

11/20/2012

Western Gallup Refinery
2012



SPILL SUMMARY REPORT – 2012

from 2012 GW Monitoring Report

- 4/12/12 An estimated 17 barrels of oily waste water overflowed at the NAPIS due to mechanical malfunction. The flapper in the check valve came loose causing the benzene pump to fail causing the waste water to overflow. A vacuum truck was dispatched to vacuum up standing water and a portable pump was installed to also pump out water into the sewer system. All water was removed and remediation procedures started on the contaminated soil. Spill was reported to appropriate agencies and Form C-141 was filed.
- 8/10/12 In the NHT unit, a pump (H-P3D) seal malfunctioned discharging naphtha which caused a small fire to ignite. Western's Emergency Response Team was dispatched to extinguish the fire. It is estimated that 10 barrels of naphtha was consumed in the fire and contained on a concrete slab which drains into the waste water sewer system. Spill and fire was reported to appropriate agencies and Form C-141 was also filed.
- 8/16/12 At the API area, the flare tip ignited due to a high level in the hydrocarbon blowdown drum located in the operation unit and also a high level in the hydrocarbon knockout drum located at the API area. Approximately 6 to 12 barrels of liquid hydrocarbon was consumed in the fire. Western's Emergency Response Team was dispatched to extinguish the fire. Fire and spill was reported to appropriate agencies and Form C-141 was filed.
- 9/12/12 In the SATS unit approximately 6 to 7 barrels of diluted liquid KOH was sprayed onto the ground and equipment when the hose used to depressure the tower malfunctioned. The hose was draining into a sewer cup when the hose malfunctioned, spraying KOH liquid into the concrete containment and onto the ground creating a vapor cloud. Some personnel were exposed to the vapor cloud and were immediately dispatched to the local hospital. Area affected was sprayed down with water and drained into the sewer system. The remaining liquid KOH was removed via vacuum truck and soil was removed. Spill and release was reported to appropriate agencies and Form C-141 was filed.
- 9/23/12 At the API area, the benzene strippers overflowed through the fans and vent stack. Approximately 80 barrels of liquid is estimated to have been released to the containment area as well as to the ground surface. Standing water was vacuumed up and soil samples collected. Area was cleaned up. Appropriate agencies were notified and a Follow up to the Final C-141 report was filed.
- 11/10/12 Evaporation Pond 1 overflowed on the northwest corner into evaporation pond 2. Approximately 40 barrels of pond water is estimated to have overflowed from pond 1. Form C-141 was filed and appropriate agencies notified.

Attached are copies of all the Form C-141 filed for 2012.

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
20 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-141
Revised October 10, 2003
Submit 2 Copies to appropriate
District Office in accordance
with Rule 116 on back
side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Western Refining	Contact: Beck Larsen
Address I-40 / Exit 39, Jamestown, NM 87347	Telephone No: (505) 722-0258
Facility Name: Western Refining (Gallup)	Facility Type: Petroleum Refinery

Surface Owner:	Mineral Owner:	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section 28	Township 15 N	Range 15 W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
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Latitude 35° 29' 022" Longitude 108° 24' 024"

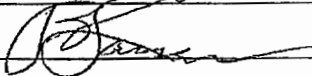
NATURE OF RELEASE

Type of Release API Wastewater	Volume of Release ~17 bbls (est 715 gal) (oily water w/slight sheen)	Volume Recovered ~17 bbls (est 715 gal) (oily wastewaterw/ slight sheen)
Source of Release: API Overflow	Date and Hour of Occurrence 4/12/2012; 1330 hrs (1:30 PM)	Date and Hour of Discovery 10/02/2011; 1540 hrs (3:40 PM)
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Ruth Horowitz, NMED HWB (Msg @ 4/13/2012, 12:25 hrs) Kristen Van Horn, NMED HWB (Msg @4/13/2012, 12:28 hrs) Brandon Powell, NMED HWB (telephone @4/13/2012, 12:34 hrs) Carl J Chavez, OCD (Msg @4/13/2012, 12:38 hrs)	
Whom? Beck Larsen	Date and Hour NMED (HWB, (Msgs 4/13/2012 @ 1225; 1228 hrs) OCD (telephone 4/13/2012 @ 12:34 hrs; Msg 4/13/2012 @ 12:28 hrs)	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.* N/A
Describe Cause of Problem and Remedial Action Taken.* At the time, the new API was operating properly with no issues. At 1:30PM on 4/12/2012, the flapper came off the check valve causing the benzene pump to fail. The pump failure cause the API to back up where the flow out of the API (Q~0 gpm) was much less that the flow in (Qmax=500 gpm). API Wastewater overflowed from the API spouts on each bay onto the ground.

Describe Area Affected and Cleanup Action Taken.* Immediately after the flapper came off of the check valve causing the benzene pump to fail causing the API to overflow, a second pump was put online. It was estimated that about 17 bbls of oily wastewater overflowed from the new API area to the ground to several depression areas near the API. The onsite vacuum truck was immediately dispatched to cleanup the oily wastewater. All wastewater was removed by about 17:00 hrs (4/12/2012). The wastewater only had an oily sheen with no measurable quantity on oil in the wastewater. Remediation is in progress near the new API and affected areas in order to cleanup the contaminate soil.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCDC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCDC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCDC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Beck Larsen	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Thurman.larsen@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 4/16/2012	Phone: (505) 722-0258	

* Attach Additional Sheets If Necessary

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1625 N. French Dr., Hobbs, NM 88240
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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Western Refining	Contact: Ed Riege	
Address: I-40 / Exit 39, Jamestown, NM 87347	Telephone No.: (505) 722-0217	
Facility Name: Western Refining (Gallup)	Facility Type: Petroleum Refinery	
Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section 28	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
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Latitude 35°29'22" Longitude 108°24'24"

NATURE OF RELEASE

Type of Release Naphtha (consumed in fire)	Volume of Release ~ 10 bbls	Volume Recovered N/A
Source of Release NHT Reboiler Circulating Pump (H-P3D)	Date and Hour of Occurrence 8/10/2012 @ 2010 hrs	Date and Hour of Discovery 8/10/2012 @ 2010 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD- Carl Chavez	
By Whom? Ed Riege within 24 hours of fire	Date and Hour 08/11/12; 1724 hrs	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N
Describe Cause of Problem and Remedial Action Taken.* A seal blew out on the west NHT Reboiler Circulating Pump (H-P3D) discharging naphtha from pump casing causing a small fire to ignite. Western Emergency Response Team (ERT) was dispatched to the scene to extinguish fire. Fire water was used to extinguish all flames. It was estimated that approximately 10 bbls of Naphtha was consumed in the fire. Any fire water or naphtha was collected on a concrete slab that drains to the Wastewater Treatment System.

Describe Area Affected and Cleanup Action Taken.* Any contaminants (Naphtha and fire water) were collected and contained in the NHT area via a concrete containment. All contaminants were drained from the containment area are via a sump draining to the Wastewater Treatment System.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:	Approved by District Supervisor:		
Printed Name: Ed Riege			
Title: Environmental Manager	Approval Date:	Expiration Date:	
E-mail Address: ed.riege@wnr.com	Conditions of Approval:		Attached <input type="checkbox"/>
Date: 8/13/2012	Phone: (505) 722-0217		

Attach Additional Sheets If Necessary

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1625 N. French Dr., Hobbs, NM 88240
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Revised October 10, 2003

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Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Western Refining	Contact: Ed Riege
Address: I-40 / Exit 39, Jamestown, NM 87347	Telephone No.: (505) 722-0217
Facility Name: Western Refining (Gallup)	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	Lease No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	15N	15W					McKinley

Latitude 35°29'22" Longitude 108°24'24"

NATURE OF RELEASE

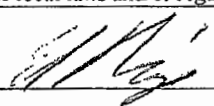
Type of Release Naphtha (consumed in fire)	Volume of Release 6-12 bbls (est liquid volume consumed in fire)	Volume Recovered N/A
Source of Release Hydrocarbon Blowdown Tank/Flare Fire	Date and Hour of Occurrence 8/16/2012 @ 1023hrs	Date and Hour of Discovery 8/16/2012 @ 1038 hrs
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? OCD- Carl Chavez/Brandon Powell; NMED-Kathy Palmer (msg)	
By Whom? Beck Larsen within 1 hours of fire	Date and Hour 08/16/12; 1120 hrs; 1157	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

a Watercourse was Impacted, Describe Fully.*

N/A
Describe Cause of Problem and Remedial Action Taken.* Incident was due to a high level in the Hydrocarbon Blowdown drum (Operation) and to a high level in the Hydrocarbon Knockout drum at the flare (API Area). Liquid hydrocarbon came out of the flare tip and ignited. The on-site Fire Department and Emergency Response Team (ERT) was dispatched immediately.

Describe Area Affected and Cleanup Action Taken.* The on-site Fire Department used their Pumper Trucks to extinguish the flames.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Ed Riege	Approved by District Supervisor:	
Title: Environmental Manager	Approval Date:	Expiration Date:
E-mail Address: ed.riege@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 8/28/2012	Phone: (505) 722-0217	

* Attach Additional Sheets If Necessary

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1625 N. French Dr., Hobbs, NM 88240
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Oil Conservation Division
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Form C-141
Revised October 10, 2003

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side of form

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: Western Refining	Contact: Beck Larsen	
Address: I-40 / Exit 39, Jamestown, NM 87347	Telephone No.: (505) 722-0258	
Facility Name: Western Refining (Gallup)	Facility Type: Petroleum Refinery	
Surface Owner	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	15N	15W					McKinley

Latitude 35°29'22" Longitude 108°24'24"

NATURE OF RELEASE

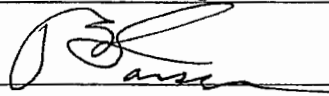
Type of Release Potassium Hydroxide (KOH) (20% Diluted Solution)	Volume of Release ~280 gal (~555 lbs KOH)(~6-7 bbls)	Volume Recovered Unknown
Source of Release Hose used for Washing KOH from KOH Tower	Date and Hour of Occurrence 9/12/2012 @ 1530 hrs	Date and Hour of Discovery 9/12/2012 @ 1530 hrs
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? N/A	
By Whom? N/A	Date and Hour N/A	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

* a Watercourse was Impacted, Describe Fully.*
A

Describe Cause of Problem and Remedial Action Taken.* Note that the KOH solution was in a diluted form of < 20% by weight (estimated). The incident occurred when a 1 inch hose that was being used to wash out the KOH Tower, blew out of the sewer cup due to an ice plug that formed at the end of the hose. The hose whipped around for a few seconds before the valve was shut off causing a small vapor cloud to be released in the Treater and Gas Con areas. The wind at the time was blowing from a north-north-east direction. There were several persons downwind of the vapor cloud that were exposed to fumes from the KOH vapors. The KOH spray was primarily on the concrete slab with some that came in contact with the ground.

Describe Area Affected and Cleanup Action Taken.* The KOH spray was primarily on the concrete slab; however, some KOH solution did get on the ground. It was estimated that an area of 5 ft by 10 ft section (50 sq ft) of soil was affected. The KOH that was on the slab was either removed via vacuum truck or washed to the process sewer. Samples were collected and submitted to an Environmental Laboratory for TCLP analysis. A Work Order has been written and contaminated soil has been removed for disposal at an approved disposal facility in accordance with all applicable regulations.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Beck Larsen	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: thurman.larsen@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 9/14/2012 Phone: (505) 722-0258		

* Attach Additional Sheets If Necessary

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 S. First St., Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

Follow Up to

OPERATOR

Initial Report Final Report

Name of Company: Western Refining Southwest	Contact: Cheryl Johnson
Address: I-40 Exit 39, Jamestown, NM 87347	Telephone No. (505) 722-3833
Facility Name: Gallup Refinery	Facility Type: Oil Refinery

Surface Owner: Western Refining	Mineral Owner: Western Refining	API No.
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LOCATION OF RELEASE

Unit Letter	Section 23 & 33	Township 15N	Range 15W	Feet from the	North/South Line	Feet from the	East/West Line	County McKinley
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Latitude: 35°29'22" Longitude 108°25'24"

NATURE OF RELEASE

Type of Release: Spill	Volume of Release: < 80 BBL	Volume Recovered: 4000 gals
Source of Release: Benzene Strippers (Z-84-V5 & Z-84-V4)	Date and Hour of Occurrence: 9-23-12, 0400 hours	Date and Hour of Discovery 9-23-12, 0400 hours
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> Not Required	If YES, To Whom? Carl Chavez, NMED OCD, District 3 Supervisor, Kristen Van Horn HWB	
By Whom? Cheryl Johnson and Ed Riege	Date and Hour: 9/23/12: 1330 hours	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.* Not Applicable

Describe Cause of Problem and Remedial Action Taken.* On 9-23-12 at approximately 0400 hours, the benzene strippers were discovered to be overflowing through the fans and out the vent stack. Due to increased flow and foaming issues, the benzene strippers backed up causing the overflow through the fans and the vent stack. The overflow went into the concrete pad and overflowed onto the ground on all four sides of the concrete containment berm and also a portion into aeration lagoon 1. Operator decreased flow to the benzene strippers and maintenance department was called out immediately to begin vacuum and clean up procedures.

Describe Area Affected and Cleanup Action Taken.*
On the northeast side of the benzene stripper pad, waste water overflowed out of the concrete containment berm onto the ground in an area estimated to be 10 x 30 feet section was saturated and had standing water. On the west side of the concrete containment berm, an area approximately 10 x 10 feet section was also saturated with water. On the south side of the concrete berm there was also a small puddle of water. On the north side of the concrete containment berm, waste water overflowed onto the ground and flowed into aeration lagoon 1 (amount unknown). All 5 aerators were on-line in both lagoons 1 and lagoon 2. Upon discovery of the overflow maintenance department was called immediately to begin vacuuming up the overflow via vacuum truck in all areas affected. A trash pump was also in service pumping out the containment area. As of 1230 hours, all the standing water had been vacuumed up by the vacuum truck. On 9-24-12 soil samples were collected from spill site and the contaminated soil will be excavated and disposed of in accordance with applicable rules and regulations.

11-28-12: Area affected was cleaned up around the benzene strippers. Approximately 25 cubic yards of stained soil was removed and placed in a roll-off for disposal offsite. A copy of the lab analysis and pictures of the clean up are also attached to this follow up report as Attachment A.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

OIL CONSERVATION DIVISION

Signature:	Approved by Environmental Specialist:		
Printed Name: Ed Riege	Approval Date:	Expiration Date:	
Job Title: Environmental Manager	Conditions of Approval:		
E-mail Address: ed.riege@wnr.com			Attached <input type="checkbox"/>
Date: 11-28-12	Phone: 505-722-0217		

* Attach Additional Sheets If Necessary

ATTACHMENT A



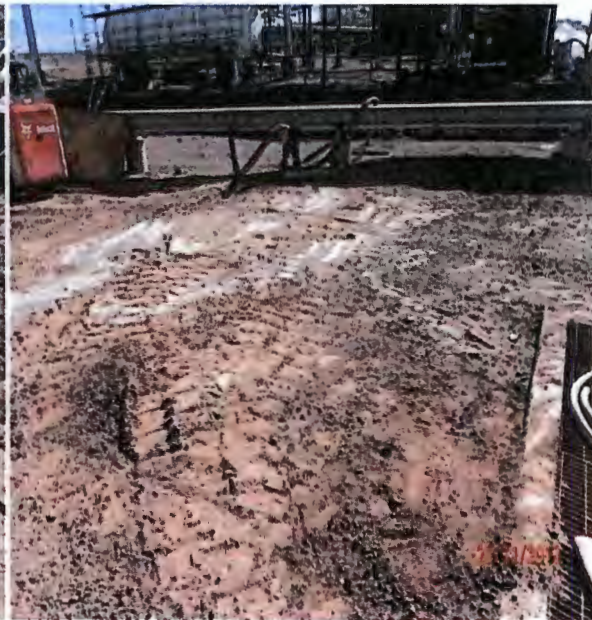
East side of the benzene strippers



North-east side of the benzene strippers



West side of the benzene strippers



East side of the benzene strippers



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

December 20, 2012

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

RE: BZ Strip Soil Confirmation

OrderNo.: 1212159

Dear Cheryl Johnson:

Hall Environmental Analysis Laboratory received 1 sample(s) on 12/3/2012 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,

A handwritten signature in black ink, appearing to read 'Andy Freeman', is written over a horizontal line.

Andy Freeman
Laboratory Manager
4901 Hawkins NE
Albuquerque, NM 87109

Analytical Report

Lab Order 1212159

Date Reported: 12/20/2012

Hall Environmental Analysis Laboratory, Inc.

CLIENT: Western Refining Southwest, Gallup

Client Sample ID: BZ Strip-Soil Confirmation

Project: BZ Strip Soil Confirmation

Collection Date: 11/30/2012 12:50:00 PM

Lab ID: 1212159-001

Matrix: SOIL

Received Date: 12/3/2012 1:20:00 PM

Analyses	Result	RL	Qual	Units	DF	Date Analyzed
EPA METHOD 8015B: DIESEL RANGE ORGANICS						Analyst: MMD
Diesel Range Organics (DRO)	830	200		mg/Kg	20	12/6/2012 11:40:03 AM
Surr: DNOP	0	72.4-120	S	%REC	20	12/6/2012 11:40:03 AM
EPA METHOD 8015B: GASOLINE RANGE						Analyst: NSB
Gasoline Range Organics (GRO)	ND	4.8		mg/Kg	1	12/6/2012 1:48:10 PM
Surr: BFB	94.0	84-116		%REC	1	12/6/2012 1:48:10 PM
EPA METHOD 8021B: VOLATILES						Analyst: NSB
Benzene	ND	0.048		mg/Kg	1	12/6/2012 1:48:10 PM
Toluene	ND	0.048		mg/Kg	1	12/6/2012 1:48:10 PM
Ethylbenzene	ND	0.048		mg/Kg	1	12/6/2012 1:48:10 PM
Xylenes, Total	ND	0.095		mg/Kg	1	12/6/2012 1:48:10 PM
Surr: 4-Bromofluorobenzene	95.4	80-120		%REC	1	12/6/2012 1:48:10 PM
MERCURY, TCLP						Analyst: TMG
Mercury	ND	0.020		mg/L	1	12/13/2012 3:39:35 PM
EPA METHOD 6010B: TCLP METALS						Analyst: ELS
Arsenic	ND	5.0		mg/L	1	12/10/2012 10:19:34 AM
Barium	ND	100		mg/L	1	12/10/2012 10:19:34 AM
Cadmium	ND	1.0		mg/L	1	12/10/2012 10:19:34 AM
Chromium	ND	5.0		mg/L	1	12/10/2012 10:19:34 AM
Lead	ND	5.0		mg/L	1	12/10/2012 10:19:34 AM
Selenium	ND	1.0		mg/L	1	12/10/2012 10:19:34 AM
Silver	ND	5.0		mg/L	1	12/10/2012 10:19:34 AM
VOLATILES BY 8260B/1311						Analyst: RAA
Benzene	ND	0.50		mg/L	1	12/14/2012 5:48:57 AM
2-Butanone	ND	10		mg/L	1	12/14/2012 5:48:57 AM
Carbon Tetrachloride	ND	0.50		mg/L	1	12/14/2012 5:48:57 AM
Chlorobenzene	ND	100		mg/L	1	12/14/2012 5:48:57 AM
Chloroform	ND	6.0		mg/L	1	12/14/2012 5:48:57 AM
1,4-Dichlorobenzene	ND	7.5		mg/L	1	12/14/2012 5:48:57 AM
1,2-Dichloroethane (EDC)	ND	0.50		mg/L	1	12/14/2012 5:48:57 AM
1,1-Dichloroethene	ND	0.70		mg/L	1	12/14/2012 5:48:57 AM
Hexachlorobutadiene	ND	0.50		mg/L	1	12/14/2012 5:48:57 AM
Tetrachloroethene (PCE)	ND	0.70		mg/L	1	12/14/2012 5:48:57 AM
Trichloroethene (TCE)	ND	0.50		mg/L	1	12/14/2012 5:48:57 AM
Vinyl chloride	ND	0.20		mg/L	1	12/14/2012 5:48:57 AM
Surr: 1,2-Dichloroethane-d4	89.4	69.9-130		%REC	1	12/14/2012 5:48:57 AM
Surr: 4-Bromofluorobenzene	102	71.2-123		%REC	1	12/14/2012 5:48:57 AM
Surr: Dibromofluoromethane	85.9	73.9-134		%REC	1	12/14/2012 5:48:57 AM
Surr: Toluene-d8	96.0	81.9-122		%REC	1	12/14/2012 5:48:57 AM

Qualifiers:

- * Value exceeds Maximum Contaminant Level.
- E Value above quantitation range
- J Analyte detected below quantitation limits
- P Sample pH greater than 2
- RL Reporting Detection Limit

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

Anatek Labs, Inc.

1282 Alturas Drive • Moscow, ID 83843 • (208) 883-2839 • Fax (208) 882-9246 • email moscow@anateklabs.com
504 E Sprague Ste. D • Spokane WA 99202 • (509) 838-3999 • Fax (509) 838-4433 • email spokane@anateklabs.com

Client: HALL ENVIRONMENTAL ANALYSIS LAB **Batch #:** 121206040
Address: 4901 HAWKINS NE SUITE D **Project Name:** 1212159
ALBUQUERQUE, NM 87109
Attn: ANDY FREEMAN

Analytical Results Report

Sample Number 121206040-001 **Sampling Date** 11/30/2012 **Date/Time Received** 12/6/2012 10:45 AM
Client Sample ID 1212159-001C / BZ STRIP-SOIL CONFIRMATION **Sampling Time** 12:50 PM
Matrix Soil
Comments

Parameter	Result	Units	PQL	Analysis Date	Analyst	Method	Qualifier
Cyanide (reactive)	0.378	mg/Kg	0.3	12/12/2012	CRW	SW846 CH7	
Ignitability	Negative			12/7/2012	JWC	EPA 1030	
pH	8.19	ph Units		12/7/2012	ETL	EPA 9045	
Reactive sulfide	75.3	mg/kg	27	12/13/2012	JTT	SW846 CH7	
%moisture	8.5	Percent		12/12/2012	CRW	%moisture	

Authorized Signature



John Coddington, Lab Manager

MCL EPA's Maximum Contaminant Level
ND Not Detected
PQL Practical Quantitation Limit

This report shall not be reproduced except in full, without the written approval of the laboratory.
The results reported relate only to the samples indicated.
Soil/solid results are reported on a dry-weight basis unless otherwise noted.

Certifications held by Anatek Labs ID: EPA:ID00013; AZ:0701; CO:ID00013; FL(NELAP):E87893; ID:ID00013; IN:C-4D-01; KY:90142; MT: CERT0028; NM: ID00013; OR: ID200001-002; WA: C595
Certifications held by Anatek Labs WA: EPA-WA00169; ID: WA00169; WA: C586; MT: Cert0095

Monday, December 17, 2012

Page 1 of 1

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID MB-5122	SampType: MBLK		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: PBS	Batch ID: 5122		RunNo: 7319							
Prep Date: 12/5/2012	Analysis Date: 12/6/2012		SeqNo: 212356		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	ND	10								
Surr: DNOP	9.8		10.00		98.0	72.4	120			

Sample ID LCS-5122	SampType: LCS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: LCSS	Batch ID: 5122		RunNo: 7319							
Prep Date: 12/5/2012	Analysis Date: 12/6/2012		SeqNo: 212357		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	47	10	50.00	0	94.2	47.4	122			
Surr: DNOP	4.2		5.000		84.5	72.4	120			

Sample ID 1212091-001AMS	SampType: MS		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 5122		RunNo: 7319							
Prep Date: 12/5/2012	Analysis Date: 12/6/2012		SeqNo: 212656		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	790	10	51.98	567.8	424	12.6	148			S
Surr: DNOP	6.1		5.198		117	72.4	120			

Sample ID 1212091-001AMSD	SampType: MSD		TestCode: EPA Method 8015B: Diesel Range Organics							
Client ID: BatchQC	Batch ID: 5122		RunNo: 7319							
Prep Date: 12/5/2012	Analysis Date: 12/6/2012		SeqNo: 212678		Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Diesel Range Organics (DRO)	900	9.9	49.60	567.8	663	12.6	148	12.9	22.5	S
Surr: DNOP	7.0		4.960		141	72.4	120	0	0	S

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID	MB-5125	SampType:	MBLK	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	PBS	Batch ID:	5125	RunNo:	7329					
Prep Date:	12/5/2012	Analysis Date:	12/6/2012	SeqNo:	213035	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	ND	5.0								
Surr: BFB	910		1000		90.7	84	116			

Sample ID	LCS-5125	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5125	RunNo:	7329					
Prep Date:	12/5/2012	Analysis Date:	12/6/2012	SeqNo:	213036	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	88.2	74	117			
Surr: BFB	930		1000		92.5	84	116			

Sample ID	1212182-003AMS	SampType:	MS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	5125	RunNo:	7329					
Prep Date:	12/5/2012	Analysis Date:	12/6/2012	SeqNo:	213071	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	21	4.8	24.08	0	88.5	70	130			
Surr: BFB	920		963.4		95.3	84	116			

Sample ID	1212182-003AMSD	SampType:	MSD	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	BatchQC	Batch ID:	5125	RunNo:	7329					
Prep Date:	12/5/2012	Analysis Date:	12/6/2012	SeqNo:	213077	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	20	4.8	24.25	0	83.0	70	130	5.67	22.1	
Surr: BFB	890		969.9		91.4	84	116	0	0	

Sample ID	LCS-5125	SampType:	LCS	TestCode:	EPA Method 8015B: Gasoline Range					
Client ID:	LCSS	Batch ID:	5125	RunNo:	7362					
Prep Date:	12/5/2012	Analysis Date:	12/7/2012	SeqNo:	214058	Units:	mg/Kg			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics (GRO)	22	5.0	25.00	0	86.7	74	117			
Surr: BFB	930		1000		92.7	84	116			

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID MB-5125	SampType: MBLK	TestCode: EPA Method 8021B: Volatiles								
Client ID: PBS	Batch ID: 5125	RunNo: 7329								
Prep Date: 12/5/2012	Analysis Date: 12/6/2012	SeqNo: 213118			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.050								
Toluene	ND	0.050								
Ethylbenzene	ND	0.050								
Xylenes, Total	ND	0.10								
Surr: 4-Bromofluorobenzene	0.97		1.000		97.0	80	120			

Sample ID LCS-5125	SampType: LCS	TestCode: EPA Method 8021B: Volatiles								
Client ID: LCSS	Batch ID: 5125	RunNo: 7329								
Prep Date: 12/5/2012	Analysis Date: 12/6/2012	SeqNo: 213119			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.99	0.050	1.000	0	98.6	76.3	117			
Toluene	0.99	0.050	1.000	0	99.0	80	120			
Ethylbenzene	1.0	0.050	1.000	0	101	77	116			
Xylenes, Total	3.0	0.10	3.000	0	100	76.7	117			
Surr: 4-Bromofluorobenzene	1.0		1.000		101	80	120			

Sample ID 1212159-001AMS	SampType: MS	TestCode: EPA Method 8021B: Volatiles								
Client ID: BZ Strip-Soil Confir	Batch ID: 5125	RunNo: 7329								
Prep Date: 12/5/2012	Analysis Date: 12/6/2012	SeqNo: 213123			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.049	0.9709	0	104	67.2	113			
Toluene	1.0	0.049	0.9709	0	105	62.1	116			
Ethylbenzene	1.0	0.049	0.9709	0.004829	107	67.9	127			
Xylenes, Total	3.1	0.097	2.913	0	107	60.6	134			
Surr: 4-Bromofluorobenzene	0.95		0.9709		97.6	80	120			

Sample ID 1212159-001AMSD	SampType: MSD	TestCode: EPA Method 8021B: Volatiles								
Client ID: BZ Strip-Soil Confir	Batch ID: 5125	RunNo: 7329								
Prep Date: 12/5/2012	Analysis Date: 12/6/2012	SeqNo: 213124			Units: mg/Kg					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	1.0	0.048	0.9699	0	103	67.2	113	1.58	14.3	
Toluene	1.0	0.048	0.9699	0	105	62.1	116	0.511	15.9	
Ethylbenzene	1.0	0.048	0.9699	0.004829	106	67.9	127	0.756	14.4	
Xylenes, Total	3.1	0.097	2.910	0	106	60.6	134	0.915	12.6	
Surr: 4-Bromofluorobenzene	0.97		0.9699		99.6	80	120	0	0	

Qualifiers:

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

QC SUMMARY REPORT

WO#: 1212159

Hall Environmental Analysis Laboratory, Inc.

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID	mb-5145		SampType: MBLK	TestCode: Volatiles by 8260B/1311						
Client ID:	PBS		Batch ID: 5145	RunNo: 7501						
Prep Date:	12/6/2012		Analysis Date: 12/14/2012	SeqNo: 217709	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.50								
2-Butanone	ND	10								
Carbon Tetrachloride	ND	0.50								
Chlorobenzene	ND	100								
Chloroform	ND	6.0								
1,4-Dichlorobenzene	ND	7.5								
1,2-Dichloroethane (EDC)	ND	0.50								
1,1-Dichloroethene	ND	0.70								
Hexachlorobutadiene	ND	0.50								
Tetrachloroethene (PCE)	ND	0.70								
Trichloroethene (TCE)	ND	0.50								
Vinyl chloride	ND	0.20								
Surr: 1,2-Dichloroethane-d4	0.18		0.2000		89.9	69.9	130			
Surr: 4-Bromofluorobenzene	0.20		0.2000		100	71.2	123			
Surr: Dibromofluoromethane	0.17		0.2000		86.5	73.9	134			
Surr: Toluene-d8	0.20		0.2000		98.1	81.9	122			

Sample ID	ics-5145		SampType: LCS	TestCode: Volatiles by 8260B/1311						
Client ID:	LCSS		Batch ID: 5145	RunNo: 7501						
Prep Date:	12/6/2012		Analysis Date: 12/14/2012	SeqNo: 217710	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.41	0.30	0.4000	0	102	51.1	171			
Chlorobenzene	0.41	0.30	0.4000	0	104	36.1	191			
1,1-Dichloroethene	0.43	0.30	0.4000	0	107	49.1	162			
Trichloroethene (TCE)	0.33	0.30	0.4000	0	83.0	41.2	166			
Surr: 1,2-Dichloroethane-d4	0.18		0.2000		90.9	69.9	130			
Surr: 4-Bromofluorobenzene	0.21		0.2000		104	71.2	123			
Surr: Dibromofluoromethane	0.17		0.2000		83.2	73.9	134			
Surr: Toluene-d8	0.19		0.2000		96.0	81.9	122			

Sample ID	1212159-001ams		SampType: MS	TestCode: Volatiles by 8260B/1311						
Client ID:	BZ Strip-Soil Confir		Batch ID: 5145	RunNo: 7501						
Prep Date:	12/6/2012		Analysis Date: 12/14/2012	SeqNo: 217713	Units: mg/L					
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.40	0.30	0.4000	0	100	51.1	171			
Chlorobenzene	0.42	0.30	0.4000	0	105	36.1	191			
1,1-Dichloroethene	0.42	0.30	0.4000	0	106	49.1	162			
Trichloroethene (TCE)	0.34	0.30	0.4000	0	84.3	41.2	166			
Surr: 1,2-Dichloroethane-d4	0.18		0.2000		92.0	69.9	130			
Surr: 4-Bromofluorobenzene	0.20		0.2000		101	71.2	123			

Qualifiers:

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

QC SUMMARY REPORT
Hall Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID	1212159-001ams	SampType:	MS	TestCode:	Volatiles by 8260B/1311					
Client ID:	BZ Strip-Soil Confir	Batch ID:	5145	RunNo:	7501					
Prep Date:	12/6/2012	Analysis Date:	12/14/2012	SeqNo:	217713	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Surr: Dibromofluoromethane	0.18		0.2000		87.7	73.9	134			
Surr: Toluene-d8	0.19		0.2000		95.1	81.9	122			

Sample ID	1212159-001amsd	SampType:	MSD	TestCode:	Volatiles by 8260B/1311					
Client ID:	BZ Strip-Soil Confir	Batch ID:	5145	RunNo:	7501					
Prep Date:	12/6/2012	Analysis Date:	12/14/2012	SeqNo:	217714	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.40	0.30	0.4000	0	99.3	51.1	171	1.04	0	
Chlorobenzene	0.43	0.30	0.4000	0	107	36.1	191	2.30	0	
1,1-Dichloroethene	0.40	0.30	0.4000	0	100	49.1	162	4.88	0	
Trichloroethene (TCE)	0.32	0.30	0.4000	0	80.7	41.2	166	4.33	0	
Surr: 1,2-Dichloroethane-d4	0.19		0.2000		92.8	69.9	130	0	0	
Surr: 4-Bromofluorobenzene	0.21		0.2000		103	71.2	123	0	0	
Surr: Dibromofluoromethane	0.17		0.2000		84.9	73.9	134	0	0	
Surr: Toluene-d8	0.20		0.2000		98.6	81.9	122	0	0	

Qualifiers:

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

QC SUMMARY REPORT

Full Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID	MB-5169	SampType:	MBLK	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	PBW	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214402	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0								
Barium	ND	100								
Cadmium	ND	1.0								
Chromium	ND	5.0								
Lead	ND	5.0								
Selenium	ND	1.0								
Silver	ND	5.0								

Sample ID	LCS-5169	SampType:	LCS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	LCSW	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214404	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0	0.5000	0.02585	107	80	120			
Barium	ND	100	0.5000	0	100	80	120			
Cadmium	ND	1.0	0.5000	0	103	80	120			
Chromium	ND	5.0	0.5000	0	99.6	80	120			
Lead	ND	5.0	0.5000	0	99.0	80	120			
Selenium	ND	1.0	0.5000	0	101	80	120			
Silver	ND	5.0	0.1000	0.004430	102	80	120			

Sample ID	1212007-001AMS	SampType:	MS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214408	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0	0.5000	0	114	75	125			
Cadmium	ND	1.0	0.5000	0	103	75	125			
Chromium	ND	5.0	0.5000	0.005700	95.1	75	125			
Lead	ND	5.0	0.5000	0	92.2	75	125			
Selenium	ND	1.0	0.5000	0	84.2	75	125			
Silver	ND	5.0	0.1000	0	106	75	125			

Sample ID	1212007-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214409	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual

Arsenic	ND	5.0	0.5000	0	112	75	125	0	20	
Cadmium	ND	1.0	0.5000	0	102	75	125	0	20	
Chromium	ND	5.0	0.5000	0.005700	93.0	75	125	0	20	
Lead	ND	5.0	0.5000	0	90.9	75	125	0	20	

Qualifiers:

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

QC SUMMARY REPORT

Hall Environmental Analysis Laboratory, Inc.

WO#: 1212159

20-Dec-12

Client: Western Refining Southwest, Gallup

Project: BZ Strip Soil Confirmation

Sample ID	1212007-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214409	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Selenium	ND	1.0	0.5000	0	86.7	75	125	0	20	
Silver	ND	5.0	0.1000	0	105	75	125	0	20	

Sample ID	1212007-001AMS	SampType:	MS	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214427	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	500	0.5000	1.240	94.3	75	125			

Sample ID	1212007-001AMSD	SampType:	MSD	TestCode:	EPA Method 6010B: TCLP Metals					
Client ID:	BatchQC	Batch ID:	5169	RunNo:	7401					
Prep Date:	12/9/2012	Analysis Date:	12/10/2012	SeqNo:	214428	Units:	mg/L			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Barium	ND	500	0.5000	1.240	93.3	75	125	0	20	

Qualifiers:

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



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

Sample Log-In Check List

Client Name: **Western Refining Gallup** Work Order Number: **1212159**

Received by/date: *mg* **12/03/12**
 Logged By: **Ashley Gallegos** **12/3/2012 1:20:00 PM** *AG*

Completed By: **Ashley Gallegos** **12/4/2012 5:26:44 PM** *AG*

Reviewed By: *[Signature]* **12/05/12**

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 # of preserved bottles checked for pH:
- 14. Are matrices correctly identified on Chain of Custody? Yes No (<2 or >12 unless noted)
- 15. Is it clear what analyses were requested? Yes No Adjusted?
- 16. Were all holding times able to be met?
(If no, notify customer for authorization.) Yes No 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:

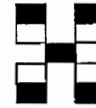
19. Cooler Information

Cooler No	Temp °C	Condition	Seal Intact	Seal No	Seal Date	Signed By
1	2.2	Good	Not Present			

Chain-of-Custody Record

Client: WESTERN REFINING
 GALLUP REFINERY
 Mailing Address: Route 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:
 BZ Strip Soil Confirmation
 Project #:
 Clean up - BZ Strip Soil - Confirmation
 Project Manager:
 Cheryl Johnson
 Cheryl.johnson@wnr.com
 Sampler: C. Johnson
 On Ice: Yes No _____
 Sample Temperature: 02



HALL ENVIRONMENTAL ANALYSIS LABORATORY

www.hallenvironmental.com
 4901 Hawkins NE - Albuquerque, NM 87109
 Tel. 505-345-3975 Fax 505-345-4107

Analysis Request

Date	Time	Matrix	Sample Request ID	Container Type and #	Preservative Type	HEAL No	TPH 8015B DRO/GRO	2021B (BTEX + MTBE)	8260B - TCLP	RCI	METALS RCRA 8 - TCLP											Air Bubbles (Y or N)							
11/30/2012	1250	Soil	Bz Strip-Soil Confirmation	5-4oz jar	None	1212159 -001	X	X	X	X	X																		

Date: 11/30/12 Time: 1400 Relinquished by: [Signature] Received by: [Signature] Date: 12/03/12 Time: 1320
 Date: Time: Relinquished by: Received by: Date: Time: Remarks:

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.

~~District I~~
1625 N. French Dr., Hobbs, NM 88240
~~District II~~
811 S. First St., Artesia, NM 88210
~~District III~~
1000 Rio Brazos Road, Aztec, NM 87410
~~District IV~~
0 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-141
Revised August 8, 2011

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit 1 Copy to appropriate District Office in
accordance with 19.15.29 NMAC.

Release Notification and Corrective Action

OPERATOR

Initial Report Final Report

Name of Company: WESTERN REFINING	Contact: Beck Larsen
Address: I-40 / EXIT 39, JAMESTOWN, NM 87347	Telephone No. (505) 722-0258
Facility Name: WESTERN RENINING (GALLUP REFINERY)	Facility Type: Petroleum Refinery

Surface Owner	Mineral Owner	API No.
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LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
	28	15 N	15 W					MCKINLEY

Latitude 35° 029' 024" Longitude 108° 024' 024"

NATURE OF RELEASE

Type of Release: Overflow of Evaporation Pond 1	Volume of Release: Approximately 40 bbls (water)	Volume Recovered: Approximately 5 bbls (water)
Source of Release: Evaporation Pond 1	Date and Hour of Occurrence 11/10/12 9 am	Date and Hour of Discovery 11/10/12 1:00 pm
Was Immediate Notice Given? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? NMED, OCD Brandon Christiansen- left message (866) 428-0535	
By Whom? Loretta Morgan	Date and Hour: 11/11/12 9:57 am	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse.	

Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*

On Saturday 11/10/12 at approximately 0 pm, Evaporation Pond 1 was found overflowing on the northwest corner to Evaporation Pond 2. Offsite Operations opened the transfer valve from Evaporation Pond 1 to Evaporation Pond 2 to 100%.

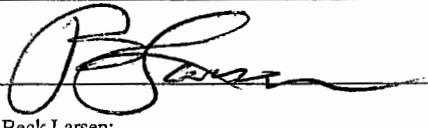
On Sunday 11/11/12 at approximately 3 am, Offsite found Evaporation Pond 1 had started to overflow again. Transfer hoses were installed to help keep water from overflowing the dikes. Maintenance was called out to build up the dike on Evaporation Pond 1.

It was determined that the transfer valve was partially plugged not allowing full flow from Evaporation Pond 1 to Evaporation Pond 1, hence, causing the overflow

Describe Area Affected and Cleanup Action Taken.*

Overflow from Evaporation Pond 1 flowed to evaporation Pond 2.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOC rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOC marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOC acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Beck Larsen	Approved by Environmental Specialist:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Thurman.larsen@wnr.com	Conditions of Approval:	Attached <input type="checkbox"/>
Date: 11/20/12	Phone: (505) 722-3833	

* Attach Additional Sheets If Necessary