GW-164

General Correspondence

YEAR(S): 2009 - 2013

Lowe, Leonard, EMNRD

From: Michelle Green [michelle@laenvironmental.com]
Sent: Monday, June 14, 2010 9:28 AM
To: Michelle Green; VonGonten, Glenn, EMNRD; Lowe, Leonard, EMNRD; Johnson, Larry, EMNRD
Cc: Schornick, Mike (WGESP); Baron, Sam (WGESP); Mark Larson
Subject: RE: Wood Group ESP Hobbs Test Facility, Sump Closure - GW-164

Good morning All,

The sump closure has been re-scheduled for Wednesday, June 16, 2010.

If you have any questions or require additional information please let me know.

Thank you,

Michelle Green

From: Michelle Green
Sent: Thursday, June 10, 2010 8:43 AM
To: Glenn VonGonten; 'Lowe, Leonard, EMNRD'; Larry Johnson-NM OCD
Cc: 'Schornick, Mike (WGESP)'; 'Baron, Sam (WGESP)'; Mark Larson
Subject: Wood Group ESP Hobbs Test Facility, Sump Closure - GW-164

Good morning All,

This sump closure notification is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Wood Group ESP, Inc. (WGESP).

WGESP Test Shop
GW-164
8426 North Dal Paso
Hobbs, NM

The Wash Bay and South Bays sumps will be closed on Friday, June 11, 2010 per approved closure plan.

Please contact Mike Schornick with WGESP at (405) 671-2145 or myself at (432) 678-0901 if you have questions or need additional information.

Thank you,

Michelle L. Green
Larson & Associates, Inc.
507 N Marienfeld, Suite 200
Midland, TX 79701

Office: 432.687.0901
Fax: 432.687.0789
Cell: 432.934.3231

Wood Group ESP Inc.

RECEIVED OCD

2010 JUN 24 A 11: 28

June 18, 2010

VIA EMAIL: Leonard.Lowe@state.nm.us

Mr. Leonard Lowe
Environmental Engineer
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 88505

RE: Sump Closure
Wood Group ESP, Inc., Hobbs Test Facility (GW-164)
8426 North Dal Paso, Hobbs, New Mexico 88240

Dear Mr. Lowe:

This letter report was prepared with the assistance of Larson and Associates, Inc. (LAI) on behalf of Wood Group ESP, Inc. (WGESP) and is submitted to the New Mexico Oil Conservation Division (OCD).

The report presents closure documentation for two sumps at the Hobbs Test Facility (GW-164) located in Unit D (NW/4, NW/4), Section 35, Township 17 South and Range 38 East, Lea County, New Mexico. The facility physical address is 8426 North Dal Paso, Hobbs, New Mexico. The geodetic location is north 32° 47' 51.0" and west 103° 7' 38.5". Figure 1 presents a location map.

Timeline of Events

August 27, 2009	OCD requested WGESP to conduct hydrostatic testing of the sumps to ensure integrity. The OCD also notified WGESP that the sumps will require upgrading to comply with its current rules (NMAC 19.15.17.11). The upgrade would require retrofitting the sumps, following the integrity demonstration, with fiberglass liners designed to allow monitoring of leakage in the space between the fiberglass liner and concrete containment.
September 4, 2009	Conference call with the OCD, WGESP expressed a desire to retrofit two sumps, located at the drain near the south side of the building and pump cleaning area inside the test building, and close the remaining three sumps. The OCD was in agreement with the proposal and WGESP requested a list of procedures from the OCD for demonstrating sump integrity
September 14, 2009	OCD provided procedures to WGESP for hydrostatic testing and verification of sump integrity
October 15, 2009	*Sump Integrity Test Results and Closure Plan* Report was submitted to OCD for review and approval
October 21, 2009	OCD approved Sump Integrity and Closure Plan
November 3, 2009	Three sumps filled with concrete per Closure Plan
November 16, 2009	*Sump Integrity Test Results and Retrofit Plan* for the two remaining

	sumps was submitted to OCD for review and approval
November 24, 2009	OCD approves Sump Retrofit Plan
May 24, 2010	WGESP discontinues pump cleaning at the facility, and submits *Sump Closure Request*, for the two remaining sumps, to the OCD for review and approval
June 2, 2010	OCD approves Sump Closure Request, approval is presented in Appendix A
June 16, 2010	Remaining two sumps filled with concrete per Closure Plan

On June 16, 2010, LAI personnel, Michelle Green observed cementing of the South Drain Sump and the Wash Bay Sump. Custom Mobile Concrete was contracted by STA FLO to prepare the cement mixture onsite. The cement mixture was added to each sump. A pneumatically energized hand-held vibrating rod was placed in the freshly poured cement. The rod vibrated the cement mixture to remove any air pockets and push suspended gravel downward to provide a finished surface. The surface of the concrete was tamped, floated and made flush with the existing surface.

Photo documentation of the closed sumps is presented in Appendix B. An updated schematic showing the closed 'sumps' is presented in Figure 2.

Final Closure

WGESP requests closure on these concrete filled containments. An update concerning the sumps will be made on the next groundwater discharge renewal.

If you have any questions or require additional information I may be reached at (405) 671-2145.

Sincerely,
Wood Group ESP, Inc.

Mike Schornick, P.E.
Global Environmental Engineer

Cc: Sam Baron – WGESP, Midland, TX
Mark J. Larson – LAI, Midland, TX

FIGURES

JWW

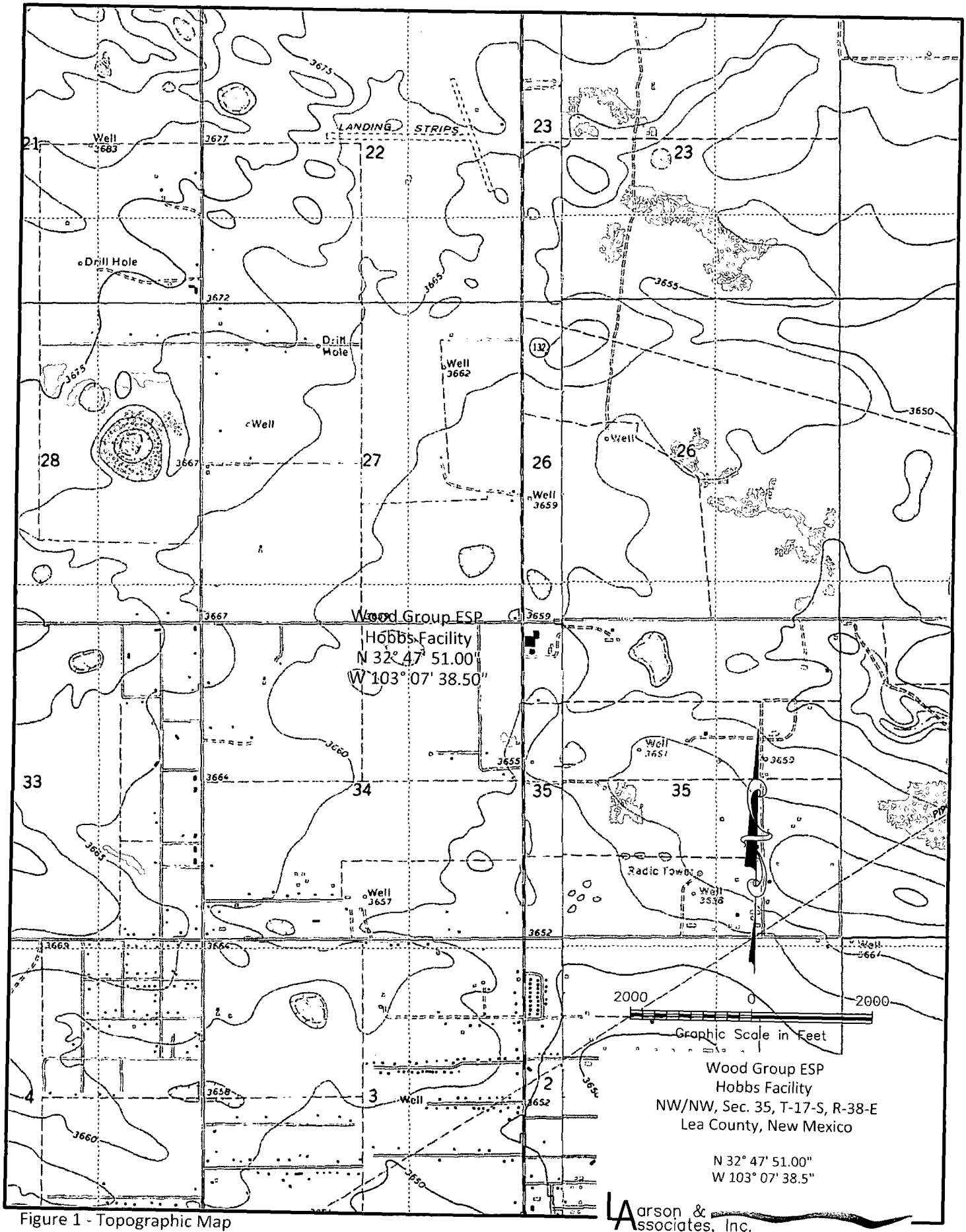

Figure 1 - Topographic Map

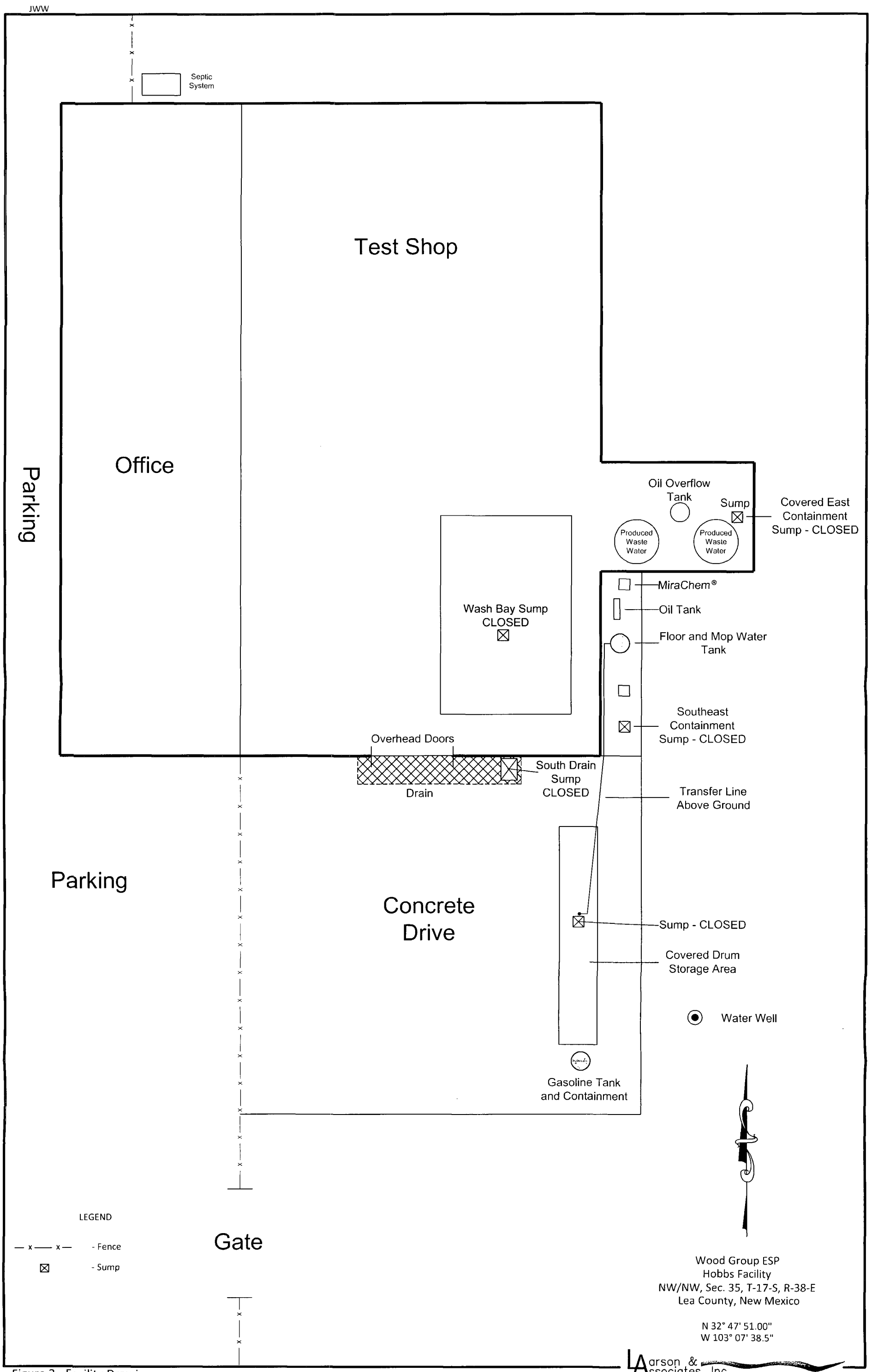

Figure 2 - Facility Drawing

Appendix A

Michelle Green

From: Mark Larson
Sent: Wednesday, June 02, 2010 4:35 PM
To: Michelle Green
Subject: FW: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request
Attachments: image001.jpg

Mike,
Please find approval from the New Mexico Oil Conservation Division (OCD) in Santa Fe, New Mexico, for closing two (2) sumps (wash bay and south drain) at the Hobbs Test Facility (GW0-164). Closure will be in accordance with the plan submitted to the OCD on May 24, 2010, including:

- Remove all equipment (pump, tubing, electrical leads, fiberglass liner, etc.) – Sam
- Clean concrete containment to remove any loose debris – Sam
- Photo Document – LAI
- Schedule concrete, fill sump containments (concrete) and pho document – LAI
- Prepare and submit final closure document to OCD – LAI

LAI proposes the following onsite activities for discharge permit compliance concurrent with closing the sumps: (Michelle – please add so I can forward to Mike)

Please provide your approval for these activities. LAI will provide notification to the OCD prior to commencing sump closure activities. Please contact me if you have questions.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

From: Lowe, Leonard, EMNRD [mailto:Leonard.Lowe@state.nm.us]
Sent: Wednesday, June 02, 2010 3:21 PM
To: Mark Larson
Cc: VonGonten, Glenn, EMNRD
Subject: RE: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request

Mr. Larson,

You have OCD approval to close these sumps as discussed today, June 2, 2010. Please submit a final closure report to the OCD once these are completed.
Upon your next renewal process please note these updates within the application.
Thank you,

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Mark Larson [mailto:Mark@laenvironmental.com]
Sent: Wednesday, June 02, 2010 9:21 AM
To: Lowe, Leonard, EMNRD
Cc: Schornick, Mike (WGESP); Baron, Sam; Michelle Green
Subject: Re: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request

Leonard,
Per our conversation yesterday, Wood Group ESP, Inc. (WGESP) has discontinued pump cleaning at the Hobbs Test Facility (GW-164) requests your approval to close the remaining two (2) sumps (wash bay and south drain) rather than retrofit the sumps as originally planned. The sumps were hydrostatically tested on September 14 and 18, 2009, respectively, and concluded that there was no potential for any significant release and the integrity of the sumps was not compromised. Larson & Associates, Inc., on behalf of WGESP, requests your approval to close the sumps according to the procedures presented in the attached document with a final closure report, including photo documentation, to be submitted to the OCD. Your approval of the sump closure is requested. Please contact me at (432) 687-0901 if you have questions.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
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Larson & Associates, Inc.
Environmental Consultants

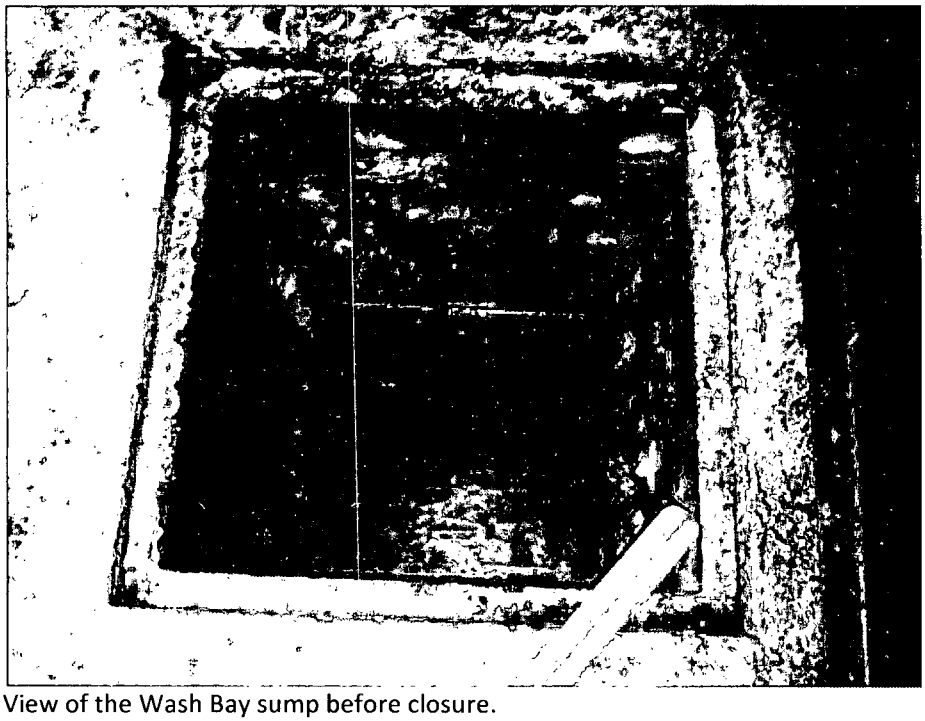
SPAMfighter has removed 5309 of my spam emails to date.
The Professional version does not have this message.

I am using the Free version of SPAMfighter.
We are a community of 7 million users fighting spam.
SPAMfighter has removed 5310 of my spam emails to date.
The Professional version does not have this message.

Appendix B

Wood Group ESP, Inc.
Hobbs Test Facility
GW-164
June 16, 2010

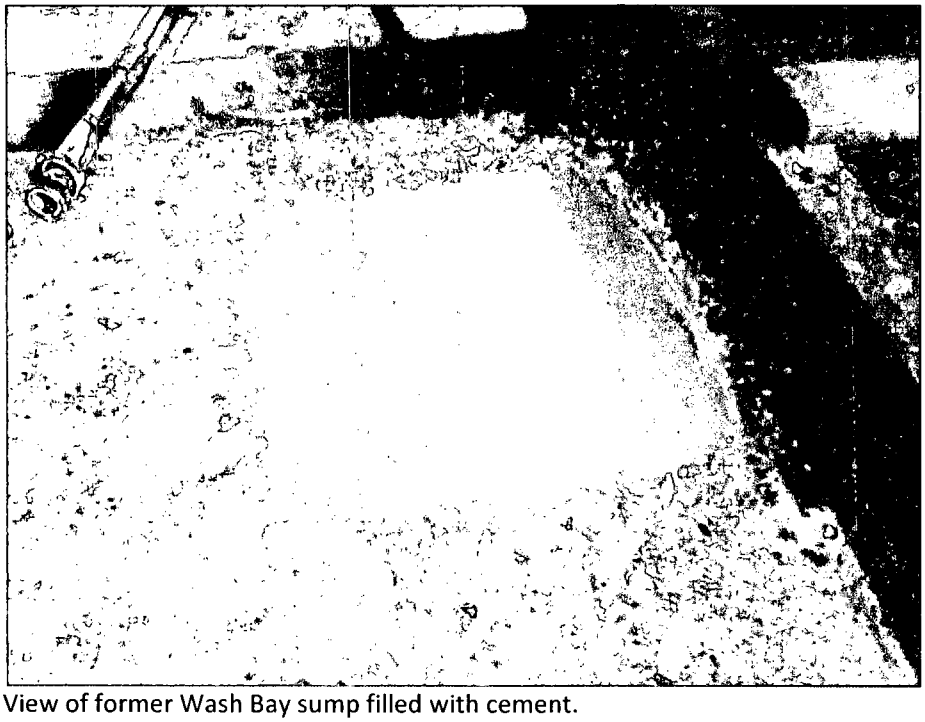
Photo Documentation



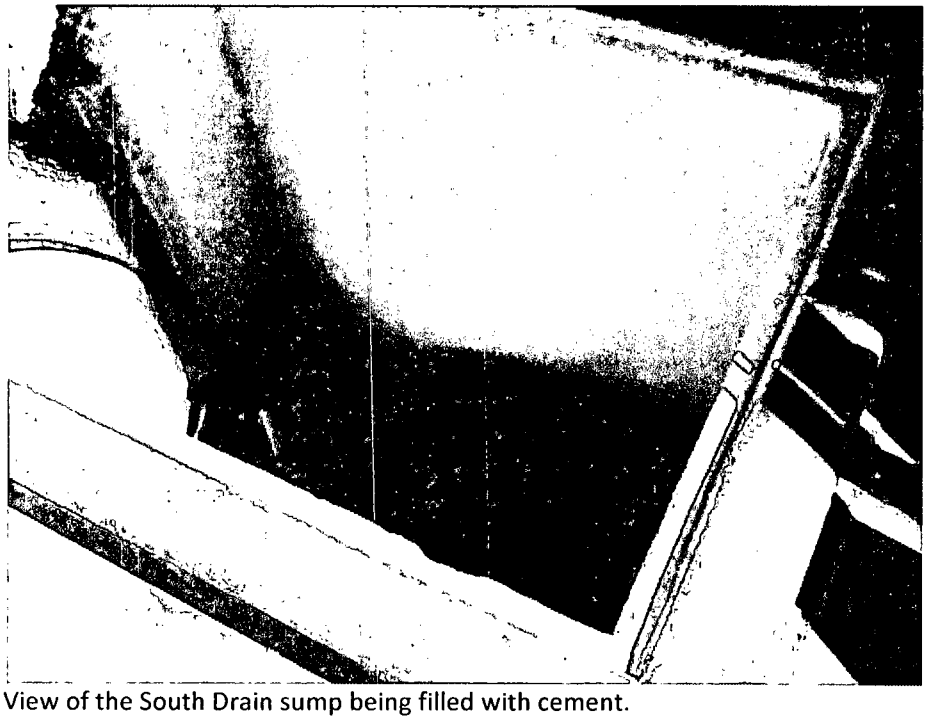
View of the Wash Bay sump before closure.

The cementing of the Wash Bay sump.

Photo Documentation



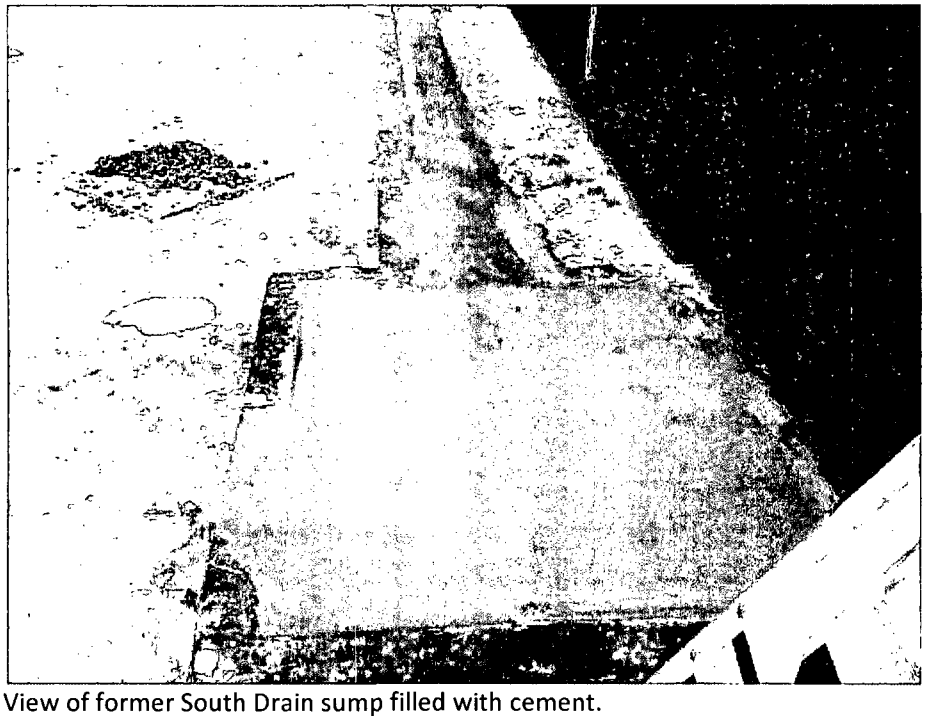
View of former Wash Bay sump filled with cement.



View of the South Drain sump being filled with cement.

Photo Documentation

Another view of the South Drain sump being filled with cement.



View of former South Drain sump filled with cement.

Lowe, Leonard, EMNRD

From: Michelle Green [michelle@laenvironmental.com]
Sent: Friday, June 18, 2010 3:12 PM
To: Lowe, Leonard, EMNRD; VonGonten, Glenn, EMNRD
Cc: Baron, Sam (WGESP); Schornick, Mike (WGESP)
Subject: GW-164, Wood Group ESP, Inc. - Hobbs Test Facility, Sump Closure Report
Attachments: Complete Report - WGESP Sump Closure June 18, 2010.pdf

Hello Leonard and Glenn,

Attached is the Sump Closure Report for the Hobbs Test Facility for your review. A hard copy of the report will follow.

If you have any questions or require additional information please let us know.

Have a wonderful weekend.

Thank you,

Michelle L. Green
Larson & Associates, Inc.
507 N Marienfeld, Suite 200
Midland, TX 79701

Office: 432.687.0901
Fax: 432.687.0789
Cell: 432.934.3231

Larson & Associates, Inc.
Environmental Consultants

Lowe, Leonard, EMNRD

From: Mark Larson [Mark@laenvironmental.com]
Sent: Wednesday, June 02, 2010 9:21 AM
To: Lowe, Leonard, EMNRD
Cc: Schornick, Mike (WGESP); Baron, Sam; Michelle Green
Subject: Re: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request
Attachments: Sump Closure Request, May 24, 2010.pdf

Leonard,
Per our conversation yesterday, Wood Group ESP, Inc. (WGESP) has discontinued pump cleaning at the Hobbs Test Facility (GW-164) requests your approval to close the remaining two (2) sumps (wash bay and south drain) rather than retrofit the sumps as originally planned. The sumps were hydrostatically tested on September 14 and 18, 2009, respectively, and concluded that there was no potential for any significant release and the integrity of the sumps was not compromised. Larson & Associates, Inc., on behalf of WGESP, requests your approval to close the sumps according to the procedures presented in the attached document with a final closure report, including photo documentation, to be submitted to the OCD. Your approval of the sump closure is requested. Please contact me at (432) 687-0901 if you have questions.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

Lowe, Leonard, EMNRD

From: Mark Larson [Mark@laenvironmental.com]
Sent: Wednesday, May 26, 2010 7:57 AM
To: Lowe, Leonard, EMNRD
Subject: FW: Re: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request
Attachments: Sump Closure Request, May 24, 2010.pdf

Dear Mr. Lowe,
I was told by Larry Johnson, District 1 – Hobbs, of your return to the office. Welcome Back! I sent the following email to Glenn von Gonten on May 25, 2010, to request approval from the New Mexico Oil Conservation Division (OCD) to close the two (2) remaining sumps (wash bay and south drain) at the Wood Group ESP, Inc. (WGESP) Hobbs Test Facility located north of Hobbs, New Mexico. WGESP has decided to no longer clean pumps at this location and would like to close rather than retrofit the sumps. The email that was sent on May 25, 2010 requests OCD approval to close the sumps. Thanks for your attention to this matter.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

From: Mark Larson
Sent: Tuesday, May 25, 2010 9:48 AM
To: 'VonGonten, Glenn, EMNRD'
Cc: 'Schornick, Mike (WGESP)'; 'Baron, Sam'; Michelle Green; 'Larry.Johnson@state.nm.us'
Subject: Re: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request

Dear Glenn,
This message is submitted to the New Mexico Oil Conservation Division (OCD) on behalf of Wood Group ESP, Inc. (WGESP) to request your approval to close two (2) sumps (wash bay and South Drain) at the Hobbs Test Facility (Facility). The Facility is no longer cleaning pumps and hydrostatic test result have demonstrated that sump integrity has not been compromised, therefore, WGESP requests your approval to close rather than retrofit the sumps. The attached letter presents the closure procedures. WGESP would like to proceed with sump closure as quickly as possible and will provide notification to the OCD and submit a final report that includes photo documentation. Your approval of this request is greatly appreciated. Please contact Mike Schornick with WGESP at (405) 671-2145 or myself at (432) 678-0901 if you have questions.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
507 N. Marienfeld St., Ste. 202
Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
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Larson & Associates, Inc.
Environmental Consultants

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E-MAIL ATTACHMENT

Wood Group ESP Inc.

June 18, 2010

VIA EMAIL: Leonard.Lowe@state.nm.us

Mr. Leonard Lowe
Environmental Engineer
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 88505

RE: Sump Closure
Wood Group ESP, Inc., Hobbs Test Facility (GW-164)
8426 North Dal Paso, Hobbs, New Mexico 88240

Dear Mr. Lowe:

This letter report was prepared with the assistance of Larson and Associates, Inc. (LAI) on behalf of Wood Group ESP, Inc. (WGESP) and is submitted to the New Mexico Oil Conservation Division (OCD).

The report presents closure documentation for two sumps at the Hobbs Test Facility (GW-164) located in Unit D (NW/4, NW/4), Section 35, Township 17 South and Range 38 East, Lea County, New Mexico. The facility physical address is 8426 North Dal Paso, Hobbs, New Mexico. The geodetic location is north 32° 47' 51.0" and west 103° 7' 38.5". Figure 1 presents a location map.

Timeline of Events

August 27, 2009	OCD requested WGESP to conduct hydrostatic testing of the sumps to ensure integrity. The OCD also notified WGESP that the sumps will require upgrading to comply with its current rules (NMAC 19.15.17.11). The upgrade would require retrofitting the sumps, following the integrity demonstration, with fiberglass liners designed to allow monitoring of leakage in the space between the fiberglass liner and concrete containment.
September 4, 2009	Conference call with the OCD, WGESP expressed a desire to retrofit two sumps, located at the drain near the south side of the building and pump cleaning area inside the test building, and close the remaining three sumps. The OCD was in agreement with the proposal and WGESP requested a list of procedures from the OCD for demonstrating sump integrity
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May 24, 2010	WGESP discontinues pump cleaning at the facility, and submits *Sump Closure Request*, for the two remaining sumps, to the OCD for review and approval
June 2, 2010	OCD approves Sump Closure Request, approval is presented in Appendix A
June 16, 2010	Remaining two sumps filled with concrete per Closure Plan

On June 16, 2010, LAI personnel, Michelle Green observed cementing of the South Drain Sump and the Wash Bay Sump. Custom Mobile Concrete was contracted by STA FLO to prepare the cement mixture onsite. The cement mixture was added to each sump. A pneumatically energized hand-held vibrating rod was placed in the freshly poured cement. The rod vibrated the cement mixture to remove any air pockets and push suspended gravel downward to provide a finished surface. The surface of the concrete was tamped, floated and made flush with the existing surface.

Photo documentation of the closed sumps is presented in Appendix B. An updated schematic showing the closed 'sumps' is presented in Figure 2.

Final Closure

WGESP requests closure on these concrete filled containments. An update concerning the sumps will be made on the next groundwater discharge renewal.

If you have any questions or require additional information I may be reached at (405) 671-2145.

Sincerely,
Wood Group ESP, Inc.

Mike Schornick, P.E.
Global Environmental Engineer

Cc: Sam Baron – WGESP, Midland, TX
Mark J. Larson – LAI, Midland, TX

JWW

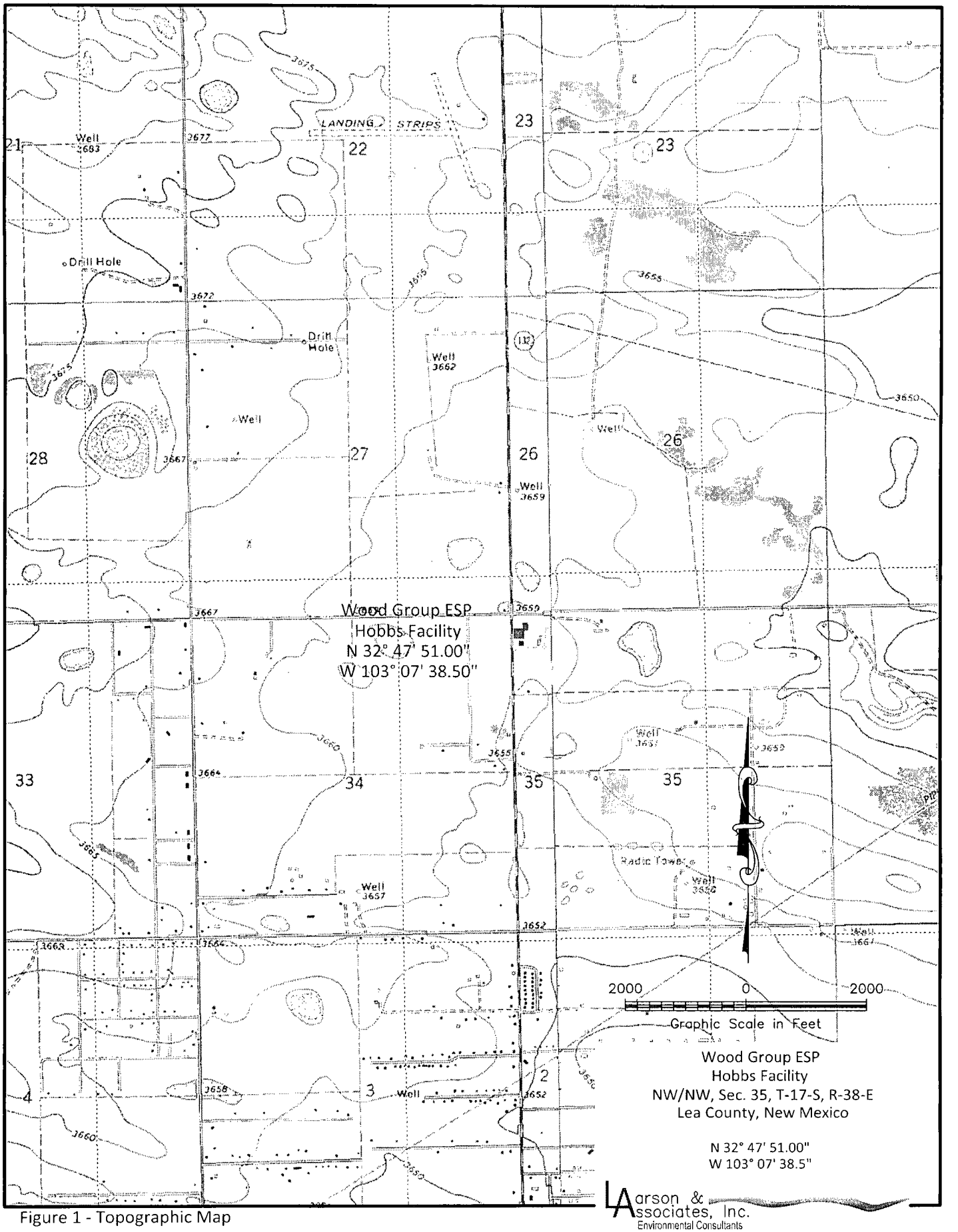

Figure 1 - Topographic Map

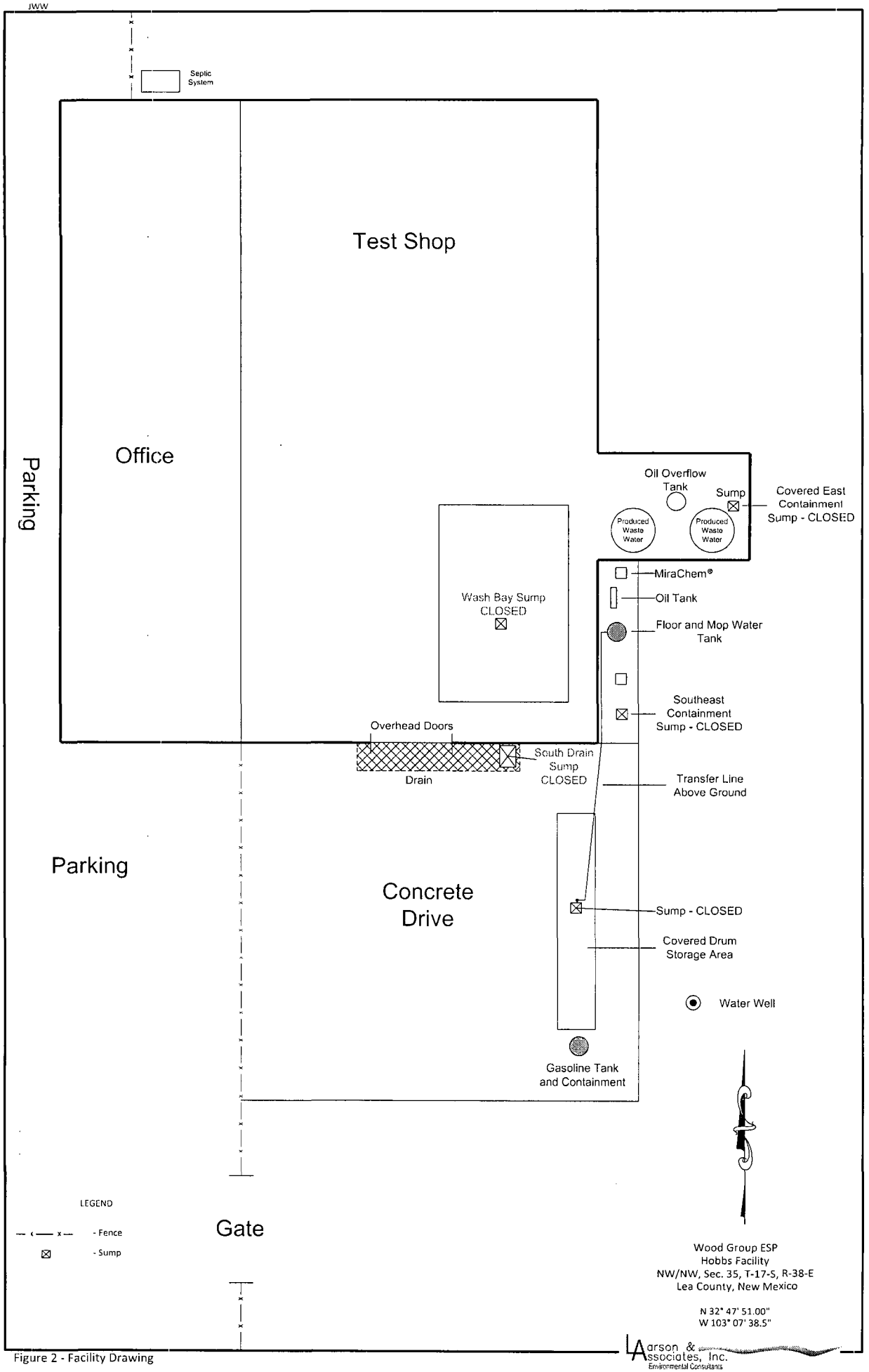

Figure 2 - Facility Drawing

Michelle Green

From: Mark Larson
Sent: Wednesday, June 02, 2010 4:35 PM
To: Michelle Green
Subject: FW: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request
Attachments: image001.jpg

Mike,
Please find approval from the New Mexico Oil Conservation Division (OCD) in Santa Fe, New Mexico, for closing two (2) sumps (wash bay and south drain) at the Hobbs Test Facility (GW0-164). Closure will be in accordance with the plan submitted to the OCD on May 24, 2010, including:

- Remove all equipment (pump, tubing, electrical leads, fiberglass liner, etc.) – Sam
- Clean concrete containment to remove any loose debris – Sam
- Photo Document – LAI
- Schedule concrete, fill sump containments (concrete) and pho document – LAI
- Prepare and submit final closure document to OCD – LAI

LAI proposes the following onsite activities for discharge permit compliance concurrent with closing the sumps: (Michelle – please add so I can forward to Mike)

Please provide your approval for these activities. LAI will provide notification to the OCD prior to commencing sump closure activities. Please contact me if you have questions.
Sincerely,

Mark J. Larson
Sr. Project Manager / President
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mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

From: Lowe, Leonard, EMNRD [mailto:Leonard.Lowe@state.nm.us]
Sent: Wednesday, June 02, 2010 3:21 PM
To: Mark Larson
Cc: VonGonten, Glenn, EMNRD
Subject: RE: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request

Mr. Larson,

You have OCD approval to close these sumps as discussed today, June 2, 2010. Please submit a final closure report to the OCD once these are completed.
Upon your next renewal process please note these updates within the application.
Thank you,

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Mark Larson [mailto:Mark@laenvironmental.com]
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Larson & Associates, Inc.
Environmental Consultants

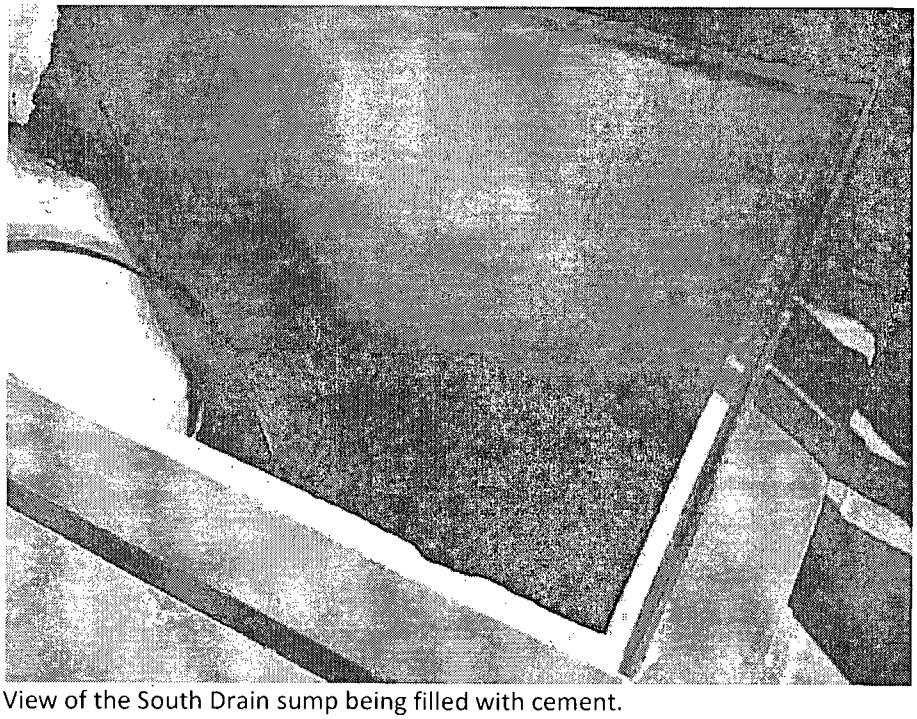
Photo Documentation

View of the Wash Bay sump before closure.

The cementing of the Wash Bay sump.

Photo Documentation

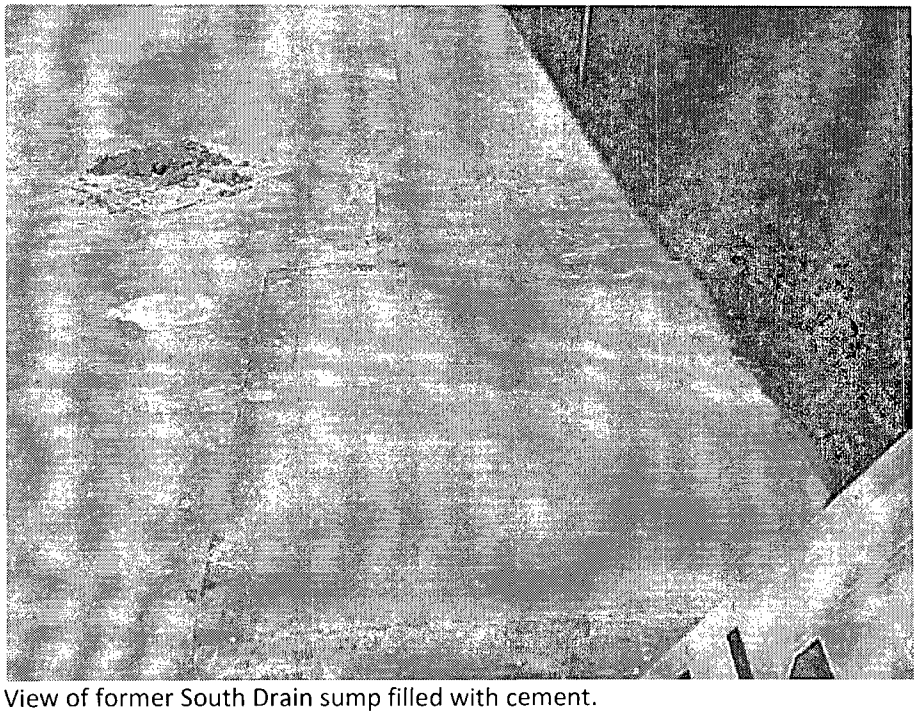
View of former Wash Bay sump filled with cement.



View of the South Drain sump being filled with cement.

Photo Documentation

Another view of the South Drain sump being filled with cement.



View of former South Drain sump filled with cement.

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Wednesday, June 02, 2010 2:21 PM
To: 'Mark Larson'
Cc: VonGonten, Glenn, EMNRD
Subject: RE: GW-164, Wood Group ESP, Inc., Hobbs Test Facility, Sump Closure Request

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Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

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Sincerely,

Mark J. Larson
Sr. Project Manager / President
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Midland, Texas 79701
(432) 687-0901 (office)
(432) 687-0456 (fax)
(432) 556-8656 (cell)
mark@laenvironmental.com

Larson & Associates, Inc.
Environmental Consultants

May 24, 2010

VIA EMAIL: Glenn.VonGonten@state.nm.us

Mr. Glenn von Gonten, Acting Chief
Environmental Bureau
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 88505

RE: Sump Closure Request
Wood Group ESP, Inc., Hobbs Test Facility (GW-164)
8426 North Dal Paso, Hobbs, New Mexico 88240

Dear Mr. von Gonten:

This letter report was prepared by Larson & Associates, Inc. (LAI) on behalf of Wood Group ESP, Inc. (WGESP) and is submitted to the New Mexico Oil Conservation Division (OCD) to request approval to close the two (2) remaining sumps (south drain sump and wash bay sump) at the Hobbs Test Facility (facility) which operates under OCD discharge permit number GW-164. On November 16, 2009, WGESP submitted a letter to the OCD that included hydrostatic test results and a plan to retrofit the sumps. However, WGESP has discontinued pump cleaning processes at the Facility and requests permission to permanently close rather than retrofit the sumps. The facility is located in Unit D (NW/4, NW/4), Section 35, Township 17 South and Range 38 East, Lea County, New Mexico. The physical address is 8426 North Dal Paso, Hobbs, New Mexico. The geodetic position is north 32° 47' 51.0" and west 103° 7' 38.5". Figure 1 presents a location map. Figure 2 presents a facility drawing showing the sump locations.

Background

On August 27, 2009, during a compliance inspection of the facility, the OCD requested WGESP to conduct hydrostatic testing of five (5) sumps to ensure integrity. The OCD also notified WGESP that the sumps will require upgrading to comply with its existing rules (NMAC 19.15.17.11). The upgrade would require retrofitting the sumps, following the integrity demonstration, with fiberglass liners designed to allow monitoring of leakage in the space between the fiberglass liner and concrete containment.

On September 4, 2009, during a conference call with the OCD, WGESP expressed a desire to retrofit two (2) sumps, located at the drain near the south side of the building (South Drain Sump) and pump cleaning area (Wash Bay Sump) inside the test building. WGESP proposed to close three (3) sumps located in the covered drum storage area, southeast storage area and east covered storage area. The OCD was in agreement with the proposal and WGESP requested a list of procedures from the OCD for demonstrating sump integrity.

On September 14, 2008, OCD provided the following procedures for WGESP to use in hydrostatic testing and verification of sump integrity, including:

- Clean out the sumps: bottoms and walls;
- Photograph sumps once clean;
- Fill sumps with clean or fresh water and allow them to sit over 24 hours;
- Take photographs of sumps full of water;
- Take photographs of sumps when 24 hour period is over; and
- Properly dispose of used hydrostatic water.

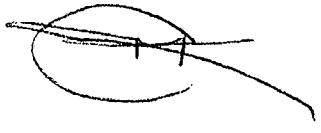
The hydrostatic test results for the three (3) sumps (drum storage area, southeast tank storage area and east tank storage area) were submitted to the OCD in a letter report dated October 13, 2009. The OCD approved the closure plan and the sumps were closed on November 3, 2009.

The remaining sumps (south drain and wash bay) were hydrostatically tested on September 14, 2009 and September 18, 2009, respectively, and the results were reported to the OCD in a letter dated November 16, 2009. Based on the results of the hydrostatic testing, observations of the sump conditions, and concurrence by LAI and WGESP concluded there was no potential for any significant release and the integrity of the south drain and wash bay sumps was not compromised. LAI, on behalf of WGESP, requests approval to close the south drain sump and wash bay sump using the same procedures to close the drum storage area, southeast tank storage area and east tank storage area sumps, including:

- Removing all equipment (i.e., pump, tubing, electric leads, fiberglass liners, etc.);
- Filling the concrete containments with concrete; and
- Submitting a final closure report to the OCD that includes photo documentation of the closure process.

Your approval of the closure plan is requested. Please contact me at (432) 687-0901 if you have questions.

Sincerely,
Larson & Associates, Inc.



Mark J. Larson, P.G.
Sr. Project Manager
mark@laenvironmental.com

Cc: Sam Baron – WGESP, Midland, TX
Mike Schornick – WGESP, Oklahoma City, OK
Larry Hill – OCD District 1, Hobbs, NM

FIGURES

JWW

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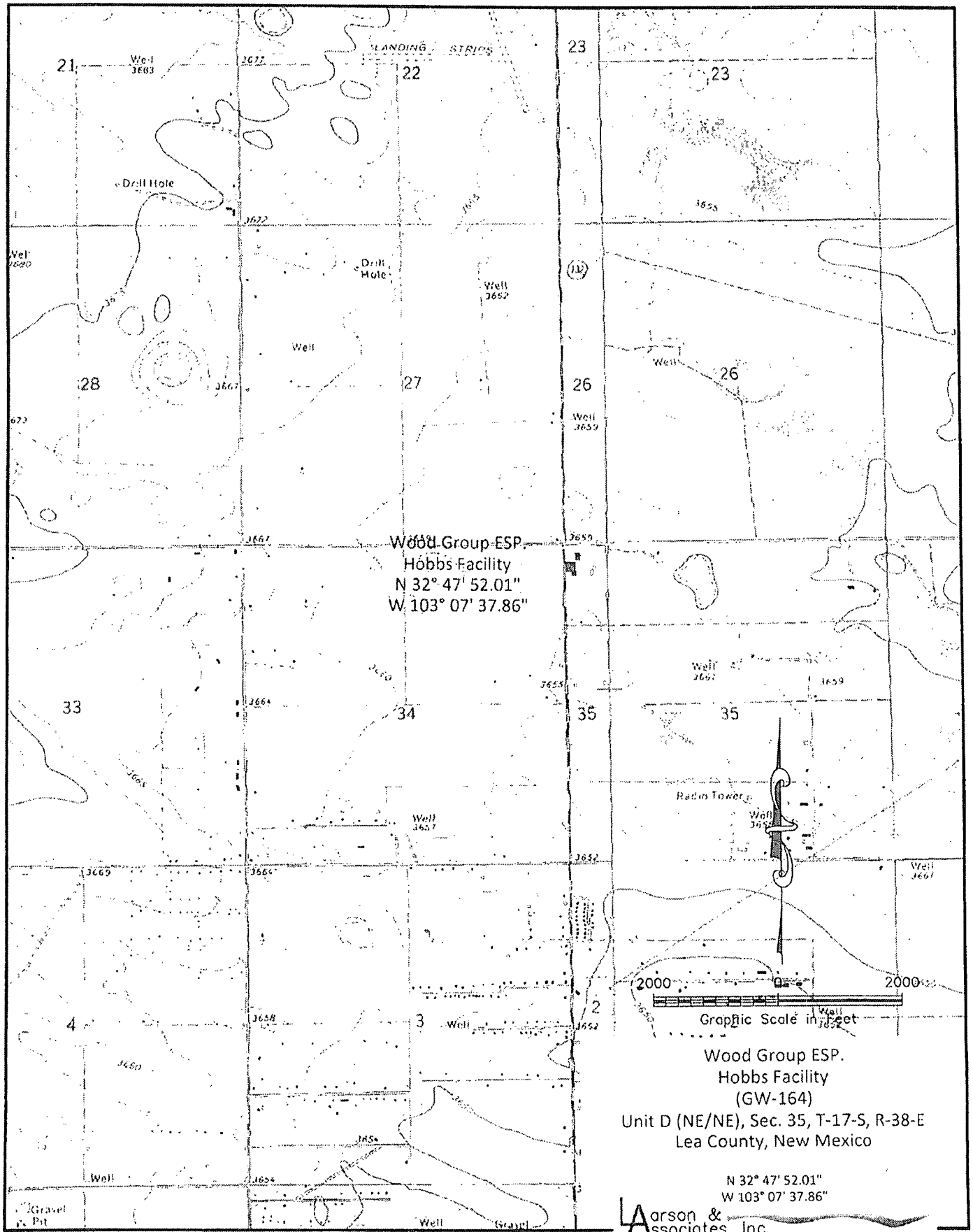

Figure 1 - Topographic Map

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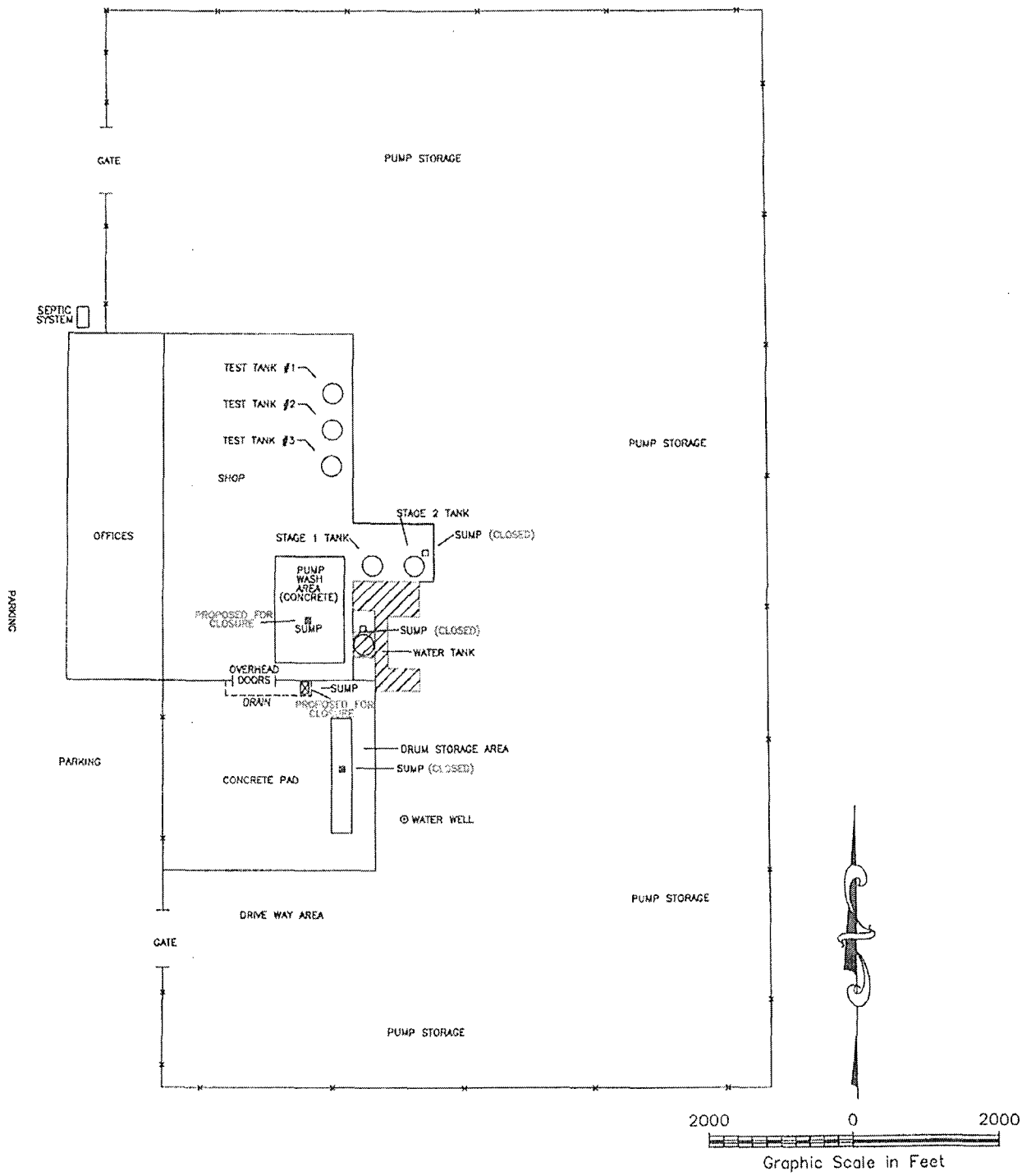

Wood Group ESP.
Hobbs Facility
(GW-164)
Unit D (NE/NE), Sec. 35, T-17-S, R-38-E
Lea County, New Mexico

N 32° 47' 52.01"
W 103° 07' 37.86"

Larson & Associates, Inc.
Environmental Consultants

Figure 2 - Facility Layout

Wood Group ESP Inc.

December 17, 2009

VIA EMAIL: Leonard.Lowe@state.nm.us

Mr. Leonard Lowe
State of New Mexico – Oil Conservation Division
1220 S St Francis Drive
Santa Fe, New Mexico 87505

RE: Transfer Line Closure Report
Wood Group ESP, Hobbs Test Shop (GW-164)
Unit Letter D (NW/4, NW/4), Section 35, T 17S, R 37E
Lea County, New Mexico

Dear Mr. Lowe:

The enclosed report was prepared by Larson and Associates, Inc., on behalf of Wood Group ESP, Inc, (WGESP) and is submitted to the State of New Mexico Oil Conservation Division by WGESP for documentation and closure. The report presents the backfill of the transfer line trench approved by OCD and associated with a line release from a subsurface transfer line at its Hobbs Test Facility. The facility is located at 8426 N. Dal Paso, in Hobbs, New Mexico.

This report presents the backfill and completing of the trench along with an above ground transfer line. Your concurrence with final closure is requested.

If you have any questions or require additional information, please call me to discuss.

Sincerely,
Wood Group ESP, Inc.

Mike Schornick, P.E.
Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road
Oklahoma City, Oklahoma 73135
(405) 671-2145 (office)
(405) 290-8523 (cell)

Attachments

CC Sam Baron – Wood Group
Rod Burrola – Wood Group
Michelle Green – Larson & Associates, Inc.

Transfer Line Closure Report

Hobbs Test Facility
Unit D, Section 35, T17S, R38E
Lea County, New Mexico

Discharge Permit GW-164

LAI Project No. 8-0113-04

December 17, 2009

Prepared for:
Wood Group ESP
6205 Sooner Road
Oklahoma City, Oklahoma 73135

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

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Executive Summary

This report was prepared by Larson & Associates, Inc. (LAI) and is submitted to the State of New Mexico Oil Conservation Division (OCD) on behalf of Wood Group ESP, Inc. (WGESP). This report provides documentation of the backfill and completion of the transfer line release investigation.

WGESP requests closure. Your concurrence and approval of this request is appreciated.

Wood Group's contact for environmental concerns is:

Mr. Mike Schornick – Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road
Oklahoma City, Oklahoma 73135
Office – 405.671.2145, Cell – 405.290.8523
Email – mike.schornick@woodgroup.com

Background Information

Timeline of Events

June 11, 2009	WGESP personnel tested the transfer line using pressurized air to approximately 3 pounds per square inch (psi) above the operating pressure. The pressure test failed.
June 15, 2009	WGESP personnel exposed the line to identify a release (i.e., stained or wet soil, odor, etc.). The line was excavated up to a concrete containment for a wastewater tank where it was no longer accessible. Soil was visibly moist with some staining where the transfer line intersected the concrete containment en route to the waste water tank. A hole in the line was observed at this point suggesting that this was the failure point. The observation indicated that a release of an undetermined amount had occurred. WGESP notified OCD of the release and subsequently, OCD requested an investigation be performed
July 10, 2009	Initial C-141 and Sampling Plan submitted to the OCD.
August 6, 2009	OCD approves the Sampling Plan.
August 7, 2009	LAI notified OCD representatives Messrs. Leonard Lowe and Geoffrey Leking of its intent to perform a soil boring investigation.
August 11, 2009	LAI personnel installed two soil boring (LSB-1 and

	LSB-2) using Terraprobe® direct-push sampling methods near the concrete containment.
October 15, 2009	*'Transfer Line Release Investigation Report and Closure Report'* submitted to the OCD for review and approval.
October 21, 2009	OCD approves the backfilling of the trench.
November 3, 2009	Trench filled with cement as per Closure Plan.
December 9, 2009	Transfer line routed above ground as per Closure Plan.

On November 3, 2009, LAI personnel, Michelle Green observed cementing of the trench from the transfer line removal. Custom Mobile Concrete was contracted by Big Boys LLC to prepare the cement mixture onsite. The cement mixture was added to the trench. The surface of the concrete was tamped, floated and made flush with the existing surface.

On December 9, 2009, WGESP personnel installed a PVC above ground transfer line. The line is routed Southeast Containment waste water tank.

Photo documentation of the filled trench and replaced transfer line are presented in Appendix A. Figure 1 presents the topographic map. An updated schematic showing the newly routed above ground line is presented in Figure 2.

Conclusions

Based upon the completion of activities, WGESP requests final closure on the transfer line release investigation. Your concurrence is requested.

JWW

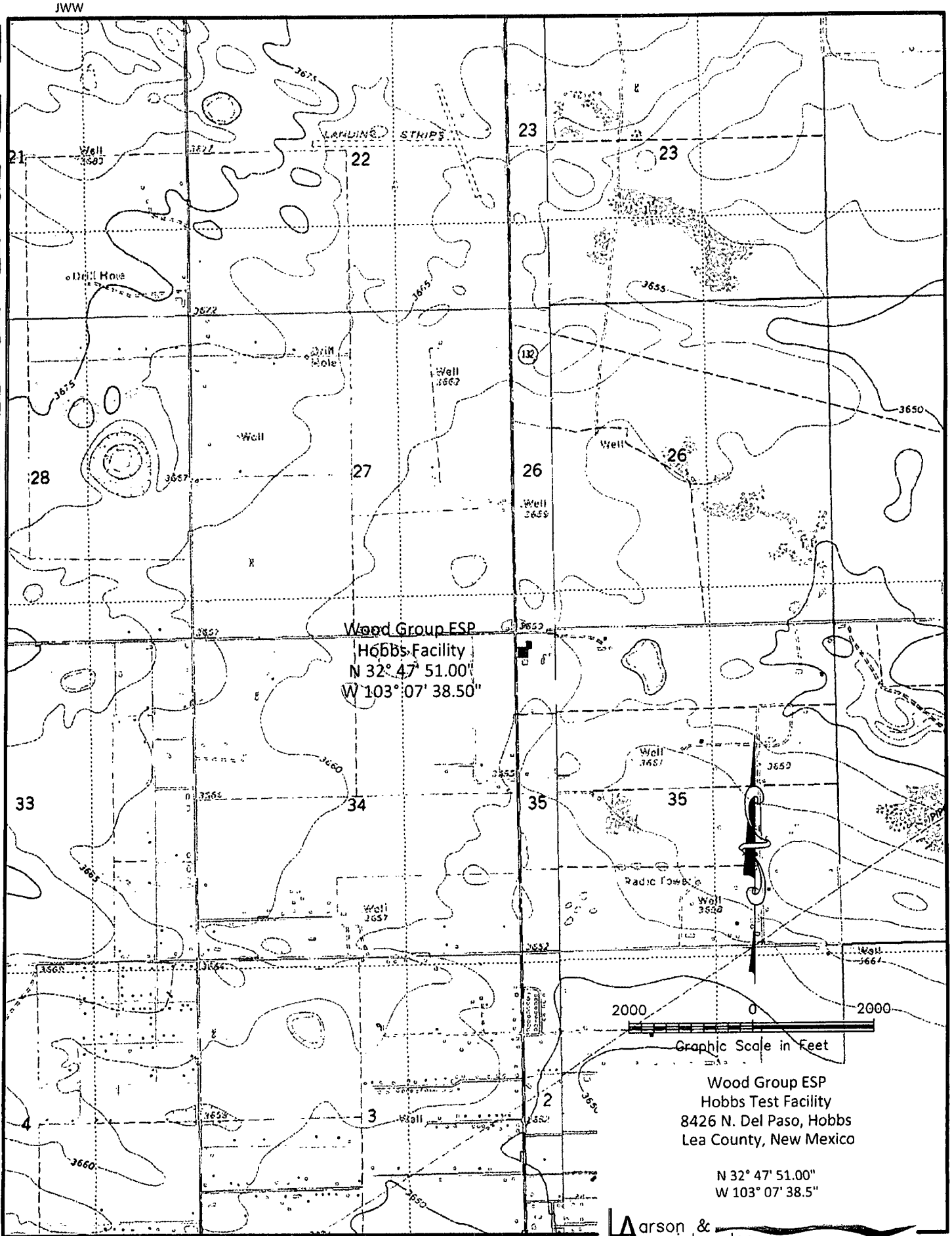


Figure 1 - Topographic Map

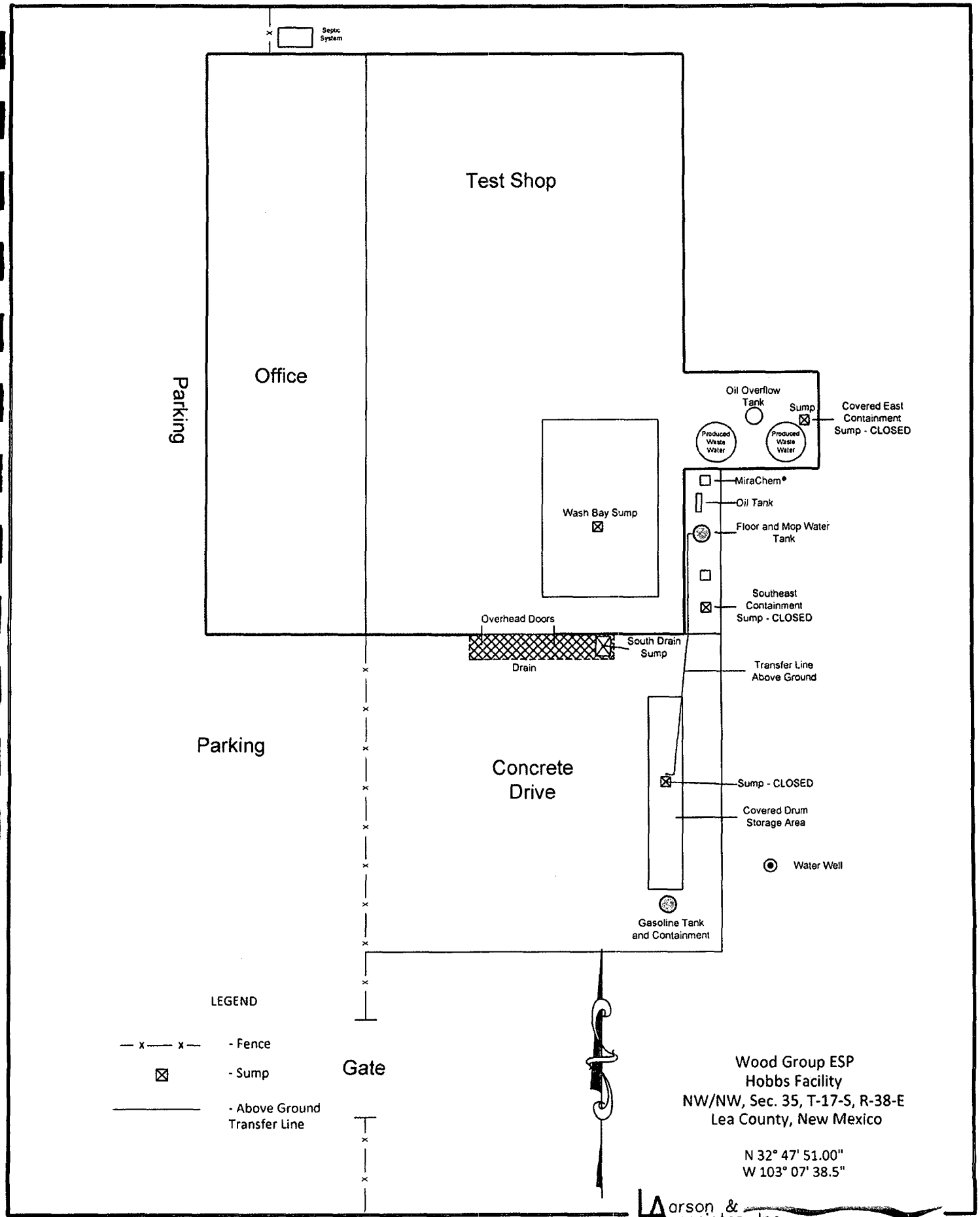


Figure 2 - Facility Drawing

Photo Documentation

View of trench being filled with cement.

View of cement filled trench.

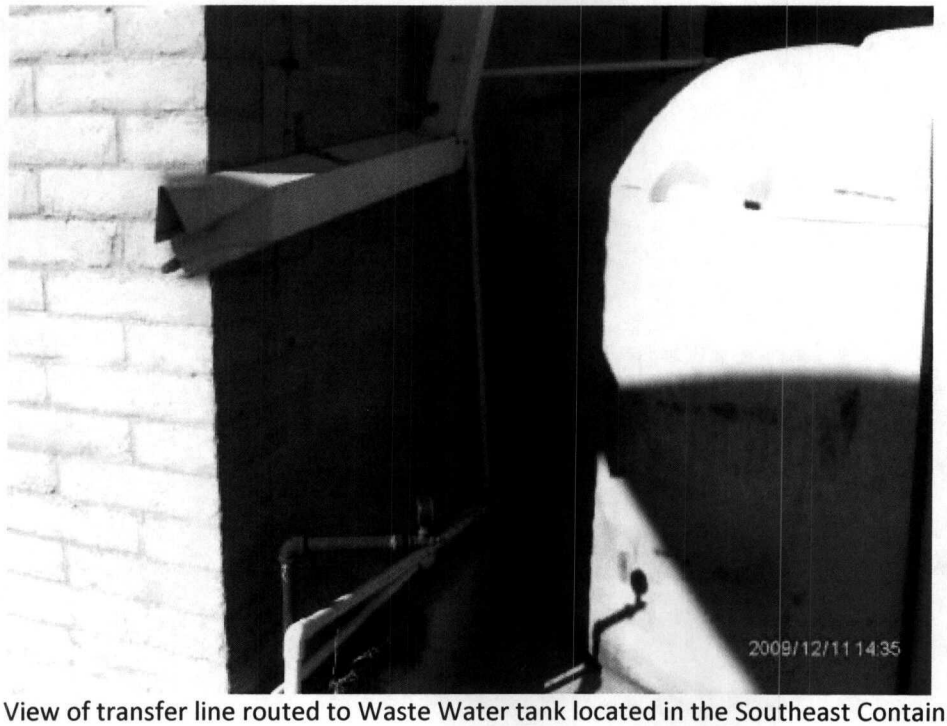
Photo Documentation

View of pump and transfer line from the South Drum Storage Containment.

View of the transfer line routed above ground surface from South Drum Storage Containment.

Photo Documentation

View of transfer line routed to Southeast Containment.



View of transfer line routed to Waste Water tank located in the Southeast Containment.

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Wednesday, October 21, 2009 3:07 PM
To: 'Schornick, Mike'
Cc: Mark Larson; 'Michelle Green'
Subject: OCD response: Sump Integrity test results and Closure Plan

Mr. Schornick,

OCD has approved your integrity and closure plan for the facility GW-164.

Please update your facility schematic to show the closed "sumps" then submit schematic to the OCD.

This was noted in Condition 16 of Owner/Operators recently renewed permit. At the time of this e-mail, a signed copy was yet to be received.

Update the OCD once all work is completed toward this task.

Thank you for your attention.

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

WOOD GROUP ELECTRIC SUBMERSIBLE PUMPS , INC.
5500 SE 59th St., OKLAHOMA CITY, OK 73135

October 15, 2009

VIA EMAIL: Leonard.Lowe@state.nm.us

Mr. Leonard Lowe
Environmental Engineer
New Mexico Oil Conservation Division
1220 S. St. Francis Drive
Santa Fe, New Mexico 88505

RE: Sump Integrity Test Results and Closure Plan
Wood Group ESP, Inc., Hobbs Test Facility (GW-164)
8426 North Dal Paso, Hobbs, New Mexico 88240

Dear Mr. Lowe:

This letter report was prepared with the assistance of Larson and Associates, Inc. (LAI) on behalf of Wood Group ESP, Inc. (WGESP) and is submitted to the New Mexico Oil Conservation Division (OCD). The report presents the hydrostatic test results and closure plan for three (3) sumps at the Hobbs Test Facility (GW-164) located in Unit D (NW/4, NW/4), Section 35, Township 17 South and Range 38 East, Lea County, New Mexico. The facility physical address is 8426 North Dal Paso, Hobbs, New Mexico. The global positioning system coordinates are north 32° 47' 51.0" and west 103° 7' 38.5". Figure 1 presents a location map.

Background

On August 27, 2009, during a compliance inspection of the facility, the OCD requested WGESP to conduct hydrostatic testing of the sumps to ensure integrity. The OCD also notified WGESP that the sumps will require upgrading to comply with its existing rules (NMAC 19.15.17.11). The upgrade would require retrofitting the sumps, following the integrity demonstration, with fiberglass liners designed to allow monitoring of leakage in the space between the fiberglass liner and concrete containment.

On September 4, 2009, during a conference call with the OCD, WGESP expressed a desire to retrofit two (2) sumps, located at the drain near the south side of the building and pump cleaning area inside the test building, and close the remaining three (3) sumps. The OCD was in agreement with the proposal and WGESP requested a list of procedures from the OCD for demonstrating sump integrity.

On September 14, 2008, OCD provided the following procedures for WGESP to use in hydrostatic testing and verification of sump integrity:

- Clean out the sumps: bottoms and walls. Photograph sumps once clean.
- Fill sumps with clean or fresh water and allow them to sit over 24 hours. Take photographs of sumps full of water.
- Take photographs of sumps when 24 hour period is over.
- Properly dispose of used hydrostatic water.

WGESP hydrostatic test procedures are presented in Appendix A.

The following sections present descriptions of the actual hydrostatic test procedures and results for the three (3) sumps proposed for closure: the drum storage area sump, southeast tank storage area sump and east tank storage area sump. Fiberglass liners were present in two (2) of the sumps to be closed (i.e. the drum storage area sump and the southeast tank storage area sump). The liners were removed, by WGESP, prior to hydrostatic testing. Accordingly, the liners from these two (2) sumps were hydrostatically tested after removal. Figure 2 presents a facility drawing and sump locations.

Drum Storage Area Sump

The drum storage area sump was constructed of concrete with a fiberglass liner. The fiberglass liner measured approximately 24 X 24 X 21 inches and was recessed into the concrete containment and sealed with silicon calking. The bottom of the fiberglass liner was flush with the concrete floor. The fiberglass liner was equipped with leak detection to allow monitoring of the space between the fiberglass liner and concrete containment. However, the fiberglass liner was not in compliance with existing OCD rules due to the bottom of the liner being flush with concrete floor.

Facility personnel cleaned and photographed the liner prior to removal from the containment for hydrostatic testing. Sump photographs are presented in Appendix B. A small amount of water was observed in the bottom of the concrete containment after the liner was removed. This may have been the result of seepage around the lip seal between the liner and concrete. The liquid was removed using a shop vacuum and was placed in the wastewater tank. The fiberglass liner was visually inspected for cracks and holes and none were found.

On September 3, 2009, facility personnel filled, near full, the removed fiberglass liners with fresh water to begin the hydrostatic test. The test began at 11:02 am on September 3, 2009 and was concluded at 11:02 am on September 5, 2009. The fiberglass liner was marked prior to filling and the fluid level remained substantially unchanged during the test. No leaks were observed confirming that liner integrity has not been compromised. This also supports the conclusion that water observed in the bottom of the concrete containments was likely the result of seepage between the lip seal and concrete. Photographs 1 through 3, presented in Appendix B, represent the drum storage area sump testing.

Southeast Tank Storage Area Sump

The southeast tank storage area sump was constructed of concrete with a fiberglass liner. The fiberglass liner measured approximately 24 X 24 X 21 inches and is recessed into the concrete containment and sealed with silicon calking. The bottom of the fiberglass liner was flush with the concrete floor. The fiberglass liner was equipped with leak detection to allow monitoring of the space between the fiberglass liner and concrete containment. However, the fiberglass liner was not in compliance with existing OCD rules due to the bottom of the liner being flush with concrete floor.

Facility personnel cleaned and photographed the liner prior to removal from the containment for testing according to the OCD approved procedure. Sump photographs are presented in Appendix A. A small amount of water was observed in the bottom of the concrete containment this may have been the result of seepage around the lip seal between the liner and concrete. The liquid was removed using a shop vacuum and placed in the wastewater tank. The fiberglass liner was visually inspected for cracks and holes and none were found.

On September 3, 2009, facility personnel filled, near full, the removed fiberglass liner with fresh water to begin the hydrostatic test. The test began at 11:07 am on September 3, 2009 and was concluded at 11:03 am on September 5, 2009. The fiberglass liner was marked prior to filling and the fluid level remained substantially unchanged during the test. No leaks were observed confirming that liner integrity has not been compromised. This also supports the conclusion that water observed in the bottom of the concrete containment was likely the result of seepage between the lip seal and concrete. Photographs 4, 5 and 6, presented in Appendix B, represent the southeast tank storage area sump testing.

East Tank Storage Area Sump Testing and Results

The east tank storage area sump was constructed of concrete, sealed with an industrial coating. The sump measures approximately 36 X 36 X 30 inches. The industrial coating covered the walls and bottom of the sump, as well as the surface of the tank storage secondary containment. Facility personnel cleaned and photographed the sump prior to hydrostatic testing (presented in Appendix B). No cracks or holes were observed in the coated concrete. The hydrostatic test was performed according to the OCD approved procedure.

On September 14, 2009, facility personnel filled, near full, the sump with fresh water. Testing of the sump commenced at 09:54 am on September 14, 2009 and was concluded at 09:25 am on September 15, 2009. The concrete sump was marked prior to filling. The water level stabilized below the mark due to the surface slope however, the water level remained substantially unchanged during the test. These results confirm that the sump integrity has not been compromised. Photographs 7, 8 and 9 (presented in Appendix B) represent the east tank storage area sump testing.

Hydrostatic Test Conclusion
Based on the results of the hydrostatic testing, observations of the sump conditions, and concurrence by our consultant LAI, WGESP concludes there was no potential for any significant release and the integrity was not compromised.

Final Closure Plan
Wood Group proposes to complete final closer of the sumps by removing all equipment (i.e. pump, tubing, electric leads, fiberglass liners, etc.) and filling the concrete containments with concrete. Photographs of the closure process and a documentation report will be submitted to the OCD upon completion.

Your concurrence with the hydrostatic testing conclusion and approval of the closure plan is requested. Please contact me at (405) 671-2145 if you have questions.

Sincerely,
Wood Group ESP, Inc.

Mike Schornick, P.E.
Environmental Engineer

Cc: Sam Baron – WGESP, Midland, TX
Rod Burrola – WGESP, Hobbs, NM
Mark J. Larson – Larson & Associates, Inc.

JWW

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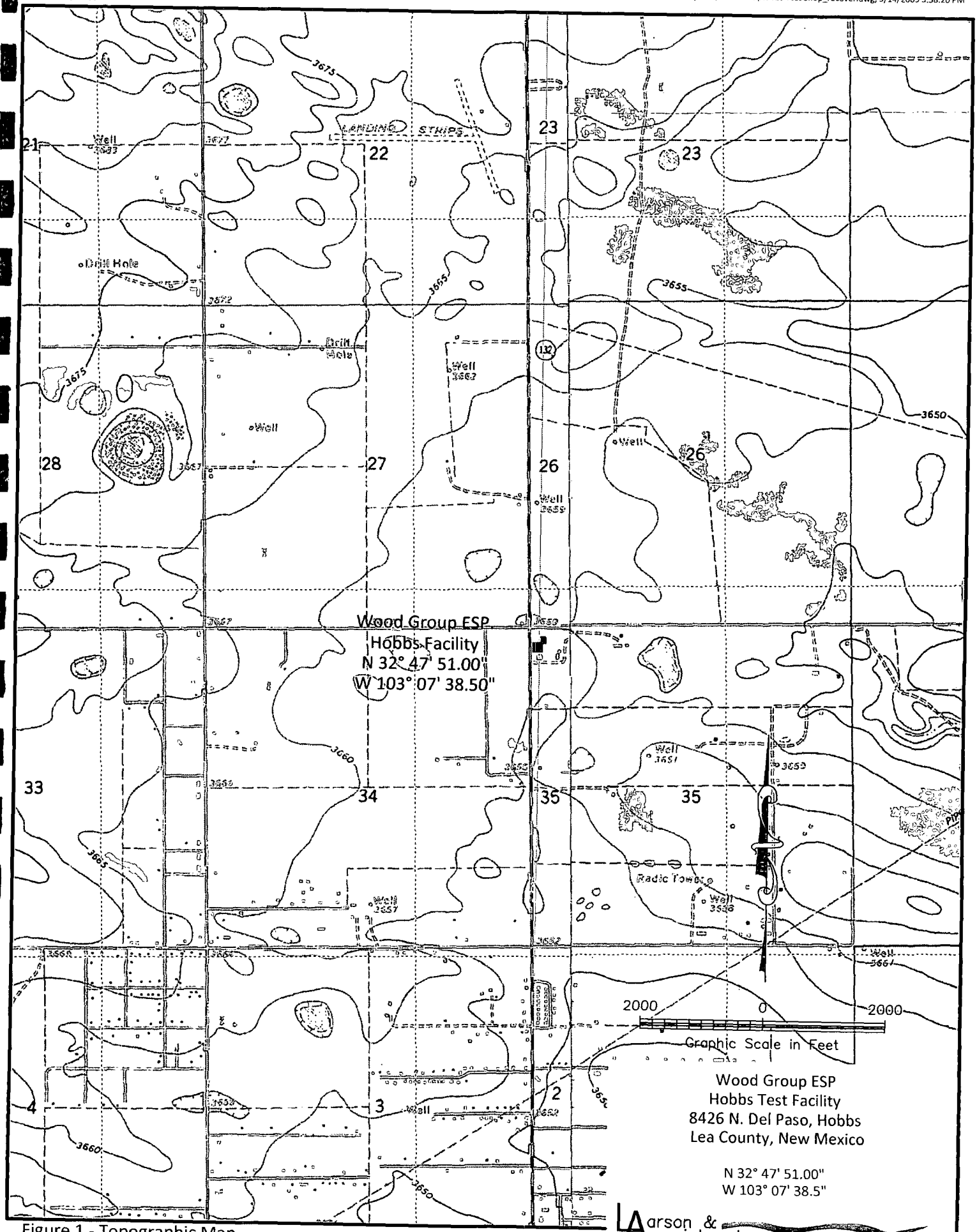
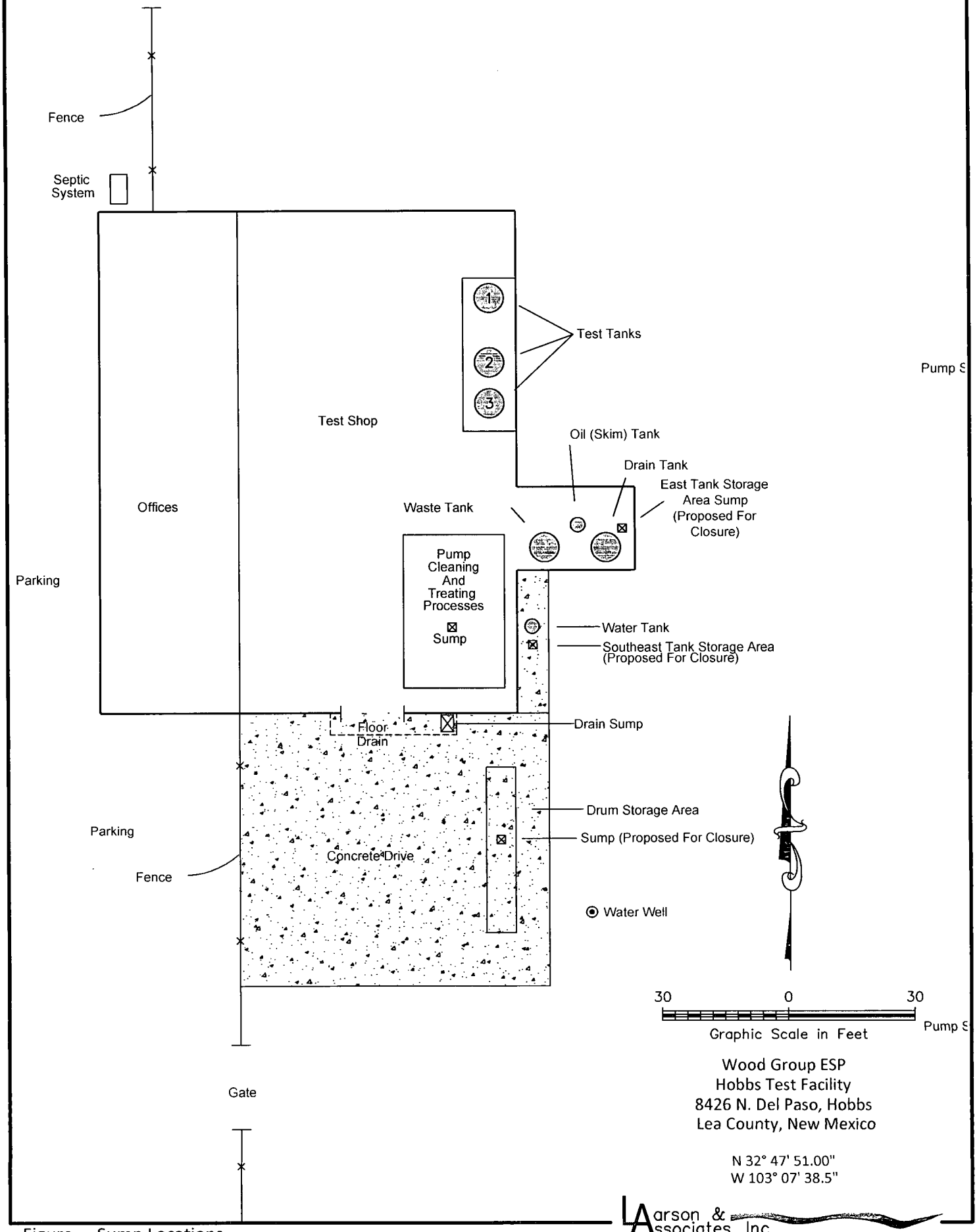


Wood Group ESP
Hobbs Test Facility
8426 N. Del Paso, Hobbs
Lea County, New Mexico

N 32° 47' 51.00"
W 103° 07' 38.5"

Larson & Associates, Inc.
Environmental Consultants

Figure 1 - Topographic Map



Wood Group ESP
Hobbs Test Facility
8426 N. Del Paso, Hobbs
Lea County, New Mexico

N 32° 47' 51.00"
W 103° 07' 38.5"

Figure - Sump Locations

Larson & Associates, Inc.
Environmental Consultants

Wood Group ESP, Hobbs, Containment Sump Hydrostatic Test Procedures:

1. Prior to conducting the test, any accumulated trash, debris, or product present must be removed from the containment sump and properly disposed.

2. Damaged containment sumps should not be tested, but should instead be noted in the test log and reported to the OCD by Mike Schornick, the Environmental Engineer for WGESP NAO.

3. Any ancillary equipment present inside the sump should be inspected for product leaks, and repaired prior to testing.

4. Fill the containment sump to just below the grate level.

5. Draw a straight line at the top of the water line using a paint marker. Allow the water to "settle" in the containment sump and record the time in the test log.

6. Cover the containment sump, using its lid or an alternative cover, and allow the containment sump to sit undisturbed for 24 hours.

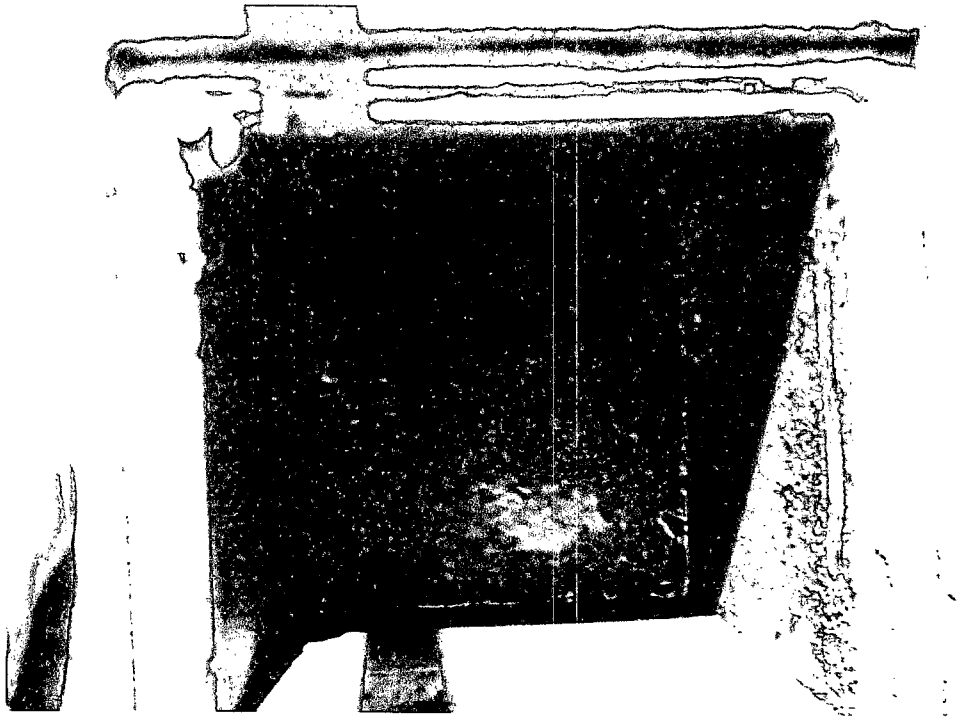
7. After the allotted time frame specified in #6 has elapsed, measure the height of the water level with a measuring device that is accurate to 1'16th of an inch. Measure from the water line to the line made in step #5. The test fails if the water level drops 1/8th of an inch or more.

8. Record the time, date, and test results in the test log.

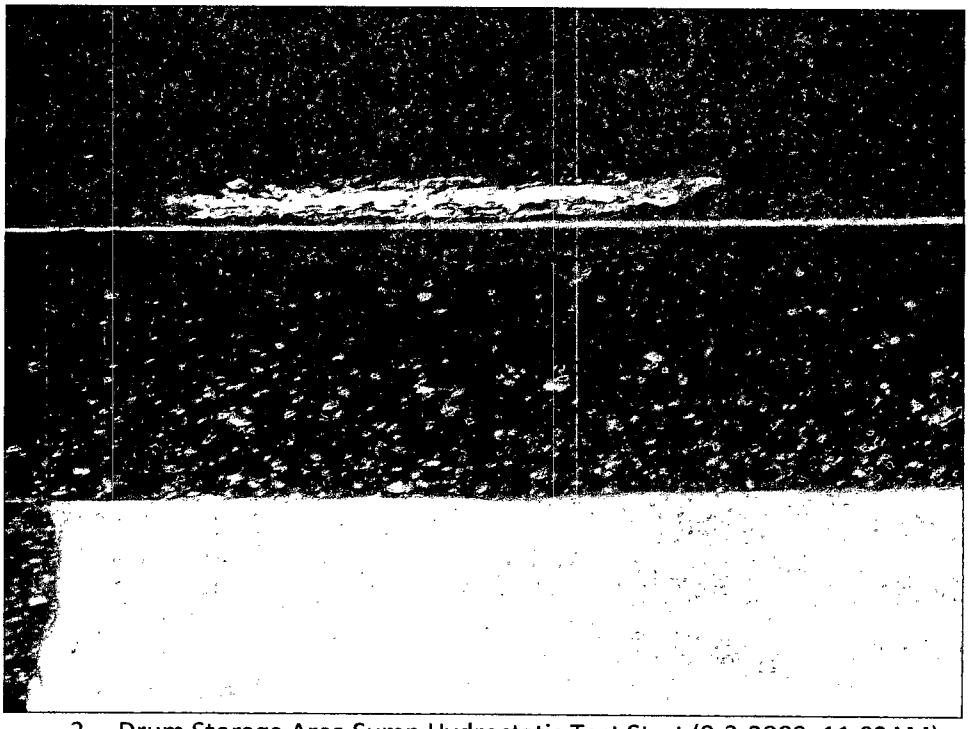
9. All water must be removed at the completion of the test. It may be re-used for testing purposes or must be properly disposed.

10. After fiberglass liners are removed, concrete containments will be hydro tested using this same procedure with the exception of allowing the water level to stabilize for 72-hours prior to starting the 24-hour timer. This will allow for saturation of the dry concrete in the outer sump.

Photographic Documentation

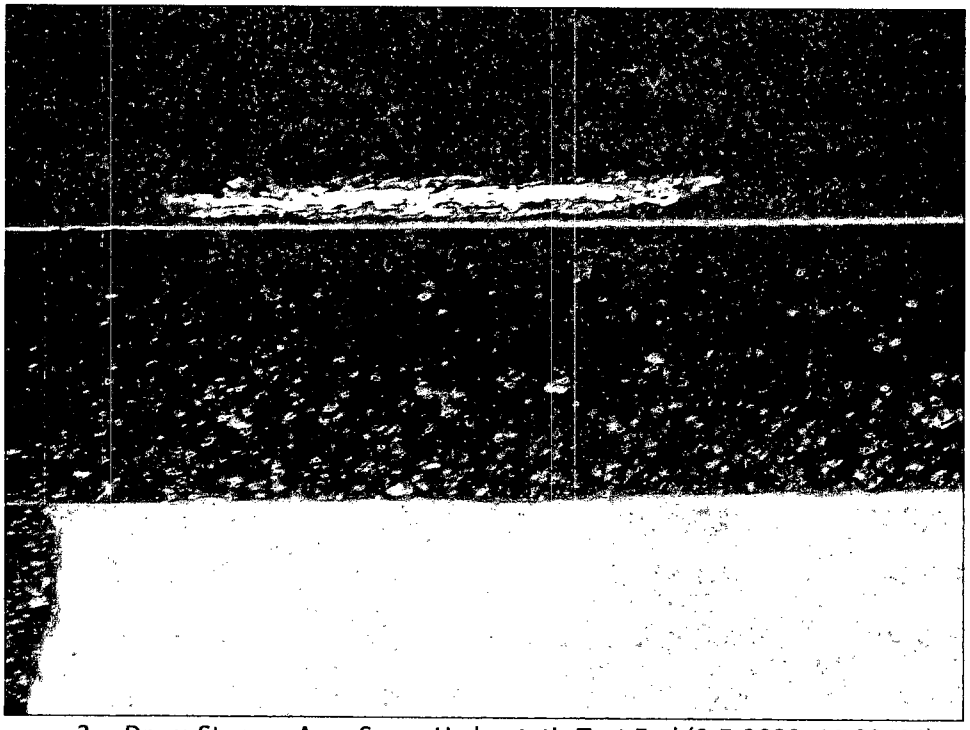


1. Drum Storage Area Sump After Cleaning

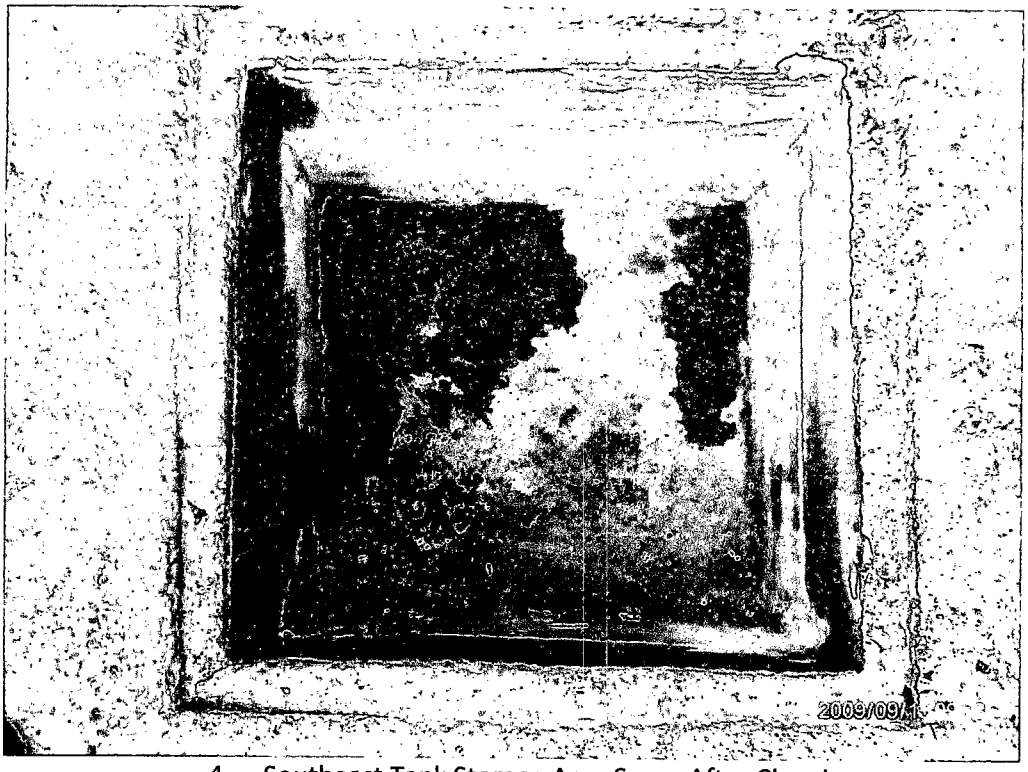


2. Drum Storage Area Sump Hydrostatic Test Start (9-3-2009, 11:02AM)

Photographic Documentation

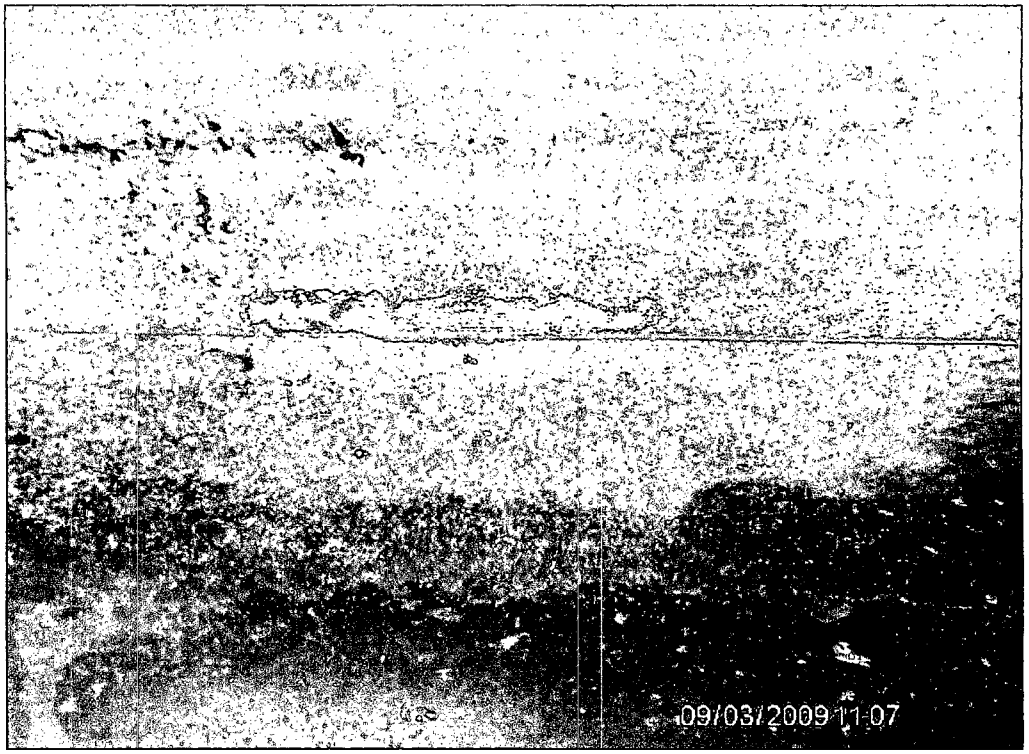


3. Drum Storage Area Sump Hydrostatic Test End (9-5-2009, 11:02AM)

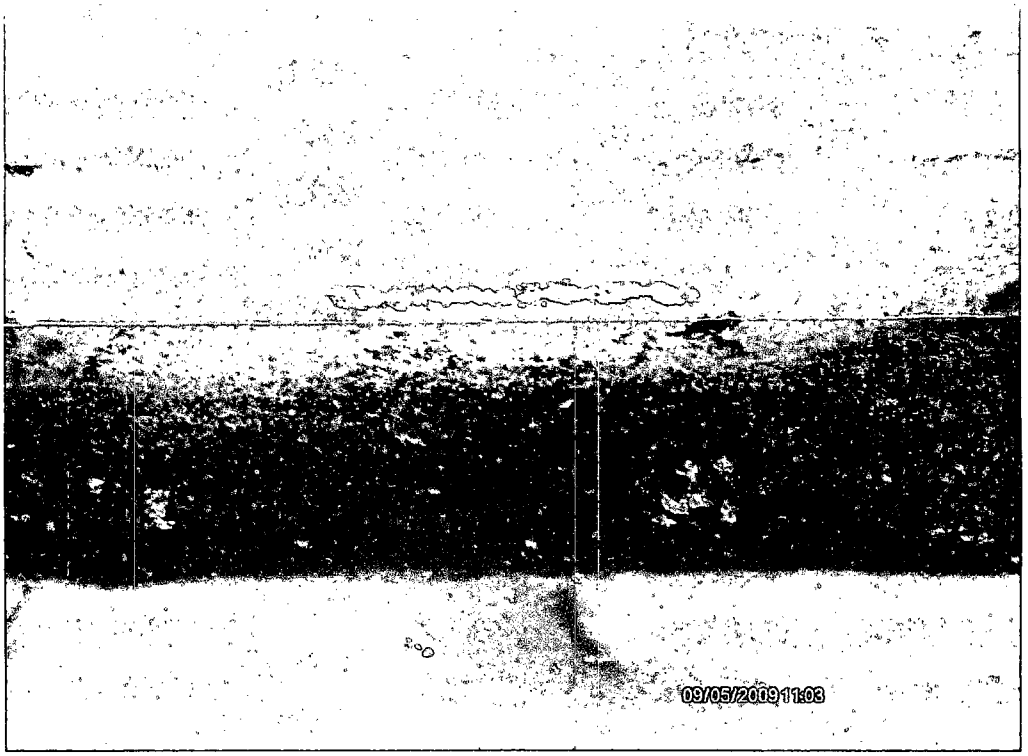


4. Southeast Tank Storage Area Sump After Cleaning

Photographic Documentation

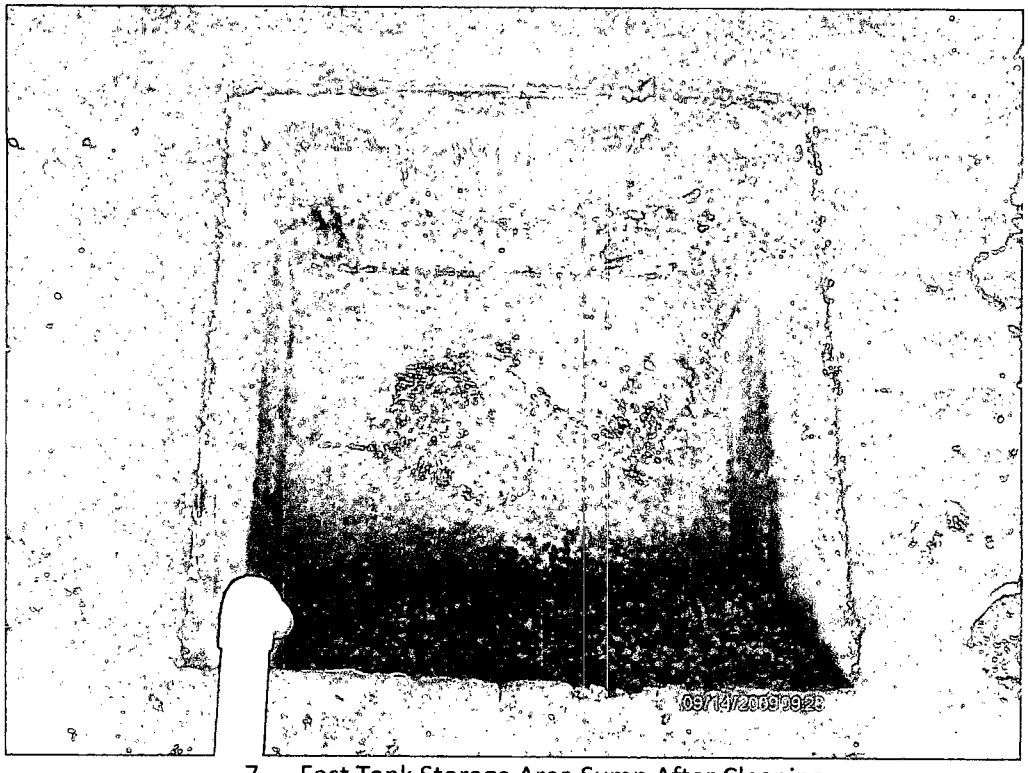


5. Southeast Tank Storage Area Sump Hydrostatic Test Start (9-3-2009, 11:07AM)

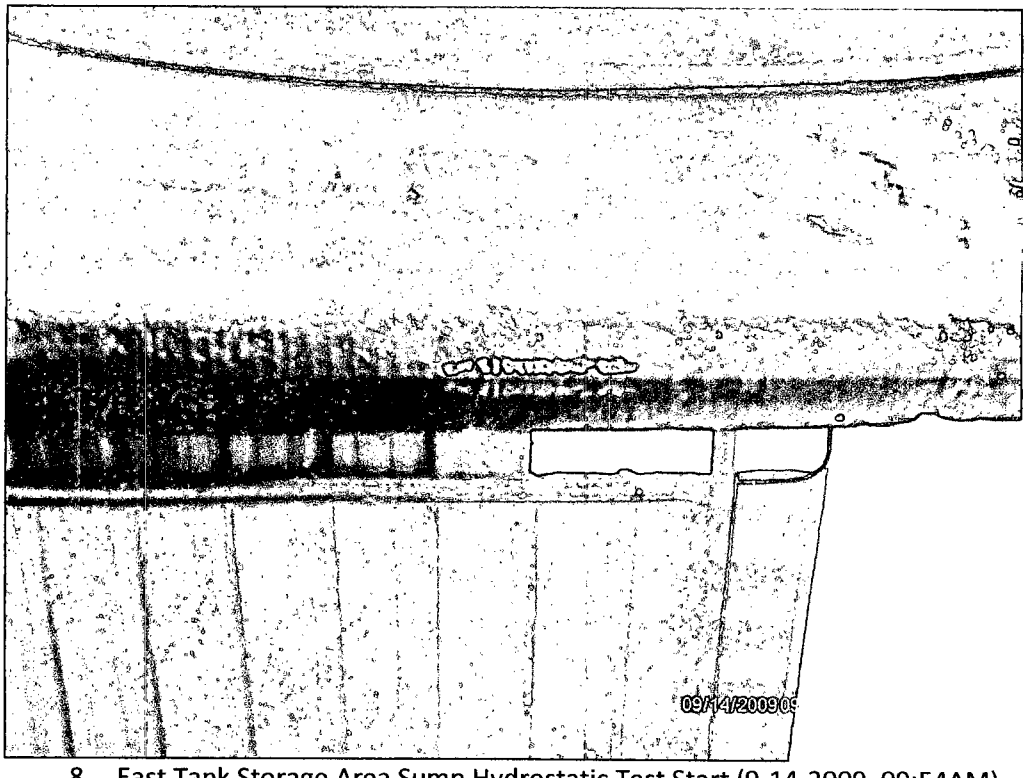


6. Southeast Tank Storage Area Sump Hydrostatic Test End (9-5-2009, 11:03AM)

Photographic Documentation

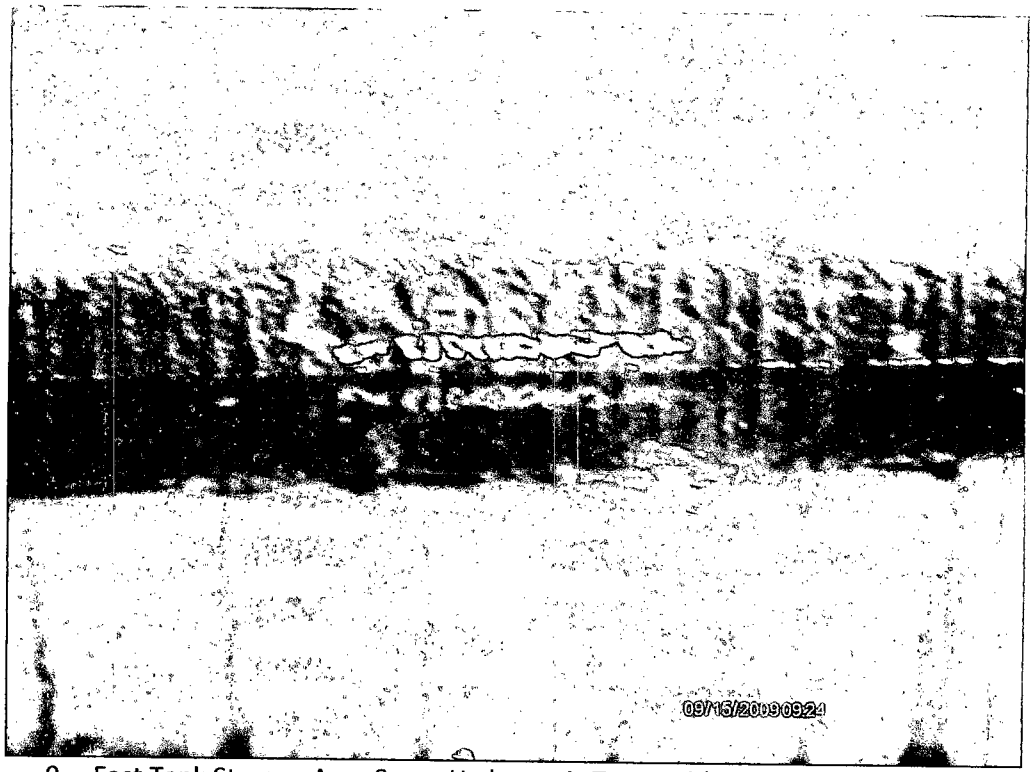


7. East Tank Storage Area Sump After Cleaning



8. East Tank Storage Area Sump Hydrostatic Test Start (9-14-2009, 09:54AM)

Photographic Documentation



9. East Tank Storage Area Sump Hydrostatic Test End (9-15-2009, 09:24AM)

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Wednesday, October 21, 2009 3:15 PM
To: 'Schornick, Mike'
Cc: 'Mark Larson'; 'Michelle Green'
Subject: GW-164 OCD response: release line closure

Mr. Schornick,

OCD has approved to fill the expose ditch for this release at the facility GW-164.

Notify OCD when work is completed as to either complete take the line out of service or replace it with an above ground line. Reflect changes on facility schematic.

Update the OCD once all work is completed toward this task.

Thank you for your attention.

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

WOOD GROUP ELECTRIC SUBMERSIBLE PUMPS , INC.
5500 SE 59th St., OKLAHOMA CITY, OK 73135

October 15, 2009

VIA EMAIL: Leonard.Lowe@state.nm.us

Mr. Leonard Lowe
State of New Mexico – Oil Conservation Division
1220 S St Francis Drive
Santa Fe, New Mexico 87505

RE: Transfer Line Investigation Report Transmittal
Wood Group ESP, Hobbs Test Shop (GW-164)
Unit Letter D (NW/4, NW/4), Section 35, T 17S, R 37E
Lea County, New Mexico

Dear Mr. Lowe:

The enclosed report was prepared by Larson and Associates, Inc., on behalf of Wood Group ESP, Inc, (WGESP) and is submitted to the State of New Mexico Oil Conservation Division by WGESP for documentation and approval. The report presents the results of investigative activities approved by OCD and associated with a line leak release from a subsurface transfer line at its Hobbs Test Facility. The facility is located at 8426 N. Dal Paso, in Hobbs, New Mexico.

This report concludes no significant release of contaminants occurred as a result of the transfer line release and no further investigation or response actions are required. WGESP requests permission to fill the exposed area with clean soil and repair the concrete pad to complete closure. Your concurrence with the findings and approval of final closure actions is requested.

If you have any questions or require additional information, please call me to discuss.

Sincerely,
Wood Group ESP, Inc.

Mike Schornick
Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road
Oklahoma City, Oklahoma 73135
(405) 671-2145 (office)
(405) 290-8523 (cell)

Attachments

CC Sam Baron – Wood Group
Rod Burrola – Wood Group
Michelle Green – Larson & Associates, Inc.

Transfer Line Release Investigation Report and Closure Request

Hobbs Test Facility
Unit D, Section 35, T17S, R38E
Lea County, New Mexico

Discharge Permit GW-164

LAI Project No. 8-0113-04

October 15, 2009

Prepared for:
Wood Group ESP
6205 Sooner Road
Oklahoma City, Oklahoma 73135

Prepared by:
Larson & Associates, Inc.
507 North Marienfeld, Suite 200
Midland, Texas 79701

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Executive Summary

This report was prepared by Larson & Associates, Inc. (LAI) and is submitted to the State of New Mexico Oil Conservation Division (OCD) on behalf of Wood Group ESP, Inc. (WGESP) to present the analytical laboratory results of soil samples from borings installed at referenced transfer line release and the findings.

Based upon the results of the investigation, which are documented herein, it is concluded that no significant release of contaminants occurred to the environmental media at the facility and no further response action is required. WGESP requests no further action from the OCD and permission to perform final closure actions which includes filling the exposed line with clean soil and concrete. Your concurrence and approval of this request is appreciated.

Wood Group's contact for environmental concerns is:

Mr. Mike Schornick – Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road
Oklahoma City, Oklahoma 73135
Office – 405.671.2145, Cell – 405.290.8523
Email – mike.schornick@woodgroup.com

Release Information

On June 11, 2009, WGESP personnel tested the transfer line using pressurized air to approximately 3 pounds per square inch (psi) above the operating pressure. The pressure test failed. On June 15, 2009, WGESP personnel exposed the line to identify a release (i.e., stained or wet soil, odor, etc.). The line was excavated up to a concrete containment for a wastewater tank where it was no longer accessible. Soil was visibly moist with some staining where the transfer line intersected the concrete containment en route to the waste water tank. A hole in the line was observed at this point suggesting that this was the failure point. The observation indicated that a release of an undetermined amount had occurred. WGESP notified OCD of the release and subsequently, OCD requested an investigation be performed. An investigation plan was submitted and approved by the OCD.

The transfer line conveys liquid, predominantly rain or storm water, from a sump in the covered drum storage area containment to an above ground non-hazardous waste water tank. The tank water is picked up by a commercial water hauler and transferred for disposal at an OCD approved Class II commercial disposal well. The transfer line was constructed of ¾-inch diameter galvanized steel and will be routed above-ground or taken entirely out of service.

Figure 1 presents the topographic map. Figure 2 presents the facility drawing figure showing the location of the drum storage area, approximate location of the transfer line, location of the line failure and boring locations.

Soil Investigation

On July 10, 2009, as per OCD's request, WGESP submitted a work plan and initial form C-141 (*Release Notification*) that proposed collecting soil samples to approximately twelve (12) feet below ground surface (bgs) or refusal due to caliche, to assess the soil for a release. The boring was proposed at a location where moist conditions and staining were observed adjacent to the concrete containment. The OCD approved the work plan on August 6, 2009. Appendix A presents the COD approval correspondence.

On August 7, 2009, LAI notified OCD representatives Messrs. Leonard Lowe and Geoffrey Leking of its intent to perform a soil boring investigation.

On August 11, 2009, LAI chemist Ms. Michelle Green and technician Don McGinnis installed the soil boring (LSB-1) using Terraprobe® direct-push sampling methods near the concrete containment. Boring LSB-1 was terminated at approximately 6.5 feet bgs due to refusal from caliche. A second boring (LSB-2) was also installed about 44 inches south of LSB-1 where WGESP personnel observed additional moist or stained soil after the initial plan was submitted and approved. Boring LSB-2 was terminated at 6.5 feet bgs due to refusal from caliche. Soil samples were collected at various depth intervals, with aliquots divided for photoionization detector (PID) headspace analysis and quantitation laboratory analyses.

The headspace portion of the samples were field analyzed with a Thermo Electron Instruments model 580B linearly calibrated at 0 parts per million (ppm) filtered air and 250 ppm with certified isobutylene span gas. Samples exhibited ionized vapor concentrations less than or equal to 1 ppm, indicating no significant hydrocarbons to likely be present in the release area.

All laboratory samples were placed in an ice chest, and delivered under chain of custody control to DHL Analytical, located in Round Rock, Texas for testing in accordance with the approved plan. Selected samples, according to the approved plan, from each boring were analyzed for New Mexico Water Quality Control Commission (WQCC) constituents (NMAC 20.6.2.3103(A)) excluding nitrate, uranium, radium 226, and radium 228 as per approved sampling plan. The remaining samples were placed on hold pending the initial analyses. However, it was determined that further sample analysis would not be needed since the sample results found no detectable or significant contaminants present. Table 1 presents a summary of the laboratory analysis of soil samples from borings LSB-1 and LSB-2. Appendix B presents the laboratory report. Appendix C presents photographs.

Referring to Table 1, tetrachloroethene, the only volatile organic compound (VOC), was detected in soil sample LSB-2 (4-5'), at 0.00123 milligrams per kilogram (mg/Kg). Acenaphthylene (0.0137 mg/Kg), benzo(b)fluoranthene (0.0416 mg/Kg), benzo(g,h,i)perylene (0.0236 mg/Kg), and fluoranthene (0.206 mg/Kg), the only semi-volatile organic compounds (SVOC), were detected in sample LSB-1 (18-24") bgs. No polychlorinated biphenyls (PCB) were detected in the samples and metals were detected in varying concentrations consistent with expected anthropogenic background values.

Most importantly, the VOC, SVOC, and metal concentrations were well below the industrial and occupational soil screening levels (SSL) established by the New Mexico Environment Department which are presented in the document titled *"Technical Background Document for Development of Soil*

Screening Levels, Revision 4, June 2006". Accordingly, there was no significant release necessitating further action. Appendix D presents the initial and final C-141.

Conclusions

Based upon the results of the investigation, it was determined that no significant release of contaminants occurred, thus no further clean-up action is required. WGESP requests permission to fill the exposed ditch and patch the concrete to complete closure. The transfer line is no longer in service and if replaced, will be installed above grade. Your concurrence and approval is requested.

Table 1
Summary of Soil Analytical Results
Wood Group ESP - Hobbs Test Shop
GW-164
Hobbs, New Mexico
Project 8-0113-04

Volatile Organic Compounds	Reporting Units	NMED Screening Levels	LSB-1 (18-24") 8/11/09	LSB-1 (4-5') 8/11/09	LSB-2 (4-5') 8/11/09
1,1,1-Trichloroethane	mg/Kg	563	<0.00104	<0.00107	<0.00109
1,1,2,2-Tetrachloroethane	mg/Kg	14.6	<0.00104	<0.00107	<0.00109
1,1,2-Trichloroethane	mg/Kg	30.2	<0.00104	<0.00107	<0.00109
1,1-Dichloroethane	mg/Kg	1,420	<0.00104	<0.00107	<0.00109
1,1-Dichloroethene	mg/Kg	777	<0.00104	<0.00107	<0.00109
1,2-Dichloroethane	mg/Kg	15.2	<0.00104	<0.00107	<0.00109
Benzene	mg/Kg	25.8	<0.00104	<0.00107	<0.00109
Carbon tetrachloride	mg/Kg	8.64	<0.00104	<0.00107	<0.00109
Chloroform	mg/Kg	9.59	<0.00104	<0.00107	<0.00109
Ethylbenzene	mg/Kg	128	<0.00104	<0.00107	<0.00109
Ethylene dibromide	mg/Kg	1.31	<0.00104	<0.00107	<0.00109
Methylene chloride	mg/Kg	490	<0.00521	<0.00537	<0.00544
Tetrachloroethene	mg/Kg	31.6	<0.00104	<0.00107	**0.00123**
Toluene	mg/Kg	252	<0.00104	<0.00107	<0.00109
Total Xylenes	mg/Kg	82	<0.00104	<0.00107	<0.00109
Trichloroethene	mg/Kg	1.56	<0.00104	<0.00107	<0.00109
Vinyl chloride	mg/Kg	14	<0.00104	<0.00107	<0.00109
Semi-volatile Organic Compounds					
1-Methylnaphthalene	mg/Kg	--	<0.011	<0.0106	<0.0103
2-Methylnaphthalene	mg/Kg	--	<0.0219	<0.0213	<0.0206
Acenaphthene	mg/Kg	33,500	<0.0219	<0.0213	<0.0206
Acenaphthylene	mg/Kg	--	**0.0137**	<0.0106	<0.0103
Anthracene	mg/Kg	10,000	<0.011	<0.0106	<0.0103
Benzo[a]anthracene	mg/Kg	23.4	<0.0219	<0.0213	<0.0206
Benzo[a]pyrene	mg/Kg	2.34	<0.0329	<0.0319	<0.0309
Benzo[b]fluoranthene	mg/Kg	23.4	**0.0416**	<0.0213	<0.0206
Benzo[g,h,i]perylene	mg/Kg	--	**0.0236**	<0.0213	<0.0206
Benzo[k]fluoranthene	mg/Kg	234	<0.0329	<0.0319	<0.0309
Chrysene	mg/Kg	2,310	<0.0219	<0.0213	<0.0206
Dibenz[a,h]anthracene	mg/Kg	2.34	<0.0219	<0.0213	<0.0206
Fluoranthene	mg/Kg	24,400	**0.0206**	<0.0106	<0.0103
Fluorene	mg/Kg	26,500	<0.011	<0.0106	<0.0103
Indeno[1,2,3-cd]pyrene	mg/Kg	23.4	<0.011	<0.0106	<0.0103
Naphthalene	mg/Kg	300	<0.011	<0.0106	<0.0103
Phenanthrene	mg/Kg	20,500	<0.011	<0.0106	<0.0103
Pyrene	mg/Kg	30,900	<0.0219	<0.0213	<0.0206
Polychlorinated Biphenyls					
Aroclor 1016	mg/Kg	41.3	<0.0566	<0.055	<0.0543
Aroclor 1221	mg/Kg	8.26	<0.0566	<0.055	<0.0543
Aroclor 1232	mg/Kg	8.26	<0.0566	<0.055	<0.0543
Aroclor 1242	mg/Kg	8.26	<0.0566	<0.055	<0.0543
Aroclor 1248	mg/Kg	8.26	<0.0566	<0.055	<0.0543
Aroclor 1254	mg/Kg	8.26	<0.0566	<0.055	<0.0543
Aroclor 1260	mg/Kg	8.26	<0.0566	<0.055	<0.0543

Table 1
Summary of Soil Analytical Results
Wood Group ESP - Hobbs Test Shop
GW-164
Hobbs, New Mexico
Project 8-0113-04

Trace Metals	Reporting Units	NMED Screening Levels	LSB-1 (18-24") 8/11/09	LSB-1 (4-5') 8/11/09	LSB-2 (4-5') 8/11/09
Arsenic	mg/Kg	17.7	**5.43**	**3.52**	**4.59**
Barium	mg/Kg	100,000	**130**	**97.7**	**74.0**
Cadmium	mg/Kg	564	**1.20**	**0.179**	**0.249**
Chromium	mg/Kg	100,000	**24.8**	**9.27**	**11.3**
Lead	mg/Kg	800	**51.9**	**5.93**	**14.0**
Selenium	mg/Kg	5680	**0.838**	**1.01**	**1.40**
Silver	mg/Kg	5680	**0.126**	<0.105	<0.102
Mercury	mg/Kg	100,000	**0.0820**	<0.0152	0.0207
Inorganic Compounds					
Fluoride	mg/Kg	41,000	**3.71**	**7.86**	**3.47**
Cyanide, Total	mg/Kg	13,700	<0.225	<0.218	<0.218

Notes

Analyses performed by DHL Analytical, Inc., Round Rock, Texas

All values reported in Milligrams per kilogram (mg/Kg, parts per million).

JWW

Y:\PROJECTS\WOODGROUP\HOBBS FACILITY\2009 Projects\8-0113-04\Hobbs Test Shop_recover.dwg, 9/15/2009 2:44:45 PM

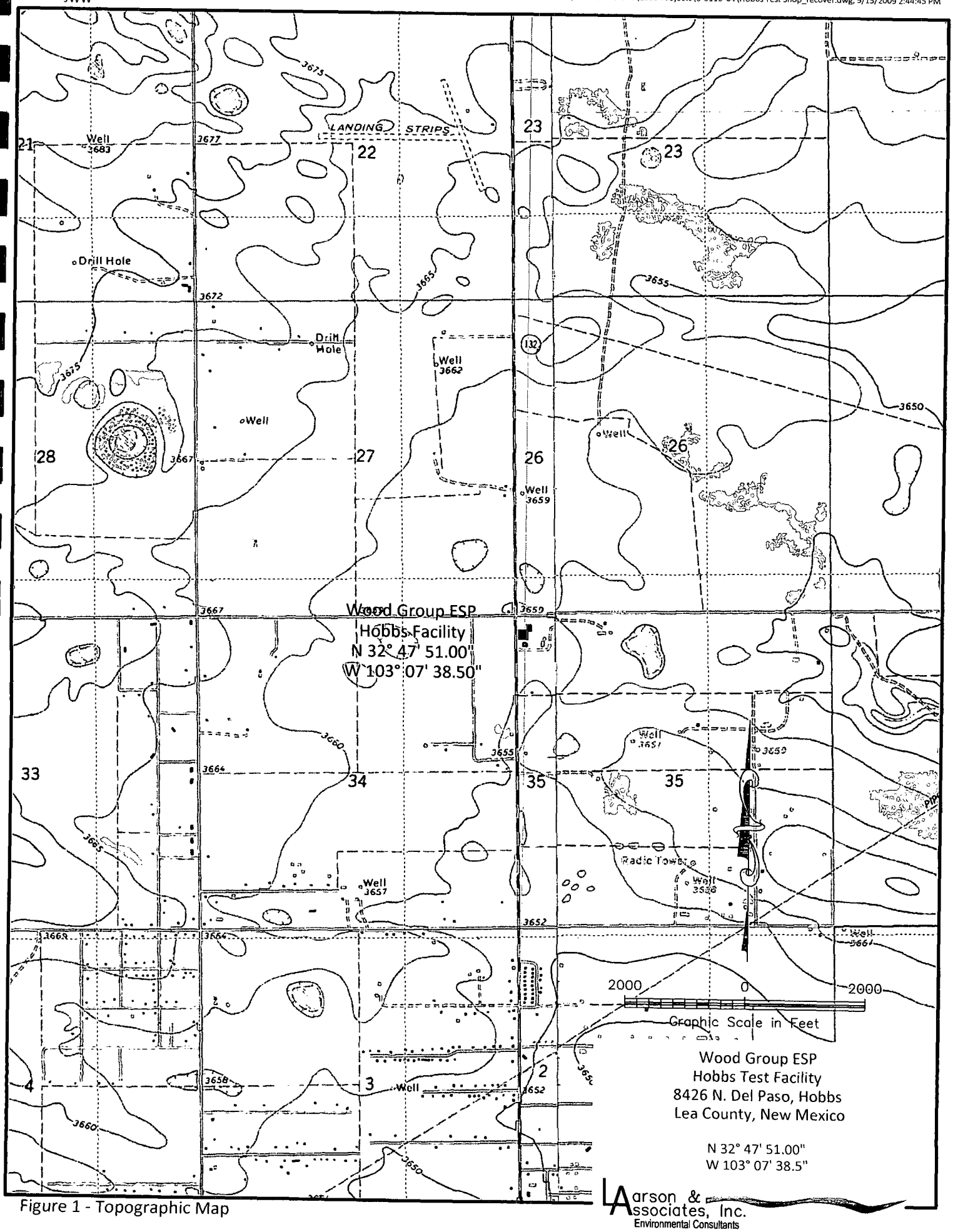
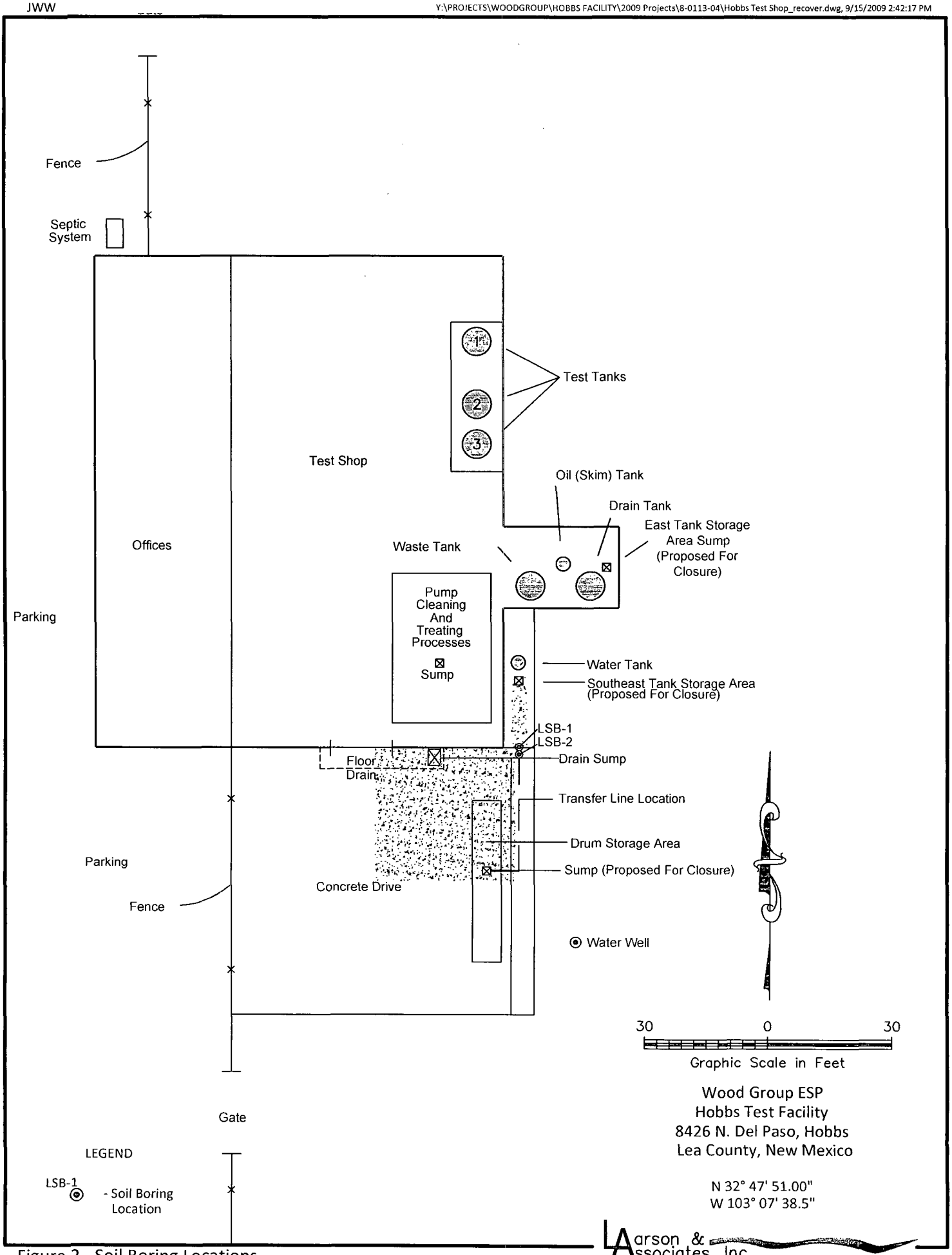


Figure 1 - Topographic Map



Wood Group ESP
Hobbs Test Facility
8426 N. Del Paso, Hobbs
Lea County, New Mexico

N 32° 47' 51.00"
W 103° 07' 38.5"

Figure 2 - Soil Boring Locations

Larson & Associates, Inc.
Environmental Consultants

Mark Larson

From: Schornick, Mike [Mike.Schornick@woodgroup.com]
Sent: Thursday, August 06, 2009 3:01 PM
To: Mark Larson; Baron, Sam; Michelle Green
Subject: Fw: Wood Group ESP, Inc. Hobbs Test Facility (GW-164) Cover Letter, Release Notification (C-141) and Sampling Plan

---

From: Lowe, Leonard, EMNRD
To: Schornick, Mike
Sent: Thu Aug 06 14:56:09 2009
Subject: RE: Wood Group ESP, Inc. Hobbs Test Facility (GW-164) Cover Letter, Release Notification (C-141) and Sampling Plan
Mr. Schornick,

The OCD approves your submitted work plan.

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Schornick, Mike [mailto:Mike.Schornick@woodgroup.com]
Sent: Thursday, July 16, 2009 1:41 PM
To: Lowe, Leonard, EMNRD
Cc: VonGonten, Glenn, EMNRD; Baron, Sam; Mark Larson
Subject: Wood Group ESP, Inc. Hobbs Test Facility (GW-164) Cover Letter, Release Notification (C-141) and Sampling Plan
Importance: High

Mr. Lowe:

Pursuant to your request, attached please find my cover letter, Form C-141, and Sampling Plan in regards to the WGESP Hobbs Test Facility.

Please note in Item 3 of the Sampling and Analysis Plan that our consultant has recommended an extensive list of constituents be evaluated based on review of the materials which could have been historically present in the area of concern. We feel this is a conservative list and will more than include all possible or potential constituents of concern.

With your concurrence, we are prepared to initiate the investigation next week. I plan to send the original version of the attachments to you and the district office via overnight mail today.

Please let me know if you have questions or require modifications.

Sincerely,

Mike Schornick, P.E.
Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road

Oklahoma City, Oklahoma 73135
(405) 671-2145 (office)
(405) 290-8523 (cell)

DHL ANALYTICAL

August 21, 2009

Michelle Green
Larson & Associates
507 N. Marienfeld #200
Midland, TX 79701

TEL: (432) 687-0901
FAX: (432) 687-0456

Order No: 0908100

RE: Hobbs Test Shop

Dear Michelle Green:

DHL Analytical received 14 sample(s) on 8/12/2009 for the analyses presented in the following report.

There were no problems with the analyses and all data met requirements of NELAC except where noted in the Case Narrative. All non-NELAC methods will be identified accordingly in the case narrative and all estimated uncertainties of test results are within method or EPA specifications.

If you have any questions regarding these tests results, please feel free to call. Thank you for using DHL Analytical.

Sincerely,

John DuPont
Lab Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-09-TX

ACCREDITED IN ACCORDANCE WITH nelac

Table of Contents

DHL ANALYTICAL

2300 Double Creek Drive • Round Rock, TX 78664
Phone (512) 388-8222 • FAX (512) 388-8229

№ 41434

CHAIN-OF-CUSTODY

CLIENT: Jacobs & Associates
ADDRESS:
PHONE: FAX
DATA REPORTED TO: Bill Wood & Group directly
ADDITIONAL REPORT COPIES TO:

DATE: 8-11-09 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 0909100
PROJECT LOCATION OR NAME: Hobbs Fuel Shop
CLIENT PROJECT #: 8-0113-09 COLLECTOR: DMV MC

Authorize 5% surcharge for TRRP report? ☐ Yes ☒ No

S=SOIL W=WATER A=AIR P=PAINT SL=SLUDGE OT=OTHER

Field Sample I.D.	DHL Lab #	Date	Time (MST)	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: BTEX ☐ MTBE ☐ / TRPH 418.1 ☐ / TPH 1005 ☐ TPH 1006 ☐ / GASOLINE MOD 8015 ☐ / DIESEL - MOD 8015 ☐ / VOC 8260 / SVOC 8270 / PAH 8270 / HOLDPAH ☐ / 8081 PESTICIDES ☐ 8151 HERBICIDES ☐ / 8082 PCBS / TCLP - METALS (RCRA) ☐ TCLP VOC ☐ / TCLP - PEST ☐ HERB ☐ Semi-VOC ☐ / TOTAL METALS (RCRA) / OTHER LIST / LEAD - TOTAL ☐ D.W. 200.8 ☐ TCLP ☐ / RCI ☐ TOX ☐ FLASHPOINT ☐ / TDS ☐ TSS ☐ % MOISTURE / CYANIDE / pH ☐ HEXAVALENT CHROMIUM ☐ / EXPLOSIVES ☐ PECHLORATE ☐ / CHLORIDE ☐ ANIONS / ALKALINITY ☐ / CN, Fluoride	FIELD NOTES
LSB-1 (14-18")	01	8-11-09	10:24	S		1				Y	Y	X X X Y X	Call MA for info
LSB-1 (18-24")	02		10:28			2						X X X Y X	per Michelle 8/12/09 @ 0830
LSB-1 (24-32")	03		10:26			2							
LSB-1 (32-42")	04		10:30			2							
LSB-1 (4-5')	05		11:18			2						X X X X X X	
LSB-1 (5-6')	06		11:20			2							⊗=Add voc, PCB, Cal, Fluoride, DCRA Metals, PAH, Phenol Rel
LSB-1 (6-6.5')	07		11:18			1							
LSB-2 (7"-1.5')	08		12:59			2							
LSB-2 (1.5-2.5')	09		1:06			2						⊗ ⊗ ⊗ ⊗ ⊗ ⊗	M. Green 8/13/09 (W)
LSB-2 (2.5-4')	10		1:08			2							
LSB-2 (4-5')	11		1:19			2							
LSB-2 (5-6')	12		1:22			2							
LSB-2 (6-7')	13		1:23			2							
LSB-2 (7-8')	14		1:27			2							

TOTAL

RELINQUISHED BY: (Signature) — DATE/TIME: 8/11/09 1:38 — RECEIVED BY: (Signature) LSO
RELINQUISHED BY: (Signature) LSO — DATE/TIME: 8/12/9 0830 — RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) — DATE/TIME — RECEIVED BY: (Signature)

☐ DHL DISPOSAL @ $5.00 each ☐ Return

TURN AROUND TIME
RUSH ☐ CALL FIRST
1 DAY ☐ CALL FIRST
2 DAY ☐
NORMAL ☒
OTHER ☐ ____

LABORATORY USE ONLY:
RECEIVING TEMP: 3.8 THERM #: S7
CUSTODY SEALS - ☐ BROKEN ☐ INTACT ☐ NOT USED
☐ CARRIER BILL # LSO
☐ APC DELIVERY
☐ HAND DELIVERED

2B

Lone Star Overnight

WWW.LSO.COM
Questions? Call 800-800-8984

Airbill No. 43387778

43387778

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1. To:

Print Name (Person):
Phone (Important):
Company Name: DHL Analytical
Street Address (No P.O. Box or P.O. Box/Zip Code Deliveries): 2300 Double Creek Dr
Suite / Floor:
City: Round Rock State: TX Zip: 78664

2. From:

Print Name (Person): [illegible]
Phone (Important): [illegible]
Company Name: LARSON & ASSOCIATES INC.
Street Address: 507 N. [illegible]
Suite / Floor: 200
City: MIDLAND State: [illegible] Zip: [illegible]

3. Service:

- ☒ By 10:30am Delivery (Noon to select zip codes.)
- ☐ By 8:30am Delivery (Most Cities) (Extra Charge, No Signature Obtained)
- ☐ Saturday Delivery - By 12 Noon (Extra Charge)
- ☐ Other ________

AOS

☐ Deliver Without Delivery Signature (See Limits of Liability below)

Release Signature

L____ x W____ x H____

4. Package:

Weight: 30

Your Company's Billing Reference Information: 8-0113-04

Ship Date: (mm/dd/yy) 8 11 09

5. Payment:

FOR COURIER USE ONLY

Courier Number: 3333
Pick-up Location: 111
Date: 8/11
Time: 1830
City Code:

LIMIT OF LIABILITY: We are not responsible for claims in excess of $100 for any reason unless you: 1) declare a greater value (not to exceed $25,000); 2) pay an additional fee; 3) and document your actual loss in a timely manner. We will not pay any claim in excess of the actual loss. We are not liable for any special or consequential damages. Additional limitations of liability are contained in our current Service Guide. If you ask us to deliver a package without obtaining a delivery signature, you release us of all liability for claims resulting from such service. NO DELIVERY SIGNATURE WILL BE OBTAINED FOR 8:30 AM DELIVERIES AND RESIDENTIAL DELIVERIES. DELIVERY COMMITMENTS MAY VARY. ADDITIONAL FEES MAY APPLY.

CUSTODY SEAL
DATE: 8-11-09
SIGNATURE: [illegible]

QEC
Quality Environmental Containers
800-255-3950 • 304-255-3900

DHL Analytical

Sample Receipt Checklist

Client Name Larson & Associates | Date Received: 8/12/2009

Work Order Number 0908100 | Received by SCS

Checklist completed by: [signature] 8/12/09 (Signature / Date) | Reviewed by SS 8/12/9 (Initials / Date)

Carrier name: LoneStar

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	3.8 °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Adjusted? _____ Checked by _____

Any No response must be detailed in the comments section below.

Client contacted Larson Date contacted: 8-12-09 Person contacted Michelle

Contacted by: [signature] Regarding: LSB-1 (14-18") & LSB-1 (18-24")

Comments: Per Michelle hold sample LSB-1 (14-18") and analyze LSB-1 (18-24") for requested analysis.

Corrective Action Logged in for requested analysis.

DHL Analytical Date: 08/21/09

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Lab Order: 0908100

CASE NARRATIVE

Sample was analyzed using the methods outlined in the following references:

Method SW8260B - Volatile Organics
Method SW8270C - PAH Analysis
Method SW6020 - Metals Analysis
Method SW7471A - Mercury Analysis
Method SW8082 - PCB Analysis
Method M4500-CN E (18th Edition) - Cyanide Analysis
Method E300 - Anions Analysis
Method D2216 - Percent Moisture

LOG IN

Samples were received and log-in performed on 8/12/09. A total of 14 samples were received. The time of collection was Mountain Standard Time. Sample LSB-1 (14-18") was put on Hold and sample LSB-1 (18-24") was analyzed for the requested test parameter as per the client. The samples arrived in good condition and were properly packaged.

METALS ANALYSIS

For Metals analysis performed on 8/17/09 the matrix spike and matrix spike duplicate recoveries were out of control limits for a few analytes. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was not from this work order. The LCS was within control limits for these analytes. No further corrective actions were taken.

For Metals analysis performed on 8/18/09 the RPD for the serial dilution was slightly above control limits for Chromium and Selenium. These are flagged accordingly in the QC summary report. The PDS was within control limits for these analytes. No further corrective actions were taken.

SEMIVOLATILES ANALYSIS

For Semivolatiles analysis performed on 8/13/09 the matrix spike recovery was slightly below control limits for Fluorene. In addition, the matrix spike and matrix spike duplicate had the RPD slightly above control limits for Fluorene. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits for these compounds. No further corrective actions were taken.

CYANIDE ANALYSIS

For Cyanide analysis performed on 8/14/09 the matrix spike and matrix spike duplicate recoveries were slightly above control limits. These are flagged accordingly in the QC summary report. The reference sample selected for the matrix spike and matrix spike duplicate was from this work order. The LCS was within control limits. No further corrective actions were taken.

VOLATILE ORGANICS

For Volatiles analysis performed on 8/13/09 the surrogate recoveries for sample LSB-1 (4-5'), the matrix

spike and matrix spike duplicate were slightly above control limits for 1,2-Dichloroethane. These are flagged accordingly. No further corrective actions were taken.

PCB ANALYSIS

For PCB analysis performed on 8/18/09 and 8/19/09 the surrogate recoveries for sample LSB-2 (1.5-2.5'), the LCS and matrix spike duplicate were slightly above control limits for Decachlorobiphenyl. These are flagged accordingly. No further corrective actions were taken.

For PCB analysis performed on 8/18/09 CCV2 was slightly above control limits for Aroclor 1260. This is flagged accordingly in the QC summary report. No further corrective actions were taken.

DHL Analytical

Date: 08/21/09

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Lab Order: 0908100

Work Order Sample Summary

Lab Smp ID	Client Sample ID	Tag Number	Date Collected	Date Recv'd
0908100-01	LSB-1 (14-18")		08/11/09 10:24 AM	08/12/09
0908100-02	LSB-1 (18-24")		08/11/09 10:28 AM	08/12/09
0908100-03	LSB-1 (24-32")		08/11/09 10:26 AM	08/12/09
0908100-04	LSB-1 (32-42")		08/11/09 10:30 AM	08/12/09
0908100-05	LSB-1 (4-5')		08/11/09 11:18 AM	08/12/09
0908100-06	LSB-1 (5-6')		08/11/09 11:20 AM	08/12/09
0908100-07	LSB-1 (6-6.5')		08/11/09 11:18 AM	08/12/09
0908100-08	LSB-2 (7"-1.5')		08/11/09 12:59 PM	08/12/09
0908100-09	LSB-2 (1.5-2.5')		08/11/09 01:06 PM	08/12/09
0908100-10	LSB-2 (2.5-4')		08/11/09 01:08 PM	08/12/09
0908100-11	LSB-2 (4-5')		08/11/09 01:19 PM	08/12/09
0908100-12	LSB-2 (5-6')		08/11/09 01:22 PM	08/12/09
0908100-13	LSB-2 (6-7')		08/11/09 01:23 PM	08/12/09
0908100-14	LSB-2 (7-8')		08/11/09 01:27 PM	08/12/09

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Lab Order: 0908100

PREP DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Number	Test Name	Prep Date	Batch ID
0908100-02A	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW5030B	Purge and Trap Soils GC/MS	08/13/09 09:29 AM	36525
0908100-02B	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW3550B	Soil Prep Sonication: PCB	08/18/09 02:01 PM	36630
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW9010	Cyanide Soil Prep	08/14/09 11:54 AM	36551
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	E300	Anion Prep	08/12/09 09:13 AM	36486
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW7471A	Mercury Soil Prep, Total	08/13/09 12:00 PM	36503
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	08/13/09 09:00 AM	36495
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	SW3550B	Soil Prep Sonication: PAH	08/12/09 02:47 PM	36499
	LSB-1 (18-24")	08/11/09 10:28 AM	Soil	D2216	Moisture Preparation	08/17/09 11:20 AM	36580
0908100-05A	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW5030B	Purge and Trap Soils GC/MS	08/13/09 09:29 AM	36525
0908100-05B	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW3550B	Soil Prep Sonication: PCB	08/18/09 02:01 PM	36630
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW9010	Cyanide Soil Prep	08/14/09 11:54 AM	36551
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	E300	Anion Prep	08/12/09 09:13 AM	36486
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW7471A	Mercury Soil Prep, Total	08/13/09 12:00 PM	36503
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	08/13/09 09:00 AM	36495
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	SW3550B	Soil Prep Sonication: PAH	08/12/09 02:47 PM	36499
	LSB-1 (4-5')	08/11/09 11:18 AM	Soil	D2216	Moisture Preparation	08/17/09 11:20 AM	36580
0908100-09A	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW5030B	Purge and Trap Soils GC/MS	08/17/09 11:54 AM	36587
0908100-09B	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW3550B	Soil Prep Sonication: PCB	08/18/09 02:01 PM	36630
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW9010	Cyanide Soil Prep	08/14/09 11:54 AM	36551
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	E300	Anion Prep	08/12/09 09:13 AM	36486
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW7471A	Mercury Soil Prep, Total	08/17/09 09:55 AM	36579
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW3050B	Soil Prep Total Metals: ICP-MS	08/17/09 09:00 AM	36555
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	SW3550B	Soil Prep Sonication: PAH	08/17/09 11:01 AM	36581
	LSB-2 (1.5-2.5')	08/11/09 01:06 PM	Soil	D2216	Moisture Preparation	08/19/09 05:00 PM	36671

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Lab Order: 0908100

ANALYTICAL DATES REPORT

Sample ID	Client Sample ID	Matrix	Test Number	Test Name	Batch ID	Dilution	Analysis Date	Run ID
0908100-02A	LSB-1 (18-24")	Soil	SW8260B	Volatiles by GC/MS	36525	1	08/13/09 02:10 PM	GCMS2_090813A
0908100-02B	LSB-1 (18-24")	Soil	E300	Anions by IC method - Soil	36486	1	08/14/09 11:57 AM	IC_090814A
	LSB-1 (18-24")	Soil	SW9014	Cyanide - Solid Sample	36551	1	08/15/09 03:46 PM	UV/VIS_2_090814A
	LSB-1 (18-24")	Soil	SW8270C	PAHs: GC/MS	36499	1	08/13/09 03:15 PM	GCMS8_090813A
	LSB-1 (18-24")	Soil	SW8082	PCB by GC - Soil/Solid	36630	1	08/19/09 02:37 AM	GC16_090818B
	LSB-1 (18-24")	Soil	D2216	Percent Moisture	36580	1	08/18/09 11:05 AM	PMOIST_090817A
	LSB-1 (18-24")	Soil	SW7471A	Total Mercury: Soil/Solid	36503	1	08/17/09 02:08 PM	CETAC_HG_090817D
	LSB-1 (18-24")	Soil	SW6020	Trace Metals: ICP-MS - Solid	36495	5	08/17/09 02:23 PM	ICP-MS2_090817B
0908100-05A	LSB-1 (4-5')	Soil	SW8260B	Volatiles by GC/MS	36525	1	08/13/09 01:38 PM	GCMS2_090813A
0908100-05B	LSB-1 (4-5')	Soil	E300	Anions by IC method - Soil	36486	1	08/14/09 12:30 PM	IC_090814A
	LSB-1 (4-5')	Soil	SW9014	Cyanide - Solid Sample	36551	1	08/15/09 03:46 PM	UV/VIS_2_090814A
	LSB-1 (4-5')	Soil	SW8270C	PAHs: GC/MS	36499	1	08/13/09 02:41 PM	GCMS8_090813A
	LSB-1 (4-5')	Soil	SW8082	PCB by GC - Soil/Solid	36630	1	08/19/09 03:05 AM	GC16_090818B
	LSB-1 (4-5')	Soil	D2216	Percent Moisture	36580	1	08/18/09 11:05 AM	PMOIST_090817A
	LSB-1 (4-5')	Soil	SW7471A	Total Mercury: Soil/Solid	36503	1	08/17/09 02:10 PM	CETAC_HG_090817D
	LSB-1 (4-5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	36495	5	08/17/09 02:28 PM	ICP-MS2_090817B
0908100-09A	LSB-2 (1.5-2.5')	Soil	SW8260B	Volatiles by GC/MS	36587	1	08/17/09 01:48 PM	GCMS1_090817A
0908100-09B	LSB-2 (1.5-2.5')	Soil	E300	Anions by IC method - Soil	36486	1	08/14/09 01:20 PM	IC_090814A
	LSB-2 (1.5-2.5')	Soil	SW9014	Cyanide - Solid Sample	36551	1	08/15/09 04:04 PM	UV/VIS_2_090814A
	LSB-2 (1.5-2.5')	Soil	SW8270C	PAHs: GC/MS	36581	1	08/18/09 07:11 PM	GCMS6_090818A
	LSB-2 (1.5-2.5')	Soil	SW8082	PCB by GC - Soil/Solid	36630	1	08/19/09 03:33 AM	GC16_090818B
	LSB-2 (1.5-2.5')	Soil	D2216	Percent Moisture	36671	1	08/20/09 09:30 AM	PMOIST_090819A
	LSB-2 (1.5-2.5')	Soil	SW7471A	Total Mercury: Soil/Solid	36579	1	08/19/09 12:27 PM	CETAC_HG_090819A
	LSB-2 (1.5-2.5')	Soil	SW6020	Trace Metals: ICP-MS - Solid	36555	5	08/18/09 12:24 PM	ICP-MS2_090818A

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-1 (18-24")
Lab ID: 0908100-02
Collection Date: 08/11/09 10:28 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB by GC - Soil/Solid		**SW8082**					**Analyst: DO**
Aroclor 1016	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1221	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1232	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1242	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1248	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1254	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Aroclor 1260	ND	0.0566	0.113		mg/Kg-dry	1	08/19/09 02:37 AM
Surr: Decachlorobiphenyl	130	0	40 - 130		%REC	1	08/19/09 02:37 AM
Surr: Tetrachloro-m-xylene	73.5	0	40 - 130		%REC	1	08/19/09 02:37 AM
Total Mercury: Soil/Solid		**SW7471A**					**Analyst: LM**
Mercury	0.0820	0.0168	0.0419		mg/Kg-dry	1	08/17/09 02:08 PM
Trace Metals: ICP-MS - Solid		**SW6020**					**Analyst: KW**
Arsenic	5.43	0.498	0.996		mg/Kg-dry	5	08/17/09 02:23 PM
Barium	130	0.498	1.99		mg/Kg-dry	5	08/17/09 02:23 PM
Cadmium	1.20	0.0996	0.299		mg/Kg-dry	5	08/17/09 02:23 PM
Chromium	24.8	0.498	1.99		mg/Kg-dry	5	08/17/09 02:23 PM
Lead	51.9	0.0996	0.299		mg/Kg-dry	5	08/17/09 02:23 PM
Selenium	0.838	0.149	0.498		mg/Kg-dry	5	08/17/09 02:23 PM
Silver	0.126	0.0996	0.199	J	mg/Kg-dry	5	08/17/09 02:23 PM
PAHs: GC/MS		**SW8270C**					**Analyst: DO**
1-Methylnaphthalene	ND	0.0110	0.0548	N	mg/Kg-dry	1	08/13/09 03:15 PM
2-Methylnaphthalene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Acenaphthene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Acenaphthylene	0.0137	0.0110	0.0548	J	mg/Kg-dry	1	08/13/09 03:15 PM
Anthracene	ND	0.0110	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Benzo[a]anthracene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Benzo[a]pyrene	ND	0.0329	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Benzo[b]fluoranthene	0.0416	0.0219	0.0548	J	mg/Kg-dry	1	08/13/09 03:15 PM
Benzo[g,h,i]perylene	0.0236	0.0219	0.0548	J	mg/Kg-dry	1	08/13/09 03:15 PM
Benzo[k]fluoranthene	ND	0.0329	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Chrysene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Dibenz[a,h]anthracene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Fluoranthene	0.0206	0.0110	0.0548	J	mg/Kg-dry	1	08/13/09 03:15 PM
Fluorene	ND	0.0110	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Indeno[1,2,3-cd]pyrene	ND	0.0110	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Naphthalene	ND	0.0110	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Phenanthrene	ND	0.0110	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Pyrene	ND	0.0219	0.0548		mg/Kg-dry	1	08/13/09 03:15 PM
Surr: 2-Fluorobiphenyl	95.9	0	40 - 140		%REC	1	08/13/09 03:15 PM
Surr: 4-Terphenyl-d14	79.9	0	40 - 140		%REC	1	08/13/09 03:15 PM
Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1-Trichloroethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
1,1,2,2-Tetrachloroethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-1 (18-24")
Lab ID: 0908100-02
Collection Date: 08/11/09 10:28 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
1,1,2-Trichloroethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
1,1-Dichloroethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
1,1-Dichloroethene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
1,2-Dibromoethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
1,2-Dichloroethane	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Benzene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Carbon tetrachloride	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Chloroform	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Ethylbenzene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Methylene chloride	ND	0.00521	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Tetrachloroethene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Toluene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Trichloroethene	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Vinyl chloride	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Total Xylenes	ND	0.00104	0.00521		mg/Kg-dry	1	08/13/09 02:10 PM
Surr: 1,2-Dichloroethane-d4	122	0	78 - 125		%REC	1	08/13/09 02:10 PM
Surr: 4-Bromofluorobenzene	122	0	82 - 125		%REC	1	08/13/09 02:10 PM
Surr: Dibromofluoromethane	102	0	84 - 116		%REC	1	08/13/09 02:10 PM
Surr: Toluene-d8	102	0	84 - 118		%REC	1	08/13/09 02:10 PM
Cyanide - Solid Sample		**SW9014**					**Analyst: AAD**
Cyanide, Total	ND	0.225	0.564		mg/Kg-dry	1	08/15/09 03:46 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Fluoride	3.71	1.15	1.15		mg/Kg-dry	1	08/14/09 11:57 AM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	13.5	0	0		WT%	1	08/18/09 11:05 AM

Qualifiers:				
	*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
	B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
	C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
	DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
	E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
			S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-1 (4-5')
Lab ID: 0908100-05
Collection Date: 08/11/09 11:18 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB by GC - Soil/Solid		**SW8082**					**Analyst: DO**
Aroclor 1016	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1221	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1232	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1242	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1248	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1254	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Aroclor 1260	ND	0.0550	0.110		mg/Kg-dry	1	08/19/09 03:05 AM
Surr: Decachlorobiphenyl	127	0	40 - 130		%REC	1	08/19/09 03:05 AM
Surr: Tetrachloro-m-xylene	86.0	0	40 - 130		%REC	1	08/19/09 03:05 AM
Total Mercury: Soil/Solid		**SW7471A**					**Analyst: LM**
Mercury	ND	0.0152	0.0381		mg/Kg-dry	1	08/17/09 02:10 PM
Trace Metals: ICP-MS - Solid		**SW6020**					**Analyst: KW**
Arsenic	3.52	0.524	1.05		mg/Kg-dry	5	08/17/09 02:28 PM
Barium	97.7	0.524	2.09		mg/Kg-dry	5	08/17/09 02:28 PM
Cadmium	0.179	0.105	0.314	J	mg/Kg-dry	5	08/17/09 02:28 PM
Chromium	9.27	0.524	2.09		mg/Kg-dry	5	08/17/09 02:28 PM
Lead	5.93	0.105	0.314		mg/Kg-dry	5	08/17/09 02:28 PM
Selenium	1.01	0.157	0.524		mg/Kg-dry	5	08/17/09 02:28 PM
Silver	ND	0.105	0.209		mg/Kg-dry	5	08/17/09 02:28 PM
PAHs: GC/MS		**SW8270C**					**Analyst: DO**
1-Methylnaphthalene	ND	0.0106	0.0532	N	mg/Kg-dry	1	08/13/09 02:41 PM
2-Methylnaphthalene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Acenaphthene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Acenaphthylene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Anthracene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Benzo[a]anthracene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Benzo[a]pyrene	ND	0.0319	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Benzo[b]fluoranthene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Benzo[g,h,i]perylene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Benzo[k]fluoranthene	ND	0.0319	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Chrysene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Dibenz[a,h]anthracene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Fluoranthene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Fluorene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Indeno[1,2,3-cd]pyrene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Naphthalene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Phenanthrene	ND	0.0106	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Pyrene	ND	0.0213	0.0532		mg/Kg-dry	1	08/13/09 02:41 PM
Surr: 2-Fluorobiphenyl	105	0	40 - 140		%REC	1	08/13/09 02:41 PM
Surr: 4-Terphenyl-d14	99.7	0	40 - 140		%REC	1	08/13/09 02:41 PM
Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1-Trichloroethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
1,1,2,2-Tetrachloroethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-1 (4-5')
Lab ID: 0908100-05
Collection Date: 08/11/09 11:18 AM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
1,1,2-Trichloroethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
1,1-Dichloroethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
1,1-Dichloroethene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
1,2-Dibromoethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
1,2-Dichloroethane	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Benzene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Carbon tetrachloride	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Chloroform	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Ethylbenzene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Methylene chloride	ND	0.00537	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Tetrachloroethene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Toluene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Trichloroethene	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Vinyl chloride	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Total Xylenes	ND	0.00107	0.00537		mg/Kg-dry	1	08/13/09 01:38 PM
Surr: 1,2-Dichloroethane-d4	131	0	78 - 125	S	%REC	1	08/13/09 01:38 PM
Surr: 4-Bromofluorobenzene	104	0	82 - 125		%REC	1	08/13/09 01:38 PM
Surr: Dibromofluoromethane	104	0	84 - 116		%REC	1	08/13/09 01:38 PM
Surr: Toluene-d8	98.0	0	84 - 118		%REC	1	08/13/09 01:38 PM
Cyanide - Solid Sample		**SW9014**					**Analyst: AAD**
Cyanide, Total	ND	0.218	0.544		mg/Kg-dry	1	08/15/09 03:46 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Fluoride	7.86	1.11	1.11		mg/Kg-dry	1	08/14/09 12:30 PM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	10.7	0	0		WT%	1	08/18/09 11:05 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-2 (1.5-2.5')
Lab ID: 0908100-09
Collection Date: 08/11/09 01:06 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
PCB by GC - Soil/Solid		**SW8082**					**Analyst: DO**
Aroclor 1016	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1221	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1232	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1242	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1248	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1254	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Aroclor 1260	ND	0.0543	0.109		mg/Kg-dry	1	08/19/09 03:33 AM
Surr: Decachlorobiphenyl	135	0	40 - 130	S	%REC	1	08/19/09 03:33 AM
Surr: Tetrachloro-m-xylene	84.3	0	40 - 130		%REC	1	08/19/09 03:33 AM
Total Mercury: Soil/Solid		**SW7471A**					**Analyst: LM**
Mercury	0.0207	0.0156	0.0391	J	mg/Kg-dry	1	08/19/09 12:27 PM
Trace Metals: ICP-MS - Solid		**SW6020**					**Analyst: KW**
Arsenic	4.59	0.511	1.02		mg/Kg-dry	5	08/18/09 12:24 PM
Barium	74.0	0.511	2.05		mg/Kg-dry	5	08/18/09 12:24 PM
Cadmium	0.249	0.102	0.307	J	mg/Kg-dry	5	08/18/09 12:24 PM
Chromium	11.3	0.511	2.05		mg/Kg-dry	5	08/18/09 12:24 PM
Lead	14.0	0.102	0.307		mg/Kg-dry	5	08/18/09 12:24 PM
Selenium	1.40	0.153	0.511		mg/Kg-dry	5	08/18/09 12:24 PM
Silver	ND	0.102	0.205		mg/Kg-dry	5	08/18/09 12:24 PM
PAHs: GC/MS		**SW8270C**					**Analyst: DO**
1-Methylnaphthalene	ND	0.0103	0.0516	N	mg/Kg-dry	1	08/18/09 07:11 PM
2-Methylnaphthalene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Acenaphthene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Acenaphthylene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Anthracene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Benzo[a]anthracene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Benzo[a]pyrene	ND	0.0309	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Benzo[b]fluoranthene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Benzo[g,h,i]perylene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Benzo[k]fluoranthene	ND	0.0309	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Chrysene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Dibenz[a,h]anthracene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Fluoranthene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Fluorene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Indeno[1,2,3-cd]pyrene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Naphthalene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Phenanthrene	ND	0.0103	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Pyrene	ND	0.0206	0.0516		mg/Kg-dry	1	08/18/09 07:11 PM
Surr: 2-Fluorobiphenyl	95.2	0	40 - 140		%REC	1	08/18/09 07:11 PM
Surr: 4-Terphenyl-d14	96.3	0	40 - 140		%REC	1	08/18/09 07:11 PM
Volatiles by GC/MS		**SW8260B**					**Analyst: AJR**
1,1,1-Trichloroethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
1,1,2,2-Tetrachloroethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Project: Hobbs Test Shop
Project No: 8-0113-04
Lab Order: 0908100

Client Sample ID: LSB-2 (1.5-2.5')
Lab ID: 0908100-09
Collection Date: 08/11/09 01:06 PM
Matrix: Soil

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
1,1,2-Trichloroethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
1,1-Dichloroethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
1,1-Dichloroethene	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
1,2-Dibromoethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
1,2-Dichloroethane	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Benzene	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Carbon tetrachloride	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Chloroform	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Ethylbenzene	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Methylene chloride	ND	0.00544	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Tetrachloroethene	0.00123	0.00109	0.00544	J	mg/Kg-dry	1	08/17/09 01:48 PM
Toluene	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Trichloroethene	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Vinyl chloride	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Total Xylenes	ND	0.00109	0.00544		mg/Kg-dry	1	08/17/09 01:48 PM
Surr: 1,2-Dichloroethane-d4	107	0	78 - 125		%REC	1	08/17/09 01:48 PM
Surr: 4-Bromofluorobenzene	101	0	82 - 125		%REC	1	08/17/09 01:48 PM
Surr: Dibromofluoromethane	108	0	84 - 116		%REC	1	08/17/09 01:48 PM
Surr: Toluene-d8	91.2	0	84 - 118		%REC	1	08/17/09 01:48 PM
Cyanide - Solid Sample		**SW9014**					**Analyst: AAD**
Cyanide, Total	ND	0.218	0.544		mg/Kg-dry	1	08/15/09 04:04 PM
Anions by IC method - Soil		**E300**					**Analyst: JBC**
Fluoride	3.47	1.10	1.10		mg/Kg-dry	1	08/14/09 01:20 PM
Percent Moisture		**D2216**					**Analyst: RP**
Percent Moisture	10.3	0	0		WT%	1	08/20/09 09:30 AM

Qualifiers:

*	Value exceeds TCLP Maximum Concentration Level	J	Analyte detected between MDL and RL
B	Analyte detected in the associated Method Blank	MDL	Method Detection Limit
C	Sample Result or QC discussed in the Case Narrative	N	Parameter not NELAC certified
DF	Dilution Factor	ND	Not Detected at the Method Detection Limit
E	TPH pattern not Gas or Diesel Range Pattern	RL	Reporting Limit
		S	Spike Recovery outside control limits

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_090818B

Sample ID:	LCS-36630	Batch ID:	36630		TestNo:		SW8082		Units:		mg/Kg
SampType:	LCS	Run ID:	GC16_090818B		Analysis Date:		08/18/09 06:31 PM		Prep Date:		08/18/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		0.941	0.100	1.000	0	94.1	65	126			
Aroclor 1260		0.979	0.100	1.000	0	97.9	66	118			
Surr: Decachlorobiphenyl		0.137		0.1000		137	50	130			S
Surr: Tetrachloro-m-xylene		0.0845		0.1000		84.5	50	130			

Sample ID:	MB-36630	Batch ID:	36630		TestNo:		SW8082		Units:		mg/Kg
SampType:	MBLK	Run ID:	GC16_090818B		Analysis Date:		08/19/09 12:45 AM		Prep Date:		08/18/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		ND	0.100								
Aroclor 1221		ND	0.100								
Aroclor 1232		ND	0.100								
Aroclor 1242		ND	0.100								
Aroclor 1248		ND	0.100								
Aroclor 1254		ND	0.100								
Aroclor 1260		ND	0.100								
Surr: Decachlorobiphenyl		0.119		0.1000		119	50	130			
Surr: Tetrachloro-m-xylene		0.0830		0.1000		83.0	50	130			

Sample ID:	0908100-05B-MS	Batch ID:	36630		TestNo:		SW8082		Units:		mg/Kg-dry
SampType:	MS	Run ID:	GC16_090818B		Analysis Date:		08/19/09 04:02 AM		Prep Date:		08/18/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		1.04	0.111	1.107	0	94.2	65	126			
Aroclor 1260		1.10	0.111	1.107	0	99.5	66	118			
Surr: Decachlorobiphenyl		0.144		0.1107		130	40	130			
Surr: Tetrachloro-m-xylene		0.0932		0.1107		84.2	40	130			

Sample ID:	0908100-05B-MSD	Batch ID:	36630		TestNo:		SW8082		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	GC16_090818B		Analysis Date:		08/19/09 04:30 AM		Prep Date:		08/18/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		1.08	0.110	1.097	0	98.3	65	126	3.38	50	
Aroclor 1260		1.13	0.110	1.097	0	103	66	118	2.11	50	
Surr: Decachlorobiphenyl		0.148		0.1097		135	40	130	0	50	S
Surr: Tetrachloro-m-xylene		0.0928		0.1097		84.6	40	130	0	50	

Qualifiers:					
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GC16_090818B

Sample ID:	ICV-090818	Batch ID:	R44963		TestNo:		SW8082			Units:	mg/Kg
SampType:	ICV	Run ID:	GC16_090818B		Analysis Date:		08/18/09 04:32 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		1.86	0.100	2.000	0	93.1	85	115			
Aroclor 1260		1.97	0.100	2.000	0	98.4	85	115			
Surr: Decachlorobiphenyl		0.201		0.2000		101	50	130			
Surr: Tetrachloro-m-xylene		0.191		0.2000		95.3	50	130			

Sample ID:	CCV1-090818	Batch ID:	R44963		TestNo:		SW8082			Units:	mg/Kg
SampType:	CCV	Run ID:	GC16_090818B		Analysis Date:		08/18/09 10:53 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		1.02	0.100	1.000	0	102	85	115			
Aroclor 1260		1.10	0.100	1.000	0	110	85	115			
Surr: Decachlorobiphenyl		0.113		0.1000		113	50	130			
Surr: Tetrachloro-m-xylene		0.114		0.1000		114	50	130			

Sample ID:	CCV2-090818 1248	Batch ID:	R44963		TestNo:		SW8082			Units:	mg/Kg
SampType:	CCV	Run ID:	GC16_090818B		Analysis Date:		08/19/09 05:26 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1248		1.11	0.100	1.000	0	111	85	115			
Surr: Decachlorobiphenyl		0.120		0.1000		120	50	130			
Surr: Tetrachloro-m-xylene		0.105		0.1000		105	50	130			

Sample ID:	CCV2-090818 1254	Batch ID:	R44963		TestNo:		SW8082			Units:	mg/Kg
SampType:	CCV	Run ID:	GC16_090818B		Analysis Date:		08/19/09 05:54 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1254		1.15	0.100	1.000	0	115	85	115			
Surr: Decachlorobiphenyl		0.113		0.1000		113	50	130			
Surr: Tetrachloro-m-xylene		0.117		0.1000		117	50	130			

Sample ID:	CCV2-090818	Batch ID:	R44963		TestNo:		SW8082			Units:	mg/Kg
SampType:	CCV	Run ID:	GC16_090818B		Analysis Date:		08/19/09 06:22 AM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Aroclor 1016		1.06	0.100	1.000	0	106	85	115			
Aroclor 1260		1.17	0.100	1.000	0	117	85	115			S
Surr: Decachlorobiphenyl		0.118		0.1000		118	50	130			
Surr: Tetrachloro-m-xylene		0.110		0.1000		110	50	130			

Qualifiers:					
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_090817D

Sample ID:	MB-36503	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg
SampType:	MBLK	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 01:04 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		ND	0.0400								
Sample ID:	LCS-36503	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg
SampType:	LCS	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 01:11 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.207	0.0400	0.2000	0	104	85	115			
Sample ID:	LCSD-36503	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg
SampType:	LCSD	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 01:13 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.204	0.0400	0.2000	0	102	85	115	1.46	25	
Sample ID:	0908105-01C SD	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	SD	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 02:00 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.0730	0.183	0	0.07158				2.02	10	
Sample ID:	0908105-01C PDS	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	PDS	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 02:02 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.289	0.0365	0.2282	0.07158	95.4	85	115			
Sample ID:	0908105-01C MS	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	MS	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 02:04 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.234	0.0356	0.1780	0.07158	91.3	80	120			
Sample ID:	0908105-01C MSD	Batch ID:	36503		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 02:06 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.243	0.0359	0.1794	0.07158	95.6	80	120	3.82	25	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_090817D

Sample ID:	ICV2-090817	Batch ID:	R44896		TestNo:		SW7471A			Units:	mg/Kg
SampType:	ICV	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 12:58 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00371	0.0400	0.004000	0	92.8	90	110			

Sample ID:	CCV1-090817	Batch ID:	R44896		TestNo:		SW7471A			Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 01:23 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00187	0.0400	0.002000	0	93.5	90	110			

Sample ID:	CCV2-090817	Batch ID:	R44896		TestNo:		SW7471A			Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 01:48 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00201	0.0400	0.002000	0	101	90	110			

Sample ID:	CCV3-090817	Batch ID:	R44896		TestNo:		SW7471A			Units:	mg/Kg
SampType:	CCV	Run ID:	CETAC_HG_090817D		Analysis Date:		08/17/09 02:12 PM			Prep Date:	
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.00192	0.0400	0.002000	0	96.0	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_090819A

Sample ID:	MB-36579	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg
SampType:	MBLK	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:20 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		ND	0.0400								

Sample ID:	LCS-36579	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg
SampType:	LCS	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:22 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.214	0.0400	0.2000	0	107	85	115			

Sample ID:	LCSD-36579	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg
SampType:	LCSD	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:25 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.214	0.0400	0.2000	0	107	85	115	0	25	

Sample ID:	0908100-09B SD	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	SD	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:29 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0	0.196	0	0.02074				0	10	

Sample ID:	0908100-09B PDS	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	PDS	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:31 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.277	0.0391	0.2445	0.02074	105	85	115			

Sample ID:	0908100-09B MS	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	MS	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:33 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.225	0.0407	0.2033	0.02074	100	80	120			

Sample ID:	0908100-09B MSD	Batch ID:	36579		TestNo:		SW7471A		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	CETAC_HG_090819A		Analysis Date:		08/19/09 12:35 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury		0.227	0.0411	0.2057	0.02074	100	80	120	1.17	25	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_090819A

Sample ID:	ICV-090819	Batch ID:	R44946	TestNo:	SW7471A		Units:	mg/Kg	
SampType:	ICV	Run ID:	CETAC_HG_090819A	Analysis Date:	08/19/09 12:16 PM		Prep Date:		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00383	0.0400	0.004000	0	95.8	90	110			

Sample ID:	CCV1-090819	Batch ID:	R44946	TestNo:	SW7471A		Units:	mg/Kg	
SampType:	CCV	Run ID:	CETAC_HG_090819A	Analysis Date:	08/19/09 12:41 PM		Prep Date:		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Mercury	0.00202	0.0400	0.002000	0	101	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090817B

Sample ID:	MB-36495	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg
SampType:	MBLK	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 12:51 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		ND	1.00								
Barium		ND	2.00								
Cadmium		ND	0.300								
Chromium		ND	2.00								
Lead		ND	0.300								
Selenium		ND	0.500								
Silver		ND	0.200								

Sample ID:	LCS-36495	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg
SampType:	LCS	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:02 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		48.3	1.00	50.00	0	96.6	80	120			
Barium		51.2	2.00	50.00	0	102	80	120			
Cadmium		49.1	0.300	50.00	0	98.2	80	120			
Chromium		51.9	2.00	50.00	0	104	80	120			
Lead		50.7	0.300	50.00	0	101	80	120			
Selenium		45.4	0.500	50.00	0	90.7	80	120			
Silver		48.5	0.200	50.00	0	97.0	80	120			

Sample ID:	LCSD-36495	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg
SampType:	LCSD	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:07 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		48.2	1.00	50.00	0	96.5	80	120	0.051	20	
Barium		51.0	2.00	50.00	0	102	80	120	0.440	20	
Cadmium		48.7	0.300	50.00	0	97.4	80	120	0.818	20	
Chromium		52.0	2.00	50.00	0	104	80	120	0.289	20	
Lead		51.2	0.300	50.00	0	102	80	120	0.932	20	
Selenium		45.2	0.500	50.00	0	90.5	80	120	0.221	20	
Silver		48.2	0.200	50.00	0	96.4	80	120	0.620	20	

Sample ID:	0908105-01C SD	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:18 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		7.58	4.39	0	6.995				7.98	10	
Cadmium		2.91	1.32	0	3.021				3.70	10	
Chromium		80.2	8.79	0	75.31				6.31	10	
Lead		329	1.32	0	329.8				0.200	10	
Selenium		1.99	2.20	0	2.007				0.846	10	
Silver		0	0.879	0	0.1695				0	10	

Sample ID:	0908105-01C PDS	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:23 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		45.1	0.879	43.94	6.995	86.7	75	125			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090817B

Cadmium		44.2	0.264	43.94	3.021	93.7	75	125		
Chromium		116	1.76	43.94	75.31	91.9	75	125		
Lead		371	0.264	43.94	329.8	95.0	75	125		
Selenium		37.1	0.439	43.94	2.007	79.8	75	125		
Silver		39.7	0.176	43.94	0.1695	90.0	75	125		

Sample ID:	0908105-01C MS	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	MS	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:28 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		47.8	0.917	45.86	6.995	89.0	80	120			
Barium		1430	1.83	45.86	1577	-323	80	120			S
Cadmium		47.9	0.275	45.86	3.021	97.8	80	120			
Chromium		128	1.83	45.86	75.31	115	80	120			
Lead		408	0.275	45.86	329.8	170	80	120			S
Selenium		39.7	0.459	45.86	2.007	82.2	80	120			
Silver		43.8	0.183	45.86	0.1695	95.1	80	120			

Sample ID:	0908105-01C MSD	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 01:33 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		47.7	0.901	45.07	6.995	90.3	80	120	0.264	20	
Barium		1280	1.80	45.07	1577	-668	80	120	11.3	20	S
Cadmium		48.0	0.270	45.07	3.021	99.9	80	120	0.346	20	
Chromium		135	1.80	45.07	75.31	132	80	120	4.90	20	S
Lead		400	0.270	45.07	329.8	156	80	120	1.80	20	S
Selenium		39.6	0.451	45.07	2.007	83.5	80	120	0.192	20	
Silver		44.1	0.180	45.07	0.1695	97.4	80	120	0.641	20	

Sample ID:	0908105-01C SD	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 02:44 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		1690	87.9	0	1652				2.57	10	

Sample ID:	0908105-01C PDS	Batch ID:	36495		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS2_090817B		Analysis Date:		08/17/09 02:50 PM		Prep Date:		08/13/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Barium		2070	17.6	439.4	1652	94.5	75	125			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090817B

Sample ID:	ICV1-090817	Batch ID:	R44903	TestNo:		SW6020		Units:		mg/L
SampType:	ICV	Run ID:	ICP-MS2_090817B	Analysis Date:		08/17/09 12:29 PM		Prep Date:		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.102	0.00600	0.100	0	102	90	110			
Barium	0.104	0.0100	0.100	0	104	90	110			
Cadmium	0.0989	0.00100	0.100	0	98.9	90	110			
Chromium	0.110	0.00600	0.100	0	110	90	110			
Lead	0.105	0.00100	0.100	0	105	90	110			
Selenium	0.0937	0.00600	0.100	0	93.7	90	110			
Silver	0.101	0.00200	0.100	0	101	90	110			

Sample ID:	CCV1-090817	Batch ID:	R44903	TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090817B	Analysis Date:		08/17/09 01:44 PM		Prep Date:		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.199	0.00600	0.200	0	99.6	90	110			
Barium	0.211	0.0100	0.200	0	105	90	110			
Cadmium	0.199	0.00100	0.200	0	99.6	90	110			
Chromium	0.214	0.00600	0.200	0	107	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.188	0.00600	0.200	0	94.0	90	110			
Silver	0.200	0.00200	0.200	0	99.8	90	110			

Sample ID:	CCV2-090817	Batch ID:	R44903	TestNo:		SW6020		Units:		mg/L
SampType:	CCV	Run ID:	ICP-MS2_090817B	Analysis Date:		08/17/09 03:00 PM		Prep Date:		
Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	0.201	0.00600	0.200	0	100	90	110			
Barium	0.213	0.0100	0.200	0	106	90	110			
Cadmium	0.201	0.00100	0.200	0	100	90	110			
Chromium	0.210	0.00600	0.200	0	105	90	110			
Lead	0.204	0.00100	0.200	0	102	90	110			
Selenium	0.191	0.00600	0.200	0	95.4	90	110			
Silver	0.200	0.00200	0.200	0	100	90	110			

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090818A

Sample ID:	MB-36555	Batch ID:	36555		TestNo:		SW6020		Units:		mg/Kg
SampType:	MBLK	Run ID:	ICP-MS2_090818A		Analysis Date:		08/18/09 12:08 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		ND	1.00								
Barium		ND	2.00								
Cadmium		ND	0.300								
Chromium		ND	2.00								
Lead		ND	0.300								
Selenium		ND	0.500								
Silver		ND	0.200								

Sample ID:	LCS-36555	Batch ID:	36555		TestNo:		SW6020		Units:		mg/Kg
SampType:	LCS	Run ID:	ICP-MS2_090818A		Analysis Date:		08/18/09 12:14 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		47.7	1.00	50.00	0	95.4	80	120			
Barium		49.2	2.00	50.00	0	98.5	80	120			
Cadmium		47.4	0.300	50.00	0	94.8	80	120			
Chromium		50.9	2.00	50.00	0	102	80	120			
Lead		50.3	0.300	50.00	0	101	80	120			
Selenium		44.7	0.500	50.00	0	89.4	80	120			
Silver		49.0	0.200	50.00	0	97.9	80	120			

Sample ID:	LCSD-36555	Batch ID:	36555		TestNo:		SW6020		Units:		mg/Kg
SampType:	LCSD	Run ID:	ICP-MS2_090818A		Analysis Date:		08/18/09 12:19 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		47.8	1.00	50.00	0	95.6	80	120	0.105	20	
Barium		50.1	2.00	50.00	0	100	80	120	1.66	20	
Cadmium		47.5	0.300	50.00	0	95.0	80	120	0.211	20	
Chromium		51.1	2.00	50.00	0	102	80	120	0.441	20	
Lead		50.4	0.300	50.00	0	101	80	120	0.298	20	
Selenium		44.6	0.500	50.00	0	89.2	80	120	0.336	20	
Silver		49.2	0.200	50.00	0	98.4	80	120	0.560	20	

Sample ID:	0908116-01B SD	Batch ID:	36555		TestNo:		SW6020		Units:		mg/Kg-dry
SampType:	SD	Run ID:	ICP-MS2_090818A		Analysis Date:		08/18/09 12:35 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic		6.29	5.78	0	5.766				8.75	10	
Barium		45.5	11.6	0	44.91				1.37	10	
Cadmium		0	1.73	0	0.2594				0	10	
Chromium		18.6	11.6	0	16.09				14.6	10	R
Lead		6.60	1.73	0	6.514				1.34	10	
Selenium		1.94	2.89	0	1.619				18.1	10	R
Silver		0	1.16	0	0				0	10	

Sample ID:	0908116-01B PDS	Batch ID:	36555	TestNo:	SW6020	Units:	mg/Kg-dry
SampType:	PDS	Run ID:	ICP-MS2_090818A	Analysis Date:	08/18/09 12:40 PM	Prep Date:	08/17/09

Qualifiers:					
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090818A

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	59.4	1.16	57.80	5.766	92.8	75	125			
Barium	102	2.31	57.80	44.91	99.0	75	125			
Cadmium	51.1	0.347	57.80	0.2594	88.0	75	125			
Chromium	64.2	2.31	57.80	16.09	83.2	75	125			
Lead	65.1	0.347	57.80	6.514	101	75	125			
Selenium	49.2	0.578	57.80	1.619	82.4	75	125			
Silver	51.2	0.231	57.80	0	88.6	75	125			

Sample ID: 0908116-01B MS | Batch ID: 36555 | TestNo: SW6020 | Units: mg/Kg-dry
SampType: MS | Run ID: ICP-MS2_090818A | Analysis Date: 08/18/09 12:45 PM | Prep Date: 08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	60.1	1.14	57.23	5.766	95.0	80	120			
Barium	102	2.29	57.23	44.91	99.3	80	120			
Cadmium	50.6	0.343	57.23	0.2594	88.0	80	120			
Chromium	64.9	2.29	57.23	16.09	85.3	80	120			
Lead	64.3	0.343	57.23	6.514	101	80	120			
Selenium	51.2	0.572	57.23	1.619	86.6	80	120			
Silver	50.5	0.229	57.23	0	88.2	80	120			

Sample ID: 0908116-01B MSD | Batch ID: 36555 | TestNo: SW6020 | Units: mg/Kg-dry
SampType: MSD | Run ID: ICP-MS2_090818A | Analysis Date: 08/18/09 12:51 PM | Prep Date: 08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Arsenic	59.3	1.13	56.68	5.766	94.4	80	120	1.40	20	
Barium	103	2.27	56.68	44.91	102	80	120	0.836	20	
Cadmium	50.6	0.340	56.68	0.2594	88.8	80	120	0.019	20	
Chromium	64.6	2.27	56.68	16.09	85.7	80	120	0.448	20	
Lead	63.4	0.340	56.68	6.514	100	80	120	1.51	20	
Selenium	50.7	0.567	56.68	1.619	86.6	80	120	0.920	20	
Silver	50.3	0.227	56.68	0	88.7	80	120	0.354	20	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_090818A

Sample ID:	ICV1-090818	**Batch ID:**	R44941		**TestNo:**		SW6020		**Units:**		mg/L
SampType:	ICV	**Run ID:**	ICP-MS2_090818A		**Analysis Date:**		08/18/09 11:58 AM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Arsenic		0.103	0.00600	0.100	0	103	90	110			
Barium		0.103	0.0100	0.100	0	103	90	110			
Cadmium		0.0984	0.00100	0.100	0	98.4	90	110			
Chromium		0.106	0.00600	0.100	0	106	90	110			
Lead		0.103	0.00100	0.100	0	103	90	110			
Selenium		0.0974	0.00600	0.100	0	97.4	90	110			
Silver		0.102	0.00200	0.100	0	102	90	110			

Sample ID:	CCV1-090818	**Batch ID:**	R44941		**TestNo:**		SW6020		**Units:**		mg/L
SampType:	CCV	**Run ID:**	ICP-MS2_090818A		**Analysis Date:**		08/18/09 12:56 PM		**Prep Date:**		
Analyte		**Result**	**RL**	**SPK value**	**Ref Val**	**%REC**	**LowLimit**	**HighLimit**	**%RPD**	**RPD Limit**	**Qual**
Arsenic		0.199	0.00600	0.200	0	99.5	90	110			
Barium		0.201	0.0100	0.200	0	101	90	110			
Cadmium		0.193	0.00100	0.200	0	96.6	90	110			
Chromium		0.203	0.00600	0.200	0	101	90	110			
Lead		0.203	0.00100	0.200	0	101	90	110			
Selenium		0.196	0.00600	0.200	0	98.0	90	110			
Silver		0.199	0.00200	0.200	0	99.4	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_090818A

Sample ID:	LCS-36581	Batch ID:	36581		TestNo:		SW8270C		Units:		mg/Kg
SampType:	LCS	Run ID:	GCMS6_090818A		Analysis Date:		08/18/09 04:07 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene		0.772	0.0500	1.000	0	77.2	40	140			N
2-Methylnaphthalene		0.776	0.0500	1.000	0	77.6	47	128			
Acenaphthene		0.767	0.0500	1.000	0	76.7	56	114			
Acenaphthylene		0.768	0.0500	1.000	0	76.8	56	116			
Anthracene		0.755	0.0500	1.000	0	75.5	40	113			
Benzo[a]anthracene		0.706	0.0500	1.000	0	70.6	52	108			
Benzo[a]pyrene		0.734	0.0500	1.000	0	73.4	48	115			
Benzo[b]fluoranthene		0.755	0.0500	1.000	0	75.5	43	115			
Benzo[g,h,i]perylene		0.759	0.0500	1.000	0	75.9	47	123			
Benzo[k]fluoranthene		0.715	0.0500	1.000	0	71.5	54	118			
Chrysene		0.763	0.0500	1.000	0	76.3	56	115			
Dibenz[a,h]anthracene		0.750	0.0500	1.000	0	75.0	43	120			
Fluoranthene		0.799	0.0500	1.000	0	79.9	41	108			
Fluorene		0.792	0.0500	1.000	0	79.2	47	128			
Indeno[1,2,3-cd]pyrene		0.750	0.0500	1.000	0	75.0	46	119			
Naphthalene		0.755	0.0500	1.000	0	75.5	55	113			
Phenanthrene		0.773	0.0500	1.000	0	77.3	55	114			
Pyrene		0.751	0.0500	1.000	0	75.1	42	125			
Surr: 2-Fluorobiphenyl		3.58		4.000		89.4	40	140			
Surr: 4-Terphenyl-d14		3.69		4.000		92.1	40	140			

Sample ID:	MB-36581	Batch ID:	36581		TestNo:		SW8270C		Units:		mg/Kg
SampType:	MBLK	Run ID:	GCMS6_090818A		Analysis Date:		08/18/09 04:37 PM		Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene		ND	0.0500								N
2-Methylnaphthalene		ND	0.0500								
Acenaphthene		ND	0.0500								
Acenaphthylene		ND	0.0500								
Anthracene		ND	0.0500								
Benzo[a]anthracene		ND	0.0500								
Benzo[a]pyrene		ND	0.0500								
Benzo[b]fluoranthene		ND	0.0500								
Benzo[g,h,i]perylene		ND	0.0500								
Benzo[k]fluoranthene		ND	0.0500								
Chrysene		ND	0.0500								
Dibenz[a,h]anthracene		ND	0.0500								
Fluoranthene		ND	0.0500								
Fluorene		ND	0.0500								
Indeno[1,2,3-cd]pyrene		ND	0.0500								
Naphthalene		ND	0.0500								
Phenanthrene		ND	0.0500								
Pyrene		ND	0.0500								
Surr: 2-Fluorobiphenyl		3.71		4.000		92.7	40	140			
Surr: 4-Terphenyl-d14		3.96		4.000		99.1	40	140			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_090818A

Sample ID:	0908100-09B-MS	Batch ID:	36581	TestNo:	SW8270C	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GCMS6_090818A	Analysis Date:	08/18/09 07:41 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene	0.914	0.0554	1.108	0	82.5	40	140			N
2-Methylnaphthalene	0.919	0.0554	1.108	0	82.9	47	128			
Acenaphthene	0.915	0.0554	1.108	0	82.5	56	114			
Acenaphthylene	0.931	0.0554	1.108	0	84.0	56	116			
Anthracene	0.880	0.0554	1.108	0	79.4	40	113			
Benzo[a]anthracene	0.848	0.0554	1.108	0	76.6	52	108			
Benzo[a]pyrene	0.892	0.0554	1.108	0	80.5	48	115			
Benzo[b]fluoranthene	0.910	0.0554	1.108	0	82.1	43	115			
Benzo[g,h,i]perylene	0.913	0.0554	1.108	0	82.4	47	123			
Benzo[k]fluoranthene	0.909	0.0554	1.108	0	82.0	54	118			
Chrysene	0.914	0.0554	1.108	0	82.5	56	115			
Dibenz[a,h]anthracene	0.909	0.0554	1.108	0	82.0	43	120			
Fluoranthene	0.950	0.0554	1.108	0	85.7	41	108			
Fluorene	0.954	0.0554	1.108	0	86.1	47	128			
Indeno[1,2,3-cd]pyrene	0.896	0.0554	1.108	0	80.9	46	119			
Naphthalene	0.880	0.0554	1.108	0	79.4	55	113			
Phenanthrene	0.915	0.0554	1.108	0	82.5	55	114			
Pyrene	0.913	0.0554	1.108	0	82.4	42	125			
Surr: 2-Fluorobiphenyl	4.23		4.433		95.5	40	140			
Surr: 4-Terphenyl-d14	4.27		4.433		96.4	40	140			

Sample ID:	0908100-09B-MSD	Batch ID:	36581	TestNo:	SW8270C	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GCMS6_090818A	Analysis Date:	08/18/09 08:12 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene	0.848	0.0556	1.113	0	76.2	40	140	7.50	25	N
2-Methylnaphthalene	0.853	0.0556	1.113	0	76.7	47	128	7.39	25	
Acenaphthene	0.848	0.0556	1.113	0	76.2	56	114	7.54	25	
Acenaphthylene	0.846	0.0556	1.113	0	76.0	56	116	9.55	25	
Anthracene	0.808	0.0556	1.113	0	72.6	40	113	8.56	25	
Benzo[a]anthracene	0.797	0.0556	1.113	0	71.6	52	108	6.27	25	
Benzo[a]pyrene	0.835	0.0556	1.113	0	75.1	48	115	6.63	25	
Benzo[b]fluoranthene	0.852	0.0556	1.113	0	76.6	43	115	6.55	25	
Benzo[g,h,i]perylene	0.838	0.0556	1.113	0	75.4	47	123	8.55	25	
Benzo[k]fluoranthene	0.800	0.0556	1.113	0	71.9	54	118	12.7	25	
Chrysene	0.838	0.0556	1.113	0	75.3	56	115	8.65	25	
Dibenz[a,h]anthracene	0.850	0.0556	1.113	0	76.4	43	120	6.68	25	
Fluoranthene	0.908	0.0556	1.113	0	81.6	41	108	4.50	25	
Fluorene	0.870	0.0556	1.113	0	78.2	47	128	9.25	25	
Indeno[1,2,3-cd]pyrene	0.845	0.0556	1.113	0	75.9	46	119	5.92	25	
Naphthalene	0.816	0.0556	1.113	0	73.3	55	113	7.58	25	
Phenanthrene	0.858	0.0556	1.113	0	77.1	55	114	6.37	25	
Pyrene	0.864	0.0556	1.113	0	77.6	42	125	5.56	25	
Surr: 2-Fluorobiphenyl	3.82		4.450		85.8	40	140	0	25	
Surr: 4-Terphenyl-d14	3.90		4.450		87.6	40	140	0	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS6_090818A

Sample ID:	ICV-090818	Batch ID:	R44945	TestNo:	SW8270C			Units:		mg/Kg
SampType:	ICV	Run ID:	GCMS6_090818A	Analysis Date:	08/18/09 03:36 PM			Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene		2.04	0.0500	2.000	0	102	80	120			N
2-Methylnaphthalene		2.07	0.0500	2.000	0	103	80	120			
Acenaphthene		1.98	0.0500	2.000	0	99.1	80	120			
Acenaphthylene		2.05	0.0500	2.000	0	102	80	120			
Anthracene		1.97	0.0500	2.000	0	98.6	80	120			
Benzo[a]anthracene		1.76	0.0500	2.000	0	87.9	80	120			
Benzo[a]pyrene		1.85	0.0500	2.000	0	92.5	80	120			
Benzo[b]fluoranthene		1.87	0.0500	2.000	0	93.5	80	120			
Benzo[g,h,i]perylene		1.91	0.0500	2.000	0	95.5	80	120			
Benzo[k]fluoranthene		1.96	0.0500	2.000	0	97.9	80	120			
Chrysene		1.85	0.0500	2.000	0	92.4	80	120			
Dibenz[a,h]anthracene		1.90	0.0500	2.000	0	94.9	80	120			
Fluoranthene		2.00	0.0500	2.000	0	99.9	80	120			
Fluorene		2.06	0.0500	2.000	0	103	80	120			
Indeno[1,2,3-cd]pyrene		1.89	0.0500	2.000	0	94.4	80	120			
Naphthalene		1.99	0.0500	2.000	0	99.7	80	120			
Phenanthrene		1.93	0.0500	2.000	0	96.5	80	120			
Pyrene		1.89	0.0500	2.000	0	94.7	80	120			
Surr: 2-Fluorobiphenyl		2.07		2.000		103	40	140			
Surr: 4-Terphenyl-d14		2.00		2.000		100	40	140			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_090813A

Sample ID:	LCS-36499	Batch ID:	36499	TestNo:	SW8270C	Units:	mg/Kg
SampType:	LCS	Run ID:	GCMS8_090813A	Analysis Date:	08/13/09 01:34 PM	Prep Date:	08/12/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene	0.729	0.0500	1.000	0	72.9	40	140			N
2-Methylnaphthalene	0.714	0.0500	1.000	0	71.4	47	128			
Acenaphthene	0.612	0.0500	1.000	0	61.2	56	114			
Acenaphthylene	0.562	0.0500	1.000	0	56.2	56	116			
Anthracene	0.562	0.0500	1.000	0	56.2	40	113			
Benzo[a]anthracene	0.598	0.0500	1.000	0	59.8	52	108			
Benzo[a]pyrene	0.556	0.0500	1.000	0	55.6	48	115			
Benzo[b]fluoranthene	0.666	0.0500	1.000	0	66.6	43	115			
Benzo[g,h,i]perylene	0.619	0.0500	1.000	0	61.9	47	123			
Benzo[k]fluoranthene	0.676	0.0500	1.000	0	67.6	54	118			
Chrysene	0.620	0.0500	1.000	0	62.0	56	115			
Dibenz[a,h]anthracene	0.609	0.0500	1.000	0	60.9	43	120			
Fluoranthene	0.651	0.0500	1.000	0	65.1	41	108			
Fluorene	0.565	0.0500	1.000	0	56.5	47	128			
Indeno[1,2,3-cd]pyrene	0.613	0.0500	1.000	0	61.3	46	119			
Naphthalene	0.640	0.0500	1.000	0	64.0	55	113			
Phenanthrene	0.615	0.0500	1.000	0	61.5	55	114			
Pyrene	0.634	0.0500	1.000	0	63.4	42	125			
Surr: 2-Fluorobiphenyl	4.43		4.000		111	40	140			
Surr: 4-Terphenyl-d14	3.71		4.000		92.7	40	140			

Sample ID:	MB-36499	Batch ID:	36499	TestNo:	SW8270C	Units:	mg/Kg
SampType:	MBLK	Run ID:	GCMS8_090813A	Analysis Date:	08/13/09 02:07 PM	Prep Date:	08/12/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.0500								N
2-Methylnaphthalene	ND	0.0500								
Acenaphthene	ND	0.0500								
Acenaphthylene	ND	0.0500								
Anthracene	ND	0.0500								
Benzo[a]anthracene	ND	0.0500								
Benzo[a]pyrene	ND	0.0500								
Benzo[b]fluoranthene	ND	0.0500								
Benzo[g,h,i]perylene	ND	0.0500								
Benzo[k]fluoranthene	ND	0.0500								
Chrysene	ND	0.0500								
Dibenz[a,h]anthracene	ND	0.0500								
Fluoranthene	ND	0.0500								
Fluorene	ND	0.0500								
Indeno[1,2,3-cd]pyrene	ND	0.0500								
Naphthalene	ND	0.0500								
Phenanthrene	ND	0.0500								
Pyrene	ND	0.0500								
Surr: 2-Fluorobiphenyl	4.12		4.000		103	40	140			
Surr: 4-Terphenyl-d14	3.71		4.000		92.8	40	140			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_090813A

Sample ID:	0908100-05B-MS	Batch ID:	36499		TestNo:		SW8270C		Units:		mg/Kg-dry
SampType:	MS	Run ID:	GCMS8_090813A		Analysis Date:		08/13/09 03:48 PM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene		0.747	0.0543	1.087	0	68.8	40	140			N
2-Methylnaphthalene		0.771	0.0543	1.087	0	70.9	47	128			
Acenaphthene		0.614	0.0543	1.087	0	56.5	56	114			
Acenaphthylene		0.733	0.0543	1.087	0	67.5	56	116			
Anthracene		0.573	0.0543	1.087	0	52.7	40	113			
Benzo[a]anthracene		0.616	0.0543	1.087	0	56.7	52	108			
Benzo[a]pyrene		0.641	0.0543	1.087	0	59.0	48	115			
Benzo[b]fluoranthene		0.655	0.0543	1.087	0	60.3	43	115			
Benzo[g,h,i]perylene		0.717	0.0543	1.087	0	66.0	47	123			
Benzo[k]fluoranthene		0.646	0.0543	1.087	0	59.5	54	118			
Chrysene		0.658	0.0543	1.087	0	60.6	56	115			
Dibenz[a,h]anthracene		0.720	0.0543	1.087	0	66.3	43	120			
Fluoranthene		0.685	0.0543	1.087	0	63.0	41	108			
Fluorene		0.432	0.0543	1.087	0	39.8	47	128			S
Indeno[1,2,3-cd]pyrene		0.732	0.0543	1.087	0	67.4	46	119			
Naphthalene		0.695	0.0543	1.087	0	63.9	55	113			
Phenanthrene		0.601	0.0543	1.087	0	55.3	55	114			
Pyrene		0.693	0.0543	1.087	0	63.8	42	125			
Surr: 2-Fluorobiphenyl		4.49		4.347		103	40	140			
Surr: 4-Terphenyl-d14		3.61		4.347		83.1	40	140			

Sample ID:	0908100-05B-MSD	Batch ID:	36499		TestNo:		SW8270C		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	GCMS8_090813A		Analysis Date:		08/13/09 04:22 PM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene		0.787	0.0527	1.055	0	74.6	40	140	5.18	25	N
2-Methylnaphthalene		0.784	0.0527	1.055	0	74.4	47	128	1.75	25	
Acenaphthene		0.699	0.0527	1.055	0	66.2	56	114	13.0	25	
Acenaphthylene		0.637	0.0527	1.055	0	60.4	56	116	14.0	25	
Anthracene		0.554	0.0527	1.055	0	52.5	40	113	3.27	25	
Benzo[a]anthracene		0.609	0.0527	1.055	0	57.7	52	108	1.25	25	
Benzo[a]pyrene		0.613	0.0527	1.055	0	58.1	48	115	4.46	25	
Benzo[b]fluoranthene		0.597	0.0527	1.055	0	56.6	43	115	9.20	25	
Benzo[g,h,i]perylene		0.704	0.0527	1.055	0	66.7	47	123	1.86	25	
Benzo[k]fluoranthene		0.677	0.0527	1.055	0	64.2	54	118	4.69	25	
Chrysene		0.639	0.0527	1.055	0	60.5	56	115	3.04	25	
Dibenz[a,h]anthracene		0.707	0.0527	1.055	0	67.0	43	120	1.90	25	
Fluoranthene		0.587	0.0527	1.055	0	55.6	41	108	15.5	25	
Fluorene		0.604	0.0527	1.055	0	57.3	47	128	33.3	25	R
Indeno[1,2,3-cd]pyrene		0.705	0.0527	1.055	0	66.9	46	119	3.76	25	
Naphthalene		0.697	0.0527	1.055	0	66.1	55	113	0.343	25	
Phenanthrene		0.604	0.0527	1.055	0	57.2	55	114	0.475	25	
Pyrene		0.589	0.0527	1.055	0	55.8	42	125	16.3	25	
Surr: 2-Fluorobiphenyl		4.68		4.220		111	40	140	0	25	
Surr: 4-Terphenyl-d14		3.77		4.220		89.4	40	140	0	25	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS8_090813A

Sample ID:	ICV-090813	Batch ID:	R44856	TestNo:	SW8270C		Units:	mg/Kg	
SampType:	ICV	Run ID:	GCMS8_090813A	Analysis Date:	08/13/09 12:58 PM		Prep Date:		

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1-Methylnaphthalene	1.76	0.0500	2.000	0	88.0	80	120			N
2-Methylnaphthalene	1.78	0.0500	2.000	0	89.0	80	120			
Acenaphthene	1.82	0.0500	2.000	0	91.0	80	120			
Acenaphthylene	1.64	0.0500	2.000	0	82.2	80	120			
Anthracene	1.72	0.0500	2.000	0	85.8	80	120			
Benzo[a]anthracene	1.71	0.0500	2.000	0	85.5	80	120			
Benzo[a]pyrene	1.69	0.0500	2.000	0	84.5	80	120			
Benzo[b]fluoranthene	2.17	0.0500	2.000	0	109	80	120			
Benzo[g,h,i]perylene	1.66	0.0500	2.000	0	83.0	80	120			
Benzo[k]fluoranthene	2.25	0.0500	2.000	0	113	80	120			
Chrysene	1.84	0.0500	2.000	0	92.0	80	120			
Dibenz[a,h]anthracene	1.75	0.0500	2.000	0	87.6	80	120			
Fluoranthene	1.95	0.0500	2.000	0	97.7	80	120			
Fluorene	1.78	0.0500	2.000	0	89.2	80	120			
Indeno[1,2,3-cd]pyrene	1.74	0.0500	2.000	0	86.9	80	120			
Naphthalene	1.80	0.0500	2.000	0	90.0	80	120			
Phenanthrene	1.81	0.0500	2.000	0	90.6	80	120			
Pyrene	1.90	0.0500	2.000	0	95.1	80	120			
Surr: 2-Fluorobiphenyl	1.83		2.000		91.6	40	140			
Surr: 4-Terphenyl-d14	1.79		2.000		89.4	40	140			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_090817A

Sample ID:	LCS-36587	Batch ID:	36587	TestNo:	SW8260B	Units:	mg/Kg
SampType:	LCS	Run ID:	GCMS1_090817A	Analysis Date:	08/17/09 12:12 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	0.0264	0.00500	0.0232	0	114	68	130			
1,1,2,2-Tetrachloroethane	0.0227	0.00500	0.0232	0	97.9	59	140			
1,1,2-Trichloroethane	0.0281	0.00500	0.0232	0	121	62	127			
1,1-Dichloroethane	0.0268	0.00500	0.0232	0	115	73	125			
1,1-Dichloroethene	0.0263	0.00500	0.0232	0	113	65	136			
1,2-Dibromoethane	0.0223	0.00500	0.0232	0	96.1	70	124			
1,2-Dichloroethane	0.0269	0.00500	0.0232	0	116	72	137			
Benzene	0.0269	0.00500	0.0232	0	116	75	125			
Carbon tetrachloride	0.0260	0.00500	0.0232	0	112	67	133			
Chloroform	0.0268	0.00500	0.0232	0	115	72	124			
Ethylbenzene	0.0221	0.00500	0.0232	0	95.1	75	125			
Methylene chloride	0.0287	0.00500	0.0232	0	124	63	137			
Tetrachloroethene	0.0241	0.00500	0.0232	0	104	67	139			
Toluene	0.0265	0.00500	0.0232	0	114	75	125			
Trichloroethene	0.0277	0.00500	0.0232	0	119	77	124			
Vinyl chloride	0.0267	0.00500	0.0232	0	115	58	126			
Surr: 1,2-Dichloroethane-d4	50.9		50.00		102	78	125			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.3	82	125			
Surr: Dibromofluoromethane	52.9		50.00		106	84	116			
Surr: Toluene-d8	45.4		50.00		90.8	84	118			

Sample ID:	MB-36587	Batch ID:	36587	TestNo:	SW8260B	Units:	mg/Kg
SampType:	MBLK	Run ID:	GCMS1_090817A	Analysis Date:	08/17/09 01:16 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.00500								
1,1,2,2-Tetrachloroethane	ND	0.00500								
1,1,2-Trichloroethane	ND	0.00500								
1,1-Dichloroethane	ND	0.00500								
1,1-Dichloroethene	ND	0.00500								
1,2-Dibromoethane	ND	0.00500								
1,2-Dichloroethane	ND	0.00500								
Benzene	ND	0.00500								
Carbon tetrachloride	ND	0.00500								
Chloroform	ND	0.00500								
Ethylbenzene	ND	0.00500								
Methylene chloride	ND	0.00500								
Tetrachloroethene	ND	0.00500								
Toluene	ND	0.00500								
Trichloroethene	ND	0.00500								
Vinyl chloride	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	50.5		50.00		101	78	125			
Surr: 4-Bromofluorobenzene	48.7		50.00		97.5	82	125			
Surr: Dibromofluoromethane	52.1		50.00		104	84	116			
Surr: Toluene-d8	45.4		50.00		90.9	84	118			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_090817A

Sample ID:	0908100-09AMS	Batch ID:	36587	TestNo:	SW8260B	Units:	mg/Kg-dry
SampType:	MS	Run ID:	GCMS1_090817A	Analysis Date:	08/17/09 03:58 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0537	0.00531	0.0531	0	101	65	136			
Benzene	0.0589	0.00531	0.0531	0	111	75	125			
Chlorobenzene	0.0519	0.00531	0.0531	0	97.7	75	123			
Toluene	0.0604	0.00531	0.0531	0	114	75	125			
Trichloroethene	0.0543	0.00531	0.0531	0	102	77	124			
Surr: 1,2-Dichloroethane-d4	57.0		53.09		107	78	125			
Surr: 4-Bromofluorobenzene	55.7		53.09		105	82	125			
Surr: Dibromofluoromethane	57.1		53.09		108	84	116			
Surr: Toluene-d8	47.9		53.09		90.2	84	118			

Sample ID:	0908100-09AMSD	Batch ID:	36587	TestNo:	SW8260B	Units:	mg/Kg-dry
SampType:	MSD	Run ID:	GCMS1_090817A	Analysis Date:	08/17/09 04:32 PM	Prep Date:	08/17/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0530	0.00504	0.0504	0	105	65	136	1.18	30	
Benzene	0.0595	0.00504	0.0504	0	118	75	125	1.03	30	
Chlorobenzene	0.0535	0.00504	0.0504	0	106	75	123	2.99	30	
Toluene	0.0609	0.00504	0.0504	0	121	75	125	0.891	30	
Trichloroethene	0.0534	0.00504	0.0504	0	106	77	124	1.53	30	
Surr: 1,2-Dichloroethane-d4	52.6		50.40		104	78	125	0	0	
Surr: 4-Bromofluorobenzene	52.0		50.40		103	82	125	0	0	
Surr: Dibromofluoromethane	53.8		50.40		107	84	116	0	0	
Surr: Toluene-d8	45.5		50.40		90.4	84	118	0	0	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS1_090817A

Sample ID:	ICV-090817	Batch ID:	R44898	TestNo:	SW8260B	Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS1_090817A	Analysis Date:	08/17/09 11:37 AM	Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	0.0536	0.00500	0.0464	0	116	70	130			
1,1,2,2-Tetrachloroethane	0.0429	0.00500	0.0464	0	92.5	70	130			
1,1,2-Trichloroethane	0.0559	0.00500	0.0464	0	121	70	130			
1,1-Dichloroethane	0.0544	0.00500	0.0464	0	117	70	130			
1,1-Dichloroethene	0.0529	0.00500	0.0464	0	114	80	120			
1,2-Dibromoethane	0.0440	0.00500	0.0464	0	94.7	70	130			
1,2-Dichloroethane	0.0552	0.00500	0.0464	0	119	70	130			
Benzene	0.0541	0.00500	0.0464	0	117	70	130			
Carbon tetrachloride	0.0535	0.00500	0.0464	0	115	70	130			
Chloroform	0.0536	0.00500	0.0464	0	116	80	120			
Ethylbenzene	0.0435	0.00500	0.0464	0	93.7	80	120			
Methylene chloride	0.0573	0.00500	0.0464	0	123	70	130			
Tetrachloroethene	0.0443	0.00500	0.0464	0	95.4	70	130			
Toluene	0.0529	0.00500	0.0464	0	114	80	120			
Trichloroethene	0.0555	0.00500	0.0464	0	120	70	130			
Vinyl chloride	0.0523	0.00500	0.0464	0	113	80	120			
Surr: 1,2-Dichloroethane-d4	51.6		50.00		103	78	125			
Surr: 4-Bromofluorobenzene	48.7		50.00		97.4	82	125			
Surr: Dibromofluoromethane	53.2		50.00		106	84	116			
Surr: Toluene-d8	44.5		50.00		89.0	84	118			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_090813A

Sample ID:	LCS-36525	Batch ID:	36525	TestNo:	SW8260B	Units:	mg/Kg
SampType:	LCS	Run ID:	GCMS2_090813A	Analysis Date:	08/13/09 10:18 AM	Prep Date:	08/13/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	0.0252	0.00500	0.0232	0	109	68	130			
1,1,2,2-Tetrachloroethane	0.0246	0.00500	0.0232	0	106	59	140			
1,1,2-Trichloroethane	0.0230	0.00500	0.0232	0	99.1	62	127			
1,1-Dichloroethane	0.0248	0.00500	0.0232	0	107	73	125			
1,1-Dichloroethene	0.0207	0.00500	0.0232	0	89.4	65	136			
1,2-Dibromoethane	0.0229	0.00500	0.0232	0	98.5	70	124			
1,2-Dichloroethane	0.0275	0.00500	0.0232	0	119	72	137			
Benzene	0.0230	0.00500	0.0232	0	99.0	75	125			
Carbon tetrachloride	0.0246	0.00500	0.0232	0	106	67	133			
Chloroform	0.0244	0.00500	0.0232	0	105	72	124			
Ethylbenzene	0.0232	0.00500	0.0232	0	100	75	125			
Methylene chloride	0.0234	0.00500	0.0232	0	101	63	137			
Tetrachloroethene	0.0226	0.00500	0.0232	0	97.6	67	139			
Toluene	0.0215	0.00500	0.0232	0	92.8	75	125			
Trichloroethene	0.0224	0.00500	0.0232	0	96.6	77	124			
Vinyl chloride	0.0262	0.00500	0.0232	0	113	58	126			
Total Xylenes	0.0691	0.00500	0.0696	0	99.3	75	125			
Surr: 1,2-Dichloroethane-d4	62.1		50.00		124	78	125			
Surr: 4-Bromofluorobenzene	50.9		50.00		102	82	125			
Surr: Dibromofluoromethane	51.6		50.00		103	84	116			
Surr: Toluene-d8	49.3		50.00		98.6	84	118			

Sample ID:	MB-36525	Batch ID:	36525	TestNo:	SW8260B	Units:	mg/Kg
SampType:	MBLK	Run ID:	GCMS2_090813A	Analysis Date:	08/13/09 11:26 AM	Prep Date:	08/13/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	ND	0.00500								
1,1,2,2-Tetrachloroethane	ND	0.00500								
1,1,2-Trichloroethane	ND	0.00500								
1,1-Dichloroethane	ND	0.00500								
1,1-Dichloroethene	ND	0.00500								
1,2-Dibromoethane	ND	0.00500								
1,2-Dichloroethane	ND	0.00500								
Benzene	ND	0.00500								
Carbon tetrachloride	ND	0.00500								
Chloroform	ND	0.00500								
Ethylbenzene	ND	0.00500								
Methylene chloride	ND	0.00500								
Tetrachloroethene	ND	0.00500								
Toluene	ND	0.00500								
Trichloroethene	ND	0.00500								
Vinyl chloride	ND	0.00500								
Total Xylenes	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	59.0		50.00		118	78	125			
Surr: 4-Bromofluorobenzene	51.8		50.00		104	82	125			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_090813A

Surr: Dibromofluoromethane	50.9	50.00	102	84	116	
Surr: Toluene-d8	49.8	50.00	99.6	84	118	

Sample ID: 0908100-05AMS	Batch ID: 36525	TestNo: SW8260B	Units: mg/Kg-dry
SampType: MS	Run ID: GCMS2_090813A	Analysis Date: 08/13/09 04:57 PM	Prep Date: 08/13/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0464	0.00521	0.0521	0	89.2	65	136			
Benzene	0.0535	0.00521	0.0521	0	103	75	125			
Chlorobenzene	0.0575	0.00521	0.0521	0	110	75	123			
Toluene	0.0525	0.00521	0.0521	0	101	75	125			
Trichloroethene	0.0520	0.00521	0.0521	0	99.9	77	124			
Surr: 1,2-Dichloroethane-d4	69.3		52.06		133	78	125			S
Surr: 4-Bromofluorobenzene	53.5		52.06		103	82	125			
Surr: Dibromofluoromethane	54.2		52.06		104	84	116			
Surr: Toluene-d8	51.1		52.06		98.1	84	118			

Sample ID: 0908100-05AMSD	Batch ID: 36525	TestNo: SW8260B	Units: mg/Kg-dry
SampType: MSD	Run ID: GCMS2_090813A	Analysis Date: 08/13/09 05:31 PM	Prep Date: 08/13/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1-Dichloroethene	0.0432	0.00493	0.0493	0	87.6	65	136	7.19	30	
Benzene	0.0496	0.00493	0.0493	0	101	75	125	7.57	30	
Chlorobenzene	0.0538	0.00493	0.0493	0	109	75	123	6.57	30	
Toluene	0.0495	0.00493	0.0493	0	100	75	125	5.98	30	
Trichloroethene	0.0485	0.00493	0.0493	0	98.3	77	124	7.08	30	
Surr: 1,2-Dichloroethane-d4	66.6		49.31		135	78	125	0	0	S
Surr: 4-Bromofluorobenzene	51.7		49.31		105	82	125	0	0	
Surr: Dibromofluoromethane	51.7		49.31		105	84	116	0	0	
Surr: Toluene-d8	48.3		49.31		97.9	84	118	0	0	

Qualifiers:

B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
DF	Dilution Factor	RL	Reporting Limit
J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
MDL	Method Detection Limit	J	Analyte detected between SDL and RL
ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_090813A

Sample ID:	ICV-090813	Batch ID:	R44844	TestNo:	SW8260B		Units:	mg/Kg
SampType:	ICV	Run ID:	GCMS2_090813A	Analysis Date:	08/13/09 09:46 AM		Prep Date:	

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
1,1,1-Trichloroethane	0.0501	0.00500	0.0464	0	108	70	130			
1,1,2,2-Tetrachloroethane	0.0480	0.00500	0.0464	0	103	70	130			
1,1,2-Trichloroethane	0.0449	0.00500	0.0464	0	96.7	70	130			
1,1-Dichloroethane	0.0487	0.00500	0.0464	0	105	70	130			
1,1-Dichloroethene	0.0411	0.00500	0.0464	0	88.6	80	120			
1,2-Dibromoethane	0.0451	0.00500	0.0464	0	97.3	70	130			
1,2-Dichloroethane	0.0547	0.00500	0.0464	0	118	70	130			
Benzene	0.0458	0.00500	0.0464	0	98.6	70	130			
Carbon tetrachloride	0.0493	0.00500	0.0464	0	106	70	130			
Chloroform	0.0475	0.00500	0.0464	0	102	80	120			
Ethylbenzene	0.0453	0.00500	0.0464	0	97.6	80	120			
Methylene chloride	0.0456	0.00500	0.0464	0	98.3	70	130			
Tetrachloroethene	0.0446	0.00500	0.0464	0	96.1	70	130			
Toluene	0.0427	0.00500	0.0464	0	91.9	80	120			
Trichloroethene	0.0448	0.00500	0.0464	0	96.5	70	130			
Vinyl chloride	0.0523	0.00500	0.0464	0	113	80	120			
Total Xylenes	0.135	0.00500	0.139	0	97.2	70	130			
Surr: 1,2-Dichloroethane-d4	59.7		50.00		119	78	125			
Surr: 4-Bromofluorobenzene	50.3		50.00		101	82	125			
Surr: Dibromofluoromethane	52.0		50.00		104	84	116			
Surr: Toluene-d8	48.9		50.00		97.9	84	118			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090814A

Sample ID:	LCS-36486	Batch ID:	36486		TestNo:		E300		Units:		mg/Kg
SampType:	LCS	Run ID:	IC_090814A		Analysis Date:		08/14/09 09:37 AM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		19.6	1.00	20.00	0	97.9	80	120			

Sample ID:	LCSD-36486	Batch ID:	36486		TestNo:		E300		Units:		mg/Kg
SampType:	LCSD	Run ID:	IC_090814A		Analysis Date:		08/14/09 09:52 AM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		19.4	1.00	20.00	0	97.0	80	120	0.921	20	

Sample ID:	MB-36486	Batch ID:	36486		TestNo:		E300		Units:		mg/Kg
SampType:	MBLK	Run ID:	IC_090814A		Analysis Date:		08/14/09 10:08 AM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		ND	1.00								

Sample ID:	0908100-05B MS	Batch ID:	36486		TestNo:		E300		Units:		mg/Kg-dry
SampType:	MS	Run ID:	IC_090814A		Analysis Date:		08/14/09 12:49 PM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		24.6	1.11	22.14	4.712	90.0	80	120			

Sample ID:	0908100-05B MSD	Batch ID:	36486		TestNo:		E300		Units:		mg/Kg-dry
SampType:	MSD	Run ID:	IC_090814A		Analysis Date:		08/14/09 01:04 PM		Prep Date:		08/12/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		24.6	1.11	22.14	4.712	89.8	80	120	0.155	20	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: IC_090814A

Sample ID:	ICV-090814	Batch ID:	R44853		TestNo:		E300			Units:	mg/Kg
SampType:	ICV	Run ID:	IC_090814A		Analysis Date:		08/14/09 09:16 AM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		10.3	1.00	10.00	0	103	90	110			

Sample ID:	CCV1-090814	Batch ID:	R44853		TestNo:		E300			Units:	mg/Kg
SampType:	CCV	Run ID:	IC_090814A		Analysis Date:		08/14/09 12:14 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		3.63	1.00	4.000	0	90.8	90	110			

Sample ID:	CCV2-090814	Batch ID:	R44853		TestNo:		E300			Units:	mg/Kg
SampType:	CCV	Run ID:	IC_090814A		Analysis Date:		08/14/09 01:36 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Fluoride		3.61	1.00	4.000	0	90.2	90	110			

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_090817A

Sample ID:	0908100-05B-DUP	Batch ID:	36580	TestNo:	D2216			Units:		WT%
SampType:	DUP	Run ID:	PMOIST_090817A	Analysis Date:	08/18/09 11:05 AM			Prep Date:		08/17/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture		10.6	0	0	10.74				1.75	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_090819A

Sample ID:	0908182-02A-DUP	Batch ID:	36671	TestNo:	D2216	Units:	WT%
SampType:	DUP	Run ID:	PMOIST_090819A	Analysis Date:	08/20/09 09:30 AM	Prep Date:	08/19/09

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Percent Moisture	7.48	0	0	7.605				1.63	30	

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_090814A

Sample ID:	MB-36551	Batch ID:	36551		TestNo:		SW9014			Units:	mg/Kg
SampType:	MBLK	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 03:46 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		ND	0.500								
Sample ID:	LCS-36551	Batch ID:	36551		TestNo:		SW9014			Units:	mg/Kg
SampType:	LCS	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 03:46 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		5.52	0.500	5.000	0	110	85	115			
Sample ID:	0908100-05B-MS	Batch ID:	36551		TestNo:		SW9014			Units:	mg/Kg-dry
SampType:	MS	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 03:46 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		6.94	0.541	5.412	0	128	75	125			S
Sample ID:	0908100-05B-MSD	Batch ID:	36551		TestNo:		SW9014			Units:	mg/Kg-dry
SampType:	MSD	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 03:46 PM			Prep Date:	08/14/09
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		7.03	0.557	5.574	0	126	75	125	1.36	30	S

Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

CLIENT: Larson & Associates
Work Order: 0908100
Project: Hobbs Test Shop

ANALYTICAL QC SUMMARY REPORT

RunID: UV/VIS_2_090814A

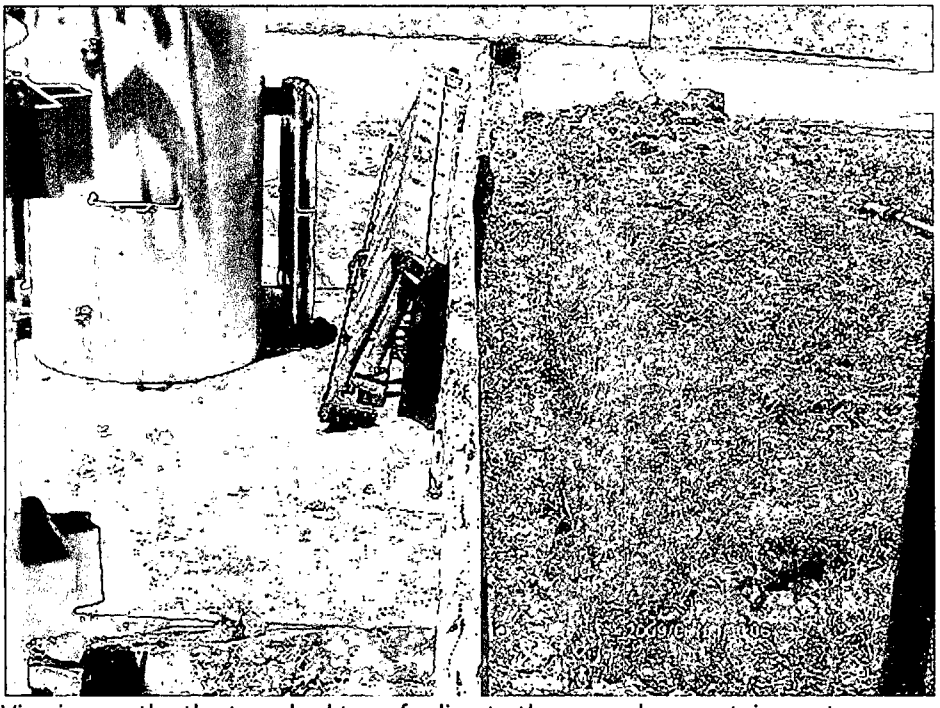
Sample ID:	ICV-090815	Batch ID:	R44866		TestNo:		SW9014		Units:		mg/Kg
SampType:	ICV	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 03:28 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		0.107	0.500	0.1000	0	107	85	115			

Sample ID:	CCV1-090815	Batch ID:	R44866		TestNo:		SW9014		Units:		mg/Kg
SampType:	CCV	Run ID:	UV/VIS_2_090814A		Analysis Date:		08/15/09 04:04 PM		Prep Date:		
Analyte		Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPD Limit	Qual
Cyanide, Total		0.226	0.500	0.2000	0	113	85	115			

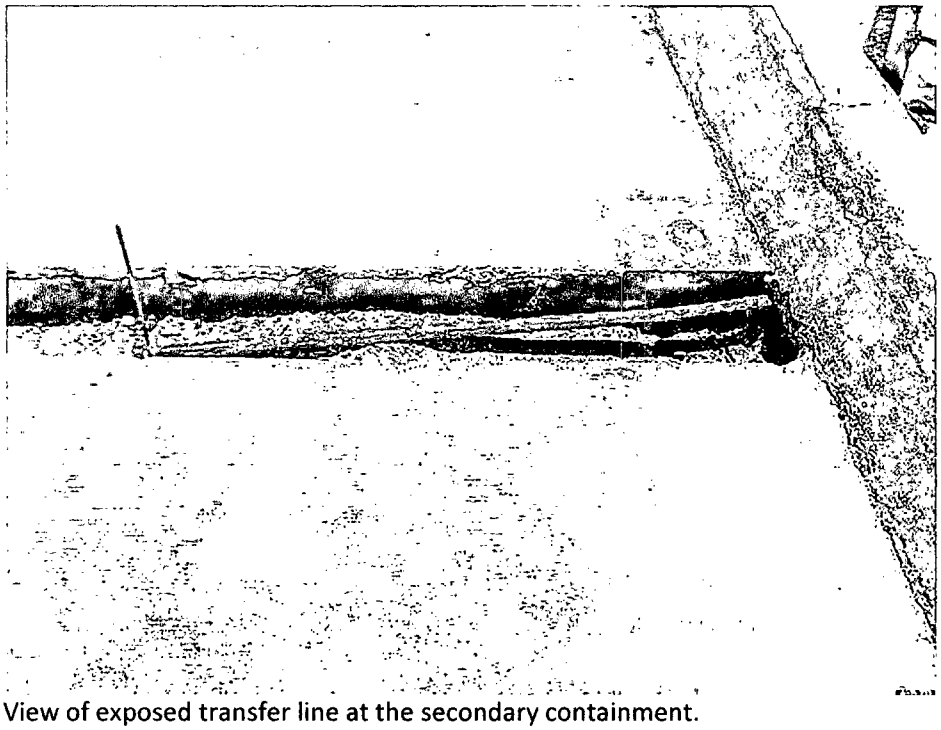
Qualifiers:				
	B	Analyte detected in the associated Method Blank	R	RPD outside accepted control limits
	DF	Dilution Factor	RL	Reporting Limit
	J	Analyte detected between MDL and RL	S	Spike Recovery outside control limits
	MDL	Method Detection Limit	J	Analyte detected between SDL and RL
	ND	Not Detected at the Method Detection Limit	N	Parameter not NELAC certified

Wood Group ESP
Hobbs Test Facility (GW-164)
8426 N Dal Paso
Hobbs, New Mexico
July 17, 2009

Photo Documentation



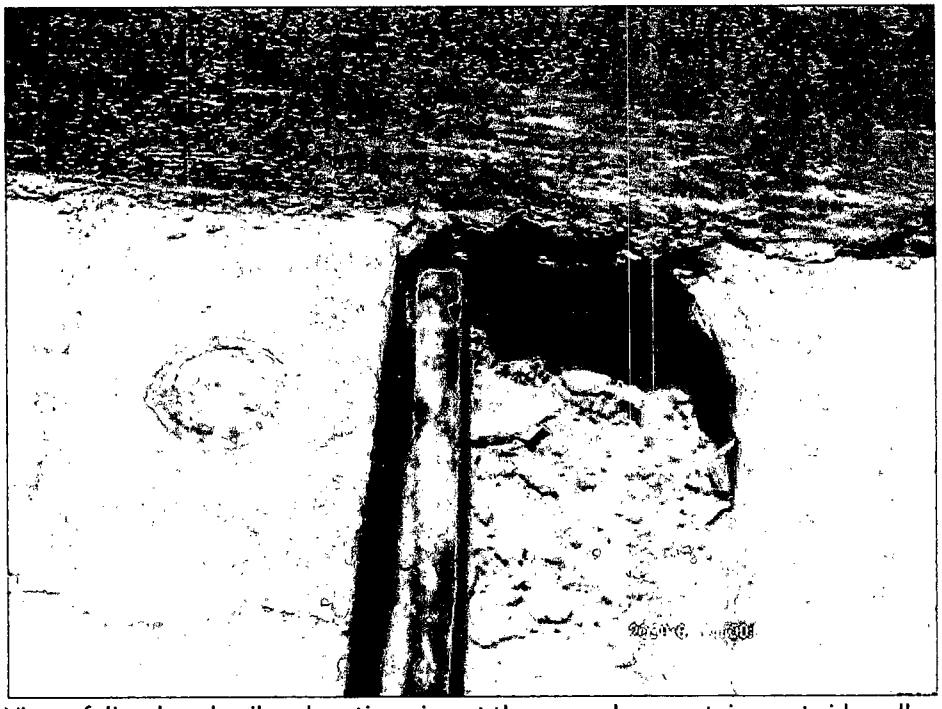
Viewing north: the trenched transfer line to the secondary containment.



View of exposed transfer line at the secondary containment.

Wood Group ESP
Hobbs Test Facility (GW-164)
8426 N Dal Paso
Hobbs, New Mexico
July 17, 2009

Photo Documentation



View of discolored soil and rusting pipe at the secondary containment sidewall.

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
1220 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: Wood Group ESP, Inc.	Contact: Mike Schornick, Environmental Engineer
Address: 8426 Dal Paso, Hobbs, New Mexico 88240	Telephone No.: (405) 671-2145
Facility Name: Hobbs Test Facility	Facility Type: Electric Submersible Pump Service Center

Surface Owner: Wood Group ESP, Inc.	Mineral Owner: N/A	Lease No.: N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	35	17S	38E					Lea

Latitude: N 32° 47' 51.0" Longitude: W 103° 07' 38.5"

NATURE OF RELEASE

Type of Release: Storm Water Containing Organic/Inorganic Compounds	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Underground Transfer Line	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 06/11/2009
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Underground transfer line from drum storage area sump to discharge tank was pressure tested, as required by condition of discharge permit (GW-164) and failed to hold pressure. Transfer pump was disconnected and underground line was excavated to expose the point of failure which appears to be under a concrete containment structure. No further excavation was performed and excavation was secured.

Describe Area Affected and Cleanup Action Taken.* Soil conditions appeared moist where underground line is routed under the concrete secondary containment. Pump was disconnected and notification initiated with OCD – Santa Fe Environmental Bureau personnel.

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: Mike Schornick, P.E.	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Mike.Schornick@woodgroup.com	Conditions of Approval:	Attached ☐
Date: 07/09/2009 Phone: (405) 671-2145		

* Attach Additional Sheets If Necessary

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
1220 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: Wood Group ESP, Inc.	Contact: Mike Schornick, Environmental Engineer
Address: 8426 Dal Paso, Hobbs, New Mexico 88240	Telephone No.: (405) 671-2145
Facility Name: Hobbs Test Facility	Facility Type: Electric Submersible Pump Service Center

Surface Owner: Wood Group ESP, Inc.	Mineral Owner: N/A	Lease No.: N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	35	17S	38E					Lea

Latitude: N 32° 47' 51.0" Longitude: W 103° 07' 38.5"

NATURE OF RELEASE

Type of Release: Storm Water Containing Organic/Inorganic Compounds	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Underground Transfer Line	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 06/11/2009
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Underground transfer line from drum storage area sump to discharge tank was pressure tested, as required by condition of discharge permit (GW-164) and failed to hold pressure. Transfer pump was disconnected and underground line was excavated to expose the point of failure which appears to be under a concrete containment structure. No further excavation was performed and excavation was secured.

Describe Area Affected and Cleanup Action Taken.* Soil conditions appeared moist where underground line is routed under the concrete secondary containment. Pump was disconnected and notification initiated with OCD – Santa Fe Environmental Bureau personnel.

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: Mike Schornick, P.E.	Approved by District Supervisor:	
Title: Environmental Engineer	Approval Date:	Expiration Date:
E-mail Address: Mike.Schornick@woodgroup.com	Conditions of Approval:	Attached ☐
Date: 9/10/09 Phone: (405) 671-2145		

* Attach Additional Sheets If Necessary

Affidavit of Publication

STATE OF NEW MEXICO)
) ss.
COUNTY OF LEA)

Joyce Clemens being first duly sworn on oath deposes and says that she is Advertisting Director of **THE LOVINGTON LEADER**, a daily newspaper of general paid circulation published in the English language at Lovington, Lea County, New Mexico; that said newspaper has been so published in such county continuously and uninterruptedly for a period in excess of Twenty-six (26) consecutive weeks next prior to the first publication of the notice hereto attached as hereinafter shown; and that said newspaper is in all things duly qualified to publish legal notices within the meaning of Chapter 167 of the 1937 Session Laws of the State of New Mexico.

That the notice which is hereto attached, entitled

Legal Notice

was published in a regular and entire issue of **THE LOVINGTON LEADER** and not in any supplement thereof, for one (1) day, beginning with the issue of August 13, 2009 and ending with the issue of August 13, 2009.

And that the cost of publishing said notice is the sum of $80.61 which sum has been (Paid) as Court Costs.

Joyce Clemens

Subscribed and sworn to before me this 13th day of August 2009

Debbie Schilling

Debbie Schilling
Notary Public, Lea County, New Mexico
My Commission Expires June 22, 2010

LEGAL NOTICE

PUBLIC NOTICE

Wood Group ESP, Inc., 6205 Sooner Road, Oklahoma City, Oklahoma, 73135 has submitted an application to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division for renewal of a discharge plan permit (GW- 164) for their Hobbs Service Facility located in the NW 1/4, NW 1/4 of Section 35, Township 17 South, Range 38 East in Lea County, New Mexico. The physical address of the facility is 8426 North Dal Paso, Hobbs, New Mexico, 88240. The facility is located approximately 5 miles north of Hobbs, New Mexico.

The facility is a local service center for reconditioning electric submersible pumps used in oil and gas production. The pumps are cleaned to remove oil and scale residues, tested for pumping performance and repaired, if necessary. The pumps external surface is cleaned with a high-pressured steam cleaner. The wash water is collected in a collection sump and transferred to an above ground storage tank. A phosphoric acid based solution is used for removing scale within the internal cavities of the pump in a closed loop system. The acid solution is returned to a fiberglass vat and is re-used until it loses its efficiency. The spent solution is then neutralized with soda ash and transferred to a 330 gallon tote. The facility uses a degreaser for mopping floors on a daily basis. The wash water is captured in a sump and transferred to a 1,000 gallon aboveground storage tank. Used oil is removed from the pump gear housing and placed in drums for pickup in a blend fuels recycling program. Parts washers utilizing petroleum naphtha and commercial solvent are used to clean nuts and bolts. The waste parts washing fluid is disposed off site by a commercial disposal company. Approximately 6 bbls/day of pump and floor wash water, 10 gallons/day of dilute phosphoric acid based solution, 4 gallons/month of parts cleaning solution and 2 gallons/month of used motor oil and hydraulic fluid is generated at the facility. All liquids utilized at the facility are stored in dedicated above ground storage tanks or drums prior to offsite disposal or recycling at an OCD approved site. All storage tanks are within properly engineered and OCD approved secondary containments.

The aquifer most likely to be affected is between 55 and 60 feet below ground surface, and the total dissolved solids concentration of this aquifer is approximately 600 mg/l.

Any interested person or persons may obtain information; submit comments or request to be placed on a facility-specific mailing list for future notices by contacting Leonard Lowe at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3492. The OCD will accept comments and statements of interest regarding the renewal and will create a facility-specific mailing list for persons who wish to receive future notices.

Published in the Lovington Leader August 13, 2009.

Affidavit of Publication

State of New Mexico,
County of Lea.

I, DANIEL RUSSELL
EDITOR
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period

of 1 issue(s).
Beginning with the issue dated
August 07, 2009
and ending with the issue dated
August 07, 2009

EDITOR
Sworn and subscribed to before me
this 10th day of
August, 2009

Notary Public

My commission expires
June 16, 2013
(Seal)

OFFICIAL SEAL
Linda M Jones
NOTARY PUBLIC - STATE OF NEW MEXICO
My Commission Expires: _____

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

NOTICE OF PUBLICATION

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-048) Mr. Bob Stewart, Environmental Coordinator, Davis Gas Processing Inc. 211 North Colorado, Midland Texas 79701, has submitted a renewal application for the previously approved discharge plan for their Denton Davis Gas Plant located in NW/4 SW/4 of Section 2, Township 15 South, Range 37E East, NMPM, Lea County. The facility compresses, treats, dehydrates and performs natural gas recovery. Approximately 750 gallons/day of produced water and 210 bbls/day of condensate are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 40 - 105 feet, with a total dissolved solids concentration of approximately 610 - 1600 mg/L.

(GW-355) Transwestern Pipeline Company P.O. Box 1717, Roswell N.M. 88202-1717, has submitted a renewal application for the previously approved discharge plan for their Abatement of ground water and vadose zone contamination at oil and gas sites, identified at the non-operational Bell Lake Gas Plant located in the SW/4 NE/4 of Section 1, Township 24 South, Range 33 East, NMPM, Lea County. The remediation consists of pumping groundwater with elevated concentrations of Benzene in to yet to be approved ponds. Proposed effluents to be located on site will be stored in the ponds. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 90 - 95 feet, with a total dissolved solids concentration of approximately 800 mg/L.

(GW-164) Mr. Mike Schornick, Environmental Engineer, Wood Group ESP, Inc. 6205 Sooner Road, Oklahoma City, Oklahoma 73135 has submitted a renewal application for the previously approved discharge plan for their Oil and Gas Service Company at 8426 N. Dal Paso, Hobbs, located in the NW/4 WW/4 of Section 35, Township 17 South, Range 38 East, NMPM, Lea County. The facility is a service center for reconditioning electric submersible pumps used in the oil and gas industry. Approximately 6000 gal/month of rinsate waste water, 1000 gal/month of waste water, 275 gallons of neutralized acid waste are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 56 feet, with a total dissolved solids concentration of approximately 458 mg/L.

Ms. Diane Kocis, Senior Environmental Specialist, DCP Midstream LP, 370 17th Street, Suite 2500, Denver CO 80202 has submitted a renewal application for the previously approved discharge plan for their:
(GW-162) Antelope Ridge Gas Plant located in SW/4 SE/4 of Section 15, Township 23 South, Range 34 East, NMPM, Lea County. The facility is a natural gas processing plant that removes liquids from natural gas. Approximately 10 bbls/month of waste water, 10 bbls/year of waste oil, and 10 bbls/month of wash water are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 400 feet, with a total dissolved solids concentration of approximately 55 mg/L. (GW-167) Malaga Compressor Station, located in the SW/4 NE/4 of Section 3, Township 24 South, Range 28 East, NMPM, Eddy County. The facility is currently non operational but is capable to provide compression of natural gas for the Carlsbad gathering system. Storm water is the only effluent produced at this facility and is properly stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 39 feet, with a total dissolved solids concentration of approximately 5140 mg/L.

The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m. Monday through Friday, or may also be viewed at the NMOCD web site http://www.emnrd.state.nm.us/ocd/. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en espan_ol, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energía, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio´n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Dorothy Phillips, 505-476-3461)

THE SANTA FE
NEW MEXICAN
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RECEIVED

2009 AUG 13 AM 11 53

NM EMNRD OIL CONSERV
1220 S ST FRANCIS DR
SANTA FE NM 87505

ALTERNATE ACCOUNT: 56689
AD NUMBER: 00294153 ACCOUNT: 00002212
LEGAL NO: 87815 P.O. #: 52100-00000206

470 LINES 1 TIME(S)	460.53
AFFIDAVIT:	7.00
TAX:	37.69
TOTAL:	505.22

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, V.Wright, being first duly sworn declare and say that I am Legal Advertising Representative of THE SANTA FE NEW MEXICAN, a daily newspaper published in the English language, and having a general circulation in the Counties of Santa Fe and Los Alamos, State of New Mexico and being a newspaper duly qualified to publish legal notices and advertisements under the provisions of Chapter 167 on Session Laws of 1937; that the publication # 87815 a copy of which is hereto attached was published in said newspaper 1 day(s) between 08/12/2009 and 08/12/2009 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 12nd day of August, 2009 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ V Wright
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscribed and sworn to before me on this 12nd day of August, 2009

Notary Mary Margaret Vigil-Weideman

Commission Expires: 11-13-2012

OFFICIAL SEAL
Mary Margaret Vigil-Weideman
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 11-13-12

NOTICE OF PUBLICATION

STATE OF NEW MEXICO ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT OIL CONSERVATION DIVISION

Notice is hereby given that pursuant to New Mexico Water Quality Control Commission Regulations (20.6.2.3106 NMAC), the following discharge permit application(s) has been submitted to the Director of the New Mexico Oil Conservation Division ("NMOCD"), 1220 S. Saint Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

(GW-048) Mr. Bob Stewart, Environmental Coordinator, Davis Gas Processing Inc. 211 North Colorado, Midland Texas 79701, has submitted a renewal application for the previously approved discharge plan for their Denton Davis Gas Plant located in NW/4 SW/4 of Section 2, Township 15 South, Range 37E East, NMPM, Lea County. The facility compresses, treats, dehydrates and performs natural gas recovery. Approximately 750 gallons/day of produced water and 210 bbls/day of condensate are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 40 - 105 feet, with a total dissolved solids concentration of approximately 610 - 1600 mg/L.

(GW-355) Transwestern Pipeline Company P.O. Box 1717, Roswell N.M. 88202-1717, has submitted a renewal application for the previously approved discharge plan for their Abatement of ground water and vadose zone contamination at oil and gas sites, identified at the non-operational Bell Lake Gas Plant located in the SW/4 NE/4 of Section 1, Township 24 South, Range 33 East, NMPM, Lea County. The remediation consists of pumping groundwater with elevated concentrations of Benzene in to yet to be approved ponds. Proposed effluents to be located on site will be stored in the ponds. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 90 - 95 feet, with a total dissolved solids concentration of approximately 800 mg/L.

(GW-171) Ms. Jennifer Lange of BP America Production Company, 200 Energy Court, Farmington NM 87401has submitted a renewal application for the previously approved discharge plan permit for their 3-C Compressor Station located in the SW/4 SE/4 of Section 29, Township 29 North, Range 12 West, NMPM, San Juan County, approximately one mile southwest of McGee Park and on the west side of Gallegos Canyon. The facility compresses gas from 50 psi to 300 psi and is able to handle 10 million SCF of gas per day. Approximately 300 gallons of lube oil, 400 bbls of produced water and 21 bbls of waste water are stored and/or generated onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 200 - 250 feet, with a total dissolved solids concentration of approximately 1000 mg/L.

(GW-164) Mr. Mike Schornick, Environmental Engineer, Wood Group ESP, Inc. 6205 Sooner Road, Oklahoma City, Oklahoma 73135 has submitted a renewal application for the previously approved discharge plan for their Oil and Gas Service Company at 8426 N. Dal Paso, Hobbs, located in the NW/4 WW/4 of Section 35, Township 17 South, Range 38 East, NMPM, Lea County. The facility is a service center for reconditioning electric submersible pumps used in the oil and gas industry. Approximately 6000 gal/month of rinsate waste water, 1000 gal/month of waste water, 275 gallons of neutralized acid waste are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 56 feet, with a total dissolved solids concentration of approximately 458 mg/L.

(GW-051) Val Verde Gas Gathering Company L.P., has submitted a renewal application for the previously approved discharge plan for their Val Verde Gas Plant located in the SE/4 SE/4 of Section 11, Township 29 North, Range 11 West, NMPM, San Juan County. The facility removes CO2 from natural gas. Approximately 250 gallons/month of used oil, 300 bbls/year of pigging liquids, and 1000 bbls/month of waste water are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 26.5 - 55.5 feet, with a total dissolved solids concentration of approximately 5330 - 7620 mg/L.

Ms. Diane Kocis, Senior Environmental Specialist, DCP Midstream LP, 370 17th Street, Suite 2500, Denver CO 80202 has submitted a renewal application for the previously approved discharge plan for their:

(GW-162) Antelope Ridge Gas Plant located in SW/4 SE/4 of Section 15, Township 23 South, Range 34 East, NMPM, Lea County. The facility is a natural gas processing plant that removes liquids from natural gas. Approximately 10 bbls/month of waste water, 10 bbls/year of waste oil, and 10 bbls/month of wash water are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 400 feet, with a total dissolved solids concentration of approximately 55 mg/L. (GW-167) Malaga Compressor Station, located in the SW/4 NE/4 of Section 3, Township 24 South, Range 28 East, NMPM, Eddy County. The facility is currently non operational but is capable to provide compression of natural gas for the Carlsbad gathering system. Storm water is the only effluent produced at this facility and is properly stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 39 feet, with a total dissolved solids concentration of approximately 5140 mg/L.

Mr. John Cannon, Environmental Specialist, Chevron USA, 332 Road 3100, Aztec N.M. 87410 has submitted a renewal application for the previously approved discharge plan for their: (GW-165) La Plata CDP # 2 compressor station located in the NE/4 SW/4 of Section 25, Township 32 North, Range 13 West, NMPM, San Juan County. The facility compresses field natural gas. Approximately 30 bbls/month of produced water, 75 gallons/6 months of wash down water and 80 gallons/month of waste oil are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 26 feet, with a total dissolved solids concentration of approximately 748 mg/L. (GW-166) La Plata CDP # 7 compressor station located in the NE/4 SE/4 of Section 1, Township 31 North, Range 13 West, NMPM, San Juan County. The facility compresses field natural gas. Approximately 30 bbls/month of produced water, 70 gallons/3 months of wash down water and 50 gallons/month of waste oil are generated and stored in onsite. Groundwater most likely to be affected by a spill, leak or accidental discharge is at a depth of approximately 26 feet, with a total dissolved solids concentration of approximately 748 mg/L.

The discharge plan addresses how oilfield products and waste will be properly handled, stored, and disposed of, including how spills, leaks, and other accidental discharges to the surface will be managed in order to protect fresh water.

The NMOCD has determined that the application is administratively complete and has prepared a draft permit. The NMOCD will accept comments and statements of interest regarding this application and will create a facility-specific mailing list for persons who wish to receive future notices. Persons interested in obtaining further information, submitting comments or requesting to be on a facility-specific mailing list for future notices may contact the Environmental Bureau Chief of the Oil Conservation Division at the address given above. The administrative completeness determination and draft permit may be viewed at the above address between 8:00 a.m. and 4:00 p.m., Monday through Friday, or may also be viewed at the NMOCD web site http://www.emnrd.state.nm.us/ocd/. Persons interested in obtaining a copy of the application and draft permit may contact the NMOCD at the address given above. Prior to ruling on any proposed discharge permit or major modification, the Director shall allow a period of at least thirty (30) days after the date of publication of this notice, during which interested persons may submit comments or request that NMOCD hold a public hearing. Requests for a public hearing shall set forth the reasons why a hearing should be held. A hearing will be held if the Director determines that there is significant public interest.

If no public hearing is held, the Director will approve or disapprove the proposed permit based on information available, including all comments received. If a public hearing is held, the director will approve or disapprove the proposed permit based on information in the permit application and information submitted at the hearing.

Para obtener más información sobre esta solicitud en espan_ol, sirvase comunicarse por favor: New Mexico Energy, Minerals and Natural Resources Department (Depto. Del Energia, Minerals y Recursos Naturales de Nuevo México), Oil Conservation Division (Depto. Conservacio n Del Petróleo), 1220 South St. Francis Drive, Santa Fe, New México (Contacto: Dorothy Phillips, 505-476-3461)

GIVEN under the Seal of New Mexico Oil Conservation Commission at Santa Fe, New Mexico, on this 5th day of August 2009.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

S E A L

Mark Fesmire,
Director
Legal#87815
Pub. August 12, 2009

PUBLIC NOTICE

Wood Group ESP, Inc., 6205 Sooner Road, Oklahoma City, Oklahoma, 73135 has submitted an application to the New Mexico Energy, Minerals and Natural Resources Department, Oil Conservation Division for renewal of a discharge plan permit (GW- 164) for their Hobbs Service Facility located in the NW ¼, NW ¼ of Section 35, Township 17 South, Range 38 East in Lea County, New Mexico. The physical address of the facility is 8426 North Dal Paso, Hobbs, New Mexico, 88240. The facility is located approximately 5 miles north of Hobbs, New Mexico.

The facility is a local service center for reconditioning electric submersible pumps used in oil and gas production. The pumps are cleaned to remove oil and scale residues, tested for pumping performance and repaired, if necessary. The pumps external surface is cleaned with a high-pressured steam cleaner. The wash water is collected in a collection sump and transferred to an above ground storage tank. A phosphoric acid based solution is used for removing scale within the internal cavities of the pump in a closed loop system. The acid solution is returned to a fiberglass vat and is re-used until it loses its efficiency. The spent solution is then neutralized with soda ash and transferred to a 330 gallon tote. The facility uses a degreaser for mopping floors on a daily basis. The wash water is captured in a sump and transferred to a 1,000 gallon aboveground storage tank. Used oil is removed from the pump gear housing and placed in drums for pickup in a blend fuels recycling program. Parts washers utilizing petroleum naphtha and commercial solvent are used to clean nuts and bolts. The waste parts washing fluid is disposed off site by a commercial disposal company. Approximately 6 bbls/day of pump and floor wash water, 10 gallons/day of dilute phosphoric acid based solution, 4 gallons/month of parts cleaning solution and 2 gallons/month of used motor oil and hydraulic fluid is generated at the facility. All liquids utilized at the facility are stored in dedicated above ground storage tanks or drums prior to offsite disposal or recycling at an OCD approved site. All storage tanks are within properly engineered and OCD approved secondary containments.

The aquifer most likely to be affected is between 55 and 60 feet below ground surface, and the total dissolved solids concentration of this aquifer is approximately 600 mg/l.

Any interested person or persons may obtain information; submit comments or request to be placed on a facility-specific mailing list for future notices by contacting Leonard Lowe at the New Mexico OCD at 1220 South St. Francis Drive, Santa Fe, New Mexico 87505, Telephone (505) 476-3492. The OCD will accept comments and statements of interest regarding the renewal and will create a facility-specific mailing list for persons who wish to receive future notices.

Approved 8.6.9

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Thursday, August 06, 2009 1:56 PM
To: 'Schornick, Mike'
Subject: RE: Wood Group ESP, Inc. Hobbs Test Facility (GW-164) Cover Letter, Release Notification (C-141) and Sampling Plan

Mr. Schornick,

The OCD approves your submitted work plan.

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Schornick, Mike [mailto:Mike.Schornick@woodgroup.com]
Sent: Thursday, July 16, 2009 1:41 PM
To: Lowe, Leonard, EMNRD
Cc: VonGonten, Glenn, EMNRD; Baron, Sam; Mark Larson
Subject: Wood Group ESP, Inc. Hobbs Test Facility (GW-164) Cover Letter, Release Notification (C-141) and Sampling Plan
Importance: High

Mr. Lowe:

Pursuant to your request, attached please find my cover letter, Form C-141, and Sampling Plan in regards to the WGESP Hobbs Test Facility.

Please note in Item 3 of the Sampling and Analysis Plan that our consultant has recommended an extensive list of constituents be evaluated based on review of the materials which could have been historically present in the area of concern. We feel this is a conservative list and will more than include all possible or potential constituents of concern.

With your concurrence, we are prepared to initiate the investigation next week. I plan to send the original version of the attachments to you and the district office via overnight mail today.

Please let me know if you have questions or require modifications.

Sincerely,

Mike Schornick, P.E.
Environmental Engineer
Wood Group ESP, Inc.
6205 Sooner Road
Oklahoma City, Oklahoma 73135
(405) 671-2145 (office)
(405) 290-8523 (cell)

****

Wood Group ESP Inc.

Wood Group ESP Inc.
6500 S.E. 59th St (73135)
P.O. Box 15070 (73155)
Oklahoma City, OK USA

Tel: 011 1 (405) 670-1431
Fax: 011 1 (405) 670-5463
www.woodgroup-esp.com

July 16, 2009

Mr. Leonard Lowe
Environmental Engineer
New Mexico Oil Conservation Division
State of New Mexico
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Release Notification and Sampling Plan for Transfer Line Investigation
Wood Group ESP, Inc., Hobbs Test Facility (GW-164)
8426 North Dal Paso, Hobbs, New Mexico

Dear Mr. Lowe:

The enclosed release notification (C-141) and sampling plan is submitted to the New Mexico Oil Conservation Division (OCD) by Wood Group ESP, Inc. (Wood Group) transfer line release investigation at the Wood Group Hobbs Test Facility located at 8426 North Dal Paso in Hobbs, New Mexico. The transfer line failed a pressure test that was required as a condition of the discharge permit (GW-164). Wood Group proposes to perform an investigation that includes collecting soil samples for laboratory analysis during the week of July 20, 2009. The laboratory analytical results will be submitted to the OCD within 45 days after receiving the final laboratory report. I will contact you as soon as possible if there is a change in the field schedule. Please contact me at (405) 671-2145 or email Mike.Schornick@woodgroup.com if you have questions.

Sincerely,

Mike Schornick, P.E.,
Environmental Engineer
Mike.Schornick@woodgroup.com

Encl.

cc: Larry Hill, OCD District 1 – Hobbs

Sampling and Analysis Plan
Underground Transfer Line Release
Wood Group ESP, Inc., Hobbs Test Facility
July 15, 2009

The following sampling and analysis plan is submitted to the New Mexico Oil Conservation Division (OCD) by Wood Group ESP, Inc. (Wood Group) for a potential release of liquids from an underground transfer line at its Hobbs Test Facility (Facility) located at 8426 North Dal Paso, in Hobbs, New Mexico. The legal description for the Facility is Unit D (NW/4, NW/4), Section 35, Township 17 South and Range 38 East. The latitude and longitude is 32° 47' 51.0" north and 103° 07' 38.5" west, respectively. The Facility is a regional center that services electrical submersible pumps used in the oil and gas industry and operated under discharge permit GW-164 administered by the OCD.

On June 11, 2009, Wood Group personnel pressure tested a subsurface transfer line that conveys liquid from a sump in a covered drum storage area to a non-hazardous waste water tank, as a condition of the discharge permit. The transfer line failed to the test and the buried line was excavated to isolate the release point. The line was excavated to the point where the line extends beneath a concrete containment structure. Moist soil conditions were observed near point where transfer line disappeared beneath the concrete containment. An initial form C-141 (*Release Notification and Corrective* Action) is attached and Wood Group proposes the following actions:

1. Wood Group will remove the transfer line from service and manage liquid inside the secondary containment as allowed under the discharge permit;

2. Wood Group proposes to collect samples to assess the release. Soil samples will be collected from a boring to be installed using a TerraProbe® direct-push sampler near the point where the transfer line disappears beneath the concrete containment and moist soil conditions were observed. The boring will be advanced to refusal depth or approximately 12 feet below ground surface (BGS), whichever occurs first. Soil samples will be collected in 4-foot increments using a stainless steel core barrel equipped with a dedicated polyethylene liners. The polyethylene liners will be split length wise to expose the soil core sample for physical examination and screening using a calibrated photoionization detector (PID). Wood Group will initially select two (2) samples exhibiting visual contamination or highest PID values for laboratory analysis. The samples will be placed in clean glass sample containers to near-zero headspace, sealed labeled and placed in an ice-filled chest for transport under chain of custody control to an environmental laboratory. The laboratory will analyze the sample for the New Mexico Water Quality Control Commission (WQCC) constituents (20.6.2.3103(A) NMAC) excluding nitrate, uranium, radium 226 and radium 228. Additional samples may be analyzed depending on the results of the initial samples;

3. Wood Group will evaluate the initial sample results to determine if additional samples should be analyzed;

4. Wood Group will prepare a report for submittal to the OCD within 45 days following receipt of the final laboratory report;

5. Wood Group will provide notification to OCD environmental staff in Santa Fe and Hobbs, New Mexico at least 48 hours before commencing field investigations.

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
1220 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: Wood Group ESP, Inc.	Contact: Mike Schornick, Environmental Engineer
Address: 8426 Dal Paso, Hobbs, New Mexico 88240	Telephone No.: (405) 671-2145
Facility Name: Hobbs Test Facility	Facility Type: Electric Submersible Pump Service Center

Surface Owner: Wood Group ESP, Inc.	Mineral Owner: N/A	Lease No.: N/A

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	35	17S	38E					Lea

Latitude: N 32° 47' 51.0" Longitude: W 103° 07' 38.5"

NATURE OF RELEASE

Type of Release: Storm Water Containing Organic/Inorganic Compounds	Volume of Release: Unknown	Volume Recovered: None
Source of Release: Underground Transfer Line	Date and Hour of Occurrence: Unknown	Date and Hour of Discovery: 06/11/2009
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.* Underground transfer line from drum storage area sump to discharge tank was pressure tested, as required by condition of discharge permit (GW-164) and failed to hold pressure. Transfer pump was disconnected and underground line was excavated to expose the point of failure which appears to be under a concrete containment structure. No further excavation was performed and excavation was secured.

Describe Area Affected and Cleanup Action Taken.* Soil conditions appeared moist where underground line is routed under the concrete secondary containment. Pump was disconnected and notification initiated with OCD – Santa Fe Environmental Bureau personnel.

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: Mike Schornick, P.E.	Approved by District Supervisor:
Title: Environmental Engineer	Approval Date: / Expiration Date:
E-mail Address: Mike.Schornick@woodgroup.com	Conditions of Approval: / Attached ☐
Date: 07/09/2009 Phone: (405) 671-2145	

* Attach Additional Sheets If Necessary

Wood Group ESP, Inc.
Hobbs Test Facility
GW-164
June 23, 2009

Photo Documentation

Viewing south covered secondary containment.

Viewing south containment with sump.

Wood Group ESP, Inc.
Hobbs Test Facility
GW-164
June 23, 2009

Photo Documentation

View of sump with transfer line.

View of sump, transfer line, and pump in the secondary containment.

Wood Group ESP, Inc.
Hobbs Test Facility
GW-164
June 23, 2009

Photo Documentation

Viewing north of secondary containment with Mop Wash Water Tank.

Wood Group ESP, Inc.
Hobbs Test Facility
GW-164
June 23, 2009

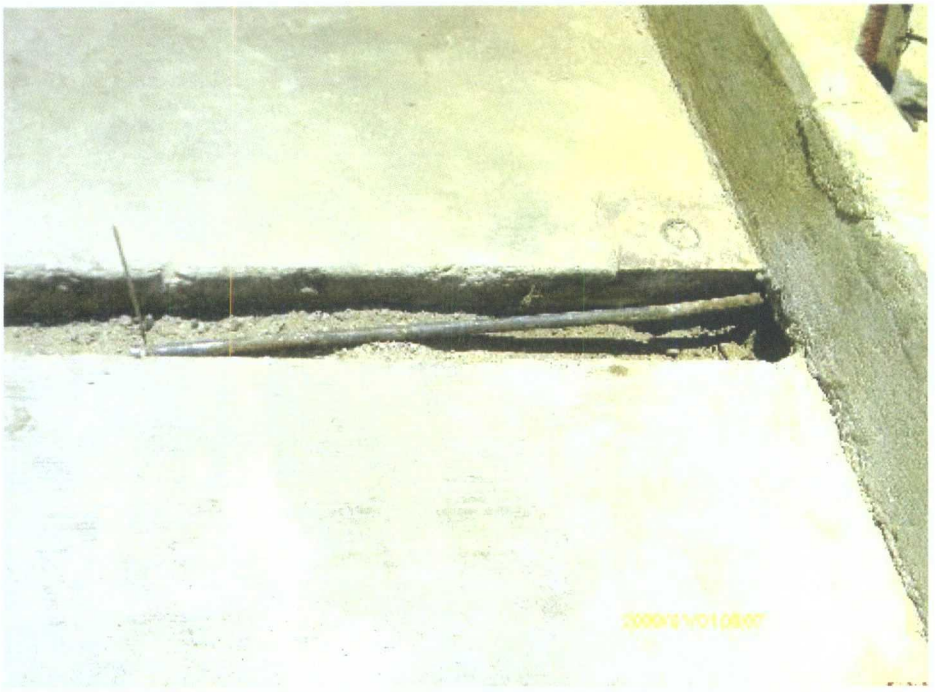
Photo Documentation

Another view of containment with Mop Wash Water Tank (white poly tank).

Wood Group ESP
Hobbs Test Facility (GW-164)
8426 N Dal Paso
Hobbs, New Mexico
July 17, 2009

Photo Documentation

Viewing north: the trenched transfer line to the secondary containment.



View of exposed transfer line at the secondary containment.

Wood Group ESP
Hobbs Test Facility (GW-164)
8426 N Dal Paso
Hobbs, New Mexico
July 17, 2009

Photo Documentation

View of discolored soil and rusting pipe at the secondary containment sidewall.

Lowe, Leonard, EMNRD

From: Lowe, Leonard, EMNRD
Sent: Tuesday, June 23, 2009 2:01 PM
To: 'Michelle Green'
Subject: RE: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

Michelle,

As discussed per our conversation this afternoon.

The OCD approves your prescribed sampling and analysis plan, but would like to include the following:

1. Verify what type of fluids are and were stored in the containment area previously.
2. Verify what type of constituents in those items held within the containment area are noted within WQCC 3103.
3. Submit a plan to test for those criteria.
4. Submit a full view of photographs describing the set up pertaining to these sumps/drain lines.

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Michelle Green [mailto:michelle@laenvironmental.com]
Sent: Monday, June 22, 2009 4:48 PM
To: Lowe, Leonard, EMNRD
Subject: RE: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

Thank you I will think about them in my sleep. Have a good evening. I am on my way out. Talk to you tomorrow.

Thank you,

Michelle

From: Lowe, Leonard, EMNRD [mailto:Leonard.Lowe@state.nm.us]
Sent: Monday, June 22, 2009 5:45 PM
To: Michelle Green
Subject: RE: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

A few questions to ponder over until tomorrow:

1. The report indicates the line went from "the sump in the covered drum storage containment to an above ground non-hazardous waste water tank", what are the fluids in the barrels in this storage area?

2. How big is that sump, volume? Pictures?
3. Has the fluids that's been taken to the Class II well ever been tested? If so, when? What was in the fluids?
4. When was the last test? Did that test pass?

More questions tomorrow.

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
Santa Fe, N.M. 87505
Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
Website: http://www.emnrd.state.nm.us/ocd/

From: Michelle Green [mailto:michelle@laenvironmental.com]
Sent: Monday, June 22, 2009 4:32 PM
To: Lowe, Leonard, EMNRD
Subject: RE: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

Hello Leo,

I have not heard from Glenn yet.

I will be in the office all day tomorrow.

Just let me know.

Thank you,

Michelle L. Green
Larson & Associates, Inc.
507 N Marienfeld, Suite 200
Midland, TX 79701

Office: 432.687.0901
Fax: 432.687.0789
Cell: 432.934.3231

Larson & Associates, Inc.
Environmental Consultants

From: Lowe, Leonard, EMNRD [mailto:Leonard.Lowe@state.nm.us]
Sent: Monday, June 22, 2009 5:31 PM
To: Michelle Green

Subject: RE: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

Michelle Green,

Has Glenn von Gonten gotten with you on this?

If not, can we discuss this tomorrow morning.
I have a few questions.

Thanks

llowe

Leonard Lowe
Environmental Engineer
Oil Conservation Division/EMNRD
1220 S. St. Francis Drive
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Office: 505-476-3492
Fax: 505-476-3462
E-mail: leonard.lowe@state.nm.us
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From: Michelle Green [mailto:michelle@laenvironmental.com]
Sent: Wednesday, June 17, 2009 10:04 AM
To: VonGonten, Glenn, EMNRD; Johnson, Larry, EMNRD; Lowe, Leonard, EMNRD
Cc: Schornick, Mike; Mark Larson
Subject: Notification of Transfer Line Test Results, Wood Group ESP, Inc., Hobbs Test Facility (GW-164), Hobbs, New Mexico

Good morning Mr. Von Gonten,

Attached is the notification of the Transfer Line Test Results for the Wood Group ESP Facility located in Hobbs, NM.

If you have any questions or require additional information please let me know.

Thank you,

Michelle L. Green
Larson & Associates, Inc.
507 N Marienfeld, Suite 200
Midland, TX 79701

Office: 432.687.0901
Fax: 432.687.0789
Cell: 432.934.3231

Larson & Associates, Inc.
Environmental Consultants

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