg/L	10	6/19/2012 5:56:45 PM
Selenium	0.022	0.010		mg/L	10	6/19/2012 5:56:45 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 5:56:45 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.013	0.0025	*	mg/L	2.5	6/14/2012 1:13:02 PM
Selenium	0.013	0.0025		mg/L	2.5	6/14/2012 1:13:02 PM
Uranium	ND	0.0050		mg/L	5	6/15/2012 4:10:12 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-010 **Matrix:** AQUEOUS

Client Sample ID: EP-3
Collection Date: 5/29/2012 1:30:00 PM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:03:53 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Acenaphthylene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Aniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Azobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benz(a)anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(a)pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(b)fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(g,h,i)perylene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzo(k)fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Benzoic acid	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Benzyl alcohol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroethoxy)methane	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroethyl)ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-chloroisopropyl)ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Bis(2-ethylhexyl)phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Bromophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Butyl benzyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Carbazole	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chloro-3-methylphenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chloroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Chloronaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Chlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Chlorophenyl phenyl ether	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Chrysene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Di-n-butyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Di-n-octyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dibenz(a,h)anthracene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dibenzofuran	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,2-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,3-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,4-Dichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
3,3'-Dichlorobenzidine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Diethyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Dimethyl phthalate	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dichlorophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dimethylphenol	130	100		µg/L	1	6/1/2012 6:22:36 AM
4,6-Dinitro-2-methylphenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
2,4-Dinitrophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-010 **Matrix:** AQUEOUS

Client Sample ID: EP-3
Collection Date: 5/29/2012 1:30:00 PM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,6-Dinitrotoluene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Fluoranthene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Fluorene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorobutadiene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachlorocyclopentadiene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Hexachloroethane	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Indeno(1,2,3-cd)pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Isophorone	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Methylnaphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Methylphenol	870	100		µg/L	1	6/1/2012 6:22:36 AM
3+4-Methylphenol	1600	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodi-n-propylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodimethylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
N-Nitrosodiphenylamine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Naphthalene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Nitroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
3-Nitroaniline	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Nitroaniline	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Nitrobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2-Nitrophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
4-Nitrophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Pentachlorophenol	ND	200		µg/L	1	6/1/2012 6:22:36 AM
Phenanthrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Phenol	3300	200		µg/L	2	6/1/2012 10:54:09 AM
Pyrene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Pyridine	ND	100		µg/L	1	6/1/2012 6:22:36 AM
1,2,4-Trichlorobenzene	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4,5-Trichlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
2,4,6-Trichlorophenol	ND	100		µg/L	1	6/1/2012 6:22:36 AM
Surr: 2,4,6-Tribromophenol	93.4	44.2-126		%REC	1	6/1/2012 6:22:36 AM
Surr: 2-Fluorobiphenyl	89.5	37-114		%REC	1	6/1/2012 6:22:36 AM
Surr: 2-Fluorophenol	69.8	23.4-98		%REC	1	6/1/2012 6:22:36 AM
Surr: 4-Terphenyl-d14	97.5	41.3-116		%REC	1	6/1/2012 6:22:36 AM
Surr: Nitrobenzene-d5	97.6	39.5-118		%REC	1	6/1/2012 6:22:36 AM
Surr: Phenol-d5	57.5	20.9-95.9		%REC	1	6/1/2012 6:22:36 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Toluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-3
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:30:00 PM
Lab ID: 1205B66-010
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 6:16:40 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:16:40 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:16:40 AM
Acetone	210	100		µg/L	10	6/2/2012 6:16:40 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromoform	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 6:16:40 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Chloroform	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 6:16:40 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:16:40 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 6:16:40 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-3
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:30:00 PM
Lab ID: 1205B66-010 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 6:16:40 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 6:16:40 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Styrene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:16:40 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 6:16:40 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 6:16:40 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 6:16:40 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 6:16:40 AM
Surr: 1,2-Dichloroethane-d4	108	70-130		%REC	10	6/2/2012 6:16:40 AM
Surr: 4-Bromofluorobenzene	101	70-130		%REC	10	6/2/2012 6:16:40 AM
Surr: Dibromofluoromethane	93.8	69.8-130		%REC	10	6/2/2012 6:16:40 AM
Surr: Toluene-d8	106	70-130		%REC	10	6/2/2012 6:16:40 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	27000	0.50		µmhos/cm	50	5/31/2012 6:46:57 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.68	1.68	H	pH units	1	5/31/2012 11:13:25 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-9
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:55:00 PM
Lab ID: 1205B66-011
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	21	5.0	*	mg/L	50	6/5/2012 11:06:43 PM
Chloride	63000	2500		mg/L	5000	6/11/2012 6:28:11 PM
Bromide	24	5.0		mg/L	50	6/5/2012 11:06:43 PM
Phosphorus, Orthophosphate (As P)	ND	25	H	mg/L	50	6/5/2012 11:06:43 PM
Sulfate	7500	250		mg/L	500	6/5/2012 11:19:07 PM
Nitrate+Nitrite as N	ND	20		mg/L	100	6/11/2012 7:05:25 PM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.18	0.020		mg/L	10	6/15/2012 10:58:16 AM
Cadmium	ND	0.020		mg/L	10	6/19/2012 6:24:51 PM
Calcium	1100	20		mg/L	20	6/19/2012 5:37:02 PM
Chromium	ND	0.060		mg/L	10	6/19/2012 6:24:51 PM
Copper	ND	0.060		mg/L	10	6/19/2012 6:24:51 PM
Iron	ND	0.20		mg/L	10	6/19/2012 6:24:51 PM
Lead	ND	0.050		mg/L	10	6/19/2012 6:24:51 PM
Magnesium	930	10		mg/L	10	6/15/2012 10:58:16 AM
Manganese	4.8	0.020	*	mg/L	10	6/15/2012 10:58:16 AM
Potassium	1100	20		mg/L	20	6/19/2012 5:37:02 PM
Silver	ND	0.050		mg/L	10	6/15/2012 10:58:16 AM
Sodium	30000	500		mg/L	500	6/21/2012 10:41:18 AM
Zinc	ND	0.10		mg/L	10	6/19/2012 6:24:51 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.17	0.0020		mg/L	1	6/14/2012 11:54:53 AM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 11:54:53 AM
Chromium	0.0096	0.0060		mg/L	1	6/14/2012 11:54:53 AM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:15:59 AM
Iron	0.11	0.020		mg/L	1	6/19/2012 7:56:43 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 11:54:53 AM
Manganese	4.7	0.010	*	mg/L	5	6/14/2012 11:58:12 AM
Silver	ND	0.0050		mg/L	1	6/14/2012 11:54:53 AM
Zinc	0.014	0.010		mg/L	1	6/14/2012 11:54:53 AM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.086	0.020	*	mg/L	20	6/19/2012 5:58:37 PM
Selenium	0.084	0.020	*	mg/L	20	6/19/2012 5:58:37 PM
Uranium	ND	0.020		mg/L	20	6/19/2012 5:58:37 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.081	0.010	*	mg/L	10	6/14/2012 1:26:12 PM
Selenium	0.074	0.010	*	mg/L	10	6/14/2012 1:26:12 PM
Uranium	ND	0.020		mg/L	20	6/15/2012 4:14:08 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-9
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:55:00 PM
Lab ID: 1205B66-011
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:09:10 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Aniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Carbazole	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Chrysene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dimethylphenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-9
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:55:00 PM
Lab ID: 1205B66-011
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Fluorene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Isophorone	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Methylphenol	70	10		µg/L	1	6/1/2012 6:51:41 AM
3+4-Methylphenol	120	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 6:51:41 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Phenol	230	20		µg/L	2	6/1/2012 11:24:02 AM
Pyrene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Pyridine	ND	10		µg/L	1	6/1/2012 6:51:41 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 6:51:41 AM
Surr: 2,4,6-Tribromophenol	68.9	44.2-126		%REC	1	6/1/2012 6:51:41 AM
Surr: 2-Fluorobiphenyl	74.8	37-114		%REC	1	6/1/2012 6:51:41 AM
Surr: 2-Fluorophenol	55.7	23.4-98		%REC	1	6/1/2012 6:51:41 AM
Surr: 4-Terphenyl-d14	55.0	41.3-116		%REC	1	6/1/2012 6:51:41 AM
Surr: Nitrobenzene-d5	76.2	39.5-118		%REC	1	6/1/2012 6:51:41 AM
Surr: Phenol-d5	59.7	20.9-95.9		%REC	1	6/1/2012 6:51:41 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Toluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-9
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:55:00 PM
Lab ID: 1205B66-011
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Methyl tert-butyl ether (MTBE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,4-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3,5-Trimethylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichloroethane (EDC)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dibromoethane (EDB)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Naphthalene	ND	20		µg/L	10	6/2/2012 6:45:50 AM
1-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:45:50 AM
2-Methylnaphthalene	ND	40		µg/L	10	6/2/2012 6:45:50 AM
Acetone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Bromobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromodichloromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromoform	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Bromomethane	ND	30		µg/L	10	6/2/2012 6:45:50 AM
2-Butanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Carbon disulfide	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Carbon Tetrachloride	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chloroethane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Chloroform	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Chloromethane	ND	30		µg/L	10	6/2/2012 6:45:50 AM
2-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
4-Chlorotoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
cis-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:45:50 AM
cis-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dibromo-3-chloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Dibromochloromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Dibromomethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,4-Dichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Dichlorodifluoromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloroethene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,3-Dichloropropane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
2,2-Dichloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
1,1-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Hexachlorobutadiene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
2-Hexanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Isopropylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
4-Isopropyltoluene	ND	10		µg/L	10	6/2/2012 6:45:50 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-9
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 1:55:00 PM
Lab ID: 1205B66-011 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	100		µg/L	10	6/2/2012 6:45:50 AM
Methylene Chloride	ND	30		µg/L	10	6/2/2012 6:45:50 AM
n-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
n-Propylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
sec-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Styrene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
tert-Butylbenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,1,2-Tetrachloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,2,2-Tetrachloroethane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Tetrachloroethene (PCE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
trans-1,2-DCE	ND	10		µg/L	10	6/2/2012 6:45:50 AM
trans-1,3-Dichloropropene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,3-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,1-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,1,2-Trichloroethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Trichloroethene (TCE)	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Trichlorofluoromethane	ND	10		µg/L	10	6/2/2012 6:45:50 AM
1,2,3-Trichloropropane	ND	20		µg/L	10	6/2/2012 6:45:50 AM
Vinyl chloride	ND	10		µg/L	10	6/2/2012 6:45:50 AM
Xylenes, Total	ND	15		µg/L	10	6/2/2012 6:45:50 AM
Surr: 1,2-Dichloroethane-d4	99.8	70-130		%REC	10	6/2/2012 6:45:50 AM
Surr: 4-Bromofluorobenzene	109	70-130		%REC	10	6/2/2012 6:45:50 AM
Surr: Dibromofluoromethane	89.0	69.8-130		%REC	10	6/2/2012 6:45:50 AM
Surr: Toluene-d8	104	70-130		%REC	10	6/2/2012 6:45:50 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	160000	0.50		µmhos/cm	50	5/31/2012 6:51:08 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.57	1.68	H	pH units	1	5/31/2012 11:17:33 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-6
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 2:15:00 PM
Lab ID: 1205B66-012
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	20	2.0	*	mg/L	20	6/5/2012 7:23:19 PM
Chloride	8800	250		mg/L	500	6/5/2012 7:35:44 PM
Bromide	3.3	0.50		mg/L	5	5/30/2012 7:57:20 PM
Phosphorus, Orthophosphate (As P)	ND	2.5		mg/L	5	5/30/2012 7:57:20 PM
Sulfate	2100	250		mg/L	500	6/5/2012 7:35:44 PM
Nitrate+Nitrite as N	ND	4.0		mg/L	20	6/6/2012 2:37:41 AM
EPA METHOD 200.7: DISSOLVED METALS						Analyst: **ELS**
Barium	0.094	0.0020		mg/L	1	6/15/2012 11:13:01 AM
Cadmium	ND	0.0020		mg/L	1	6/19/2012 7:11:38 PM
Calcium	340	10		mg/L	10	6/19/2012 6:28:10 PM
Chromium	0.011	0.0060		mg/L	1	6/19/2012 7:11:38 PM
Copper	ND	0.0060		mg/L	1	6/19/2012 7:11:38 PM
Iron	0.11	0.020		mg/L	1	6/19/2012 7:11:38 PM
Lead	ND	0.0050		mg/L	1	6/19/2012 7:11:38 PM
Magnesium	150	10		mg/L	10	6/15/2012 11:16:49 AM
Manganese	0.41	0.0020	*	mg/L	1	6/15/2012 11:13:01 AM
Potassium	270	10		mg/L	10	6/19/2012 6:28:10 PM
Silver	ND	0.0050		mg/L	1	6/15/2012 11:13:01 AM
Sodium	4400	100		mg/L	100	6/19/2012 4:53:55 PM
Zinc	0.019	0.010		mg/L	1	6/19/2012 7:11:38 PM
EPA METHOD 200.7: TOTAL METALS						Analyst: **ELS**
Barium	0.10	0.0020		mg/L	1	6/14/2012 12:01:23 PM
Cadmium	ND	0.0020		mg/L	1	6/14/2012 12:01:23 PM
Chromium	0.0093	0.0060		mg/L	1	6/14/2012 12:01:23 PM
Copper	ND	0.0060		mg/L	1	6/15/2012 9:19:17 AM
Iron	0.28	0.020		mg/L	1	6/19/2012 7:59:56 PM
Lead	ND	0.0050		mg/L	1	6/14/2012 12:01:23 PM
Manganese	0.42	0.0020	*	mg/L	1	6/14/2012 12:01:23 PM
Silver	ND	0.0050		mg/L	1	6/14/2012 12:01:23 PM
Zinc	0.013	0.010		mg/L	1	6/14/2012 12:01:23 PM
EPA 200.8: DISSOLVED METALS						Analyst: **SNV**
Arsenic	0.020	0.010	*	mg/L	10	6/19/2012 6:00:29 PM
Selenium	0.017	0.010		mg/L	10	6/19/2012 6:00:29 PM
Uranium	ND	0.010		mg/L	10	6/19/2012 6:00:29 PM
200.8 ICPMS METALS:TOTAL						Analyst: **SNV**
Arsenic	0.017	0.0025	*	mg/L	2.5	6/14/2012 1:14:54 PM
Selenium	0.016	0.0025		mg/L	2.5	6/14/2012 1:14:54 PM
Uranium	ND	0.0025		mg/L	2.5	6/14/2012 1:14:54 PM
EPA METHOD 245.1: MERCURY						Analyst: **IDC**

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-6
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 2:15:00 PM
Lab ID: 1205B66-012
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 245.1: MERCURY						Analyst: **IDC**
Mercury	ND	0.00020		mg/L	1	6/1/2012 4:10:56 PM
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
Acenaphthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Acenaphthylene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Aniline	36	10		µg/L	1	6/1/2012 7:20:45 AM
Anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Azobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benz(a)anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(a)pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(b)fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(g,h,i)perylene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzo(k)fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Benzoic acid	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Benzyl alcohol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroethoxy)methane	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroethyl)ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-chloroisopropyl)ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Bis(2-ethylhexyl)phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Bromophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Butyl benzyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Carbazole	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chloro-3-methylphenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chloroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Chloronaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Chlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Chlorophenyl phenyl ether	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Chrysene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Di-n-butyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Di-n-octyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dibenz(a,h)anthracene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dibenzofuran	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,2-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,3-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,4-Dichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
3,3'-Dichlorobenzidine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Diethyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Dimethyl phthalate	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dichlorophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dimethylphenol	34	10		µg/L	1	6/1/2012 7:20:45 AM
4,6-Dinitro-2-methylphenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
2,4-Dinitrophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-6
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 2:15:00 PM
Lab ID: 1205B66-012
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8270C: SEMIVOLATILES						Analyst: **JDC**
2,4-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,6-Dinitrotoluene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Fluoranthene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Fluorene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorobutadiene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachlorocyclopentadiene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Hexachloroethane	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Indeno(1,2,3-cd)pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Isophorone	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Methylnaphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Methylphenol	430	100		µg/L	10	6/1/2012 11:53:54 AM
3+4-Methylphenol	410	100		µg/L	10	6/1/2012 11:53:54 AM
N-Nitrosodi-n-propylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
N-Nitrosodimethylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
N-Nitrosodiphenylamine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Naphthalene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Nitroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
3-Nitroaniline	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Nitroaniline	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Nitrobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2-Nitrophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
4-Nitrophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Pentachlorophenol	ND	20		µg/L	1	6/1/2012 7:20:45 AM
Phenanthrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Phenol	720	100		µg/L	10	6/1/2012 11:53:54 AM
Pyrene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Pyridine	ND	10		µg/L	1	6/1/2012 7:20:45 AM
1,2,4-Trichlorobenzene	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4,5-Trichlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
2,4,6-Trichlorophenol	ND	10		µg/L	1	6/1/2012 7:20:45 AM
Surr: 2,4,6-Tribromophenol	54.3	44.2-126		%REC	1	6/1/2012 7:20:45 AM
Surr: 2-Fluorobiphenyl	71.0	37-114		%REC	1	6/1/2012 7:20:45 AM
Surr: 2-Fluorophenol	40.2	23.4-98		%REC	1	6/1/2012 7:20:45 AM
Surr: 4-Terphenyl-d14	73.0	41.3-116		%REC	1	6/1/2012 7:20:45 AM
Surr: Nitrobenzene-d5	82.6	39.5-118		%REC	1	6/1/2012 7:20:45 AM
Surr: Phenol-d5	41.4	20.9-95.9		%REC	1	6/1/2012 7:20:45 AM
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-6
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 2:15:00 PM
Lab ID: 1205B66-012
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 7:15:12 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 7:15:12 AM
Acetone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: EP-6
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 2:15:00 PM
Lab ID: 1205B66-012
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 7:15:12 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 7:15:12 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 7:15:12 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 7:15:12 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 7:15:12 AM
Surr: 1,2-Dichloroethane-d4	98.9	70-130		%REC	1	6/2/2012 7:15:12 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	6/2/2012 7:15:12 AM
Surr: Dibromofluoromethane	98.1	69.8-130		%REC	1	6/2/2012 7:15:12 AM
Surr: Toluene-d8	104	70-130		%REC	1	6/2/2012 7:15:12 AM
EPA 120.1: SPECIFIC CONDUCTANCE						Analyst: **DBD**
Conductivity	27000	0.50		µmhos/cm	50	5/31/2012 6:55:10 PM
SM4500-H+B: PH						Analyst: **DBD**
pH	7.86	1.68	H	pH units	1	5/31/2012 11:21:34 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: BW TO EP-2
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 11:00:00 AM
Lab ID: 1205B66-013
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 300.0: ANIONS						Analyst: **BRM**
Fluoride	0.82	0.50		mg/L	5	6/5/2012 11:43:55 PM
Chloride	60	2.5		mg/L	5	6/5/2012 11:43:55 PM
Bromide	ND	0.50		mg/L	5	6/5/2012 11:43:55 PM
Phosphorus, Orthophosphate (As P)	ND	2.5	H	mg/L	5	6/5/2012 11:43:55 PM
Sulfate	1700	100		mg/L	200	6/6/2012 12:08:44 AM
Nitrate+Nitrite as N	ND	1.0		mg/L	5	6/20/2012 4:05:16 PM
EPA METHOD 200.7: METALS						Analyst: **ELS**
Calcium	4.5	1.0		mg/L	1	6/14/2012 7:52:26 AM
Magnesium	ND	1.0		mg/L	1	6/14/2012 7:52:26 AM
Potassium	2.8	1.0		mg/L	1	6/14/2012 7:52:26 AM
Sodium	1300	20		mg/L	20	6/14/2012 8:05:17 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Project: 2012 SEMI ANNUAL PONDS
Lab ID: 1205B66-014 **Matrix:** AQUEOUS

Client Sample ID: Field Blank
Collection Date: 5/29/2012 9:30:00 AM
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 8:42:54 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 8:42:54 AM
Acetone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: Field Blank
Project: 2012 SEMI ANNUAL PONDS
Collection Date: 5/29/2012 9:30:00 AM
Lab ID: 1205B66-014 **Matrix:** AQUEOUS **Received Date:** 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 8:42:54 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 8:42:54 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 8:42:54 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 8:42:54 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 8:42:54 AM
Surr: 1,2-Dichloroethane-d4	103	70-130		%REC	1	6/2/2012 8:42:54 AM
Surr: 4-Bromofluorobenzene	118	70-130		%REC	1	6/2/2012 8:42:54 AM
Surr: Dibromofluoromethane	92.8	69.8-130		%REC	1	6/2/2012 8:42:54 AM
Surr: Toluene-d8	101	70-130		%REC	1	6/2/2012 8:42:54 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: Trip Blank
Project: 2012 SEMI ANNUAL PONDS
Collection Date:
Lab ID: 1205B66-015
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Benzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Toluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Ethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Methyl tert-butyl ether (MTBE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,4-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3,5-Trimethylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichloroethane (EDC)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dibromoethane (EDB)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Naphthalene	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
1-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 9:12:16 AM
2-Methylnaphthalene	ND	4.0		µg/L	1	6/2/2012 9:12:16 AM
Acetone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Bromobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromodichloromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromoform	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Bromomethane	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
2-Butanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Carbon disulfide	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Carbon Tetrachloride	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chloroethane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Chloroform	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Chloromethane	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
2-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Chlorotoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
cis-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
cis-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dibromo-3-chloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Dibromochloromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Dibromomethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,4-Dichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Dichlorodifluoromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloroethene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,3-Dichloropropane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
2,2-Dichloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
1,1-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Hexachlorobutadiene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
2-Hexanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- 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
- RL Reporting Detection Limit
- U Samples with CalcVal < MDL

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup
Client Sample ID: Trip Blank
Project: 2012 SEMI ANNUAL PONDS
Collection Date:
Lab ID: 1205B66-015
Matrix: AQUEOUS
Received Date: 5/30/2012 1:00:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8260B: VOLATILES						Analyst: **RAA**
Isopropylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Isopropyltoluene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
4-Methyl-2-pentanone	ND	10		µg/L	1	6/2/2012 9:12:16 AM
Methylene Chloride	ND	3.0		µg/L	1	6/2/2012 9:12:16 AM
n-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
n-Propylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
sec-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Styrene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
tert-Butylbenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,1,2-Tetrachloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,2,2-Tetrachloroethane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Tetrachloroethene (PCE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
trans-1,2-DCE	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
trans-1,3-Dichloropropene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,3-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,4-Trichlorobenzene	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,1-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,1,2-Trichloroethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Trichloroethene (TCE)	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Trichlorofluoromethane	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
1,2,3-Trichloropropane	ND	2.0		µg/L	1	6/2/2012 9:12:16 AM
Vinyl chloride	ND	1.0		µg/L	1	6/2/2012 9:12:16 AM
Xylenes, Total	ND	1.5		µg/L	1	6/2/2012 9:12:16 AM
Surr: 1,2-Dichloroethane-d4	98.1	70-130		%REC	1	6/2/2012 9:12:16 AM
Surr: 4-Bromofluorobenzene	104	70-130		%REC	1	6/2/2012 9:12:16 AM
Surr: Dibromofluoromethane	94.1	69.8-130		%REC	1	6/2/2012 9:12:16 AM
Surr: Toluene-d8	109	70-130		%REC	1	6/2/2012 9:12:16 AM

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit
S	Spike Recovery outside accepted recovery limits	U	Samples with CalcVal < MDL

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-01

Site ID :

Project # :

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-001F EP-2

Collected By :
Collection Date : 05/29/12 10:45

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	860	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-02

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-002F EP-1

Project # :

Collected By :
Collection Date : 05/29/12 10:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	990	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-03

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-003F EP-12B

Project # :

Collected By :
Collection Date : 05/29/12 11:35

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	920	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-04

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-004F EP-12A

Project # :

Collected By :
Collection Date : 05/29/12 11:55

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	660	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

ESC Sample # : L578081-05

Sample ID : 1205B66-005F EP-11

Site ID :

Project # :

Collected By :
Collection Date : 05/29/12 12:10

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	890	20.	mg/l	410.4	06/08/12	2

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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Anne Thorne
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Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-006F EP-7

Collected By :
Collection Date : 05/29/12 12:25

ESC Sample # : L578081-06

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	3200	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
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4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-07

Site ID :

Project # :

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-007F EP-8

Collected By :
Collection Date : 05/29/12 12:40

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	3800	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
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Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

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Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-08

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-008F EP-5

Site ID :

Project # :

Collected By :
Collection Date : 05/29/12 13:00

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	760	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
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4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-09

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-009F EP-4

Project # :

Collected By :
Collection Date : 05/29/12 13:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	680	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
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Albuquerque, NM 87109

June 08, 2012

ESC Sample # : L578081-10

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-010F EP-3

Project # :

Collected By :
Collection Date : 05/29/12 13:30

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	980	20.	mg/l	410.4	06/08/12	2

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
Albuquerque, NM 87109

June 08, 2012

Date Received : June 01, 2012
Description :

Sample ID : 1205B66-011F EP-9

Collected By :
Collection Date : 05/29/12 13:55

ESC Sample # : L578081-11

Site ID :

Project # :

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	2800	500	mg/l	410.4	06/07/12	50

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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REPORT OF ANALYSIS

Anne Thorne
Hall Environmental Analysis Laborat
4901 Hawkins NE
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June 08, 2012

ESC Sample # : L578081-12

Date Received : June 01, 2012
Description :

Site ID :

Sample ID : 1205B66-012F EP-6

Project # :

Collected By :
Collection Date : 05/29/12 14:15

Parameter	Result	Det. Limit	Units	Method	Date	Dil.
COD	710	10.	mg/l	410.4	06/07/12	1

BDL - Below Detection Limit
Det. Limit - Practical Quantitation Limit(PQL)
Note:
The reported analytical results relate only to the sample submitted.

Reported: 06/08/12 17:30 Printed: 06/08/12 17:31

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Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L578081

June 08, 2012

Laboratory Blank

Analyte	Result	Units	% Rec	Limit	Batch	Date Analyzed
COD	< 10	mg/l			WG596480	06/07/12 13:37
COD	< 10	mg/l			WG596481	06/07/12 13:57
COD	< 10	mg/l			WG596773	06/08/12 13:46

Duplicate

Analyte	Units	Result	Duplicate	RPD	Limit	Ref Samp	Batch
COD	mg/l	1600	1600	0.627	5	L577700-01	WG596480
COD	mg/l	2300	2400	5.57*	5	L577722-01	WG596480
COD	mg/l	3200	3200	0.312	5	L577722-02	WG596480
COD	mg/l	29.0	31.0	8.05*	5	L578159-01	WG596481
COD	mg/l	920.	920.	0.218	5	L578081-03	WG596481
COD	mg/l	980.	980.	0	5	L578081-10	WG596773
COD	mg/l	32.0	24.0	27.6*	5	L578215-02	WG596773

Laboratory Control Sample

Analyte	Units	Known Val	Result	% Rec	Limit	Batch
COD	mg/l	230	233.	101.	90-110	WG596480
COD	mg/l	230	236.	103.	90-110	WG596481
COD	mg/l	230	241.	105.	90-110	WG596773

Laboratory Control Sample Duplicate

Analyte	Units	Result	Ref	%Rec	Limit	RPD	Limit	Batch
COD	mg/l	238.	233.	103.	90-110	2.12	5	WG596480
COD	mg/l	235.	236.	102.	90-110	0.425	5	WG596481
COD	mg/l	238.	241.	103.	90-110	1.25	5	WG596773

Matrix Spike

Analyte	Units	MS Res	Ref Res	TV	% Rec	Limit	Ref Samp	Batch
COD	mg/l	453.	66.0	400	96.8	90-110	L577520-01	WG596480
COD	mg/l	937.	660.	400	69.2*	90-110	L578081-04	WG596481
COD	mg/l	708.	320.	400	97.0	90-110	L577916-01	WG596773

* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

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Hall Environmental Analysis Laboratory
Anne Thorne
4901 Hawkins NE

Albuquerque, NM 87109

Quality Assurance Report
Level II

L578081

June 08, 2012

Analyte	Units	Matrix Spike MSD	Duplicate Ref	%Rec	Limit	RPD	Limit	Ref Samp	Batch
COD	mg/l	457.	453.	97.8	90-110	0.879	5	L577520-01	WG596480
COD	mg/l	936.	937.	69.0*	90-110	0.107	5	L578081-04	WG596481
COD	mg/l	705.	708.	96.2	90-110	0.425	5	L577916-01	WG596773

Batch number /Run number / Sample number cross reference

WG596480: R2201074: L578081-01 02
WG596481: R2201494: L578081-03 04 06 07 08 09 10 11 12
WG596773: R2202773: L578081-05 10

* * Calculations are performed prior to rounding of reported values.
* Performance of this Analyte is outside of established criteria.
For additional information, please see Attachment A 'List of Analytes with QC Qualifiers.'

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **ICB**	SampType: **ICB**	TestCode: **EPA Method 200.7: Metals**
Client ID: **ICB**	Batch ID: **R3423**	RunNo: **3423**
Prep Date:	Analysis Date: **6/14/2012**	SeqNo: **95696** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0	1.000	0	0.453	-100	99			
Magnesium	ND	1.0	1.000	0	0.125	-100	99			
Potassium	ND	1.0	1.000	0	-1.41	-100	99			
Sodium	ND	1.0	1.000	0	3.75	-100	99			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **R3423**	RunNo: **3423**
Prep Date:	Analysis Date: **6/14/2012**	SeqNo: **95701** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **R3423**	RunNo: **3423**
Prep Date:	Analysis Date: **6/14/2012**	SeqNo: **95702** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0.2811	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	48	1.0	50.00	0	96.8	85	115			
Sodium	49	1.0	50.00	0	98.8	85	115			

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3430**
Prep Date: **6/4/2012**	Analysis Date: **6/14/2012**	SeqNo: **96128** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **LCS-2211**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **2211**	RunNo: **3430**
Prep Date: **6/4/2012**	Analysis Date: **6/14/2012**	SeqNo: **96129** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.0005500	97.1	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.2	85	115			
Manganese	0.47	0.0020	0.5000	0	95.0	85	115			
Silver	0.099	0.0050	0.1000	0	98.9	85	115			
Zinc	0.49	0.010	0.5000	0.002630	97.5	85	115			

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Metals**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3472**
Prep Date: **6/4/2012**	Analysis Date: **6/15/2012**	SeqNo: **101037** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0060								

Sample ID **LCS-2211**	SampType: **LCS**	TestCode: **EPA Method 200.7: Metals**
Client ID: **LCSW**	Batch ID: **2211**	RunNo: **3472**
Prep Date: **6/4/2012**	Analysis Date: **6/15/2012**	SeqNo: **101038** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.51	0.0060	0.5000	0	102	85	115			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R3423**	RunNo: **3423**
Prep Date:	Analysis Date: **6/14/2012**	SeqNo: **95925** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	ND	1.0								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R3423**	RunNo: **3423**
Prep Date:	Analysis Date: **6/14/2012**	SeqNo: **95926** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Calcium	51	1.0	50.00	0.2811	102	85	115			
Magnesium	50	1.0	50.00	0	101	85	115			
Potassium	48	1.0	50.00	0	96.8	85	115			
Sodium	49	1.0	50.00	0	98.8	85	115			

Sample ID **ICV**	SampType: **ICV**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **ICV**	Batch ID: **R3472**	RunNo: **3472**
Prep Date:	Analysis Date: **6/15/2012**	SeqNo: **97287** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.52	0.0020	0.5000	0	103	95	105			
Cadmium	0.52	0.0020	0.5000	0	103	95	105			
Copper	0.51	0.0060	0.5000	0	102	95	105			
Lead	0.51	0.0050	0.5000	0	103	95	105			
Manganese	0.52	0.0020	0.5000	0	103	95	105			
Silver	0.52	0.0050	0.5000	0	104	95	105			

Sample ID **ICB**	SampType: **ICB**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **ICB**	Batch ID: **R3472**	RunNo: **3472**
Prep Date:	Analysis Date: **6/15/2012**	SeqNo: **97288** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020	0.002000	0	-14.5	-100	99			
Cadmium	ND	0.0020	0.002000	0	10.0	-100	99			
Calcium	ND	1.0	1.000	0	0.318	-100	99			
Copper	ND	0.0060	0.006000	0	4.83	-100	99			
Lead	ND	0.0050	0.005000	0	-16.0	-100	99			
Magnesium	ND	1.0	1.000	0	0.0170	-100	99			
Manganese	ND	0.0020	0.002000	0	15.0	-100	99			
Potassium	ND	1.0	1.000	0	3.33	-100	99			
Silver	ND	0.0050	0.005000	0	4.80	-100	99			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
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- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **PBW** Batch ID: **R3472** RunNo: **3472**

Prep Date: Analysis Date: **6/15/2012** SeqNo: **97292** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Copper	ND	0.0060								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Manganese	ND	0.0020								
Potassium	ND	1.0								
Silver	ND	0.0050								

Sample ID **LCS** SampType: **LCS** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **LCSW** Batch ID: **R3472** RunNo: **3472**

Prep Date: Analysis Date: **6/15/2012** SeqNo: **97293** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.50	0.0020	0.5000	0	99.4	85	115			
Cadmium	0.50	0.0020	0.5000	0	99.6	85	115			
Calcium	50	1.0	50.00	0	99.1	85	115			
Copper	0.48	0.0060	0.5000	0	95.8	85	115			
Lead	0.50	0.0050	0.5000	0	99.8	85	115			
Magnesium	49	1.0	50.00	0	97.7	85	115			
Manganese	0.48	0.0020	0.5000	0	96.7	85	115			
Potassium	47	1.0	50.00	0	94.1	85	115			
Silver	0.10	0.0050	0.1000	0	100	85	115			

Sample ID **ICV** SampType: **ICV** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **ICV** Batch ID: **R3552** RunNo: **3552**

Prep Date: Analysis Date: **6/19/2012** SeqNo: **100110** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	101	95	105			
Chromium	0.49	0.0060	0.5000	0	99.0	95	105			
Copper	0.50	0.0060	0.5000	0	100	95	105			
Iron	0.49	0.020	0.5000	0	97.2	95	105			
Lead	0.50	0.0050	0.5000	0	100	95	105			
Zinc	0.50	0.010	0.5000	0	100	95	105			

Sample ID **ICB** SampType: **ICB** TestCode: **EPA Method 200.7: Dissolved Metals**

Client ID: **ICB** Batch ID: **R3552** RunNo: **3552**

Prep Date: Analysis Date: **6/19/2012** SeqNo: **100111** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **ICB**	SampType: **ICB**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **ICB**	Batch ID: **R3552**	RunNo: **3552**
Prep Date:	Analysis Date: **6/19/2012**	SeqNo: **100111** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020	0.002000	0	-0.500	-100	99			
Calcium	ND	1.0	1.000	0	-0.766	-100	99			
Chromium	ND	0.0060	0.006000	0	12.5	-100	99			
Copper	ND	0.0060	0.006000	0	42.3	-100	99			
Iron	ND	0.020	0.02000	0	-24.1	-100	99			
Lead	ND	0.0050	0.005000	0	48.6	-100	99			
Magnesium	ND	1.0	1.000	0	-0.109	-100	99			
Potassium	ND	1.0	1.000	0	-5.21	-100	99			
Sodium	ND	1.0	1.000	0	-0.283	-100	99			
Zinc	ND	0.010	0.01000	0	-0.300	-100	99			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R3552**	RunNo: **3552**
Prep Date: **5/10/2012**	Analysis Date: **6/19/2012**	SeqNo: **100115** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	ND	0.0020								
Calcium	ND	1.0								
Chromium	ND	0.0060								
Copper	ND	0.0060								
Iron	ND	0.020								
Lead	ND	0.0050								
Magnesium	ND	1.0								
Potassium	ND	1.0								
Sodium	ND	1.0								
Zinc	ND	0.010								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R3552**	RunNo: **3552**
Prep Date:	Analysis Date: **6/19/2012**	SeqNo: **100116** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Cadmium	0.50	0.0020	0.5000	0	101	85	115			
Calcium	51	1.0	50.00	0	102	85	115			
Chromium	0.48	0.0060	0.5000	0	96.6	85	115			
Copper	0.49	0.0060	0.5000	0	97.3	85	115			
Iron	0.48	0.020	0.5000	0	96.2	85	115			
Lead	0.50	0.0050	0.5000	0.002890	99.1	85	115			
Magnesium	53	1.0	50.00	0	106	85	115			
Potassium	52	1.0	50.00	0	103	85	115			
Sodium	52	1.0	50.00	0	105	85	115			
Zinc	0.48	0.010	0.5000	0	95.8	85	115			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **ICB**	SampType: **ICB**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **ICB**	Batch ID: **R3580**	RunNo: **3580**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **100992** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0	1.000	0	0.990	-100	99			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R3580**	RunNo: **3580**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **100997** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0								

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R3580**	RunNo: **3580**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **100999** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	51	1.0	50.00	0	101	85	115			

Sample ID **ICB**	SampType: **ICB**	TestCode: **EPA Method 200.7: Dissolved Metals**
Client ID: **ICB**	Batch ID: **R3580**	RunNo: **3580**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **103841** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Sodium	ND	1.0	1.000	0	1.76	-100	99			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3430**
Prep Date: **6/4/2012**	Analysis Date: **6/14/2012**	SeqNo: **96102** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	0.0020								
Cadmium	ND	0.0020								
Chromium	ND	0.0060								
Lead	ND	0.0050								
Manganese	ND	0.0020								
Silver	ND	0.0050								
Zinc	ND	0.010								

Sample ID **LCS-2211**	SampType: **LCS**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **LCSW**	Batch ID: **2211**	RunNo: **3430**
Prep Date: **6/4/2012**	Analysis Date: **6/14/2012**	SeqNo: **96103** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	0.49	0.0020	0.5000	0.0005500	97.1	85	115			
Cadmium	0.49	0.0020	0.5000	0	97.6	85	115			
Chromium	0.48	0.0060	0.5000	0	96.3	85	115			
Lead	0.49	0.0050	0.5000	0	98.2	85	115			
Manganese	0.47	0.0020	0.5000	0	95.0	85	115			
Silver	0.099	0.0050	0.1000	0	98.9	85	115			
Zinc	0.49	0.010	0.5000	0.002630	97.5	85	115			

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3472**
Prep Date: **6/4/2012**	Analysis Date: **6/15/2012**	SeqNo: **97294** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	ND	0.0060								

Sample ID **LCS-2211**	SampType: **LCS**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **LCSW**	Batch ID: **2211**	RunNo: **3472**
Prep Date: **6/4/2012**	Analysis Date: **6/15/2012**	SeqNo: **97295** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Copper	0.51	0.0060	0.5000	0	102	85	115			

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3474**
Prep Date: **6/4/2012**	Analysis Date: **6/16/2012**	SeqNo: **104093** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	ND	0.020								

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **LCS-2211**	SampType: **LCS**	TestCode: **EPA Method 200.7: Total Metals**
Client ID: **LCSW**	Batch ID: **2211**	RunNo: **3474**
Prep Date: **6/4/2012**	Analysis Date: **6/16/2012**	SeqNo: **104094** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Iron	0.47	0.020	0.5000	0	94.0	85	115			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD outside accepted recovery limits
- B Analyte detected in the associated Method Blank
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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **LCS**	SampType: **LCS**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **LCSW**	Batch ID: **R3538**	RunNo: **3538**
Prep Date:	Analysis Date: **6/19/2012**	SeqNo: **99659** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	0.026	0.0010	0.02500	0	104	85	115			
Selenium	0.027	0.0010	0.02500	0	107	85	115			
Uranium	0.024	0.0010	0.02500	0	97.3	85	115			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA 200.8: Dissolved Metals**
Client ID: **PBW**	Batch ID: **R3538**	RunNo: **3538**
Prep Date:	Analysis Date: **6/19/2012**	SeqNo: **99660** 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								
Uranium	ND	0.0010								

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **200.8 ICPMS Metals:Total**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3356**
Prep Date: **6/4/2012**	Analysis Date: **6/11/2012**	SeqNo: **93647** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	0.0025								
Uranium	ND	0.0025								

Sample ID **MB-2211**	SampType: **MBLK**	TestCode: **200.8 ICPMS Metals:Total**
Client ID: **PBW**	Batch ID: **2211**	RunNo: **3459**
Prep Date: **6/4/2012**	Analysis Date: **6/14/2012**	SeqNo: **96999** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	0.0025								

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID	**MB-2182**	SampType: **MBLK**		TestCode: **EPA Method 245.1: Mercury**					
Client ID:	**PBW**	Batch ID: **2182**		RunNo: **3201**					
Prep Date:	**6/1/2012**	Analysis Date: **6/1/2012**		SeqNo: **88720**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-2182**	SampType: **LCS**		TestCode: **EPA Method 245.1: Mercury**					
Client ID:	**LCSW**	Batch ID: **2182**		RunNo: **3201**					
Prep Date:	**6/1/2012**	Analysis Date: **6/1/2012**		SeqNo: **88721**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0051	0.00020	0.005000	0	103	80	120			

Sample ID	**MB-2194**	SampType: **MBLK**		TestCode: **EPA Method 245.1: Mercury**					
Client ID:	**PBW**	Batch ID: **2194**		RunNo: **3201**					
Prep Date:	**6/1/2012**	Analysis Date: **6/1/2012**		SeqNo: **88768**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.00020								

Sample ID	**LCS-2194**	SampType: **LCS**		TestCode: **EPA Method 245.1: Mercury**					
Client ID:	**LCSW**	Batch ID: **2194**		RunNo: **3201**					
Prep Date:	**6/1/2012**	Analysis Date: **6/1/2012**		SeqNo: **88769**		Units: **mg/L**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.0052	0.00020	0.005000	0	104	80	120			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBW** Batch ID: **R3112** RunNo: **3112**

Prep Date: Analysis Date: **5/30/2012** SeqNo: **86071** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSW** Batch ID: **R3112** RunNo: **3112**

Prep Date: Analysis Date: **5/30/2012** SeqNo: **86072** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.93	0.10	1.000	0	92.7	90	110			
Bromide	2.4	0.10	2.500	0	97.6	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	102	90	110			
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	100	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBW** Batch ID: **R3112** RunNo: **3112**

Prep Date: Analysis Date: **5/30/2012** SeqNo: **86123** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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** SampType: **LCS** TestCode: **EPA Method 300.0: Anions**

Client ID: **LCSW** Batch ID: **R3112** RunNo: **3112**

Prep Date: Analysis Date: **5/30/2012** SeqNo: **86124** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrogen, Nitrite (As N)	0.92	0.10	1.000	0	91.5	90	110			
Bromide	2.4	0.10	2.500	0	95.1	90	110			
Nitrogen, Nitrate (As N)	2.5	0.10	2.500	0	98.8	90	110			
Phosphorus, Orthophosphate (As P	4.9	0.50	5.000	0	98.5	90	110			

Sample ID **MB** SampType: **MBLK** TestCode: **EPA Method 300.0: Anions**

Client ID: **PBW** Batch ID: **R3223** RunNo: **3223**

Prep Date: Analysis Date: **6/5/2012** SeqNo: **89301** 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								

Qualifiers:

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- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3223**	RunNo: **3223**
Prep Date:	Analysis Date: **6/5/2012**	SeqNo: **89301** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Bromide	ND	0.10								
Phosphorus, Orthophosphate (As P	ND	0.50								
Sulfate	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: **R3223**	RunNo: **3223**
Prep Date:	Analysis Date: **6/5/2012**	SeqNo: **89302** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoride	0.46	0.10	0.5000	0	91.8	90	110			
Chloride	4.8	0.50	5.000	0	95.0	90	110			
Bromide	2.4	0.10	2.500	0	96.0	90	110			
Phosphorus, Orthophosphate (As P	5.0	0.50	5.000	0	99.0	90	110			
Sulfate	9.7	0.50	10.00	0	97.0	90	110			
Nitrate+Nitrite as N	3.4	0.20	3.500	0	97.6	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3349**	RunNo: **3349**
Prep Date:	Analysis Date: **6/11/2012**	SeqNo: **93342** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Chloride	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: **R3349**	RunNo: **3349**
Prep Date:	Analysis Date: **6/11/2012**	SeqNo: **93343** 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	98.2	90	110			
Nitrate+Nitrite as N	3.5	0.20	3.500	0	101	90	110			

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3576**	RunNo: **3576**
Prep Date:	Analysis Date: **6/20/2012**	SeqNo: **100775** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	ND	0.20								

Qualifiers:

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- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **MB**	SampType: **MBLK**	TestCode: **EPA Method 300.0: Anions**
Client ID: **PBW**	Batch ID: **R3576**	RunNo: **3576**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **100850** 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**	SampType: **LCS**	TestCode: **EPA Method 300.0: Anions**
Client ID: **LCSW**	Batch ID: **R3576**	RunNo: **3576**
Prep Date:	Analysis Date: **6/21/2012**	SeqNo: **100851** Units: **mg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Nitrate+Nitrite as N	3.3	0.20	3.500	0	95.2	90	110			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
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- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88010** 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								
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								

Qualifiers:

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- E Value above quantitation range
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- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **5ml rb**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88010** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	1.0								
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	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		103	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.6		10.00		96.2	69.8	130			
Surr: Toluene-d8	11		10.00		107	70	130			

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88014** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	98.2	84.1	126			
Toluene	20	1.0	20.00	0	102	80	120			
Chlorobenzene	20	1.0	20.00	0	101	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	117	83	130			
Trichloroethene (TCE)	21	1.0	20.00	0	104	76.2	119			
Surr: 1,2-Dichloroethane-d4	10		10.00		100	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		107	70	130			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **100ng lcs**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88014** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.3		10.00		92.6	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **b3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88039** 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								
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								

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **b3**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88039** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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	1.0								
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	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	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		113	70	130			
Surr: Dibromofluoromethane	9.7		10.00		96.5	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **100ng lcs2**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/1/2012**	SeqNo: **88040** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	20	1.0	20.00	0	101	84.1	126			
Toluene	22	1.0	20.00	0	110	80	120			
Chlorobenzene	21	1.0	20.00	0	106	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	117	83	130			
Trichloroethene (TCE)	22	1.0	20.00	0	112	76.2	119			
Surr: 1,2-Dichloroethane-d4	10		10.00		101	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		112	70	130			
Surr: Dibromofluoromethane	9.5		10.00		95.2	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/2/2012**	SeqNo: **88052** 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								

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/2/2012**	SeqNo: **88052** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
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								
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	1.0								
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	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		103	70	130			
Surr: 4-Bromofluorobenzene	11		10.00		108	70	130			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **b5**	SampType: **MBLK**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **PBW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/2/2012**	SeqNo: **88052** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	9.3		10.00		93.3	69.8	130			
Surr: Toluene-d8	10		10.00		104	70	130			

Sample ID **100ng lcs3**	SampType: **LCS**	TestCode: **EPA Method 8260B: VOLATILES**
Client ID: **LCSW**	Batch ID: **R3180**	RunNo: **3180**
Prep Date:	Analysis Date: **6/2/2012**	SeqNo: **88053** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	21	1.0	20.00	0	104	84.1	126			
Toluene	21	1.0	20.00	0	105	80	120			
Chlorobenzene	21	1.0	20.00	0	103	70	130			
1,1-Dichloroethene	23	1.0	20.00	0	116	83	130			
Trichloroethene (TCE)	22	1.0	20.00	0	112	76.2	119			
Surr: 1,2-Dichloroethane-d4	9.8		10.00		98.2	70	130			
Surr: 4-Bromofluorobenzene	10		10.00		104	70	130			
Surr: Dibromofluoromethane	9.6		10.00		95.8	69.8	130			
Surr: Toluene-d8	10		10.00		102	70	130			

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **mb-2172**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **2172**	RunNo: **3140**
Prep Date: **5/31/2012**	Analysis Date: **5/31/2012**	SeqNo: **86803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	ND	10								
Acenaphthylene	ND	10								
Aniline	ND	10								
Anthracene	ND	10								
Azobenzene	ND	10								
Benz(a)anthracene	ND	10								
Benzo(a)pyrene	ND	10								
Benzo(b)fluoranthene	ND	10								
Benzo(g,h,i)perylene	ND	10								
Benzo(k)fluoranthene	ND	10								
Benzoic acid	ND	20								
Benzyl alcohol	ND	10								
Bis(2-chloroethoxy)methane	ND	10								
Bis(2-chloroethyl)ether	ND	10								
Bis(2-chloroisopropyl)ether	ND	10								
Bis(2-ethylhexyl)phthalate	ND	10								
4-Bromophenyl phenyl ether	ND	10								
Butyl benzyl phthalate	ND	10								
Carbazole	ND	10								
4-Chloro-3-methylphenol	ND	10								
4-Chloroaniline	ND	10								
2-Chloronaphthalene	ND	10								
2-Chlorophenol	ND	10								
4-Chlorophenyl phenyl ether	ND	10								
Chrysene	ND	10								
Di-n-butyl phthalate	ND	10								
Di-n-octyl phthalate	ND	10								
Dibenz(a,h)anthracene	ND	10								
Dibenzofuran	ND	10								
1,2-Dichlorobenzene	ND	10								
1,3-Dichlorobenzene	ND	10								
1,4-Dichlorobenzene	ND	10								
3,3'-Dichlorobenzidine	ND	10								
Diethyl phthalate	ND	10								
Dimethyl phthalate	ND	10								
2,4-Dichlorophenol	ND	20								
2,4-Dimethylphenol	ND	10								
4,6-Dinitro-2-methylphenol	ND	20								
2,4-Dinitrophenol	ND	20								
2,4-Dinitrotoluene	ND	10								
2,6-Dinitrotoluene	ND	10								

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
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- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **mb-2172**	SampType: **MBLK**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **PBW**	Batch ID: **2172**	RunNo: **3140**
Prep Date: **5/31/2012**	Analysis Date: **5/31/2012**	SeqNo: **86803** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Fluoranthene	ND	10								
Fluorene	ND	10								
Hexachlorobenzene	ND	10								
Hexachlorobutadiene	ND	10								
Hexachlorocyclopentadiene	ND	10								
Hexachloroethane	ND	10								
Indeno(1,2,3-cd)pyrene	ND	10								
Isophorone	ND	10								
1-Methylnaphthalene	ND	10								
2-Methylnaphthalene	ND	10								
2-Methylphenol	ND	10								
3+4-Methylphenol	ND	10								
N-Nitrosodi-n-propylamine	ND	10								
N-Nitrosodimethylamine	ND	10								
N-Nitrosodiphenylamine	ND	10								
Naphthalene	ND	10								
2-Nitroaniline	ND	10								
3-Nitroaniline	ND	10								
4-Nitroaniline	ND	20								
Nitrobenzene	ND	10								
2-Nitrophenol	ND	10								
4-Nitrophenol	ND	10								
Pentachlorophenol	ND	20								
Phenanthrene	ND	10								
Phenol	ND	10								
Pyrene	ND	10								
Pyridine	ND	10								
1,2,4-Trichlorobenzene	ND	10								
2,4,5-Trichlorophenol	ND	10								
2,4,6-Trichlorophenol	ND	10								
Surr: 2,4,6-Tribromophenol	150		200.0		75.2	44.2	126			
Surr: 2-Fluorobiphenyl	69		100.0		69.0	37	114			
Surr: 2-Fluorophenol	110		200.0		53.1	23.4	98			
Surr: 4-Terphenyl-d14	76		100.0		75.7	41.3	116			
Surr: Nitrobenzene-d5	74		100.0		73.9	39.5	118			
Surr: Phenol-d5	83		200.0		41.6	20.9	95.9			

Qualifiers:

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QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **lcs-2172**	SampType: **LCS**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSW**	Batch ID: **2172**	RunNo: **3140**
Prep Date: **5/31/2012**	Analysis Date: **5/31/2012**	SeqNo: **86804** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	77	10	100.0	0	76.7	38.2	99.4			
4-Chloro-3-methylphenol	170	10	200.0	0	82.6	35.5	108			
2-Chlorophenol	160	10	200.0	0	81.3	29.8	106			
1,4-Dichlorobenzene	73	10	100.0	0	73.1	32.6	91.5			
2,4-Dinitrotoluene	87	10	100.0	0	87.5	44.7	112			
N-Nitrosodi-n-propylamine	90	10	100.0	0	90.1	38.5	105			
4-Nitrophenol	93	10	200.0	0	46.4	11.6	73.1			
Pentachlorophenol	150	20	200.0	0	75.2	20.2	93			
Phenol	94	10	200.0	0	46.8	23	66.1			
Pyrene	79	10	100.0	0	78.6	40.1	101			
1,2,4-Trichlorobenzene	81	10	100.0	0	80.6	37.7	99.1			
Surr: 2,4,6-Tribromophenol	200		200.0		99.1	44.2	126			
Surr: 2-Fluorobiphenyl	81		100.0		80.9	37	114			
Surr: 2-Fluorophenol	120		200.0		61.8	23.4	98			
Surr: 4-Terphenyl-d14	86		100.0		85.7	41.3	116			
Surr: Nitrobenzene-d5	88		100.0		88.5	39.5	118			
Surr: Phenol-d5	94		200.0		47.1	20.9	95.9			

Sample ID **lcsd-2172**	SampType: **LCSD**	TestCode: **EPA Method 8270C: Semivolatiles**
Client ID: **LCSS02**	Batch ID: **2172**	RunNo: **3140**
Prep Date: **5/31/2012**	Analysis Date: **6/1/2012**	SeqNo: **86806** Units: **µg/L**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Acenaphthene	79	10	100.0	0	79.5	38.2	99.4	3.61	20	
4-Chloro-3-methylphenol	160	10	200.0	0	80.4	35.5	108	2.77	20	
2-Chlorophenol	160	10	200.0	0	81.0	29.8	106	0.333	20	
1,4-Dichlorobenzene	78	10	100.0	0	77.7	32.6	91.5	6.13	20	
2,4-Dinitrotoluene	92	10	100.0	0	91.6	44.7	112	4.67	20	
N-Nitrosodi-n-propylamine	94	10	100.0	0	94.2	38.5	105	4.45	20	
4-Nitrophenol	93	10	200.0	0	46.7	11.6	73.1	0.752	20	
Pentachlorophenol	150	20	200.0	0	75.7	20.2	93	0.742	20	
Phenol	96	10	200.0	0	48.0	23	66.1	2.58	20	
Pyrene	82	10	100.0	0	82.5	40.1	101	4.84	20	
1,2,4-Trichlorobenzene	90	10	100.0	0	89.7	37.7	99.1	10.7	20	
Surr: 2,4,6-Tribromophenol	190		200.0		95.7	44.2	126	0	0	
Surr: 2-Fluorobiphenyl	79		100.0		78.9	37	114	0	0	
Surr: 2-Fluorophenol	110		200.0		55.0	23.4	98	0	0	
Surr: 4-Terphenyl-d14	86		100.0		85.9	41.3	116	0	0	
Surr: Nitrobenzene-d5	82		100.0		81.7	39.5	118	0	0	
Surr: Phenol-d5	84		200.0		42.2	20.9	95.9	0	0	

Qualifiers:

- */X Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- R RPD 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
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **1410uS eC icv**	SampType: **icv**	TestCode: **EPA 120.1: Specific Conductance**
Client ID: **ICV**	Batch ID: **R3136**	RunNo: **3136**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86718** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	1400	0.010	1410	0	97.8	90	110			

Sample ID **1205B66-002C dup**	SampType: **dup**	TestCode: **EPA 120.1: Specific Conductance**
Client ID: **EP-1**	Batch ID: **R3136**	RunNo: **3136**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86722** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	8700	0.010						0.217	20	

Sample ID **1205B66-012C DUP**	SampType: **dup**	TestCode: **EPA 120.1: Specific Conductance**
Client ID: **EP-6**	Batch ID: **R3136**	RunNo: **3136**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86747** Units: **µmhos/cm**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Conductivity	27000	0.50						0.409	20	

Qualifiers:

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- B Analyte detected in the associated Method Blank
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- ND Not Detected at the Reporting Limit
- RL Reporting Detection Limit

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: **1205B66**

27-Jun-12

Client: Western Refining Southwest, Gallup

Project: 2012 SEMI ANNUAL PONDS

Sample ID **7.00 pH icv**	SampType: **icv**	TestCode: **SM4500-H+B: pH**
Client ID: **ICV**	Batch ID: **R3136**	RunNo: **3136**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86687** Units: **pH units**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.01	1.68								

Sample ID **1205B66-002C dup**	SampType: **dup**	TestCode: **SM4500-H+B: pH**
Client ID: **EP-1**	Batch ID: **R3136**	RunNo: **3136**
Prep Date:	Analysis Date: **5/31/2012**	SeqNo: **86702** Units: **pH units**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
pH	7.74	1.68								H

Qualifiers:

*/X	Value exceeds Maximum Contaminant Level.	B	Analyte detected in the associated Method Blank
E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below quantitation limits	ND	Not Detected at the Reporting Limit
R	RPD outside accepted recovery limits	RL	Reporting Detection Limit

HALL ENVIRONMENTAL ANALYSIS LABORATORY

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

Sample Log-In Check List

Client Name: Western Refining Gallup Work Order Number: 1205B66

Received by/date: JB 05/30/12 1300

Logged By: **Anne Thorne** 5/30/2012 1:00:00 PM Anne Thorne

Completed By: **Anne Thorne** 5/30/2012 Anne Thorne

Reviewed By: JB 05/30/12

Chain of Custody

1. Were seals intact? Yes ☑ No ☐ Not Present ☐
2. Is Chain of Custody complete? Yes ☑ No ☐ Not Present ☐
3. How was the sample delivered? Client

Log In

4. Coolers are present? (see 19. for cooler specific information) Yes ☑ No ☐ NA ☐
5. Was an attempt made to cool the samples? Yes ☑ No ☐ NA ☐
6. Were all samples received at a temperature of >0° C to 6.0°C Yes ☑ No ☐ NA ☐
7. Sample(s) in proper container(s)? Yes ☑ No ☐
8. Sufficient sample volume for indicated test(s)? Yes ☑ No ☐
9. Are samples (except VOA and ONG) properly preserved? Yes ☑ No ☐
10. Was preservative added to bottles? Yes ☐ No ☑ NA ☐
11. VOA vials have zero headspace? Yes ☑ No ☐ No VOA Vials ☐
12. Were any sample containers received broken? Yes ☐ No ☑
13. Does paperwork match bottle labels? (Note discrepancies on chain of custody) Yes ☑ No ☐
14. Are matrices correctly identified on Chain of Custody? Yes ☑ No ☐
15. Is it clear what analyses were requested? Yes ☑ No ☐
16. Were all holding times able to be met? (If no, notify customer for authorization.) Yes ☑ No ☐

# of preserved bottles checked for pH: 30 (<2 or >12 unless noted)
Adjusted? ____
Checked by: ____

Special Handling (if applicable)

17. Was client notified of all discrepancies with this order? Yes ☐ No ☐ NA ☑

Person Notified: ____ Date ____
By Whom: ____ Via: ☐ eMail ☐ Phone ☐ Fax ☐ In Person
Regarding: ____
Client Instructions: ____

18. Additional remarks:

19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
4	1.0	Good	Not Present			

Chain-of-Custody Record

Client: Western Refining Company

GALLUP REFINERY

Mailing Address:

RT 3 BOX 7, GALLUP, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-863-0930

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

2012 SEMI-ANNUAL - PONDS

Project #:

EP-1 THRU 12B

Project Manager:

C. JOHNSON (cheryl.johnson@wnr.com)

Sampler: C. JOHNSON

On Ice: ☒ Yes ☐ No

Sample Temperature: 2.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

4901 Hawkins NE - Albuquerque, NM 87109

Tel. 505-345-3975 Fax 505-345-4107

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No 1205B66	8260+MTBE	8270	WQCC METALS - TOTAL	WQCC METALS - DISS (FILTERED	GEN CHEM (pH, Spec Cond, Cations/Anions)	COD	Air Bubbles (Y or N)
5/29/2012	1045	H20	EP-2			-001	X	X	X	X	X	X	
5/29/2012	1110	H20	EP-1			-002	X	X	X	X	X	X	
5/29/2012	1135	H20	EP-12B			-003	X	X	X	X	X	X	
5/29/2012	1155	H20	EP-12A			-004	X	X	X	X	X	X	
5/29/2012	1210	H20	EP-11			-005	X	X	X	X	X	X	
5/29/2012	1225	H20	EP-7			-006	X	X	X	X	X	X	
5/29/2012	1240	H20	EP-8			-007	X	X	X	X	X	X	
5/29/2012	1300	H20	EP-5			-008	X	X	X	X	X	X	
5/29/2012	1315	H20	EP-4			-009	X	X	X	X	X	X	
5/29/2012	1330	H20	EP-3			-010	X	X	X	X	X	X	
5/29/2012	1355	H20	EP-9			-011	X	X	X	X	X	X	
5/29/2012	1415	H20	EP-6			-012	X	X	X	X	X	X	

Analysis Request

Date:	Time:	Relinquished by:	Received by:	Date	Time
5/30/12	1300			05/30/12	1340
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks: WQCC Metals to include RCRA 8 Metals

If necessary, samples submitted to Hall Environmental may be subcontracted to other accredited laboratories. This serves as notice of this possibility. Any sub-contracted data will be clearly notated on the analytical report.

Chain-of-Custody Record

Client: Western Refining Company

GALLUP REFINERY

Mailing Address:

RT 3 BOX 7, GALLUP, NM 87301

Phone #: 505-722-3833

email or Fax#: 505-863-0930

QA/QC Package:

☒ Standard ☐ Level 4 (Full Validation)

Accreditation:

☐ NELAP ☐ Other

☐ EDD (Type)

Turn-Around Time:

☒ Standard ☐ Rush

Project Name:

2012 SEMI-ANNUAL - PONDS

Project #:

EP-1 THRU 12B

Project Manager:

C. JOHNSON (cheryl.johnson@wnr.com)

Sampler: C. JOHNSON

On Ice: ☒ Yes ☐ No

Sample Temperature: 1.0°C

HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com

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Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No. 1205B166	8260+MTBE		MAJOR CATIONS/ANIONS													Air Bubbles (Y or N)
5/29/2012	1100	H20	BW TO EP-2			-013			X													
5/29/2012	0930	H20	FIELD BLANK			-014	X															
5/29/2012		H20	TRIP BLANK			-015	X															

Date	Time	Relinquished by:	Received by:	Date	Time
5/30/12	1300			05/31/12	0800
Date:	Time:	Relinquished by:	Received by:	Date	Time

Remarks:

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