AP - 113

GENERAL CORRESPONDENCE

2013

CONESTOGA-ROVERS
& ASSOCIATES

14998 West 6th Avenue, Suite 800, Golden, Colorado 80401
Telephone: (303) 974-0942 Fax: (303) 974-0936
www.CRAworld.com

October 11, 2013

Glenn Von Gonten
Senior Hydrologist
Environmental Bureau
Oil Conservation Division
Energy, Minerals and Natural Resources Department
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Holly Energy Partners – Status Report for Hobbs Tank 5201, NW 1/4 of the NW 1/4 of Section 22, T19S; R38E, Lea County, New Mexico

Dear Mr. Von Gonten:

Attached please find two copies of the Status Report for the Holly Energy Partners Hobbs Tank 5201 site located in Section 22, Township 19 South, Range 38 East, Lea County, New Mexico for your review. In addition, each copy contains a digital file of the report.

Please call William Green (HEP - 575.748.8968) (bill.green@hollyenergy.com) or myself (720.974.0942) (bstephenson@craworld.com), if you have any questions or comments.

Sincerely,

Brad Stephenson, P.G.

Project Manager

cc: William Green

Attachments

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Thursday, March 13, 2014 10:59 AM
To: 'Stephenson, Brad'; Stockweather, Allison
Cc: VonGonten, Glenn, EMNRD
Subject: RE: Conference confirmation : Holly Tank 5201 (AP-113) Communication Meeting

Brad and Allison:

The New Mexico Oil Conservation Division (OCD) perceives based on the meeting and work completed to date that the operator has the remedial system in place and is monitoring. OCD is currently updating its administrative record for "AP-113" to include the public notice; August 2013 Status Report; and OCD's technical approval (3/12/14) of the Abatement Plan Stage I and II.

The OCD meeting summary is as follows:

1) The operator will submit a status report to OCD on or before April 14, 2014 to bring work on the project up to date. It will includes the updated well survey.
2) The operator will submit its Annual Reports to OCD in August of each year.
3) In the status report, the operator will suggest an approach to establishing background (i.e., MW-5 and downgradient MW) in order to satisfy the OCD Part 30 reference to ground water clean-up to the greater of background and/or the 20.6.2.3103 NMAC water quality criteria.

****
Some site observations during call were:

1) More monitor wells were installed, since the August 2013 Status Report.
2) Hydraulic gradient ~ 0.006.
3) About 1 ft. of phase separated hydrocarbons (free-product) has been realized from the Geotech system that removes only product and no ground water.
4) A table monitoring the removal volume of product will be included in the Annual Report.
5) Monitoring will continue to focus on TPH, DRO, GRO, BTEX and product thickness with the exception of wells proposed for background monitoring. Currently, RW-1 is removing ~ 2 gal/week of product. Chloride monitoring has been conducted regularly in the past.
6) The operator feels the downgradient dissolved phase ground water monitoring is adequate at this time.

Please feel free to chime in on this communiqué if necessary. Please contact me if you have questions. Thank you for the telephone conference call this morning to communicate about the project.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
O: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
Web: http://www.emnrd.state.nm.us/ocd/

"Why Not Prevent Pollution; Minimize Waste; Reduce the Cost of Operations; & Move Forward With the Rest of the Nation?" To see how, please go to: "Pollution Prevention & Waste Minimization" at http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental

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From: Stephenson, Brad [mailto:bstephenson@craworld.com]
Sent: Wednesday, March 12, 2014 9:53 AM
To: Stockweather, Allison; Chavez, Carl J, EMNRD
Subject: FW: Conference confirmation : Holly Tank 5201

The conference call information for 10AM tomorrow is as follows:

Call 1-866-721-5495

Pin No. 25368976#

Brad Stephenson, PG
Sr Hydrogeologist
Conestoga-Rovers & Associates
14998 West 6th Avenue Frontage Road #800
Golden, Colorado 80401

303-941-6156 (cell)
720-974-0942 (direct office)
720-974-0936 (fax)

bstephenson@craworld.com

Chavez, Carl J, EMNRD

From: Chavez, Carl J, EMNRD
Sent: Wednesday, March 12, 2014 9:31 AM
To: 'Stephenson, Brad'
Subject: RE: (AP-113) Holly Public Notice & New Mexico OCD Confirmation of Abatement Plan Stage I and II Technical Approval

Mr. Stephenson:

Re: Lead Reviewer: Within 60 days shall send an approval of the Stage I AP (Rule 30.16.A NMAC) or within 90 days of receipt of the Stage 2 AP Proposal (Rule 30.16.B NMAC) to Responsible Party. Any Person: Comment on a Stage I or Stage 2 or request a hearing for a Stage 2 to the OCD in accordance with Rule 30.15.C NMAC within 30 days of receipt of the "public notice".

The New Mexico Oil Conservation Division (OCD) by receipt of verbal approval from Mr. Glenn von Gonten and currently by the Lead Reviewer Carl J. Chavez has approved and hereby approves the State I and II Abatement Plans for the above subject permit.

Please contact me if you have questions. Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
O: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
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From: Stephenson, Brad [mailto:bstephenson@craworld.com]
Sent: Wednesday, March 12, 2014 9:16 AM
To: Chavez, Carl J, EMNRD
Subject: RE: (AP-113) Holly Public Notice

Only verbally after repeated requests.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Wednesday, March 12, 2014 9:05 AM
To: Stephenson, Brad
Subject: RE: (AP-113) Holly Public Notice

Thank you. I'm working on getting a cell phone to participate in the conference call tomorrow at 10 a.m.

I will give you my cell phone number and/or you can provide me with a call in number and code for a conference call.

So, did OCD ever issue a technical approval of the AP Stage I and II?

Thanks.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
O: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
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From: Stephenson, Brad [mailto:bstephenson@craworld.com]
Sent: Wednesday, March 12, 2014 8:57 AM
To: Chavez, Carl J, EMNRD
Subject: RE: (AP-113) Holly Public Notice

Here's the report that I sent to Glenn last August.

From: Chavez, Carl J, EMNRD [mailto:CarlJ.Chavez@state.nm.us]
Sent: Tuesday, March 11, 2014 4:11 PM
To: Stephenson, Brad
Cc: Stockweather, Allison
Subject: RE:(AP-113) Holly Public Notice

Brad:

Good afternoon. Please send me any missing documents from AP-13.

Could you please send me the "Status Report" as an Acrobat Reader file that was submitted to OCD in August of 2013?

It appears that OCD has yet to approve the Stage I and II Abatement Plan. Is this correct? The OCD's Admin. Complete required proof of public notice in order to review the AP and issue approval so that the operator may proceed. Did OCD issue approval of the AP Stage I and II Report?

Thank you.

Carl J. Chavez, CHMM
New Mexico Energy, Minerals & Natural Resources Department
Oil Conservation Division, Environmental Bureau
1220 South St. Francis Drive, Santa Fe, New Mexico 87505
O: (505) 476-3490
E-mail: CarlJ.Chavez@State.NM.US
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http://www.emnrd.state.nm.us/ocd/environmental.htm#environmental

From: Stephenson, Brad [mailto:bstephenson@craworld.com]
Sent: Monday, March 10, 2014 12:44 PM
To: Chavez, Carl J, EMNRD
Cc: Stockweather, Allison
Subject: Holly Public Notice

Carl,

Here is the copy of the Public Notice for the Holly Tank 5201 site.

Public notification was completed to all concerned parties that were listed by June 2013. Glenn Von Gotten was copied on all. Also you should have a status report that was submitted to NMOCD in August 2013.

I will call you Tomorrow AM to discuss and set up a conference call for Thursday with Holly.

I will be glad to help you out anything you need to get up to speed on this project.

Brad Stephenson, PG
Sr Hydrogeologist
Conestoga-Rovers & Associates
14998 West 6th Avenue Frontage Road #800
Golden, Colorado 80401

303-941-6156 (cell)
720-974-0942 (direct office)
720-974-0936 (fax)

bstephenson@craworld.com

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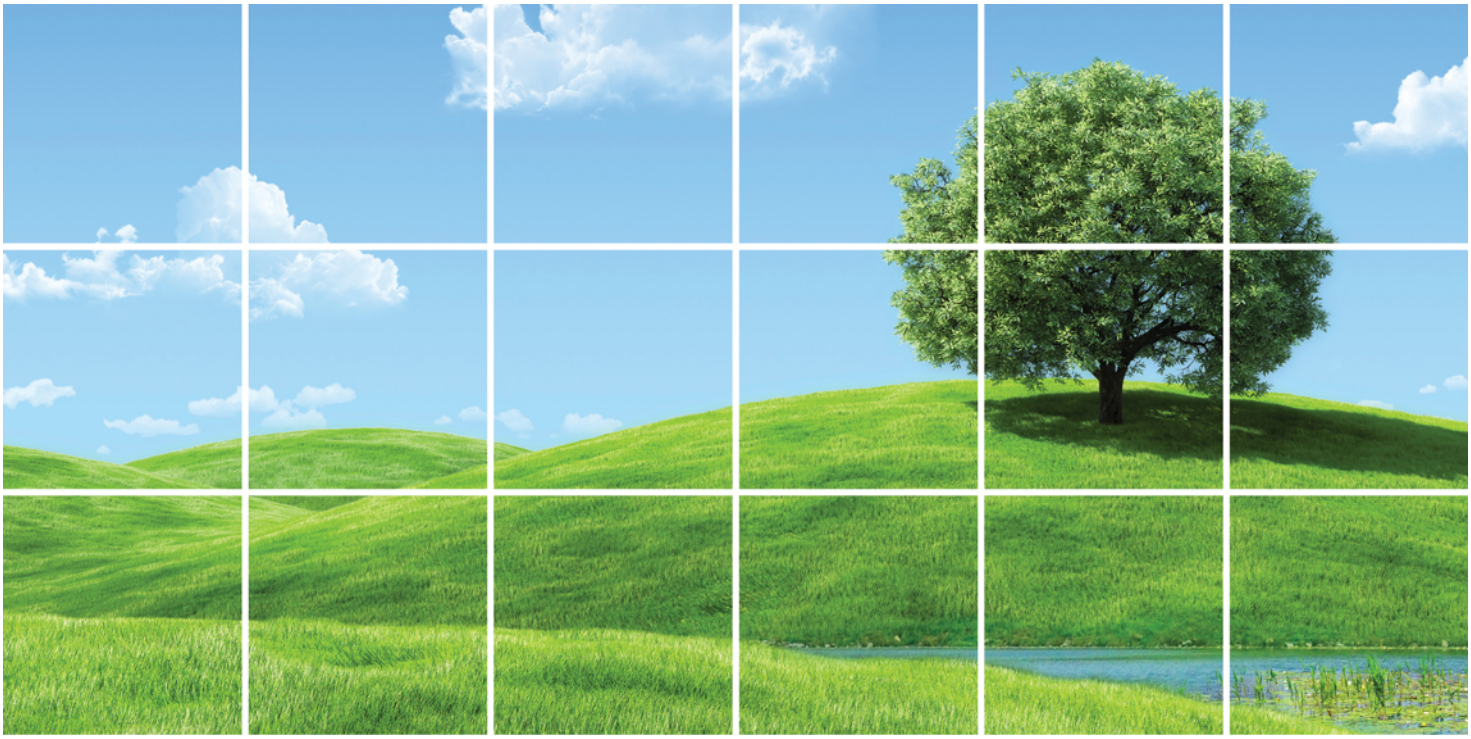

REPORT

SITE STATUS REPORT

HOLLY ENERGY PARTNERS
HOBBS TANK 5201
NW 1/4 of the NW 1/4 of SECTION 22
TOWNSHIP 19 SOUTH, RANGE 38 EAST
LEA COUNTY, NEW MEXICO

Prepared for: William Green

Conestoga-Rovers & Associates
14998 West 6th Avenue, Suite 800
Golden, Colorado 80401

October 2013 • #078863
Report Number:2

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1.0 INTRODUCTION

This status report is submitted on behalf of Holly Energy Partners (HEP) for the Hobbs Tank 5201 Release (Site) located in Lea County, New Mexico (Figure 1). The notification of the pipeline release was submitted to New Mexico Oil Conservation Division (NMOCD) on July 22, 2004. This report covers activities at the Site for the period July 2012 to June 2013. This report contains information on the status of the crude oil found on groundwater in the area of the release, groundwater monitoring activities and the installation of the crude oil recovery wells, as described in the Stage 1 Abatement Plan that was submitted to the NMOCD in November 2012.

1.1 SITE BACKGROUND

On July 22, 2004, a leak was discovered in a 6-inch pipeline line from the crude oil truck unloading rack to the 5201 storage tank. The line was exposed and clamped and the section was eventually replaced. Petroleum stained soil in an area of approximately 4 feet by 20 feet by 18 feet deep was immediately excavated. Additional staining observed close to the tank was not excavated due to the proximity of the tank and fear of compromising the 1930-vintage tank's structural integrity. No fluid was observed in the excavation. The Site is located on land owned by Enterprise, Inc.

1.2 SITE SETTING

The Site is located approximately 3.5 miles south of Hobbs, New Mexico. The Site is located in the NW ¼ of the NW ¼ of Section 22, Township 19 South, Range 38 East in Lea County, New Mexico (32°39.079'N, 103°8.530'W). The topography at the Site is relatively flat and the average elevation across the Site is 3,595 feet mean sea level (Figure 2). The Site is located on the HEP Tank Farm on County Road 61. The surrounding land contains crude oil storage tanks and open range land.

1.3 SUMMARY OF PREVIOUS INVESTIGATIONS

All of the available data collected prior to 2012 is contained in Appendix D. Six groundwater monitoring wells, seven boreholes and one recovery well have been used to characterize the release and initially recover the released crude oil in the area of the tank. Five boreholes and two monitor wells were installed inside the berm area in 2004 as illustrated in Figure 3. The first borehole was completed as a 2-inch monitor well (MW-1) adjacent to the leak location when crude oil was observed in the borehole. An existing well installed by Teppco in 2004 was used to establish groundwater flow direction (Figure 3). Two monitor wells, MW-2 and MW-3, were installed outside the bermed area in 2004. A 4-inch recovery well (RW-1) was also installed in the area near

the tank and MW-1 in 2004. In 2010, two additional monitoring wells were installed, MW-4 outside the bermed area and MW-5 inside the bermed area (Figure 3). The Teppco well was abandoned in 2010.

In 2004 crude oil was measured in MW-1 to be approximately 6 feet thick. Outside the tank berm area and approximately 200 feet southeast from the release point, dissolved phase hydrocarbon concentrations were detected in MW-2 above the New Mexico Water Quality Control Commission (NMWQCC) standard for benzene.

1.4 SITE CONCEPTUAL MODEL

Groundwater at the Site is found at approximately 44.60 to 49.64 feet-below ground surface (ft-bgs) and the groundwater flow direction is towards the east. In December 2002 the wells located within close proximity to the release contained crude oil with a maximum measured thickness of 2.82 feet (MW-1). The crude oil from the release has been measured on the east side of Tank 5201 with a maximum thickness that has decreased from 3.62 feet in August 2012 to 2.82 feet in June 2013.

The dissolved phase hydrocarbon concentrations in groundwater have been below the NMWQCC standards for benzene, toluene, ethylbenzene and total xylenes (BTEX) since 2004 in the down-gradient direction from the release. Dissolved phase hydrocarbons were detected in low concentrations (below NMWQCC standards) in four of the five monitor wells located outside the leak area from 2004 to 2012**.** The impacts to groundwater appear to be limited to the immediate area of the leak.

The Site is located on land leased from Enterprise. The primary chemicals of concern are hydrocarbon constituents that originated from the crude oil. The Site is located in an area of multiple crude oil gathering lines and is about 2 miles west of highway 18, just south of Hobbs, New Mexico. The closest residences are approximately 0.5 miles northeast from the Site. A water well search was conducted to identify wells within a one mile radius of the Site. A well is located approximately 500 feet to the southeast of the Site. This well was sampled for hydrocarbons following the discovery of the release and was found to be un-impacted (Stage 1 Abatement Plan-November 2012, Conestoga-Rovers & Associates).

There appears to be no immediate threat to the environment or to drinking water wells located in the area, caused by the release and any remaining impacts. The crude oil has a very low mobility and does not readily desorb nor dissolve and therefore, the crude oil impacts have remained in the immediate area of the release. The crude oil first measured at the Site in 2004 has not migrated from the area, suggesting that soil impacts

have been mitigated and supporting the conclusion that the released crude oil has a low mobility rate and is not readily dissolved in groundwater.

The NMOCD recommended remediation action levels for soil are dependent upon site specific ranking criteria outlined in the Guidelines for Remediation of Leaks, Spill, and Releases (August 1993). These criteria are:

- depth to groundwater;
- proximity of the wellhead to water sources or private domestic wells; and
- distance to surface water bodies to include but not limited to perennial rivers, streams, creeks, irrigation canals and ditches, lakes, ponds and playas.

The depth to groundwater at the Site is approximately 45 ft-bgs. The closest water well 500 feet southeast of the Site. There is a drainage ditch approximately 300 feet to the west of the Site. This only conducts water after a hard rainfall, due to climate and drought, this ditch rarely holds any water. Due to the current drought in the area, it is unlikely that there are any perennial rivers near the impacted area.

At the Site, groundwater is less than 50 feet, the closest domestic well is less than 1,000 feet from the release and the distance to a surface-water body is less than 1,000 feet from the Site. Based on these ranking criteria and the Guidelines for Remediation of Leaks, Spills and Releases (August 1993), the ranking score for groundwater is 20, for the domestic well it is 20 and for the surface-water body it is 10, for a total ranking score of 50. With the total ranking score of over 19, the NMOCD recommended remediation action levels for hydrocarbons in soil for the Site are:

- 10 milligrams per kilogram (mg/kg) for benzene;
- 50 mg/kg for total BTEX;
- 100 mg/kg for TPH; and

The NMWQCC standards for hydrocarbons in groundwater are as follows:

- 0.01 milligrams per liter (mg/L) for benzene;
- 0.75 mg/L for toluene;
- 0.75 mg/L for ethylbenzene; and
- 0.62 mg/L for total xylenes.

2.0 SITE ACTIVITIES

On-site well evaluations were conducted in August 2012. Groundwater monitoring was conducted at the Site in December 2012 and June 2013. The groundwater monitoring included obtaining groundwater samples for laboratory analysis for BTEX and measuring fluid levels in all monitor wells, and the recovery wells. In February 2013, 4 - four inch recovery wells were installed for use in the recovery of the crude oil and monitor ground water.

2.1 WELL EVALUATIONS

An evaluation of all of the monitor wells and the recovery well located at the Site was conducted in August 2012. The evaluation included the validation of all well locations as shown in the Figure 2, measurement of the fluid levels and the total well depths and a search of the available records for well and borehole logs. Appendix A contains the August 2012 well evaluation information.

The December 2012 Site map (Figure 2) shows five former boring locations, five monitor wells and one recovery well. The August 2012 field evaluation found five monitor wells and one recovery well. The review found well logs for monitor well MW-4 and boreholes BH-1 and BH-4. The field evaluation showed total well depths ranging from 51.51 feet below measuring point (ft-bmp) to 62.58 ft-bmp. The saturated thickness in the wells varied from 3.63 feet (MW-1) to 15.14 feet (MW-4). Crude oil was measured in one monitor well (MW-1) and one recovery well (RW-1), with a maximum product thickness of 3.62 feet (MW-1) (Figure 3). No crude oil was measured in any of the monitor wells.

2.2 GROUNDWATER MONITORING PROCEDURES AND RESULTS

Groundwater monitoring was conducted at the Site in December 2012 and June 2013. The monitoring included fluid level measurements of all monitor wells and recovery wells. Groundwater samples were collected from four monitor wells during both sampling events and from two newly installed recovery wells during the June 2013 event.

Crude oil was measured in monitor well MW-1 and recovery well RW-1 during the December 2012. Product thickness varied from 3.01 (RW-1) feet to 3.23 (MW-1) feet. The crude oil is found in the central portion of the Site and the immediate area east of Tank 5201. The crude oil thicknesses for December 2012 are shown in Figure 4 and detailed in Appendix B.

Water levels measured in December 2012 were similar to the water levels that were measured in August 2012. For the December monitoring period, the depth to groundwater across the Site varied from 45.35 ft-bgs (MW-3) to 46.11 ft-bgs (MW-5). The groundwater flow in December was towards the east and the groundwater gradient is relatively flat with a gradient of 0.0026 feet/foot (Figure 5).

During the June 2013 monitoring period, crude oil was again measured in monitor well MW-1 (2.82 feet thick) and recovery well RW-1 (2.76 feet thick). In addition, crude oil was measured at 0.01 feet thick in recovery wells HTRW-1 and HTRW-3. The crude oil thicknesses for June 2013 are shown in Figure 6 and detailed in Appendix B.

For the June 2013 monitoring period, the depth to groundwater across the Site varied from 45.76 ft-bgs (MW-3) to 46.49 ft-bgs (MW-5). The groundwater flow in June 2013 was towards the east and the groundwater gradient was 0.0014 feet/foot (Figure 7).

Prior to purging of the wells and obtaining groundwater samples, fluid levels were measured in all monitor wells using an oil/water interface probe. During both sampling events, the monitor wells were purged at a rate of 160 ml/min or less, and groundwater samples were collected using the low flow purging technique following stabilization of the field parameters (Appendix D). The meters used for the field parameters were calibrated prior to use. Field parameters obtained during purging included temperature, specific conductance, pH, dissolved oxygen and oxidation reduction potential (ORP) and the final readings for both sampling events are summarized in Appendix E.

Four monitor wells (MW-2, MW-3, MW-4 and MW-5) were sampled in December 2012 for BTEX analysis by Method 8260. In June 2013, the four monitor wells and recovery wells HTRW-2 and HTRW-4 were sampled for BTEX analysis by Method 8260. Groundwater samples were immediately placed into the appropriate laboratory provided containers following field parameter measurements and placed in an ice-chilled cooler for transport to the DHL laboratory under chain-of-custody procedures. The laboratory reports for both sampling events are contained in Appendix E.

The December 2012 hydrocarbon concentrations for each monitor well are shown in Figure 5 and summarized in Appendix D. The concentrations of dissolved BTEX in groundwater during December 2012 at the Site were generally similar to concentrations detected in 2011 (Appendix E). There were no detections of any of the BTEX constituents above the NMWQCC standards found at the Site. The analytical results are summarized as follows:

- Of the four wells monitored in December, none of the BTEX constituents were detected above the lower laboratory reporting limits in three monitor wells; MW-3, MW-4 and MW-5; and
- Only benzene (0.83 ug/L) was detected above the lower laboratory reporting limit at MW-2.

The hydrocarbon concentrations for each monitor well sampled in June 2013 are shown in Figure 7 and summarized in Appendix D. The concentrations of dissolved BTEX in groundwater during June 2013 at the Site were generally similar to concentrations detected in December 2012 (Appendix D). There were two detections of the BTEX constituents above the NMWQCC standards (HTRW-1 & HTRW-2 for benzene), and six detections above the lower laboratory reporting limit (MW-2 & MW-4 for benzene and HTRW--2 & HTRW-4 for toluene, ethylbenzene and total xylenes) at the Site during the June 2013 sampling event.

- Of the six wells sampled in June 2013, none of the BTEX constituents were detected above the lower laboratory reporting limits in two monitor wells; MW-3 and MW-5; and
- Only benzene was detected above the lower laboratory reporting limit, but below the NMWQCC standard at MW-2 (0.88 ug/L) and MW-4 (0.29 ug/L).
- Benzene was detected above the NMWQCC standard of 10 ug/L at wells HTRW-2 (62.3 ug/L) and HTRW-4 (87.4 ug/L);
- Toluene was detected above the lower laboratory reporting limit, but below the NMWQCC standard at wells HTRW-2 (21.4 ug/L) and HTRW-4 (49.4 ug/L);
- Ethylbenzene was detected above the lower laboratory reporting limit, but below the NMWQCC standard at wells HTRW-2 (4.4 ug/L) and HTRW-4 (32.5 ug/L); and
- Total xylenes were detected above the lower laboratory reporting limit, but below the NMWQCC standard at wells HTRW-2 (12.9 ug/L) and HTRW-4 (52.8 ug/L);

2.3 REMEDIATION WELL INSTALLATION

The final recovery well locations were based on historical crude oil thickness data, utility clearances and were finalized by the site geologist. Prior to initiation of abatement activities, a public notice was published in both the Hobbs Daily News-Sun and the Santa Fe New Mexican as per requirement by the NMOCD. Following the public notice period, more than 30 days were allowed for comment or questions regarding the notice.

No comments or questions were received and abatement activities were initiated in June 2013. Both private and public utilities were cleared. The NMOCD was notified approximately one week prior to drilling activities, as required by 19.15.30.14.B NMAC. Well permits were obtained from the New Mexico State Engineer and site access and permission to install the recovery wells was obtained from Enterprise Energy.

The wells were installed according to New Mexico Office of the State Engineer rules (19.27.4 NMAC) using an air rotary drill rig. The boring diameter was $7^{7/8}$ inches and the total depths of the wells were approximately 10 feet below the top of the fluid, as observed during the drilling by the site geologist. The well borings were logged by the on-site geologist based on the cuttings and spilt spoon samples. Each boring was logged for the unified soil classification, moisture content, Munsell color, staining, and vapor content.

Four wells were installed for use in the removal of the crude oil impacts on groundwater at the Site (Figure 9). In the unsaturated zone at the Site, backfill material was encountered consisting of silt and sand overlying caliche with sand and silty sand to the top of groundwater. In the saturated zone at the Site, caliche, sand and gravel were encountered in the boreholes. Odor was present from 24 ft-bgs to the top of groundwater in wells HTRW-1, HTRW-2 and HTRW-4 and from 36 ft-bgs to top of groundwater in HTRW-3. Staining was observed from 26 ft-bgs to 40 ft-bgs in well HTRW-2 and 14 ft-bgs to 40 ft-bgs in well HTRW-3. No staining was present in wells HTRW-1 or HTRW-4. Well construction details and well bore logs for the new recovery wells are contained in Appendix F.

The recovery wells were constructed with 4-inch diameter schedule 40 PVC casing and 20 feet of 20-slot (0.020 inch) PVC screen with approximately 10 feet of the screen above the observed fluid level and 10 feet below the observed fluid level as shown in Figure 9. A 10/20 sand filter pack was placed in the borings from the bottom of the boring to approximately 2 feet above the well screen. A hydrated bentonite seal was placed from the top of the sand pack to approximately 5 feet above the sand pack. A grout seal was placed from the top of the bentonite seal to approximately 3 ft-bgs. A 3-foot manhole cover was placed on each well and cemented in place. The selected screen interval was used to allow for soil vapor extraction if needed, the fluctuation in fluid levels and for the collection of fluids from any future surfactant injection, if needed. In addition, a 1-inch piezometer was installed alongside the 4-inch well and constructed in the same manner as the 4-inch well from, the bottom of the well screen to the surface (Figure 9). These 1-inch piezometers will be used to measure fluid levels so that the oil recovery pumps will not have to be removed for fluid level measurements.

Product thickness was not measured in any of these new wells immediately following installation; therefore, each well was surged with a surge block assembly to develop the well. These wells were again checked during the June 2013 monitoring event and product was measured in two of the four wells (HTRW-1 and HTRW-3) with crude oil thicknesses of 0.01 feet.

All drilling and well development equipment was cleaned prior to initiation of drilling activities and in between all borings using a high pressure washer.

2.4 SUBSURFACE SOIL SAMPLING PROCEDURES AND RESULTS

Subsurface soil samples were collected from boreholes for the new recovery wells. During drilling for the well installations, soil samples were collected continuously from ground surface to the top of groundwater or to approximately 52 ft-bgs, using a two-foot split-spoon sampler, or a core sampler when the split-spoon hit refusal. If the core sampler hit refusal, the boring was logged using cuttings. Headspace samples were collected in re-sealable plastic bags every two feet and measured approximately 30 minutes after collection for volatiles using a photo-ionization detector (PID). An analytical sample was collected from each boring and analyzed for BTEX compounds by Method 8260, and TPH-GRO and TPH-DRO by Method 8015, based on the highest detected headspace reading in each boring.

The data shows soil impacts based on analytical soil data and head space data above NMOCD recommended remediation action levels in the area east of Tank 5201 at the Site. The soil data is summarized in Appendix G and shown on Figure 8. On the Site (Wells HTRW-1, HTRW-2, HTW-3 and HTRW-4), there appears to be impacts based on head space readings ranging from 4 feet thick (Well HTRW-4) to 50 feet thick (Well HTRW-3). The subsurface soil TPH results indicated that the subsurface soil impacts are below 16 ft-bgs at Well HTRW-3 and from 30 to 48 ft-bgs in the remaining remediation wells. Laboratory reports for the soil data for the June 2013 recovery well installation are contained in Appendix H.

The subsurface soil results are summarized as follows:

- Total BTEX was not detected above the NMOCD recommended action level of 50 mg/Kg in any of the newly installed recovery well borings;
- TPH was detected above the recommended remediation action level of 100 mg/kg below 16 ft-bgs at well location HTRW-3, and below 32 ft-bgs in the remaining recovery wells; and
- Head space readings above the recommended remediation action level of 100 ppm were found below 2 ft-bgs at well location HTRW-3, below 16 ft-bgs at

well location HTRW-1, below 32 ft-bgs at well location HTRW-2 and below 38 ft bgs at HTRW-4.

2.5 QA/QC RESULTS

Quality Assurance/Quality Control (QA/QC) measures were followed according to the abatement plan. The field PID was calibrated daily using 100 ppm isobutylene. QA/QC samples for groundwater sampling and soil sampling included trip blanks, and duplicate groundwater and soil samples. The results of the QA/QC samples for groundwater are summarized in Table 1 and the results for the QA/QC sample for soil is summarized in Table 2. Each cooler that was shipped to the laboratory contained a temperature blank, laboratory prepared groundwater trip blank or laboratory prepared soil trip blank. The groundwater duplicate samples and all soil and groundwater blanks were analyzed for BTEX by Method 8260. The duplicate groundwater and soil samples showed no variation in the results. There were no detections above the lower laboratory reporting limits for BTEX in any of the trip blanks.

2.6 INVESTIGATIVE DERIVED WASTE

The soil cuttings from the installation of the new remediation wells were separated on-site into impacted and non-impacted soil, based on visual observation and head space analysis. Non-impacted soil was distributed in low lying areas of the Site. The impacted cuttings were collected and containerized in a plastic lined roll-off container. The impacted cuttings were sampled for BTEX, total petroleum hydrocarbons (TPH) and RCRA metals analyses at the conclusion of drilling activities. The results indicated the waste is above state standards for TPH; the waste was handled and disposed of properly at the Sundance disposal facility. The results of the investigative derived waste are summarized in Table 3.

3.0 CONCLUSION AND RECOMMENDATIONS

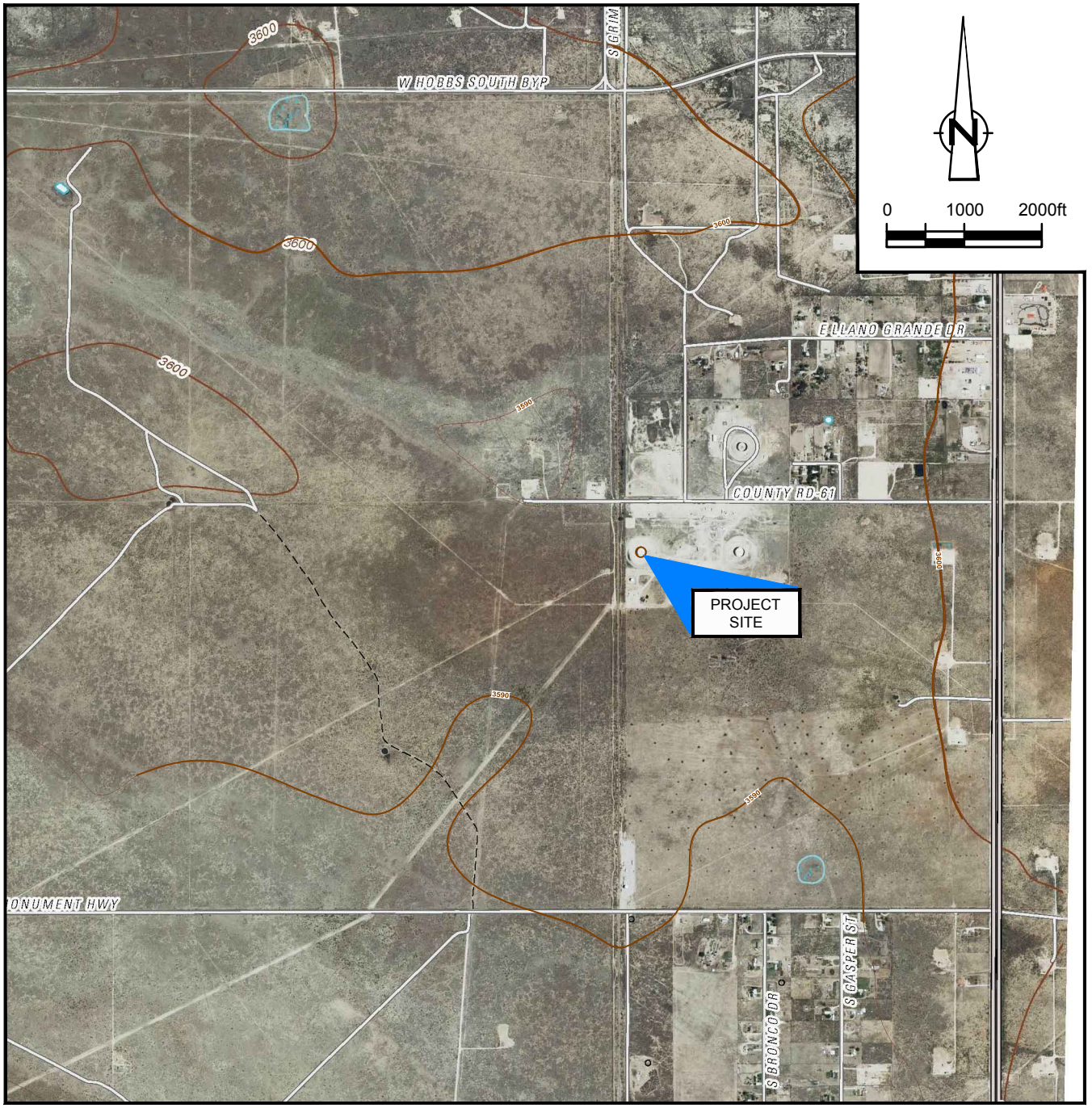
Groundwater hydrocarbon concentrations have remained stable since 2010. The measured thicknesses of the crude oil have fluctuated as much as 0.8 feet since the suspension of the crude oil recovery activities in 2011.

CRA will continue to monitor groundwater at the Site on a semi-annual basis. The next groundwater sampling event is scheduled to occur in December 2013. Groundwater samples will be collected from all site monitor wells and recovery wells that do not exhibit crude oil and analyzed for BTEX.

The remedial strategy for site closure is based on the current NMOCD requirements. To close the Site with no further action, the crude oil would first have to be removed separately from groundwater (19.15.17.13 NMAC). The proposed remedial technology for the Site uses a crude oil only skimming system that does not depress the groundwater table to remove the crude oil. This system is designed to shut down automatically when water is encountered in the pump and can be restarted remotely without visiting the Site. This system is scheduled to be installed and in operation by September 2013.

Once the phase-separated hydrocarbons (crude oil) have been removed to a *de minimis* thickness, remedial actions would then focus on the low-level dissolved phase concentrations. Based on existing conditions, the Site closure strategy to meet State standards would be based on natural attenuation of contaminant parameters and monitoring of the dissolved phase hydrocarbons.

FIGURES



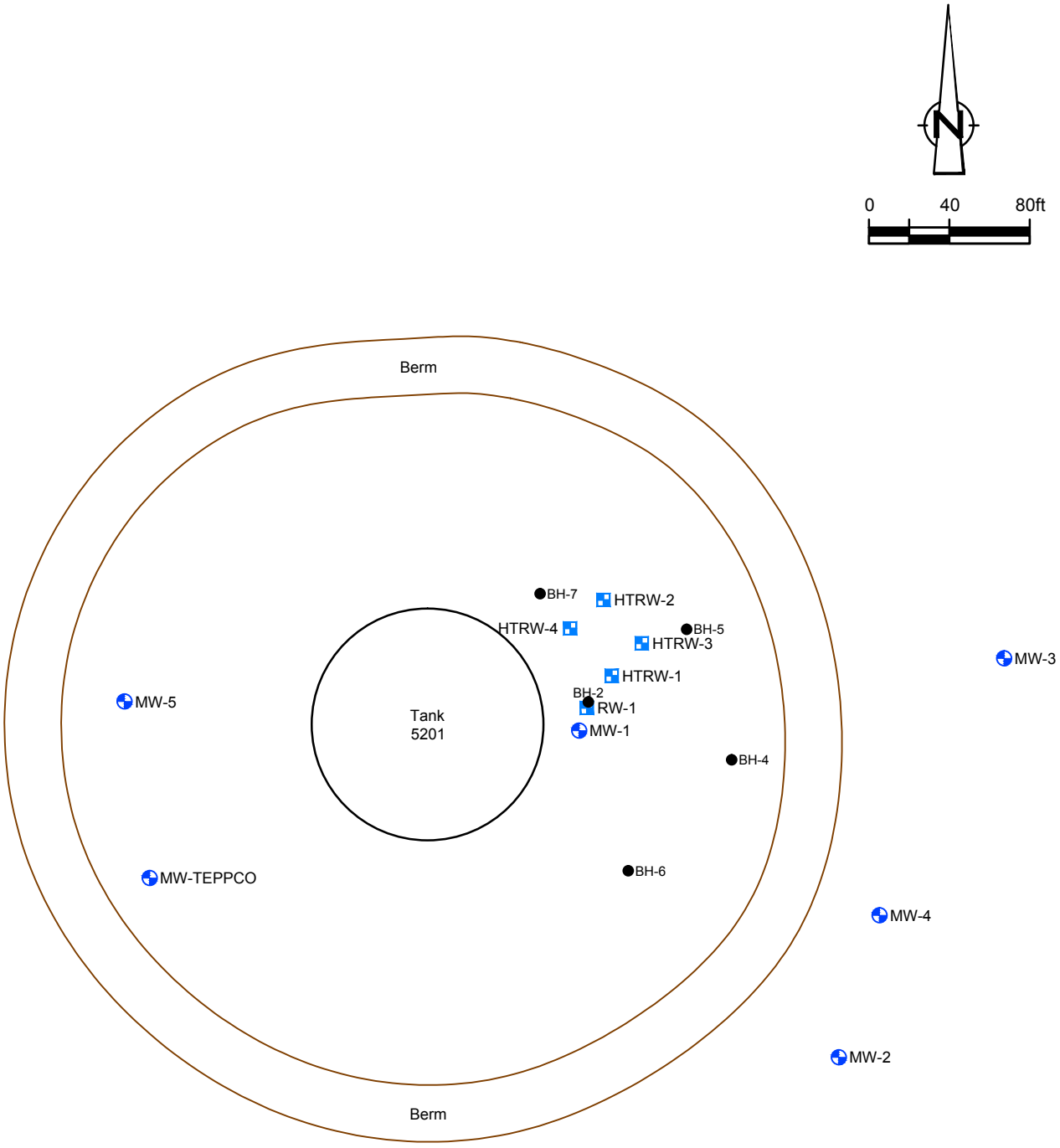
SOURCE: USGS 7.5 MINUTE QUAD
"HOBBS WEST AND HOBBS EAST, NEW MEXICO" DATED 2010

LAT/LONG: 32.6549° NORTH, 103.1382° WEST
COORDINATE: NAD83 DATUM, U.S. FOOT
STATE PLANE ZONE - NEW MEXICO EAST

figure 1

SITE LOCATION MAP
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

CPA



LEGEND

- Boring Location
- Monitor Well Location
- Recovery Well

figure 2

SITE MAP (AUGUST 2012)
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

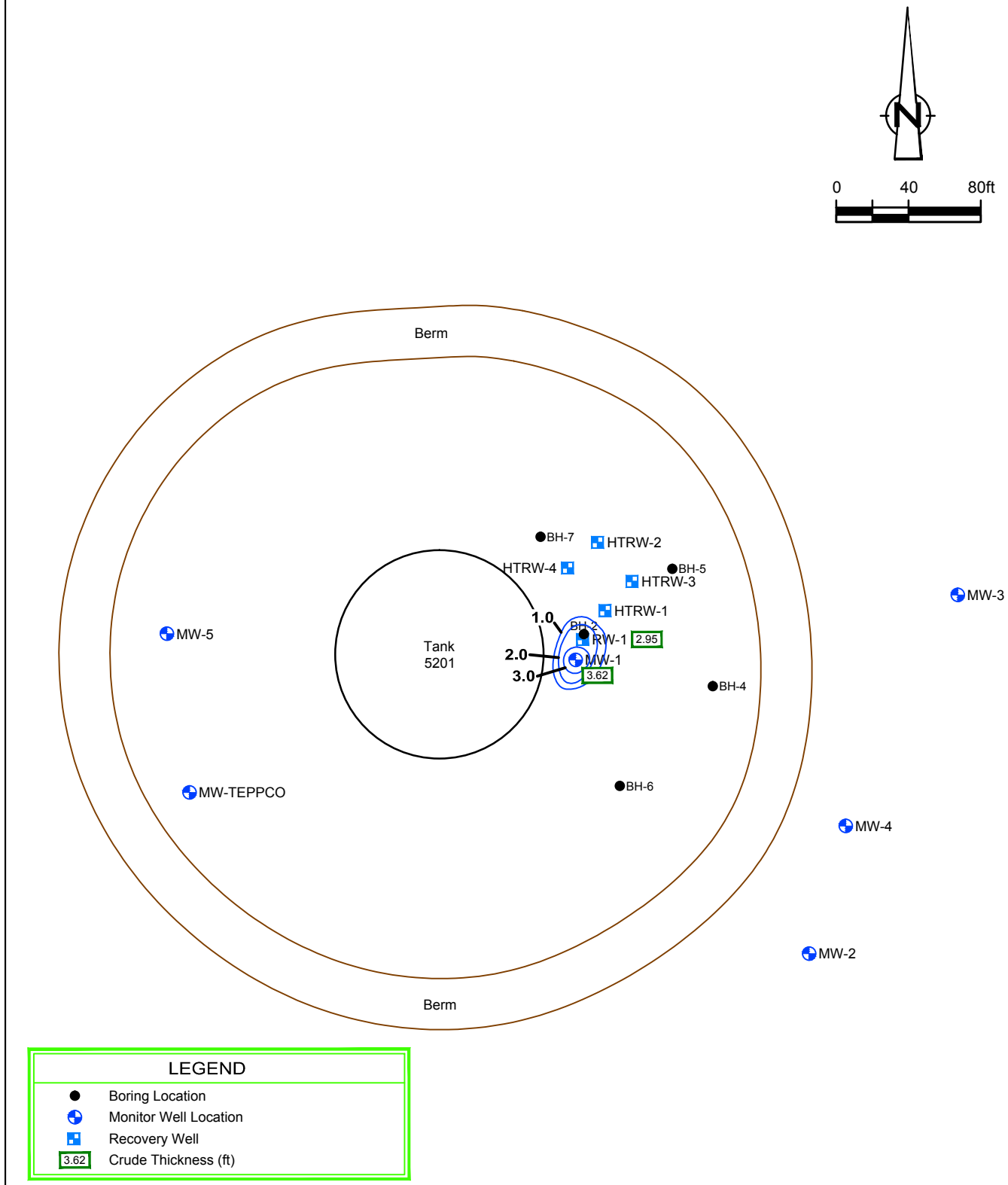


figure 3

PRODUCT THICKNESS (ft) MAP - AUGUST 2012
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

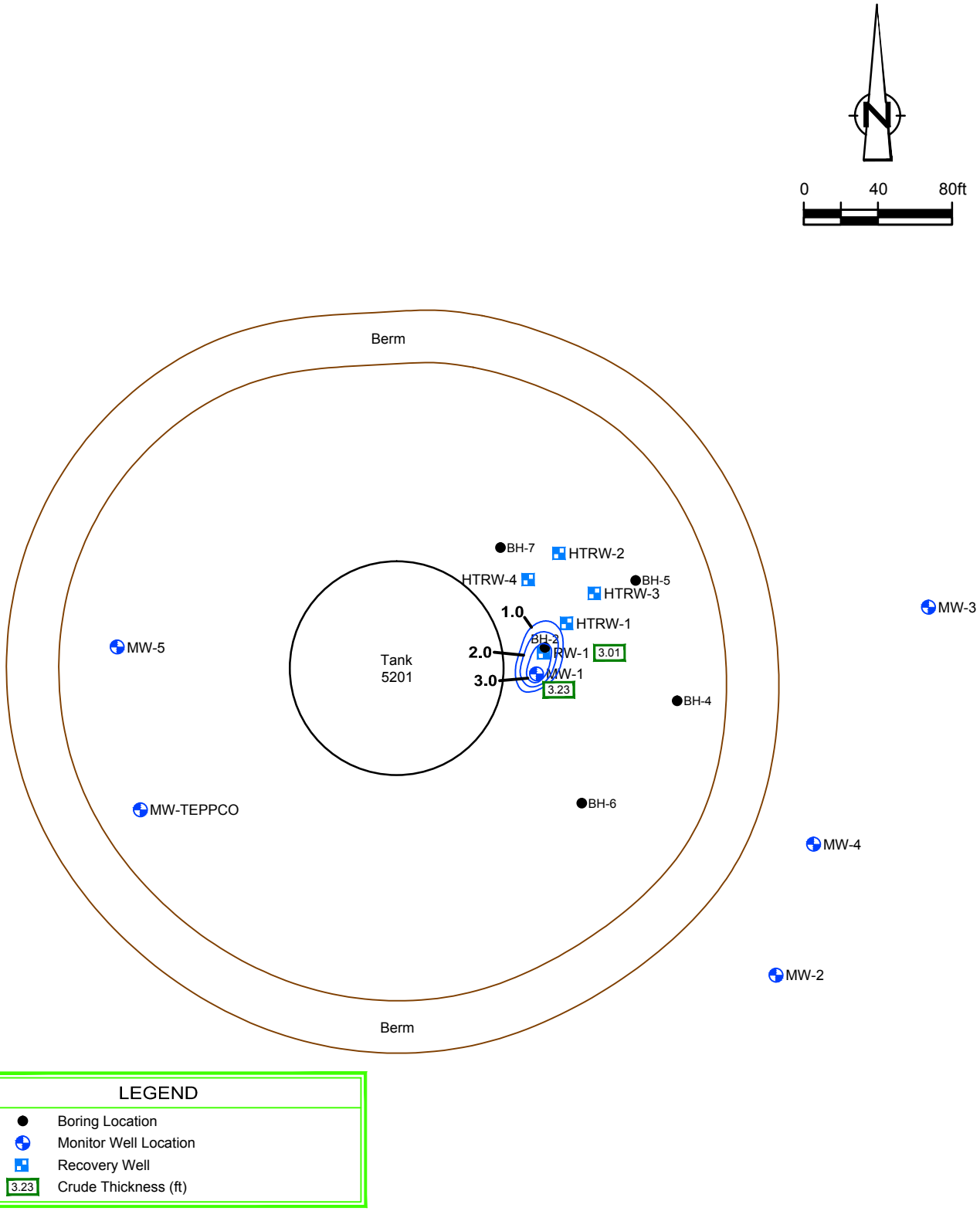


figure 4

PRODUCT THICKNESS (ft) MAP - DECEMBER 2012
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

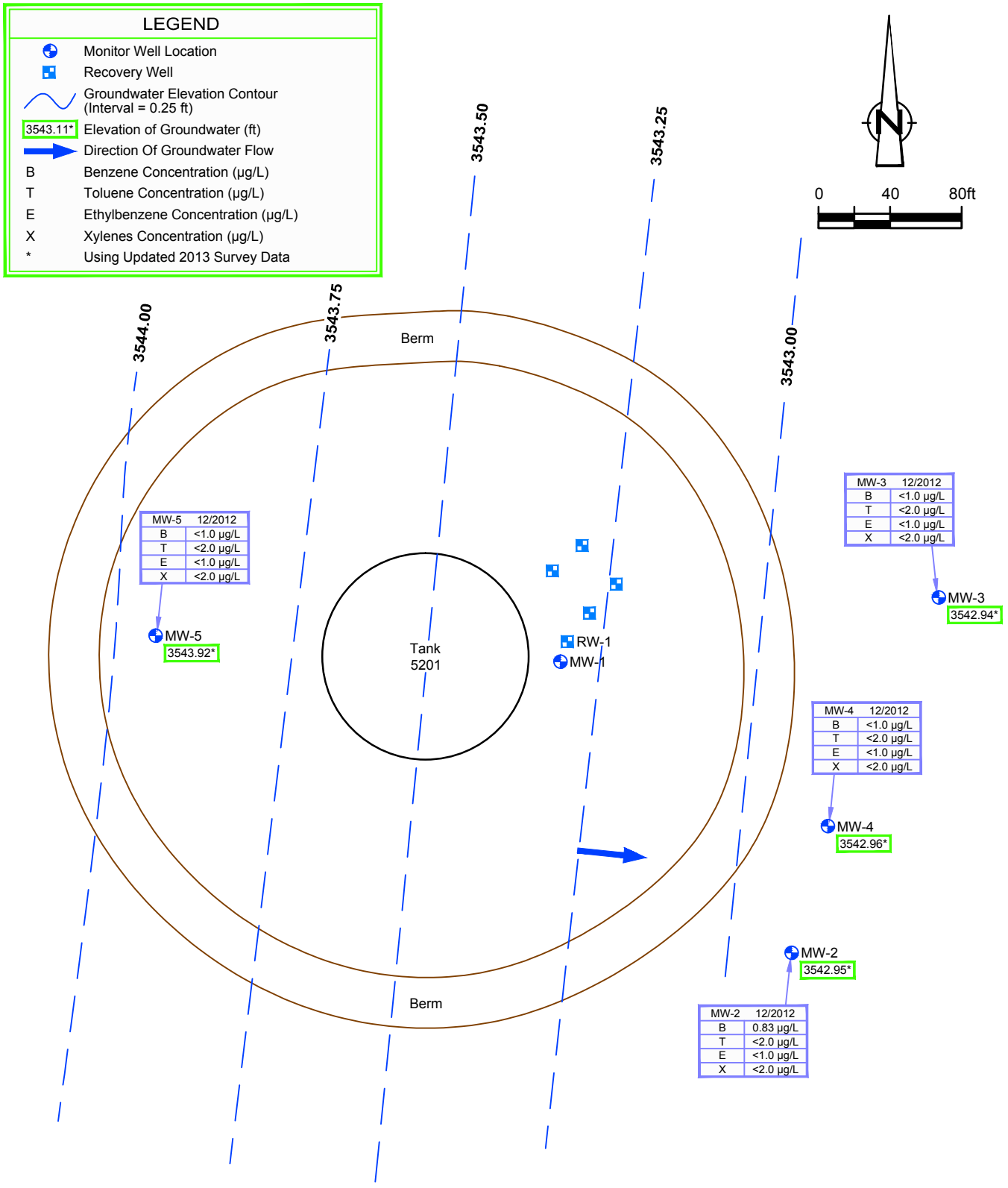
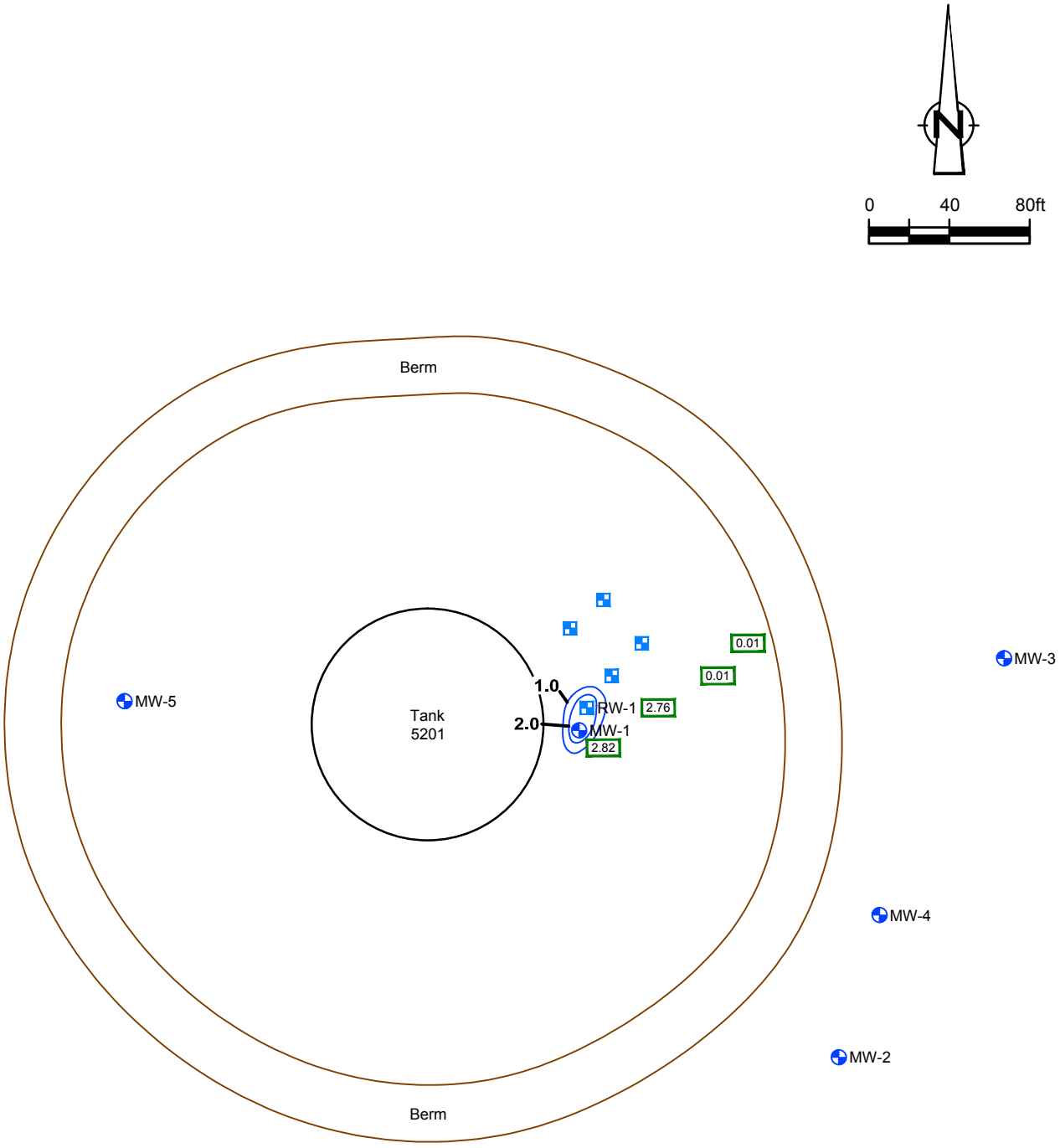


figure 5

GROUNDWATER POTENTIOMETRIC MAP AND GROUNDWATER ANALYTICAL MAP - DECEMBER 2012
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners



LEGEND	
	Monitor Well Location
	Recovery Well
2.82	Crude Thickness (ft)

figure 6

PRODUCT THICKNESS - JUNE 2013
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

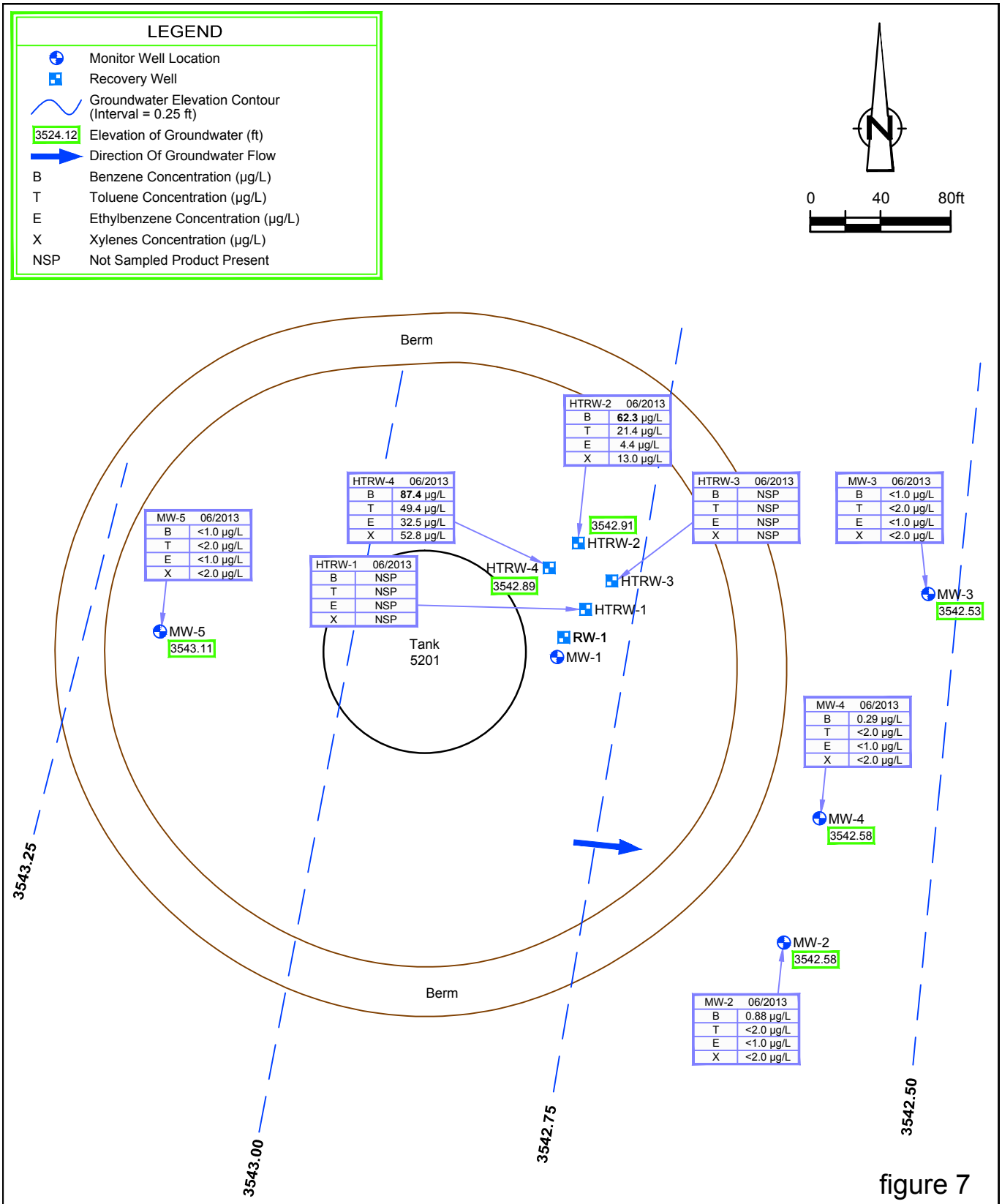


figure 7

GROUNDWATER POTENTIOMETRIC SURFACE AND GROUNDWATER ANALYTICAL RESULTS MAP - JUNE 2013
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

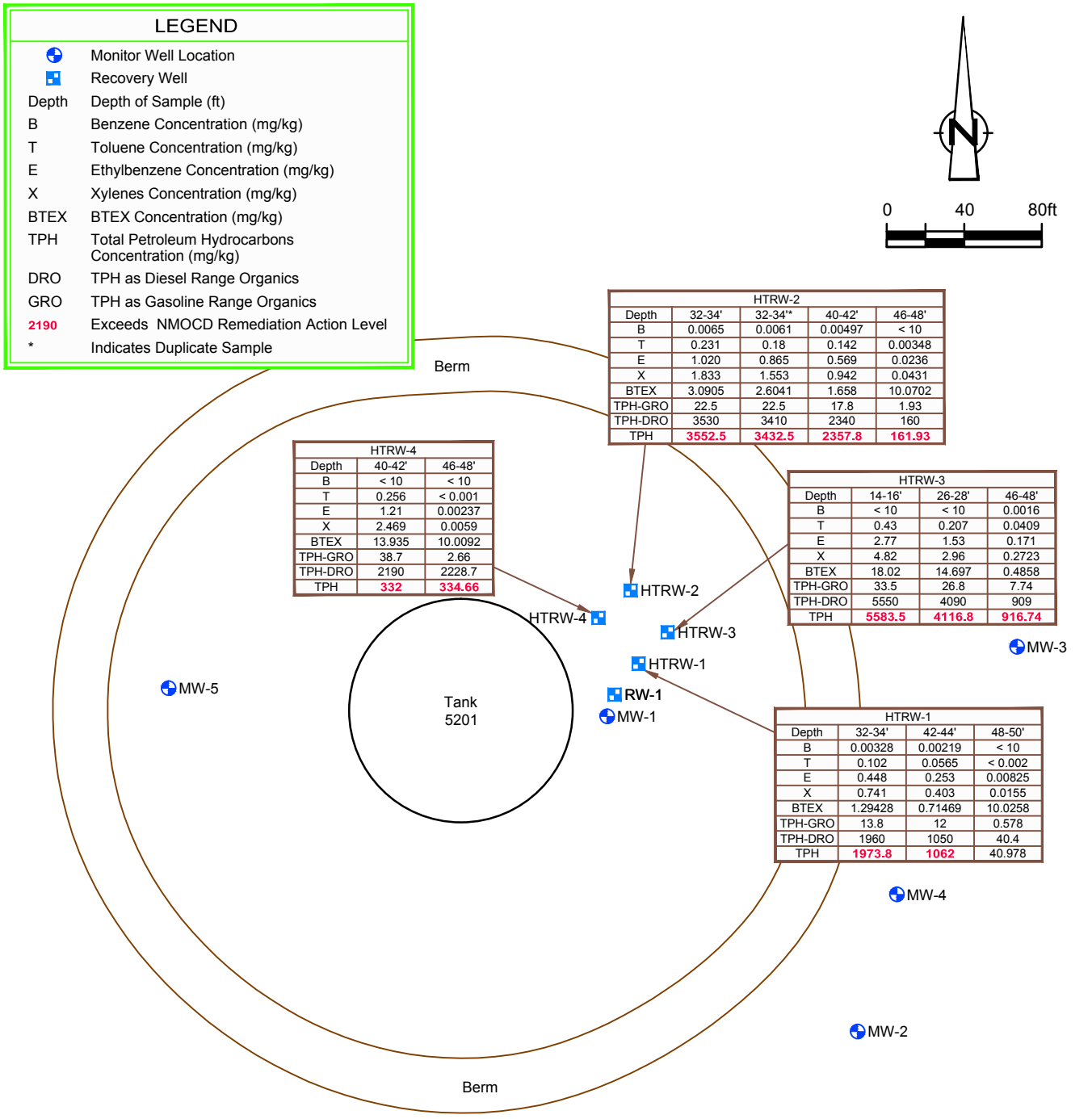


figure 8

SUBSURFACE SOIL ANALYTICAL RESULTS - JUNE 2013
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

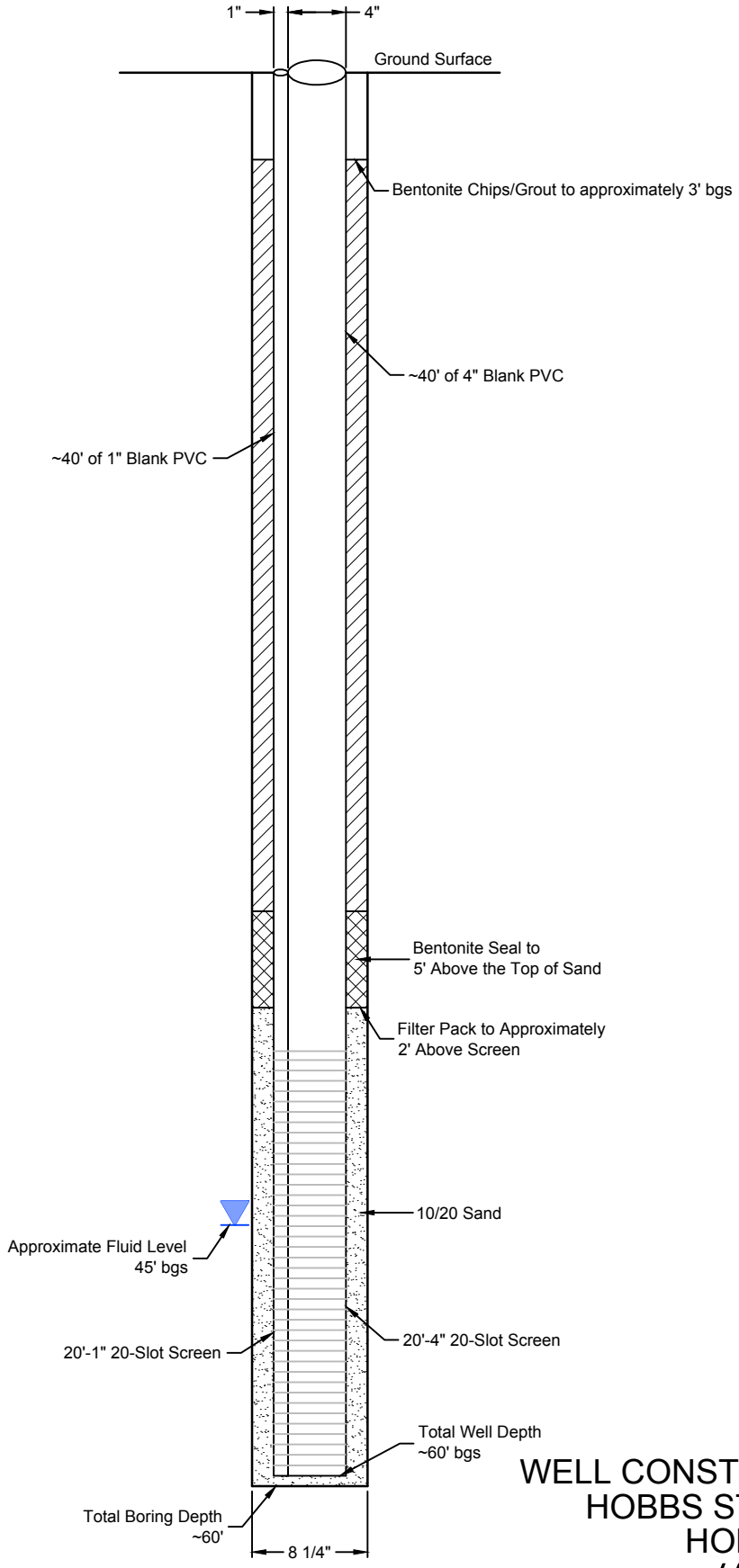


figure 9

WELL CONSTRUCTION DETAILS
HOBBS STATION TANK 5201
HOBBS, NEW MEXICO
Holly Energy Partners

TABLES

TABLES

Table 1 Summary of Groundwater QA/QC Results for December 2012 and June 2013
Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Well No.	Date Sampled	Laboratory Analytical Results			
		Benzene (mg/L)	Toluene (mg/L)	Ethyl-benzene (mg/L)	Total Xylenes (mg/L)
NMWQC Groundwater Standard		**10**	**750**	**750**	**620**
Trip Blank	12/20/2012	<0.001	<0.002	<0.001	<0.002
MW-3	12/20/2012	<0.001	<0.002	<0.001	<0.002
MW-3 duplicate	12/20/2012	<0.001	<0.002	<0.001	<0.002
Trip Blank	6/25/2013	<0.001	<0.002	<0.001	<0.002
MW-3	6/25/2013	<0.001	<0.002	<0.001	<0.002
MW-3 duplicate	6/25/2013	<0.001	<0.002	<0.001	<0.002

BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard
mg/L = milligrams per liter
< = Not detected above indicated level
BTEX = Benzene, Toluene, Ethylbenzene and Xylenes
BTEX analyzed by Method EPA 8260

Table 2 Summary of Soil QA/QC Results

Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Sample ID	Date Sampled	Laboratory Analytical Results				
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX
		(mg/L)	(mg/L)	(mg/L)	(mg/L)	(mg/L)
NMOCD Remediation Action Levels		**10**	**750**	**750**	**620**	**50**
TRIP BLANK	6/18/13	< 0.0002	< 0.0006	< 0.0003	0.0009	0.0026

Sample ID	Date Sampled	Sample Depth	Laboratory Analytical Results						
			Benzene	Toluene	Total Xylenes	BTEX	TPH-GRO	TPH-DRO	TPH
		(ft-bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Remediation Action Levels			**10**			**50**			**100**
HTRW-2-34	6/18/13	32-34	0.0065	0.231	1.8330	2.0705	22.5	3530	**3552.5**
HTRW-2-DUP	6/18/13	DUP	0.0061	0.18	1.5530	1.7391	22.5	3410	**3432.5**

NOTES:

NMOCD= New Mexico Oil & Conservation Division

BTEX = Benzen, Toluene, Ethylbenzen & Total Xylenes

mg/L = milligrams per Liter

mg/kg = milligrams per kilograms

< = analyte not detected above method reporting limit

BTEX analyzed by EPA Method 8260B

Table 3 Summary of Investigative Derived Waste from Monitoring Well Installations
Holly Energy - Hobbs Tank - Lea County, New Mexico

SOIL

BTEX

Sample ID	Date Sampled	Laboratory Analytical Results								% Moisture
		Benzene	Toluene	Ethyl-benzene	Total Xylenes	Total BTEX	TPH-GRO	TPH-DRO	TPH	
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	WT%
NMOCD Remediation Action Levels		**10**				**50.00**			**100**	
WASCHAR-1	6/25/2013	< 10	< 0.001	0.183	0.519	10.703	79.7	1390	**1469.7**	8.08

RCRA Metals

Sample ID	Date Sampled	Laboratory Analytical Results							
		Arsenic	Barium	Cadmium	Chromium	Lead	Selenium	Silver	Mercury
		(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
NMOCD Remediation Action Levels		**0.39**	**5,400**	**37**	**210**	**400**	**390**	**390**	**23**
WASCHAR-1	6/25/2013	**1.21**	129	<0.103	6.64	1.364	0.283	0.118	<0.0153

NOTES:

NMOCD= New Mexico Oil & Conservation Division

mg/kg = milligrams per kilogram

BTEX = Benzen, Toluene, Ethylbenzen & Total Xylenes

TPH-GRO = Total Petroleum Hydrocarbons- Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

BOLD (RED) - concentration greater than NMOCD Remediation Action Levels

< = analyte not detected above method reporting limit

BTEX analyzed by EPA Method 8260B

TPH-GRO analyzed by EPA Method 8260B

TPH-DRO analyzed by EPA Method 8015M

APPENDIX A

AUGUST 2012 WELL EVALUATION AND FLUID LEVELS

Appendix A - Hobbs Tank Well Evaluations August 2012
Holly Energy - Hobbs Tank - Lea County, New Mexico

Well ID	Date	PID (ppm)	Casing Dia (in)	DTP (ft-bmp)	DTW (ft-bmp)	Thickness (ft)	TD (ft-bmp)	Saturated (ft)	Stick up (ft) Y/N	DTW (ft-bgs)	Well Marked Y/N	Surface Condition
MW-1	8/7/2012	7	2	47.88	51.50	3.62	51.51	3.63	3.09	48.41	Y	Pad
MW-2	8/7/2012	2.9	2		47.44		52.42	4.98	2.47	44.97	Y	Pad
MW-3	8/7/2012	0	2		47.43		53.20	5.77	2.52	44.91	Y	Pad
MW-4	8/7/2012	0	2		47.44		62.58	15.14	2.45	44.99	Y	Pad
MW-5	8/7/2012	0	2		48.83		58.82	9.99	3.15	45.68	Y	Pad
RW-1	8/7/2012	19	4	48.06	51.01	2.95	58.19	10.13	3.08	47.93	Y	Pad

Notes:
ppm -- parts per million
in -- inches
ft-bmp -- feet-below measuring point
ft -- feet
ft-bgs -- feet-below ground surface

APPENDIX B

SUMMARY OF FLUID LEVELS (AUGUST 2012 – JUNE 2013)

Appendix B Summary of Fluid Levels (August 2012 - June 2013)
Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Well ID	Date	DTP (ft-bmp)	DTW (ft-bmp)	Prod. Thick (ft)	TD (ft-bmp)
RW-1	08/07/12	48.06	51.01	2.95	58.19
	12/20/12	48.47	51.48	3.01	
	06/20/13	48.89	51.65	2.76	
MW-1	08/07/12	47.88	51.50	3.62	51.51
	12/20/12	48.32	51.55	3.23	
	06/20/13	48.68	51.50	2.82	
MW-2	08/07/12		47.44		52.42
	12/20/12		47.90		
	06/25/13		48.27		
MW-3	08/07/12		47.43		53.20
	12/20/12		47.87		
	06/25/13		48.28		
MW-4	08/07/12		47.44		62.58
	12/20/12		47.89		
	06/25/13		48.27		
MW-5	08/07/12		48.83		58.82
	12/20/12		49.26		
	06/25/13		49.64		
HTRW-1	06/25/13	45.27	45.28	0.01	60.10
HTRW-2	06/25/13		44.60		60.14
HTRW-3	06/25/13	45.87	45.88	0.01	60.14
HTRW-4	06/25/13		45.68		60.16

Notes:
DTP - depth to product
DTW - depth to water
TD - total depth
ft - feet
ft-bmp - feet-below measuring point

APPENDIX C

GROUNDWATER SAMPLING FIELD FORMS/NOTES

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

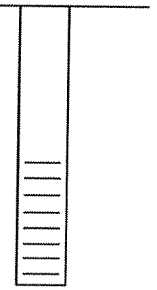
Project Name: Hobbs Tank
Ref. No.: 078863

Date: 12-20-12
Personnel: CE
samp time = 0830

Monitoring Well Data:

Well No.: MW-3 (Dup/MS/MSD)
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: 50.87
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 47.87



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0824	160	47.94	.07	63.20	1.107		1.34	6.87	-272		
0829	160	47.99	.12	63.24	1.107		1.31	6.87	-271		
0830	160	47.94	.07	63.30	1.108		1.28	6.87	-269		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

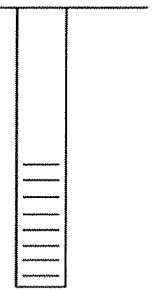
Project Name: Hobbs Tank
Ref. No.: 078863

Date: 12-20-12
Personnel: CE
Samp time = 0910

Monitoring Well Data:

Well No.: MW-2
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):

Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: 50.90
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 47.90



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
Precision Required[5]:				±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0904	160	48.11		63.12	1.088		0.80	6.87	-254		
0907	160	48.13		63.38	1.091		0.76	6.86	-254		
0910	160	48.10		63.52	1.094		0.74	6.85	-254		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

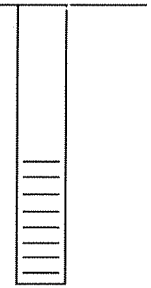
MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Hobbs Tank
Ref. No.: 078863
Date: 12-20-12
Personnel: CE
Samp time: 0945

Monitoring Well Data:

Well No.: MW-4
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: 50.89
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 47.89



Time	Pumping Rate (mL/min)	Depth to Water (m/ft)	Drawdown from Initial Water Level[3] (m/ft)	Temperature °C	Conductivity (mS/cm)	Turbidity NTU	DO (mg/L)	pH	ORP (mV)	Volume Purged, Vp (L)	No. of Well Screen Volumes Purged[4]
			Precision Required[5]:	±3 %	±0.005 or 0.01[6]	±10 %	±10 %	±0.1 Units	±10 mV		
0939	160	47.94	.05	64.75	1.150		0.63	6.84	-237		
0942	160	47.97	.08	64.73	1.149		0.62	6.83	-238		
0945	160	47.95	.06	64.72	1.149		0.61	6.83	-238		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

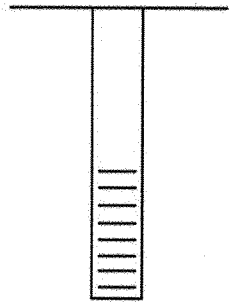
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

MONITORING WELL RECORD FOR LOW-FLOW PURGING

Project Data:

Project Name: Hobbs Tank
Ref. No.: 078863
Date: 12-20-12
Personnel: CE
Samp time = 1010



Monitoring Well Data:

Well No.: MW-5
Vapour PID (ppm):
Measurement Point: TOC
Constructed Well Depth (m/ft):
Measured Well Depth (m/ft):
Depth of Sediment (m/ft):
Saturated Screen Length (m/ft):
Depth to Pump Intake (m/ft)[1]: 52.26
Well Diameter, D (cm/in): 2"
Well Screen Volume, V_s (L)[2]:
Initial Depth to Water (m/ft): 49.26

Time	*Pumping Rate (mL/min)*	*Depth to Water (m/ft)*	*Drawdown from Initial Water Level[3] (m/ft)*	*Temperature °C*	*Conductivity (mS/cm)*	*Turbidity NTU*	*DO (mg/L)*	*pH*	*ORP (mV)*	*Volume Purged, Vp (L)*	*No. of Well Screen Volumes Purged[4]*
Precision Required[5]:				*±3 %*	*±0.005 or 0.01[6]*	*±10 %*	*±10 %*	*±0.1 Units*	*±10 mV*		
1004	160	49.37	.11	63.36	0.632		4.75	7.06	-185		
1007	160	49.39	.13	63.46	0.632		4.73	7.05	-186		
1010	160	49.38	.12	63.49	0.633		4.70	7.04	-187		

Notes:

(1) The pump intake will be placed at the well screen mid-point or at a minimum of 0.6 m (2 ft) above any sediment accumulated at the well bottom.

(2) The well screen volume will be based on a 1.52 metres (5-foot) screen length (L). For metric units, $V_s=\pi*(r^2)*L$ in mL, where r (r=D/2) and L are in cm. For Imperial units, $V_s=\pi*(r^2)*L*(2.54)^3$, where r and L are in inches

(3) The drawdown from the initial water level should not exceed 0.1 m (0.3 ft). The pumping rate should not exceed 600 mL/min.

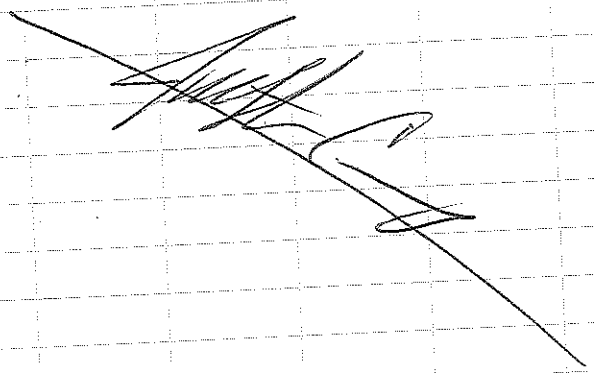
(4) Purging will continue until stabilization is achieved or until 20 well screen volumes have been purged (unless purge water remains visually turbid and appears to be clearing, or unless stabilization parameters are varying slightly outside of the stabilization criteria and appear to be stabilizing), No. of Well Screen Volumes Purged= Vp/Vs.

(5) For conductivity, the average value of three readings <1 mS/cm ±0.005 mS/cm or where conductivity >1 mS/cm ±0.01 mS/cm.

Hobbs Tank 6.20.13
078863 HEP
J. Covey Gaugings

0910 Arrive onsite
Personnel: J Covey
B. Stephenson

Well ID	DTP (bmp)	DTW (bmp)	TD
RW-1	48.89	51.65	
MW-1	48.68	51.50	
HTRW-1	50.37	50.38	70.1
HTRW-2	—	45.05	60.14
HTRW-3	—	46.34	60.14
HTRW-4	—	44.33	60.16



Hobbs Tank 6.25.13
078863 HEP
Sampling J. Covey

0715 Arrive onsite
Personnel: J. Covey
Equip: YSI w/ flow through cell
GeoSub low flow pump
Turbidity meter
Interface probe
0720 begin sampling

Well ID	DTP	DTW		Time
MW-3	—	48.28		0745
MW-4	—	48.27		0905
MW-5	—	49.04		~~0935~~ 1105
MW-2	—	48.27		0935
HTRW-1	~~45.27~~	45.28	0.01	1045
HTRW-2	—	44.60	—	1050
HTRW-3	45.87	45.88		1100
HTRW-4	—	45.68	—	1105

Location: Hobbs Tank Date: 6.25.13
Project / Client: 078863 DCP
J. Covey

Well ID	Temp	Do	pH	Cond	ORP	Turb	sample time
MW-3,	20.7	2.32	6.52	1409	204.4	118	~~0838~~ DUP
& DUP-3 2	20.8	2.01	6.58	1457	204.5	72.1	0840
3	20.8	1.98	6.60	1453	204.9	25.0	0835
MW-4,	21.1	0.37	6.65	1352	130.2	337	
2	21.2	0.14	6.66	1302	134.7	112	
3	21.3	0.14	6.70	1326	129.8	83.8	0930
MW-5,	23.0	4.52	6.62	851	177.6	56.1	
2	22.2	4.69	6.62	850	180.2	27.0	
3	22.2	4.60	6.63	848	181.1	12.4	1035
MW-2,	21.9	0.12	6.05	1240	-53.7	999+	
2	22.0	0.58	6.76	1246	-59.2	162	
3	22.1	0.30	6.76	1249	-60.6	86.5	0950
HTRW-2,	21.7	2.90	6.79	1233	188.4	999+	
2	21.9	2.84	6.79	1230	184.5	999+	
3	21.7	2.80	6.81	1233	180.2	999+	1200
HTRW-4,	22.2	2.32	6.89	959	193.6	999+	
2	22.3	2.00	6.87	957	191.1	970	
3	22.3	2.04	6.87	960	190.9	999+	1300

1000 Waste Characterization Sample WASCHAR-1

Location: Hobbs Tank Date: 6.26.13
Project / Client: 078863
J. Covey

1010 Arrive onsite w/ surveyors (Westwood) & begin surveying
1145 finished surveying. Mob offsite.

APPENDIX D

SUMMARY OF GROUNDWATER ANALYTICAL RESULTS

Appendix D Summary of Monitor Well Water Quality
Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total, µg/L)	Total BTEX (µg/L)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)
NMWQCC Groundwater Standard		**10**	**750**	**750**	**620**								
MW-2	08/23/04	**26**	4	5	14	49	43.45	3528.57					
	01/11/05	**72**	<2	<2	15	87	43.02	3529.00					
	03/08/06	<2	<2	<2	<6	<2	43.44	3528.58					
	07/11/06	7	<2	<2	16	23	43.69	3528.33					
	09/07/06	4.2	1.9	<0.5	3.2	9.3	43.64	3528.38					
	12/19/06	2.1	1.0	0.9	4.3	8.3	43.83	3528.19					
	03/13/07	<0.5	0.6	1.2	2.3	4.1	44.04	3527.98					
	06/21/07	0.8	0.7	<0.5	3.8	5.3	44.11	3527.91					
	09/21/07	1.4	1.1	<0.5	3.2	5.7	43.87	3528.15					
	12/07/07	1.4	1.0	0.9	3.5	6.8	44.17	3527.85					
	03/04/08	1.4	0.8	1.8	3.3	7.3	44.27	3527.75					
	06/03/08	1.7	0.9	1.5	2.1	6.2	44.42	3527.60					
	09/23/08	1.2	<0.5	0.6	3.8	5.6	44.69	3527.33					
	12/18/08	1.0	0.8	<0.5	1.2	3.0	45.82	3526.20					
	03/16/09	0.9	0.7	<0.5	2.9	4.5	44.98	3527.04					
	06/23/09	1.2	<1.0	<1.0	<2.0	1.2	45.12	3526.90					
	09/08/09	<1.0	<1.0	<1.0	<2.0	<1.0	45.29	3526.73					
	12/17/09	<1.0	<1.0	<1.0	<2.0	<1.0	45.50	3526.52					
	03/09/10	<1.0	<1.0	<1.0	<1.5	<1.0	45.70	3526.32					
	06/16/10	<1.0	<1.0	<1.0	2.5	2.5	45.85	3526.17					
	09/01/10	1.0	<1.0	<1.0	<2.0	1.0	45.82	3526.20					
	12/06/10	1.6	<1.0	<1.0	<2.0	1.6	46.05	3525.97					
	03/18/11	1.3	<1.0	14	2.9	18.2	46.18	3525.84					
	06/23/11	1.1	<1.0	26	3.2	30.3	46.40	3525.62					
	10/07/11	1.2	<1.0	14	<2.0	15.2	46.75	3525.27					
	12/08/11	1.4	<1.0	5.7	3.6	10.7	46.91	3525.11					
new survey data	08/07/12	0.88	< 5.0	< 5.0	< 15	< 15	47.44	3543.41	30.34	1.615	0.05	6.48	-125.9
	12/20/12	0.83	<2.0	<1.0	<2.0	<1.0	47.90	3542.95	17.51	1.094	0.74	6.85	-254.0
	06/25/13	0.88	<2.0	<1.0	<2.0	<1.0	48.27	3542.58	22.10	1249	0.30	6.76	-60.6
MW-3													
	08/23/04	<2	<2	<2	<6	<2	43.50	3528.55					
	01/11/05	<2	<2	<2	<6	<2	42.93	3529.12					
	03/08/06	<2	<2	<2	<6	<2	43.35	3528.70					
	07/11/06	<2	<2	<2	<6	<2	43.63	3528.42					
	09/07/06	<0.5	<0.5	<0.5	<1	<0.5	43.61	3528.44					
	12/19/06	<0.5	<0.5	<0.5	<1	<0.5	43.76	3528.29					
	03/13/07	<0.5	<0.5	<0.5	<1.0	<0.5	43.97	3528.08					
	06/21/07	<0.5	<0.5	<0.5	<1.0	<0.5	44.03	3528.02					
	09/21/07	<0.5	<0.5	<0.5	<1.0	<0.5	43.83	3528.22					

Appendix D Summary of Monitor Well Water Quality
Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total, µg/L)	Total BTEX (µg/L)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)
NMWQCC Groundwater Standard		10	750	750	620								
MW-3	12/07/07	<0.5	<0.5	<0.5	<1.0	<0.5	44.11	3527.94					
	03/04/08	<0.5	<0.5	<0.5	<1.0	<0.5	44.32	3527.73					
	06/03/08	<0.5	<0.5	<0.5	<1.0	<0.5	44.35	3527.70					
	09/23/08	<0.5	<0.5	<0.5	<1.0	<0.5	44.65	3527.40					
	12/18/08	<0.5	<0.5	<0.5	<1.0	<0.5	44.77	3527.28					
	03/16/09	<0.5	<0.5	<0.5	<1.0	<0.5	44.92	3527.13					
	06/23/09	<1.0	<1.0	<1.0	<2.0	<1.0	45.08	3526.97					
	09/08/09	<1.0	<1.0	<1.0	<2.0	<1.0	45.24	3526.81					
	12/17/09	<1.0	<1.0	<1.0	<2.0	<1.0	45.44	3526.61					
	03/09/10	<1.0	<1.0	<1.0	<1.5	<1.0	45.66	3526.39					
	06/16/10	<1.0	<1.0	<1.0	<2.0	<1.0	45.80	3526.25					
	09/01/10	<1.0	<1.0	<1.0	<2.0	<1.0	45.80	3526.25					
	12/06/10	<1.0	<1.0	<1.0	<2.0	<1.0	46.00	3526.05					
	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.14	3525.91					
	06/23/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.38	3525.67					
	10/07/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.72	3525.33					
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.87	3525.18					
new survey data	08/07/12	< 5.0	< 5.0	< 5.0	< 15	< 15	47.43	3543.38	30.29	1.875	0.72	5.80	109.3
duplicate	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	47.87	3542.94	17.39	1.108	1.28	6.87	-269.0
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	47.87	3542.94	17.39	1.108	1.28	6.87	-269.0
	06/25/13	<1.0	<2.0	<1.0	<2.0	<2.0	48.28	3542.53	20.80	1453	1.98	6.60	204.9
MW-4													
	06/16/10	<1.0	<1.0	<1.0	<2.0	<1.0	45.82						
	09/01/10	3.3	<1.0	<1.0	<2.0	3.3	45.81						
	12/06/10	<1.0	<1.0	<1.0	<2.0	<1.0	46.01						
	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.16						
	06/23/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.40						
	10/07/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.74						
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	46.88						
new survey data	08/07/12	< 5.0	< 5.0	< 5.0	< 15	< 15	47.44	3543.41	28.73	1.457	0.12	6.45	1.3
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	47.89	3542.96	18.18	1.149	0.61	6.83	-238.0
	06/25/13	0.29	<2.0	<1.0	<2.0	<1.0	48.27	3542.58	21.30	1306	0.14	6.70	129.8
MW-5													
	03/18/11	<1.0	<1.0	<1.0	<2.0	<1.0	47.61						
	06/23/11	<1.0	<1.0	<1.0	<2.0	<1.0	47.83						
	10/07/11	<1.0	<1.0	<1.0	<2.0	<1.0	48.17						
	12/08/11	<1.0	<1.0	<1.0	<2.0	<1.0	48.31						
	08/07/12	< 5.0	< 5.0	< 5.0	< 15	< 15	48.83		27.30	0.775	4.84	6.01	115.9
	12/20/12	<1.0	<2.0	<1.0	<2.0	<2.0	49.26		17.49	0.633	4.70	7.04	-187.0
	06/25/13	<1.0	<2.0	<1.0	<2.0	<2.0	49.64		22.20	848	4.60	6.63	181.1

Appendix D Summary of Monitor Well Water Quality
Holly Energy - Hobbs Tank 5201 - Lea County, New Mexico

Monitor Well ID	Sample Date	Benzene (µg/L)	Toluene (µg/L)	Ethyl-benzene (µg/L)	Xylenes (total, µg/L)	Total BTEX (µg/L)	Depth to Water (ft-bmp)	Groundwater Elevation (ft-msl)	Temperature (deg-C)	Conductivity (mS/cm)	DO (mg/L)	pH	ORP (mV)
NMWQCC Groundwater Standard		**10**	**750**	**750**	**620**								
HTRW-1													
	06/25/13	NSP	NSP	NSP	NSP	NSP	45.28	3542.86					
HTRW-2													
	06/25/13	**62.3**	21.4	4.4	13.0	101.1	44.60	3542.91	21.70	1233	2.80	6.81	180.2
HTRW-3													
	06/25/13	NSP	NSP	NSP	NSP	NSP	45.88	3542.87					
HTRW-4													
	06/25/13	**87.4**	49.4	32.5	52.8	222.1	45.68	3542.89	22.30	960	2.04	6.87	190.9
Notes:													
BOLD = Exceeds New Mexico Water Quality Commission (NMWQC) Standard													
µg/L = microgram per liter													
< = Not detected above indicated level													
BTEX = Benzene, Toluene, Ethylbenzene and Xylenes													
BTEX analyzed by Method EPA 8260													
ft-bmp - feet-below measuring point													
ft-msl - feet-mean sea level													
deg-C - degrees Celcius													
mS/cm - milliSiemens per centimeter													
mV - millivolts													
NSP = Not Sampled Product present													

APPENDIX E

GROUNDWATER LABORATORY REPORTS

August 06, 2013

Bill Green
Holly Energy Partners
1602 W. Main
Artesisa, NM 88210
TEL: (575) 748-8968
FAX (575) 748-4052

Order No.: 1307300

RE: Hobbs Tanks 5201

Dear Bill Green:

DHL Analytical, Inc. received 1 sample(s) on 7/30/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-11

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

nelap

№ 60090

CHAIN-OF-CUSTODY

CLIENT: CRA
ADDRESS: 14998 W 16th Ave #800 Golden, CO 80401
PHONE: 720.974.0935 FAX/E-MAIL: bstephenson@CRAworld.com
DATA REPORTED TO: Brad Stephenson
ADDITIONAL REPORT COPIES TO: Bill Green & jcovey@craworld.com

DATE: 6.25.13 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 1307300
PROJECT LOCATION OR NAME: Hobbs Tank 5701 (Holly Energy Partners)
CLENT PROJECT #: 078863 COLLECTOR: J. Covey

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

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☐ MTBE ☐ (METHOD 8021) | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO (METHOD 8015) ☒ DRO (METHOD 8015) ☒ | VOC 8260 ☒ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ | METALS 6020 ☒ METALS 200.8 ☐ DISS. METALS ☐ | RCRA 4 TX11 ☐ ____ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ | CHLORIDE ☐ ANIONS ____ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
MW-3	01	6.25.13	0835	W	40mL VOA	3	X			X		X	BTEX only
MW-4	02	"	0930	"	"	"	"			"			
MW-5	03	"	1035	"	"	"	"			"			
MW-7	04	"	0958	"	"	"	"			"			
HTRW-2	05	"	1200	"	"	"	"			"			
HTRW-4	06	↓	1300	↓	↓	↓	↓			↓			↓
WASCHAR-1	01	6.25.13	1100	S	4oz Jar	3					X	X (X)	BTEX ONLY for 8260
TRIP BLANK	08	↓	-	W	40mL VOA	2	X			↓			BTEX ONLY
DUP-3	09	6.25.13	0842	↓	↓	3	↓					↓	↓
													④ Add per J. Covey AWARD Hg Hold time 07/30/13 SP

TOTAL: 11

RELINQUISHED BY: (Signature) DATE/TIME: 6.25.13 1700 RECEIVED BY: (Signature) FEDEX
RELINQUISHED BY: (Signature) DATE/TIME: 6/26/13 0820 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: 2.9 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☒ INTACT ☐ NOT USED
☒ CARRIER BILL #: Fed-Ex
☐ APC DELIVERY
☐ HAND DELIVERED

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Holly Energy Partners** Date Received: **7/30/2013**

Work Order Number **1307300** Received by **JB**

Checklist completed by: _____ 7/30/2013 (Signature / Date) Reviewed by: DL 7/30/2013 (Initials / Date)

Carrier name FedEx 1day

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 ☐	**2.9** °C
Water - VOA vials have zero headspace?	Yes ☐	No ☐	No VOA vials submitted ☑
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

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

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: Client is aware of hold time for Hg.

Corrective Action _____

DHL Analytical, Inc.

Date: *06-Aug-13*

CLIENT: Holly Energy Partners
Project: Hobbs Tanks 5201
Lab Order: 1307300

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

For Mercury Analysis, the analysis was added outside of the method specified holding time. The client was notified and the laboratory proceeded with analysis. The results have been flagged "C" to denote this.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives, except where noted in the following. For Metals Analysis, the RPD's of Arsenic and Selenium for the Serial Dilution (1307298-01 SD) were above the method control limits. These are flagged accordingly in the QC Summary Report. These analytes are within method control limits in the associated Post Digestion Spike. No further corrective action was taken.

For Metals Analysis, Selenium was detected below the reporting limit for Method Blank-58714. The associated sample may be biased high for this analyte. No further corrective action was taken.

DHL Analytical, Inc.

Date: *06-Aug-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	WASCHAR-1
Project:	Hobbs Tanks 5201	**Lab ID:**	1307300-01
Project No:	078863	**Collection Date:**	06/25/13 04:00 PM
Lab Order:	1307300	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TOTAL MERCURY: SOIL/SOLID		**SW7471B**					Analyst: **LM**
Mercury	ND	0.0153	0.0383	C	mg/Kg-dry	1	08/02/13 01:26 PM
TRACE METALS: ICP-MS - SOLID		**SW6020A**					Analyst: **SW**
Arsenic	1.21	0.515	1.03		mg/Kg-dry	5	08/02/13 06:43 PM
Barium	129	0.515	2.06		mg/Kg-dry	5	08/02/13 06:43 PM
Cadmium	ND	0.103	0.309		mg/Kg-dry	5	08/02/13 06:43 PM
Chromium	6.64	0.515	2.06		mg/Kg-dry	5	08/02/13 06:43 PM
Lead	1.64	0.103	0.309		mg/Kg-dry	5	08/02/13 06:43 PM
Selenium	0.283	0.155	0.515	J	mg/Kg-dry	5	08/02/13 06:43 PM
Silver	0.118	0.103	0.206	J	mg/Kg-dry	5	08/02/13 06:43 PM

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1307300
Project: Hobbs Tanks 5201

ANALYTICAL QC SUMMARY REPORT

RunID: CETAC_HG_130802A

The QC data in batch 58713 applies to the following samples: 1307300-01A

Sample ID: **MB-58713**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 11:21:41 AM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	ND	0.0400								

Sample ID: **LCS-58713**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **LCS**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 11:27:48 AM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.213	0.0400	0.2000	0	106	85	115			

Sample ID: **LCSD-58713**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **LCSD**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 11:29:50 AM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.213	0.0400	0.2000	0	106	85	115	0	25	

Sample ID: **1307274-11B SD**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **SD**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 12:45:20 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0	0.177	0	0				0	10	

Sample ID: **1307274-11B PDS**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **PDS**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 12:47:26 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.225	0.0353	0.2207	0	102	85	115			

Sample ID: **1307274-11B MS**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **MS**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 12:49:31 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.196	0.0352	0.1759	0	112	80	120			

Sample ID: **1307274-11B MSD**	Batch ID: **58713**	TestNo: **SW7471B**	Units: **mg/Kg**
SampType: **MSD**	Run ID: **CETAC_HG_130802A**	Analysis Date: **8/2/2013 12:51:35 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Mercury	0.193	0.0350	0.1751	0	110	80	120	1.37	25	

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1307300
Project: Hobbs Tanks 5201

ANALYTICAL QC SUMMARY REPORT

RunID: **ICP-MS2_130802A**

The QC data in batch 58714 applies to the following samples: 1307300-01A

Sample ID: **MB-58714** Batch ID: **58714** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **MBLK** Run ID: **ICP-MS2_130802A** Analysis Date: **8/2/2013 6:07:00 PM** Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	ND	1.00								
Barium	ND	2.00								
Cadmium	ND	0.300								
Chromium	ND	2.00								
Lead	ND	0.300								
Selenium	0.189	0.500								
Silver	ND	0.200								

Sample ID: **LCS-58714** Batch ID: **58714** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCS** Run ID: **ICP-MS2_130802A** Analysis Date: **8/2/2013 6:13:00 PM** Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.4	1.00	50.00	0	111	80	120			
Barium	51.9	2.00	50.00	0	104	80	120			
Cadmium	52.1	0.300	50.00	0	104	80	120			
Chromium	54.9	2.00	50.00	0	110	80	120			
Lead	51.1	0.300	50.00	0	102	80	120			
Selenium	52.9	0.500	50.00	0	106	80	120			
Silver	54.2	0.200	50.00	0	108	80	120			

Sample ID: **LCSD-58714** Batch ID: **58714** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **LCSD** Run ID: **ICP-MS2_130802A** Analysis Date: **8/2/2013 6:19:00 PM** Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	55.8	1.00	50.00	0	112	80	120	0.765	20	
Barium	51.8	2.00	50.00	0	104	80	120	0.145	20	
Cadmium	52.4	0.300	50.00	0	105	80	120	0.670	20	
Chromium	55.5	2.00	50.00	0	111	80	120	1.09	20	
Lead	51.8	0.300	50.00	0	104	80	120	1.31	20	
Selenium	53.8	0.500	50.00	0	108	80	120	1.64	20	
Silver	55.1	0.200	50.00	0	110	80	120	1.60	20	

Sample ID: **1307298-01C SD** Batch ID: **58714** TestNo: **SW6020A** Units: **mg/Kg**
SampType: **SD** Run ID: **ICP-MS2_130802A** Analysis Date: **8/2/2013 6:37:00 PM** Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	2.77	4.59	0	3.133				12.2	10	R
Barium	100	9.17	0	101.4				1.37	10	
Cadmium	0	1.38	0	0.2257				0	10	
Chromium	14.7	9.17	0	14.84				1.03	10	

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1307300
Project: Hobbs Tanks 5201

ANALYTICAL QC SUMMARY REPORT

RunID: ICP-MS2_130802A

Sample ID: **1307298-01C SD**	Batch ID: **58714**	TestNo: **SW6020A**	Units: **mg/Kg**
SampType: **SD**	Run ID: **ICP-MS2_130802A**	Analysis Date: **8/2/2013 6:37:00 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Lead	7.13	1.38	0	7.135				0.113	10	
Selenium	2.03	2.29	0	1.288				44.7	10	R
Silver	0	0.917	0	0				0	10	

Sample ID: **1307298-01C PDS**	Batch ID: **58714**	TestNo: **SW6020A**	Units: **mg/Kg**
SampType: **PDS**	Run ID: **ICP-MS2_130802A**	Analysis Date: **8/2/2013 7:00:00 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	54.0	0.917	45.87	3.133	111	80	120			
Barium	156	1.83	45.87	101.4	119	80	120			
Cadmium	47.4	0.275	45.87	0.2257	103	80	120			
Chromium	65.6	1.83	45.87	14.84	111	80	120			
Lead	54.1	0.275	45.87	7.135	102	80	120			
Selenium	50.7	0.459	45.87	1.288	108	80	120			
Silver	47.3	0.183	45.87	0	103	80	120			

Sample ID: **1307298-01C MS**	Batch ID: **58714**	TestNo: **SW6020A**	Units: **mg/Kg**
SampType: **MS**	Run ID: **ICP-MS2_130802A**	Analysis Date: **8/2/2013 7:06:00 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	53.5	0.926	46.30	3.133	109	80	120			
Barium	148	1.85	46.30	101.4	102	80	120			
Cadmium	45.9	0.278	46.30	0.2257	98.7	80	120			
Chromium	64.7	1.85	46.30	14.84	108	80	120			
Lead	53.0	0.278	46.30	7.135	99.1	80	120			
Selenium	50.0	0.463	46.30	1.288	105	80	120			
Silver	48.1	0.185	46.30	0	104	80	120			

Sample ID: **1307298-01C MSD**	Batch ID: **58714**	TestNo: **SW6020A**	Units: **mg/Kg**
SampType: **MSD**	Run ID: **ICP-MS2_130802A**	Analysis Date: **8/2/2013 7:12:00 PM**	Prep Date: **8/1/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Arsenic	52.1	0.926	46.30	3.133	106	80	120	2.81	20	
Barium	146	1.85	46.30	101.4	95.4	80	120	1.95	20	
Cadmium	45.7	0.278	46.30	0.2257	98.3	80	120	0.354	20	
Chromium	62.7	1.85	46.30	14.84	103	80	120	3.13	20	
Lead	53.0	0.278	46.30	7.135	99.1	80	120	0	20	
Selenium	48.6	0.463	46.30	1.288	102	80	120	2.96	20	
Silver	47.6	0.185	46.30	0	103	80	120	0.919	20	

Qualifiers:

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

January 03, 2013

Bill Green
Holly Energy Partners
1602 W. Main
Artesisa, NM 88210
TEL: (575) 748-8968
FAX (575) 748-4052

Order No.: 1212247

RE: Hobbs Tank

Dear Bill Green:

DHL Analytical, Inc. received 6 sample(s) on 12/21/2012 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-12-9

Table of Contents

DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

Nº 57977

CHAIN-OF-CUSTODY

CLIENT: CRA
ADDRESS: 14998 W. 6th Ave. #800 Golden, CO 80401
PHONE: (303)941-6156 FAX/E-MAIL: BStephenson@crawrdl.com
DATA REPORTED TO: Brad Stephenson
ADDITIONAL REPORT COPIES TO:

DATE: 12-20-12 PAGE 1 OF 1
PO #: 078863 DHL WORK ORDER #: 121247
PROJECT LOCATION OR NAME: Hobbs Tank
CLENT PROJECT #: COLLECTOR:

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

PRESERVATION: HCl | HNO_3 | H_2SO_4 ☐ NaOH ☐ | ICE | UNPRESERVED

ANALYSES: BTEX ☒ MTBE ☐ [METHOD 8021] | TPH 1005 ☐ TPH 1006 ☐ HOLD 1006 ☐ | GRO [METHOD 8015] ☐ DRO [METHOD 8105] ☐ | VOC 8260 ☐ VOC 624 ☐ VOC 8260/5035 ☐ | SVOC 8270 ☐ PAH 8270 ☐ HOLD PAH ☐ SVOC 625 ☐ | 8081 PEST ☐ 608 PEST/PCB ☐ 8270 PEST ☐ | 8270 O-P PEST ☐ 8082 PCB ☐ 8270 PCB ☐ | 8321 HERB ☐ 8330 EXPL ☐ PERCHLORATE ☐ | METALS 6020 ☐ METALS 200.8 ☐ DISS. METALS ☐ | RCRA ☐ TX11 ☐ ____ ☐ | PH ☐ HEX CHROM ☐ ALKALINITY ☐ | CHLORIDE ☐ ANIONS ____ ☐ | TCLP-SVOC ☐ VOC ☐ PEST ☐ HERB ☐ | TCLP-METALS ☐ RCRA 8 ☐ TX-11 ☐ Pb ☐ | RCI ☐ TOX ☐ FLASHPOINT ☐ | TDS ☐ TSS ☐ % MOISTURE ☐ CYANIDE ☐

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	HCl	HNO_3	H_2SO_4 NaOH	ICE	UNPRESERVED	ANALYSES	FIELD NOTES
MW-3	01	12-20-12	0830	W	VOA	9	X			X		X	MS/MSD
MW-3D	02	12-20-12	0830	W	VOA	3	X			X		X	
MW-2	03	12-20-12	0910	W	VOA	3	X			X		X	
MW-4	04	12-20-12	0945	W	VOA	3	X			X		X	
MW-5	05	12-20-12	1010	W	VOA	3	X			X		X	
Trip	06	—	—	W	VOA	2	X			X		X	
TOTAL													

RELINQUISHED BY: (Signature) DATE/TIME 12-20-12/1700 RECEIVED BY: (Signature)
RELINQUISHED BY: (Signature) DATE/TIME 12/21/12 1520 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: 5.0 THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☐ INTACT ☒ NOT USED
☒ CARRIER BILL #:
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express **US Airbill**

FedEx Tracking Number 8606 6136 4196

Form ID No. 0200 — **Recipient's Copy**

1 From

Date 12-20-12

Sender's Name Chris Evans Phone 432 686-0086

Company CRA

Address 2135 S. Loop 250 W.

Dept/Floor/Suite/Room

City Midland State TX ZIP 79703

2 Your Internal Billing Reference 078863

3 To

Recipient's Name [illegible] Phone [illegible]

Company [illegible]

Recipient's Address [illegible]

We cannot deliver to P.O. boxes or P.O. ZIP codes. Dept/Floor/Suite/Room

Address

To request a package be held at a specific FedEx location, print FedEx address here.

City [illegible] State [illegible] ZIP [illegible]

8606 6136 4196

4a Express Package Service — *Packages up to 150 lbs.*

- [ ] FedEx Priority Overnight — Next business morning.* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [x] FedEx Standard Overnight — Next business afternoon.* Saturday Delivery NOT available.
- [ ] FedEx First Overnight — Earliest next business morning delivery to select locations.* Saturday Delivery NOT available.
- [ ] FedEx 2Day — Second business day.* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx Express Saver — Third business day.* Saturday Delivery NOT available.

FedEx Envelope rate not available. Minimum charge: One-pound rate.

* To most locations.

4b Express Freight Service — *Packages over 150 lbs.*

- [ ] FedEx 1Day Freight* — Next business day.** Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 2Day Freight — Second business day.** Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.
- [ ] FedEx 3Day Freight — Third business day.** Saturday Delivery NOT available.

* Call for Confirmation.

** To most locations.

5 Packaging

- [ ] FedEx Envelope*
- [ ] FedEx Pak* — Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.
- [ ] FedEx Box
- [ ] FedEx Tube
- [x] Other

* Declared value limit $500.

6 Special Handling — Include FedEx address in Section 3.

- [ ] **SATURDAY Delivery** — Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.
- [ ] **HOLD Weekday at FedEx Location** — Not available for FedEx First Overnight.
- [ ] **HOLD Saturday at FedEx Location** — Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods? One box must be checked.

- [x] No
- [ ] Yes — As per attached Shipper's Declaration.
- [ ] Yes — Shipper's Declaration not required.
- [ ] Dry Ice — Dry ice, 9, UN 1845, ____ x ____ kg

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

- [ ] Cargo Aircraft Only

7 Payment *Bill to:* Enter FedEx Acct. No. or Credit Card No. below. Obtain Recip. Acct. No. [ ]

- [x] Sender — Acct. No. in Section 1 will be billed.
- [ ] Recipient
- [ ] Third Party
- [ ] Credit Card
- [ ] Cash/Check

Total Packages	Total Weight	Total Declared Value†	Total Charges
1	20	$ .00	Credit Card Auth.

†Our liability is limited to $100 unless you declare a higher value. See back for details.

8 *NEW* Residential Delivery Signature Options If you require a signature, check Direct or Indirect.

- [x] No Signature Required — Package may be left without obtaining a signature for delivery.
- [ ] Direct Signature — Anyone at recipient's address may sign for delivery. *Fee applies.*
- [ ] Indirect Signature — If no one is available at recipient's address, anyone at a neighboring address may sign for delivery. *Fee applies.*

520

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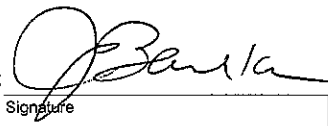
DHL Analytical, Inc.

Sample Receipt Checklist

Client Name **Holly Energy Partners** Date Received: **12/21/2012**

Work Order Number **1212247** Received by **JB**

Checklist completed by:  12/21/2012 (Signature / Date)

Reviewed by 12/21/2012 (Initials / Date)

Carrier name: FedEx 1day

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 ☐	**5.0** °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 _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Page 1 of 1

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT: Holly Energy Partners
Project: Hobbs Tank
Lab Order: 1212247

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	MW-3
Project:	Hobbs Tank	**Lab ID:**	1212247-01
Project No:		**Collection Date:**	12/20/12 08:30 AM
Lab Order:	1212247	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	12/26/12 01:14 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 01:14 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 01:14 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 01:14 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 01:14 PM
Surr: 1,2-Dichloroethane-d4	99.9	0	72-119		%REC	1	12/26/12 01:14 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	12/26/12 01:14 PM
Surr: Dibromofluoromethane	103	0	85-115		%REC	1	12/26/12 01:14 PM
Surr: Toluene-d8	102	0	81-120		%REC	1	12/26/12 01:14 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	MW-3D
Project:	Hobbs Tank	**Lab ID:**	1212247-02
Project No:		**Collection Date:**	12/20/12 08:30 AM
Lab Order:	1212247	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	12/26/12 01:39 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 01:39 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 01:39 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 01:39 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 01:39 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	72-119		%REC	1	12/26/12 01:39 PM
Surr: 4-Bromofluorobenzene	105	0	76-119		%REC	1	12/26/12 01:39 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	12/26/12 01:39 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	12/26/12 01:39 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	MW-2
Project:	Hobbs Tank	**Lab ID:**	1212247-03
Project No:		**Collection Date:**	12/20/12 09:10 AM
Lab Order:	1212247	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.000830	0.000200	0.00100	J	mg/L	1	12/26/12 02:03 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:03 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:03 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:03 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:03 PM
Surr: 1,2-Dichloroethane-d4	101	0	72-119		%REC	1	12/26/12 02:03 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	12/26/12 02:03 PM
Surr: Dibromofluoromethane	107	0	85-115		%REC	1	12/26/12 02:03 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	12/26/12 02:03 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	MW-4
Project:	Hobbs Tank	**Lab ID:**	1212247-04
Project No:		**Collection Date:**	12/20/12 09:45 AM
Lab Order:	1212247	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	12/26/12 02:30 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:30 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:30 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:30 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:30 PM
Surr: 1,2-Dichloroethane-d4	98.5	0	72-119		%REC	1	12/26/12 02:30 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	12/26/12 02:30 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	12/26/12 02:30 PM
Surr: Toluene-d8	99.6	0	81-120		%REC	1	12/26/12 02:30 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	MW-5
Project:	Hobbs Tank	**Lab ID:**	1212247-05
Project No:		**Collection Date:**	12/20/12 10:10 AM
Lab Order:	1212247	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	12/26/12 02:55 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:55 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:55 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 02:55 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 02:55 PM
Surr: 1,2-Dichloroethane-d4	98.7	0	72-119		%REC	1	12/26/12 02:55 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	12/26/12 02:55 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	12/26/12 02:55 PM
Surr: Toluene-d8	101	0	81-120		%REC	1	12/26/12 02:55 PM

Qualifiers:

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

DHL Analytical, Inc.

Date: *03-Jan-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	Trip
Project:	Hobbs Tank	**Lab ID:**	1212247-06
Project No:		**Collection Date:**	12/20/12
Lab Order:	1212247	**Matrix:**	TRIP BLANK

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	12/26/12 12:23 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	12/26/12 12:23 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	12/26/12 12:23 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	12/26/12 12:23 PM
Toluene	ND	0.000600	0.00200		mg/L	1	12/26/12 12:23 PM
Surr: 1,2-Dichloroethane-d4	98.2	0	72-119		%REC	1	12/26/12 12:23 PM
Surr: 4-Bromofluorobenzene	102	0	76-119		%REC	1	12/26/12 12:23 PM
Surr: Dibromofluoromethane	104	0	85-115		%REC	1	12/26/12 12:23 PM
Surr: Toluene-d8	100	0	81-120		%REC	1	12/26/12 12:23 PM

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1212247
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_121226A

The QC data in batch 55307 applies to the following samples: 1212247-01A, 1212247-02A, 1212247-03A, 1212247-04A, 1212247-05A, 1212247-06A

Sample ID: **LCS-55307** Batch ID: **55307** TestNo: **SW8260C** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS5_121226A** Analysis Date: **12/26/2012 10:41:00 A** Prep Date: **12/26/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0256	0.00100	0.0232	0	110	81	122			
Ethylbenzene	0.0249	0.00100	0.0232	0	107	80	120			
m,p-Xylene	0.0523	0.00200	0.0464	0	113	80	120			
o-Xylene	0.0242	0.00100	0.0232	0	104	80	120			
Toluene	0.0254	0.00200	0.0232	0	110	80	120			
Surr: 1,2-Dichloroethane-d4	198		200.0		99.0	72	119			
Surr: 4-Bromofluorobenzene	199		200.0		99.3	76	119			
Surr: Dibromofluoromethane	206		200.0		103	85	115			
Surr: Toluene-d8	198		200.0		99.2	81	120			

Sample ID: **MB-55307** Batch ID: **55307** TestNo: **SW8260C** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS5_121226A** Analysis Date: **12/26/2012 11:07:00 A** Prep Date: **12/26/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Ethylbenzene	ND	0.00100								
m,p-Xylene	ND	0.00200								
o-Xylene	ND	0.00100								
Toluene	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	194		200.0		97.1	72	119			
Surr: 4-Bromofluorobenzene	202		200.0		101	76	119			
Surr: Dibromofluoromethane	206		200.0		103	85	115			
Surr: Toluene-d8	198		200.0		98.9	81	120			

Sample ID: **1212247-01AMS** Batch ID: **55307** TestNo: **SW8260C** Units: **mg/L**
SampType: **MS** Run ID: **GCMS5_121226A** Analysis Date: **12/26/2012 4:11:00 PM** Prep Date: **12/26/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0249	0.00100	0.0232	0	107	81	120			
Ethylbenzene	0.0239	0.00100	0.0232	0	103	80	120			
m,p-Xylene	0.0478	0.00200	0.0464	0	103	80	120			
o-Xylene	0.0215	0.00100	0.0232	0	92.8	80	120			
Toluene	0.0245	0.00200	0.0232	0	106	80	120			
Surr: 1,2-Dichloroethane-d4	202		200.0		101	72	119			
Surr: 4-Bromofluorobenzene	195		200.0		97.6	76	119			
Surr: Dibromofluoromethane	213		200.0		106	85	115			
Surr: Toluene-d8	196		200.0		97.9	81	120			

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1212247
Project: Hobbs Tank

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS5_121226A

Sample ID: **1212247-01AMSD** Batch ID: **55307** TestNo: **SW8260C** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS5_121226A** Analysis Date: **12/26/2012 4:37:00 PM** Prep Date: **12/26/2012**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0254	0.00100	0.0232	0	110	81	120	2.23	20	
Ethylbenzene	0.0245	0.00100	0.0232	0	106	80	120	2.56	20	
m,p-Xylene	0.0501	0.00200	0.0464	0	108	80	120	4.76	20	
o-Xylene	0.0228	0.00100	0.0232	0	98.4	80	120	5.81	20	
Toluene	0.0248	0.00200	0.0232	0	107	80	120	1.05	20	
Surr: 1,2-Dichloroethane-d4	200		200.0		100	72	119	0	0	
Surr: 4-Bromofluorobenzene	196		200.0		97.9	76	119	0	0	
Surr: Dibromofluoromethane	209		200.0		105	85	115	0	0	
Surr: Toluene-d8	197		200.0		98.3	81	120	0	0	

Qualifiers:

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

APPENDIX F

WELL CONSTRUCTION SUMMARY AND BORING LOGS

LOCATION MAP	TEST HOLE / WELL LOG	Page 1 of 4
	Test/Well Number: **HTRW-1**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **41 to 43'**		Grout Interval: **3 to 43'**	
Filter Pack Size: **10/20 sand**			Interval: **43 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **53' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 45'**	DTW: **50.38' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **45 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
1	SP	dry	< 5	10YR 6/3	0	N		Cut.		**SAND** – (0-2.5') – medium dense, medium grained, poorly graded, dry, pale brown (Fill)		1" fluid level monitor
2												
3	SM	dry	< 5	10YR 6/3	0	N		20"		**Silty SAND** – (2.5-3.5') – medium dense, fine grained, poorly graded, dry, pale brown, trace caliche		
4	SP	dry	< 5	10YR 8/1						**Caliche** – (3.5-8') – SAND, medium dense, fine grained, poorly graded, dry, white, some concretions		
5					0	N		12"		- @ ~5' - trace cemented sand		
6												
7			5	10YR 7/2	0	N		14"		- @ ~6' - becomes dense, light gray, with few silt		
8												
9	ML	dry	15	10YR 8/2				7"		**Caliche** – (8-8.5') – SILT, very stiff, low platicity, dry, very pale brown, weathered		
10	SP	dry	< 5	10YR 8/2	0	N				**Caliche** – (8.5-34') – SAND, fine grained, very dense, cemented, dry, very pale brown - @ ~10' - becomes loose		
11								6"				
12					0	N						
13								Cut.		- @ ~12' - becomes very dense		
14					0	N						
15								Cut.				
16					0	N						
17								Cut.				
18					0	N						
19				10YR 8/1				Cut.		- @ ~18.5' - becomes white		
20					0	N						

cement grout bentonite seal filter pack

LOCATION MAP	TEST HOLE / WELL LOG	Page 2 of 4
	Test/Well Number: **HTRW-1**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **41 to 43'**		Grout Interval: **3 to 43'**	
Filter Pack Size: **10/20 sand**			Interval: **43 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **53' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 45'**	DTW: **50.38' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **45 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
20												
21								Cut.				
					0	N						
22												
23								Cut.				
					0	N						
24												
										- @ 24' trace odor		
25								Cut.				
					0	N						
26												
27								Cut.				
					1	N						
28												
29								Cut.				
					2	N						
30												
										- @ 30' some fine to medium gravel, trace chert		
31								Cut.				
					25	N						
32												
				10YR						- @ 32' becomes light gray		
33				7/2				Cut.				
					191	N						
34												
	SP	dry	< 5	10YR						**Sand** - (34 - 63') - very dense, fine grained, poorly		
35				7/1				Cut.		graded, dry, light gray, few fine to med gravel, odor		
					248	N						
36												
				10YR						- @ 36' becomes pale brown, trace chert		
37				6/3								
					68	N		Cut.				
38												
				10YR						- @ 38' becomes light brownish gray		
39				6/2								
					30	N						
40								Cut.				

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LOCATION MAP	TEST HOLE / WELL LOG	Page 3 of 4
	Test/Well Number: **HTRW-1**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **41 to 43'**		Grout Interval: **3 to 43'**	
Filter Pack Size: **10/20 sand**			Interval: **43 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **53' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 45'**	DTW: **50.38' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **45 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
40												
41								Cut.				
					402	N						
42												
43								12"				
					656	N						
44												
45								17"				
					639	N						
46												
				7.5YR						- @ 46' becomes brown		
47				5/4				16"				
					315	N						
48												
	SP											
49								21"				
					710	N						
50												
51								16"				
					416	N						
52												
										- @ 52' becomes medium grained		
53								16"				
		wet				N				- @ 53' becomes wet		
54		53'										
55								Cut.				
						N						
56												
				10YR						- @ 56' becomes very pale brown		
57				7/3				Cut.				
58												
			<5							- @ 58' becomes well graded w/ trace silt		
59								Cut.				
60										- @ 60' no sample recovery		
64										TD = ~64' bgs		well TD = 60'

top of screen @ ~45' bgs

bottom of screen @ 60' bgs

cement grout | bentonite seal | filter pack

LOCATION MAP	TEST HOLE / WELL LOG	Page 1 of 4
	Test/Well Number: **HTRW-2**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **51' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40**	DTW: **45.05' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
1	SP	dry	< 5	10YR 6/3	0	N		Cut.		**SAND** – (0-2.5') – medium dense, medium grained, poorly graded, dry, pale brown (Fill)		1" fluid level monitor
2												
3								Cut.				
4					0	N						
5	SM	dry	< 5	10YR 8/2				6"		**Silty SAND** – (4-6') – medium dense, fine grained, poorly graded, dry, very pale brown, trace caliche		
6					0	N						
7	ML	dry	5	5YR 6/4				14"		**Sandy SILT** – (6-8.5') – stiff, low plasticity, dry, light reddish brown, fine grained sand		
8					0	N						
9								12"				
10	SP	dry	< 5	10YR 8/2	0	N				**Caliche** – (8.5-33') – SAND, fine grained, med. dense, poorly graded, dry, very pale brown - @ ~10' - trace chert		
11								6"				
12					0	N						
13				10YR 8/1				4"		- @ ~12' - becomes white and very dense		
14					0	N						
15								2"		- @ ~14.2' - hit refusal during sampling		
16					0	N						
17								Cut.				
18					0	N						
19								Cut.				
20					0	N						

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LOCATION MAP	TEST HOLE / WELL LOG	Page 2 of 4
	Test/Well Number: **HTRW-2**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **51' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40**	DTW: **45.05' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
20												
21								Cut.				
					0	N						
22												
23								Cut.				
					0	N						
24												
25								Cut.				
					2	N						
26												
				10YR						- @ 26' becomes light gray, few fine gravel, trace		
27				7/1				Cut.		chert and odor		
					13	Y						
28												
				10YR						- @ 28' becomes gray		
29				5/1				Cut.				
					13	Y						
30												
31								Cut.				
					98	Y						
32												
33								Cut.				
	SC	dry	< 5	10YR	185	Y				**Gravelly SAND** – (33-38') – fine to medium sand, very		
34				5/2						dense, well graded, dry, grayish brown, trace chert, odor		
35								Cut.				
					640	Y						
36												
				10YR						- @ 36' becomes gray		
37				5/1				Cut.				
					217	Y						
38												
	SP	dry	< 5	10YR						**SAND** – (38-60') – fine to medium sand, very dense,		
39				5/3				Cut.		poorly graded, dry, brown, few fine gravel, odor		
					66	Y						
40												

cement grout bentonite seal filter pack

LOCATION MAP	TEST HOLE / WELL LOG	Page 3 of 4
	Test/Well Number: **HTRW-2**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **51' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40**	DTW: **45.05' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
40												
41								Cut.				
					112	N						
42												
43								Cut.				
		moist			220	N				- @ 46' becomes moist		
44												
45								Cut.				
					201	N						
46												
				7.5YR						- @ 46' becomes pink, trace fine gravel		
47				7/3				Cut.				
					90	N						
48												
	SP											
49								Cut.				
					33	N						
50												
51								Cut.		- @ 51' becomes wet		
		wet				N						
52												
				7.5YR						- @ 52' becomes brown		
53				5/3				Cut.				
						N						
54												
55								Cut.				
56												
57								Cut.				
58												
59								Cut.				
60										- @ 60' no sample recovery		
63										TD = ~63' bgs		

top of screen @ ~45' bgs

bottom of screen @ 60' bgs

well TD = 60'

cement grout bentonite seal filter pack

LOCATION MAP	TEST HOLE / WELL LOG	Page 1 of 4
	Test/Well Number: **HTRW-3**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **52' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40'**	DTW: **46.34' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
1	SP	dry	< 5	10YR 6/3	0	N		Cut.		**SAND** – (0-6') – medium dense, medium grained, poorly graded, dry, pale brown (Fill)		1" fluid level monitor
2												
3								Cut.				
4					0	N						
5								Cut.				
6					0	N						
7	ML	dry	5	5YR 5/3				18"		**Sandy SILT** – (6-8') – stiff, low platicity, dry, brown, fine grained sand, trace mineralization		
8					0	N						
9								6"		**SAND** – (8-10') – medium dense, fine grained, poorly graded, dry, light gray		
10	SP	dry	< 5	10YR 7/2	0	N						
11	SP	dry	< 5	10YR 8/1				7"		**Caliche** – (10-32') – SAND, fine grained, dense, poorly graded, dry, white, trace silt		
12					20	N						
13				10YR 5/3				Cut.		- @ ~12' - becomes brown, trace odor		
14					295	N						
15				10YR 7/1				Cut.		- @ ~14' - becomes light gray		
16					488	Y						
17								Cut.				
18					999+	Y						
19				10YR 6/2				Cut.		- @ ~18' - becomes light brownish gray, trace silt		
20					621	N						

cement grout bentonite seal filter pack

LOCATION MAP	TEST HOLE / WELL LOG	Page 2 of 4
	Test/Well Number: **HTRW-3**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **52' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40'**	DTW: **46.34' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
20												
										- @ 20' trace fine to medium gravel		
21								Cut.				
					149	Y						
22												
				10YR						- @ 22' becomes light gray		
23				7/2				Cut.				
					195	Y						
24												
25								Cut.				
					287	Y						
26												
				10YR						- @ 26' becomes gray		
27				6/1				Cut.				
					352	Y						
28												
29								Cut.				
					611	Y						
30												
				2.5YR						- @ 30' becomes light brownish gray		
31				6/2				Cut.				
					556	Y						
32												
	SC	dry	< 5	10YR						**Gravelly SAND** – (32-36') – fine to coarse sand, very		
33				6/2				Cut.		dense, well graded, dry, light brownish gray, trace chert,		
					432	Y				odor		
34												
35								Cut.				
					146	Y						
36												
	SP	dry	< 5	10YR						**Sand** - (36 - 63') - very dense, fine grained, poorly		
37				6/3						graded, dry, pale brown, few fine gravel, trace chert, odor		
					212	Y		Cut.				
38												
				10YR						- @ 38' becomes light brownish gray		
39				6/2								
					118	Y						
40								Cut.				

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LOCATION MAP	TEST HOLE / WELL LOG	Page 3 of 4
	Test/Well Number: **HTRW-3**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 18 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**	Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**		Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **52' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.** Interval: **0 to 40'**	DTW: **46.34' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.** Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **63' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
40												
		moist								- @ 40' becomes moist, trace fine gravel		
41								Cut.				
					157	N						
42												
43								Cut.				
					212	N						
44												
45								Cut.				
					93	N						
46												
47								Cut.				
					99	N						
48												
49								Cut.				
					68	N						
50												
				5YR						- @ 46’ becomes pinkish white		
51				8/2				Cut.				
						N						
52												
		wet								- @ 53’ becomes wet		
53								Cut.				
						N						
54												
55								Cut.				
						N						
56												
57								Cut.				
58												
			<5							- @ 58’ becomes well graded w/ trace silt		
59								Cut.				
60										- @ 60' no sample recovery		
										TD = ~63' bgs		well TD = 60'

top of screen @ ~45' bgs

bottom of screen @ 60' bgs

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LOCATION MAP	TEST HOLE / WELL LOG	Page 1 of 4
	Test/Well Number: **HTRW-4**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 19 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**		Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **50' bgs**	
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.** Interval: **0 to 40'**	DTW: **44.33' bgs**		
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.** Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**	

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
	SP	dry	< 5	10YR 6/3	0	N		Cut.		**SAND** – (0-5.5') – medium dense, medium grained, poorly graded, dry, pale brown (Fill)		1" fluid level monitor
1												
2					0	N						
3								Cut.				
4					0	N						
5								Cut.				
6					0	N						
7	SP	dry	< 5	10YR 8/2				8"		**Caliche** – (6-22') – SAND, fine grained, dense, poorly graded, dry, very pale brown		
8					0	N						
9								6"		- @ ~8' - trace chert		
10					0	N						
11								6"				
12					0	N						
13				10YR 8/1				8"		- @ ~12' - becomes white, trace silt, very dense		
14					0	N						
15								Cut.				
16					0	N						
17								Cut.				
18					0	N						
19								Cut.				
20					0	N						

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LOCATION MAP	TEST HOLE / WELL LOG	Page 2 of 4
	Test/Well Number: **HTRW-4**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 19 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**		Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**			Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **50' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.**	Interval: **0 to 40'**	DTW: **44.33' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.**	Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
20												
										- @ 20' trace fine gravel		
21								Cut.				
					0	N						
22												
	SC	dry	5	10YR						**Caliche** – (22-38') – Gravelly SAND, fine to medium		
23				8/1				Cut.		grained, very dense, well graded, dry, white, trace silt and		
					0	N				chert		
24												
25								Cut.				
					10	N						
26												
				10YR						- @ 26' becomes light gray, trace odor		
27				7/1				Cut.				
					15	N						
28												
29								Cut.				
					30	N						
30												
31								Cut.				
					42	N						
32												
33								Cut.				
					51	N						
34												
				10YR						- @ 34' becomes light gray		
35				7/2				Cut.				
					48	N						
36												
				10YR						- @ 36’ becomes pale brown, trace chert		
37				6/3								
					68	N		Cut.				
38												
	SP	dry	< 5	10YR						**Sand** - (38 - 48') - very dense, fine grained, poorly		
39				7/4						graded, dry, very pale brown, few medium gravel, trace		
					68	N						
40								Cut.				

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LOCATION MAP	TEST HOLE / WELL LOG	Page 3 of 4
	Test/Well Number: **HTRW-4**	Project: **Hobbs Tank (Holly Energy)**
	Date: **6 / 19 / 2013**	Project Number: **078863**
	Logged by: **Justin Covey**	Drilled By: **B. Adkins**
	Drilling Method: **Air Rotary**	Sampling Method: **Split Spoon**

Ground Elevation::	Detector: **PID**	Seal/Int: Bentonite **36 to 38'**	Grout Interval: **3 to 36'**	
Filter Pack Size: **10/20 sand**		Interval: **38 to 60'**	Hole Dia: **7-7/8"**	Depth water Encountered during drilling: **50' bgs**
Casing Type: **Sch. 40**		Diameter: **1 & 4 in.** Interval: **0 to 40'**	DTW: **44.33' bgs**	
Screen Type: **Sch. 40**	Slot: **20**	Diameter: **1 & 4 in.** Interval: **40 to 60'**	Well Depth: **60' bgs**	Total depth: **64' bgs**

Depth	Soil/Rock Type	Moisture Content	% Fines	Color	Vapor (ppm)	Staining	Sample #	Soil Recovery	Water Level	LITHOLOGY/REMARKS	Fabric	WELL COMPLETION
40												top of screen @ ~45' bgs
41								Cut.				
					211	N						
42												
		moist								- @ 42' becomes moist, trace gravel		
43								Cut.				
					253	N						
44												
			5							- @ 44' trace silt		
45								Cut.				
					113	N						
46												
47								Cut.				
					84	N						
48												
	SP	moist	< 5	7.5YR						**Caliche** – (48-52') – SAND, fine grained, very dense,		
49				8/3				Cut.		poorly graded, dry, pink, few gravel		
					75	N						
50												
		wet								- @ 50' becomes wet		
51												
52												
	SC			7.5YR						**Gravelly SAND** – (52-64') – fine to medium grained,		
53				8/3				Cut.		dense, well graded, wet, pink, fine to medium grained		
						N				gravel		
54												
55								Cut.				
						N						
56												
57						N		Cut.				
58												
59						N		Cut.				
60										- @ 60' no sample recovery		bottom of screen @ 60' bgs
										TD = ~64' bgs		well TD = 60'

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APPENDIX G

SUMMARY OF SUBSURFACE SOIL ANALYTICAL RESULTS

Appendix G Summary of Hydrocarbon Results from Monitoring Well Installations
Holly Energy - Hobbs Tank - Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth	Laboratory Analytical Results								Headspace Reading	Water Encountered
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	TPH-GRO	TPH-DRO	TPH		
		(ft-bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	ppm	(ft-bgs)
NMOCD Remediation Action Levels			**10**				**50**			**100**	**100**	
HTRW-1	6/18/13	0-2									0.5	
		2-4									1.5	
		4-6									1.1	
		6-8									1	
		8-10									2	
		10-12									0.6	
		12-14									1.5	
		14-16									1.7	
		16-18									**127**	
		18-20									**387**	
		20-22									**601**	
		22-24									**1124**	
		24-26									**1154**	
		26-28									**1096**	
		28-30									**1120**	
		30-32									**1150**	
HTRW-1-34	6/18/13	32-34	0.00328	0.102	0.448	0.7410	1.29428	13.8	1960	**1973.8**	**1133**	
		34-36									**1142**	
		36-38									**960**	
		38-40									**418**	
		40-42									**402**	
HTRW-1-44	6/18/13	42-44	0.00219	0.0565	0.253	0.4030	0.71469	12	1050	**1062**	**656**	
		44-46									**639**	
		46-48									**315**	
HTRW-1-50	6/18/13	48-50	< 10	< 0.002	0.00825	0.0155	10.0258	0.578	40.4	40.978	**710**	
		50-52									**416**	53
HTRW-2	6/18/13	0-2									0.4	
		2-4									2.2	
		4-6									0	
		6-8									1.2	
		8-10									0.1	
		10-12									5.7	
		12-14									4.1	
		14-16									5.6	
		16-18									6.5	
		18-20									4.6	
		20-22									8.5	
		22-24									7.6	
		24-26									7.1	
		26-28									6.7	
		28-30									4.8	
		30-32									2	
HTRW-2-34	6/18/13	32-34	0.0065	0.231	1.0200	1.8330	3.0905	22.5	3530	**3552.5**	2.2	
HTRW-2-DUP	6/18/13		0.0061	0.18	0.8650	1.5530	2.6041	22.5	3410	**3432.5**		
		34-36									21.3	
		36-38									53.1	
		38-40									**463**	
HTRW-2-42	6/18/13	40-42	0.00497	0.142	0.5690	0.9420	1.6580	17.8	2340	**2357.8**	93.3	
		42-44									**425**	
		44-46									**244**	
HTRW-2-48	6/18/13	46-48	< 10	0.00348	0.0236	0.0431	10.0702	1.93	160	**161.93**	**202**	
		48-50									**166**	
		50-52									NS	54

Appendix G Summary of Hydrocarbon Results from Monitoring Well Installations
Holly Energy - Hobbs Tank - Lea County, New Mexico

Sample ID	Date Sampled	Sample Depth	Laboratory Analytical Results								Headspace Reading	Water Encountered
			Benzene	Toluene	Ethyl-benzene	Total Xylenes	BTEX	TPH-GRO	TPH-DRO	TPH		
		(ft-bgs)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	ppm	(ft-bgs)
NMOCD Remediation Action Levels			**10**				**50**			**100**	**100**	
HTRW-3	6/18/13	0-2									47.2	
		2-4									**516**	
		4-6									**880**	
		6-8									34.8	
		8-10									**147**	
		10-12									**151**	
		12-14									**479**	
HTRW-3-16	6/18/13	14-16	< 10	0.43	2.77	4.8200	18.0200	33.5	5550	**5583.5**	**557**	
		16-18									**724**	
		18-20									**154**	
		20-22									**253**	
		22-24									**564**	
		24-26									**409**	
HTRW-3-28	6/18/13	26-28	< 10	0.207	1.53	2.9600	14.6970	26.8	4090	**4116.8**	**300**	
		28-30									**383**	
		30-32									**111**	
		32-34									**312**	
		34-36									**125**	
		36-38									**455**	
		38-40									**647**	
		40-42									**491**	
		42-44									**883**	
		44-46									**440**	
HTRW-3-48	6/18/13	46-48	0.0016	0.0409	0.171	0.2723	0.4858	7.74	909	**916.74**	**389**	
		48-50									**352**	
		50-52									**245**	53
HTRW-4	6/19/13	0-2									0	
		2-4									0.2	
		4-6									0	
		6-8									0.3	
		8-10									0.2	
		10-12									0.1	
		12-14									0.7	
		14-16									0.3	
		16-18									0	
		18-20									1	
		20-22									1.1	
		22-24									0.8	
		24-26									0.6	
		26-28									0.5	
		28-30									0.8	
		30-32									1.2	
		32-34									0.3	
		34-36									1.6	
		36-38									3.7	
		38-40									**354**	
HTRW-4-42	6/19/13	40-42	< 10	0.256	1.21	2.4690	13.9350	38.7	2190	**2228.7**	**1434**	
		42-44									NS	
		44-46									NS	
HTRW-4-48	6/19/13	46-48	< 10	< 0.001	0.00237	0.0059	10.0092	2.66	332	**334.66**	NS	
		48-50									NS	
		50-52									NS	55.5

NOTES:

NMOCD= New Mexico Oil & Conservation Division

mg/kg = milligrams per kilogram

BTEX = Benzen, Toluene, Ethylbenzen & Total Xylenes

TPH-GRO = Total Petroleum Hydrocarbons- Gasoline Range Organics

TPH-DRO = Total Petroleum Hydrocarbons - Diesel Range Organics

ppm = parts per million

ft-bgs = feet below ground surface

BOLD (RED) - concentration greater than NMOCD Remediation Action Levels

< = analyte not detected above method reporting limit

BTEX analyzed by EPA Method 8260B

TPH-GRO analyzed by EPA Method 8260B

TPH-DRO analyzed by EPA Method 8015M

APPENDIX H

SUBSURFACE SOIL LABORATORY REPORTS

June 27, 2013

Bill Green
Holly Energy Partners
1602 W. Main
Artesisa, NM 88210
TEL: (575) 748-8968
FAX (575) 748-4052

Order No.: 1306175

RE: Hobbs Tank 5201 (Holly Energy Partners)

Dear Bill Green:

DHL Analytical, Inc. received 13 sample(s) on 6/20/2013 for the analyses presented in the following report.

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative and all estimated uncertainties of results are within method specifications.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

John DuPont
General Manager

This report was performed under the accreditation of the State of Texas Laboratory Certification Number: T104704211-13-11

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DHL ANALYTICAL
2300 Double Creek Dr. ■ Round Rock, TX 78664
Phone (512) 388-8222 ■ FAX (512) 388-8229
Web: www.dhlanalytical.com
E-Mail: login@dhlanalytical.com

№ 60095

CHAIN-OF-CUSTODY

CLIENT: CRA
ADDRESS: 14998 W. 6th AVE #800, Golden, Co. 80401
PHONE: 720.974.0935 FAX/E-MAIL: bstephenson@crawrld.com
DATA REPORTED TO: Brad Stephenson
ADDITIONAL REPORT COPIES TO: Bill Green & jcovey@crawrld.com

DATE: 6.19.13 PAGE 1 OF 1
PO #: DHL WORK ORDER #: 130615
PROJECT LOCATION OR NAME: Hobbs Tank 5201 (Holly Energy Partners)
CLENT PROJECT #: COLLECTOR:

Authorize 5% surcharge for TRRP Report? ☐ Yes ☐ No

S=SOIL P=PAINT
W=WATER SL=SLUDGE
A=AIR O=OTHER
L=LIQUID SO=SOLID

Field Sample I.D.	DHL Lab #	Date	Time	Matrix	Container Type	# of Containers	PRESERVATION: HCl	HNO_3	H_2SO_4 ☐ NaOH ☐	ICE	UNPRESERVED	ANALYSES: TCLP-METALS ☐	TCLP-SVOC ☐	TCLP-VOC ☐	TPH-GRO	TPH-DRO	FIELD NOTES
HTRW-1-34	01	6/18/13	0905	S	4oz/6 VOA	7				X		X			X	X	BTEX only
HTRW-1-44	02		0920														
HTRW-1-50	03		0925														
HTRW-2-34	04		1330														
HTRW-2-~~34~~42	05		1345														
HTRW-2-48	06		1355														
HTRW-2-DUP	07		1335														
HTRW-3-16	08		1515														
HTRW-3-28	09		1545														
HTRW-3-48	10		1555														
HTRW-4-42	11	6/19/13	0835														
HTRW-4-48	12	6/19/13	0845	↓	↓	↓											↓
TRIP BLANK	13			W	2 VOA	2				↓		X					BTEX only

TOTAL

RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	
	6.19.13/1600	FEDEX	
RELINQUISHED BY: (Signature)	DATE/TIME	RECEIVED BY: (Signature)	
Fedex	6/20/13 830		
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: 1.3°C THERM #: 57
CUSTODY SEALS: ☐ BROKEN ☑ INTACT ☐ NOT USED
☑ CARRIER BILL #: Fedex
☐ APC DELIVERY
☐ HAND DELIVERED

FedEx Express **NEW** Package US Airbill

FedEx Tracking Number 8017 7767 5345

1 From

Date 6.19.13

Sender's Name JUSTIN COVEY Phone 720 837.9843

Company CRA

Address 14498 W. 6th Ave #800 Dept/Floor/Suite/Room

City Golden State CO ZIP 80401

2 Your Internal Billing Reference

3 To

Recipient's Name Phone 512 388.8222

Company DHL ANALYTICAL

Address 2300 Double Creek Dr Dept/Floor/Suite/Room

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address

Use this line for the HOLD location address or for continuation of your shipping address.

City Round Rock State TX ZIP 78664

HOLD Weekday
FedEx location address
REQUIRED. NOT available for FedEx First Overnight.

HOLD Saturday
FedEx location address
REQUIRED. Available ONLY for FedEx Priority Overnight and FedEx 2Day to select locations.

4 Express Pa
NOTE: Service ar

Next Busines

FedEx First O
Earliest next busine locations. Friday sh Monday unless SA

FedEx Priority
Next business mor delivered on Mond is selected.

FedEx Standi
Next business afte Saturday Delivery

5 Packagin

FedEx Envel

6 Special H

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NOT available fo

No Signatu
Package may be obtaining a signa

Does this shi

No

Dangerous goods (incl or placed in a FedEx Ex

7 Paymen

Sender
Acct. No. in Sec
will be billed.

Total Packages

Our liability is limited t

ORIGIN ID:HOBA (512) 388-8222
DHL ANALYTICAL

2300 DOUBLE CREEK DR

ROUND ROCK, TX 786643801
UNITED STATES US

SHIP DAT
ACTWGT:
CAD: /PC
DIMS: 25

BILL SEN

TO

DHL ANALYTCAL
2300 DOUBLE CREEK DR

ROUND ROCK TX 78664
(000) 000-0000 REF:
INV: DEPT:
PO:

THU -
FIR

TRK# 0200 8017 7767 5345

A1 BSMA

CUSTODY SEAL
DATE 6.19.13
SIGNATURE

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

DHL Analytical, Inc.

Sample Receipt Checklist

Client Name Holly Energy Partners | Date Received: 6/20/2013

Work Order Number 1306175 | Received by JB

Checklist completed by: _____ 6/20/2013 (Signature / Date) | Reviewed by SS 6/20/2013 (Initials / Date)

Carrier name FedEx 1day

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 ☐	1.3 °C
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH<2 acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____
Water - ph>9 (S) or ph>12 (CN) acceptable upon receipt?	Yes ☐	No ☐	NA ☑ LOT #
	Adjusted? _____		Checked by _____

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

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding _____

Comments: _____

Corrective Action _____

Page 1 of 1

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners
Project:	Hobbs Tank 5201 (Holly Energy Partners)
Lab Order:	1306175

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition, Standard Method and ASTM D2216.

The samples were collected in Mountain Standard Time.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives, except where noted in the following. For DRO Analysis, the recovery of surrogate Octacosane for ten of the samples was above the method control limits, due to coelution. These are flagged accordingly in the Analytical Data Report. The remaining surrogate for these samples was within method control limits. No further corrective actions were taken.

For GRO Analysis, the recovery of surrogate Tetrachloroethene for eight of the samples was above the method control limits, due to coelution. These are flagged accordingly in the Analytical Data Report. No further corrective actions were taken.

For Volatiles Analysis, the recovery of surrogate 4-Bromofluorobenzene for six of the samples was above the method control limits. These are flagged accordingly in the Analytical Data Report. The remaining surrogates for these samples were within method control limits. No further corrective actions were taken.

For DRO Analysis, the recovery of the Matrix Spike Duplicate (1306175-12 MSD) was below the method control limits. This is flagged accordingly in the QC Summary Report. The associated LCS was within method control limits. No further corrective actions were taken.

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-1-34
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-01
Project No:		**Collection Date:**	06/18/13 09:05 AM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	1960	33.4	111		mg/Kg-dry	10	06/24/13 10:27 AM
Surr: Isopropylbenzene	79.7	0	47-142		%REC	10	06/24/13 10:27 AM
Surr: Octacosane	347	0	25-162	S	%REC	10	06/24/13 10:27 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	13.8	0.103	0.207		mg/Kg-dry	1	06/21/13 10:12 PM
Surr: Tetrachlorethene	128	0	70-134		%REC	1	06/21/13 10:12 PM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00328	0.00104	0.00520	J	mg/Kg-dry	1	06/25/13 07:22 PM
Ethylbenzene	0.448	0.00104	0.00520		mg/Kg-dry	1	06/25/13 07:22 PM
m,p-Xylene	0.478	0.00104	0.00520		mg/Kg-dry	1	06/25/13 07:22 PM
o-Xylene	0.263	0.00104	0.00520		mg/Kg-dry	1	06/25/13 07:22 PM
Toluene	0.102	0.00208	0.00520		mg/Kg-dry	1	06/25/13 07:22 PM
Surr: 1,2-Dichloroethane-d4	98.6	0	52-149		%REC	1	06/25/13 07:22 PM
Surr: 4-Bromofluorobenzene	166	0	84-118	S	%REC	1	06/25/13 07:22 PM
Surr: Dibromofluoromethane	97.9	0	65-135		%REC	1	06/25/13 07:22 PM
Surr: Toluene-d8	113	0	84-116		%REC	1	06/25/13 07:22 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	12.8	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-1-44
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-02
Project No:		**Collection Date:**	06/18/13 09:20 AM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	1050	32.0	107		mg/Kg-dry	10	06/24/13 10:44 AM
Surr: Isopropylbenzene	74.4	0	47-142		%REC	10	06/24/13 10:44 AM
Surr: Octacosane	286	0	25-162	S	%REC	10	06/24/13 10:44 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	12.0	0.0906	0.181		mg/Kg-dry	1	06/21/13 11:04 PM
Surr: Tetrachlorethene	153	0	70-134	S	%REC	1	06/21/13 11:04 PM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00219	0.000946	0.00473	J	mg/Kg-dry	1	06/25/13 07:53 PM
Ethylbenzene	0.253	0.000946	0.00473		mg/Kg-dry	1	06/25/13 07:53 PM
m,p-Xylene	0.268	0.000946	0.00473		mg/Kg-dry	1	06/25/13 07:53 PM
o-Xylene	0.135	0.000946	0.00473		mg/Kg-dry	1	06/25/13 07:53 PM
Toluene	0.0565	0.00189	0.00473		mg/Kg-dry	1	06/25/13 07:53 PM
Surr: 1,2-Dichloroethane-d4	100	0	52-149		%REC	1	06/25/13 07:53 PM
Surr: 4-Bromofluorobenzene	159	0	84-118	S	%REC	1	06/25/13 07:53 PM
Surr: Dibromofluoromethane	99.2	0	65-135		%REC	1	06/25/13 07:53 PM
Surr: Toluene-d8	106	0	84-116		%REC	1	06/25/13 07:53 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	9.96	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-1-50
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-03
Project No:		**Collection Date:**	06/18/13 09:25 AM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	40.4	2.97	9.88		mg/Kg-dry	1	06/24/13 11:01 AM
Surr: Isopropylbenzene	56.8	0	47-142		%REC	1	06/24/13 11:01 AM
Surr: Octacosane	99.7	0	25-162		%REC	1	06/24/13 11:01 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	0.578	0.0929	0.186		mg/Kg-dry	1	06/21/13 11:55 PM
Surr: Tetrachlorethene	120	0	70-134		%REC	1	06/21/13 11:55 PM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000950	0.00475		mg/Kg-dry	1	06/25/13 03:43 PM
Ethylbenzene	0.00825	0.000950	0.00475		mg/Kg-dry	1	06/25/13 03:43 PM
m,p-Xylene	0.00975	0.000950	0.00475		mg/Kg-dry	1	06/25/13 03:43 PM
o-Xylene	0.00575	0.000950	0.00475		mg/Kg-dry	1	06/25/13 03:43 PM
Toluene	ND	0.00190	0.00475		mg/Kg-dry	1	06/25/13 03:43 PM
Surr: 1,2-Dichloroethane-d4	98.4	0	52-149		%REC	1	06/25/13 03:43 PM
Surr: 4-Bromofluorobenzene	100	0	84-118		%REC	1	06/25/13 03:43 PM
Surr: Dibromofluoromethane	97.7	0	65-135		%REC	1	06/25/13 03:43 PM
Surr: Toluene-d8	97.5	0	84-116		%REC	1	06/25/13 03:43 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	2.15	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-2-34
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-04
Project No:		**Collection Date:**	06/18/13 01:30 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	3530	61.7	206		mg/Kg-dry	20	06/24/13 11:09 AM
Surr: Isopropylbenzene	79.1	0	47-142		%REC	20	06/24/13 11:09 AM
Surr: Octacosane	648	0	25-162	S	%REC	20	06/24/13 11:09 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	22.5	0.0910	0.182		mg/Kg-dry	1	06/22/13 12:47 AM
Surr: Tetrachlorethene	173	0	70-134	S	%REC	1	06/22/13 12:47 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00650	0.000940	0.00470		mg/Kg-dry	1	06/25/13 09:26 PM
Ethylbenzene	1.02	0.0539	0.269		mg/Kg-dry	50	06/25/13 11:33 AM
m,p-Xylene	1.23	0.0539	0.269		mg/Kg-dry	50	06/25/13 11:33 AM
o-Xylene	0.603	0.0539	0.269		mg/Kg-dry	50	06/25/13 11:33 AM
Toluene	0.231	0.108	0.269	J	mg/Kg-dry	50	06/25/13 11:33 AM
Surr: 1,2-Dichloroethane-d4	108	0	52-149		%REC	50	06/25/13 11:33 AM
Surr: 1,2-Dichloroethane-d4	95.9	0	52-149		%REC	1	06/25/13 09:26 PM
Surr: 4-Bromofluorobenzene	98.9	0	84-118		%REC	50	06/25/13 11:33 AM
Surr: 4-Bromofluorobenzene	185	0	84-118	S	%REC	1	06/25/13 09:26 PM
Surr: Dibromofluoromethane	97.0	0	65-135		%REC	1	06/25/13 09:26 PM
Surr: Dibromofluoromethane	105	0	65-135		%REC	50	06/25/13 11:33 AM
Surr: Toluene-d8	94.6	0	84-116		%REC	50	06/25/13 11:33 AM
Surr: Toluene-d8	109	0	84-116		%REC	1	06/25/13 09:26 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	7.22	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-2-42
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-05
Project No:		**Collection Date:**	06/18/13 01:45 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	2340	63.7	212		mg/Kg-dry	20	06/24/13 11:26 AM
Surr: Isopropylbenzene	84.7	0	47-142		%REC	20	06/24/13 11:26 AM
Surr: Octacosane	454	0	25-162	S	%REC	20	06/24/13 11:26 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	17.8	0.0963	0.193		mg/Kg-dry	1	06/22/13 02:03 AM
Surr: Tetrachlorethene	139	0	70-134	S	%REC	1	06/22/13 02:03 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00497	0.000960	0.00480		mg/Kg-dry	1	06/25/13 08:24 PM
Ethylbenzene	0.569	0.0537	0.269		mg/Kg-dry	50	06/25/13 01:07 PM
m,p-Xylene	0.645	0.0537	0.269		mg/Kg-dry	50	06/25/13 01:07 PM
o-Xylene	0.297	0.0537	0.269		mg/Kg-dry	50	06/25/13 01:07 PM
Toluene	0.142	0.107	0.269	J	mg/Kg-dry	50	06/25/13 01:07 PM
Surr: 1,2-Dichloroethane-d4	92.7	0	52-149		%REC	50	06/25/13 01:07 PM
Surr: 1,2-Dichloroethane-d4	99.6	0	52-149		%REC	1	06/25/13 08:24 PM
Surr: 4-Bromofluorobenzene	101	0	84-118		%REC	50	06/25/13 01:07 PM
Surr: 4-Bromofluorobenzene	192	0	84-118	S	%REC	1	06/25/13 08:24 PM
Surr: Dibromofluoromethane	97.9	0	65-135		%REC	50	06/25/13 01:07 PM
Surr: Dibromofluoromethane	99.0	0	65-135		%REC	1	06/25/13 08:24 PM
Surr: Toluene-d8	96.6	0	84-116		%REC	50	06/25/13 01:07 PM
Surr: Toluene-d8	107	0	84-116		%REC	1	06/25/13 08:24 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	6.97	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-2-48
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-06
Project No:		**Collection Date:**	06/18/13 01:55 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	160	2.98	9.94		mg/Kg-dry	1	06/24/13 11:43 AM
Surr: Isopropylbenzene	58.1	0	47-142		%REC	1	06/24/13 11:43 AM
Surr: Octacosane	423	0	25-162	S	%REC	1	06/24/13 11:43 AM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	1.93	0.0950	0.190		mg/Kg-dry	1	06/22/13 03:20 AM
Surr: Tetrachlorethene	129	0	70-134		%REC	1	06/22/13 03:20 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.00105	0.00525		mg/Kg-dry	1	06/25/13 04:14 PM
Ethylbenzene	0.0236	0.00105	0.00525		mg/Kg-dry	1	06/25/13 04:14 PM
m,p-Xylene	0.0266	0.00105	0.00525		mg/Kg-dry	1	06/25/13 04:14 PM
o-Xylene	0.0165	0.00105	0.00525		mg/Kg-dry	1	06/25/13 04:14 PM
Toluene	0.00348	0.00210	0.00525	J	mg/Kg-dry	1	06/25/13 04:14 PM
Surr: 1,2-Dichloroethane-d4	98.9	0	52-149		%REC	1	06/25/13 04:14 PM
Surr: 4-Bromofluorobenzene	106	0	84-118		%REC	1	06/25/13 04:14 PM
Surr: Dibromofluoromethane	99.8	0	65-135		%REC	1	06/25/13 04:14 PM
Surr: Toluene-d8	96.5	0	84-116		%REC	1	06/25/13 04:14 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	6.66	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-2-DUP
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-07
Project No:		**Collection Date:**	06/18/13 01:35 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	3410	61.0	203		mg/Kg-dry	20	06/24/13 12:00 PM
Surr: Isopropylbenzene	113	0	47-142		%REC	20	06/24/13 12:00 PM
Surr: Octacosane	622	0	25-162	S	%REC	20	06/24/13 12:00 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	22.5	0.0980	0.196		mg/Kg-dry	1	06/22/13 04:11 AM
Surr: Tetrachlorethene	175	0	70-134	S	%REC	1	06/22/13 04:11 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00610	0.00106	0.00531		mg/Kg-dry	1	06/25/13 08:55 PM
Ethylbenzene	0.865	0.0543	0.271		mg/Kg-dry	50	06/25/13 01:38 PM
m,p-Xylene	1.06	0.0543	0.271		mg/Kg-dry	50	06/25/13 01:38 PM
o-Xylene	0.493	0.0543	0.271		mg/Kg-dry	50	06/25/13 01:38 PM
Toluene	0.180	0.109	0.271	J	mg/Kg-dry	50	06/25/13 01:38 PM
Surr: 1,2-Dichloroethane-d4	92.4	0	52-149		%REC	50	06/25/13 01:38 PM
Surr: 1,2-Dichloroethane-d4	96.4	0	52-149		%REC	1	06/25/13 08:55 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	50	06/25/13 01:38 PM
Surr: 4-Bromofluorobenzene	183	0	84-118	S	%REC	1	06/25/13 08:55 PM
Surr: Dibromofluoromethane	96.6	0	65-135		%REC	1	06/25/13 08:55 PM
Surr: Dibromofluoromethane	95.6	0	65-135		%REC	50	06/25/13 01:38 PM
Surr: Toluene-d8	97.7	0	84-116		%REC	50	06/25/13 01:38 PM
Surr: Toluene-d8	112	0	84-116		%REC	1	06/25/13 08:55 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	7.86	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-3-16
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-08
Project No:		**Collection Date:**	06/18/13 03:15 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	5550	65.3	218		mg/Kg-dry	20	06/24/13 12:17 PM
Surr: Isopropylbenzene	97.7	0	47-142		%REC	20	06/24/13 12:17 PM
Surr: Octacosane	914	0	25-162	S	%REC	20	06/24/13 12:17 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	33.5	0.110	0.220		mg/Kg-dry	1	06/22/13 05:28 AM
Surr: Tetrachlorethene	254	0	70-134	S	%REC	1	06/22/13 05:28 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.0582	0.291		mg/Kg-dry	50	06/25/13 12:04 PM
Ethylbenzene	2.77	0.0582	0.291		mg/Kg-dry	50	06/25/13 12:04 PM
m,p-Xylene	2.98	0.0582	0.291		mg/Kg-dry	50	06/25/13 12:04 PM
o-Xylene	1.84	0.0582	0.291		mg/Kg-dry	50	06/25/13 12:04 PM
Toluene	0.430	0.116	0.291		mg/Kg-dry	50	06/25/13 12:04 PM
Surr: 1,2-Dichloroethane-d4	94.2	0	52-149		%REC	50	06/25/13 12:04 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	50	06/25/13 12:04 PM
Surr: Dibromofluoromethane	96.5	0	65-135		%REC	50	06/25/13 12:04 PM
Surr: Toluene-d8	99.3	0	84-116		%REC	50	06/25/13 12:04 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	14.1	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-3-28
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-09
Project No:		**Collection Date:**	06/18/13 03:45 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	4090	63.2	211		mg/Kg-dry	20	06/24/13 12:34 PM
Surr: Isopropylbenzene	85.5	0	47-142		%REC	20	06/24/13 12:34 PM
Surr: Octacosane	664	0	25-162	S	%REC	20	06/24/13 12:34 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	26.8	0.0962	0.192		mg/Kg-dry	1	06/22/13 06:45 AM
Surr: Tetrachlorethene	221	0	70-134	S	%REC	1	06/22/13 06:45 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.0548	0.274		mg/Kg-dry	50	06/25/13 12:36 PM
Ethylbenzene	1.53	0.0548	0.274		mg/Kg-dry	50	06/25/13 12:36 PM
m,p-Xylene	1.79	0.0548	0.274		mg/Kg-dry	50	06/25/13 12:36 PM
o-Xylene	1.17	0.0548	0.274		mg/Kg-dry	50	06/25/13 12:36 PM
Toluene	0.207	0.110	0.274	J	mg/Kg-dry	50	06/25/13 12:36 PM
Surr: 1,2-Dichloroethane-d4	95.7	0	52-149		%REC	50	06/25/13 12:36 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	50	06/25/13 12:36 PM
Surr: Dibromofluoromethane	97.4	0	65-135		%REC	50	06/25/13 12:36 PM
Surr: Toluene-d8	97.1	0	84-116		%REC	50	06/25/13 12:36 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	8.77	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-3-48
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-10
Project No:		**Collection Date:**	06/18/13 03:55 PM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	909	31.0	103		mg/Kg-dry	10	06/24/13 12:51 PM
Surr: Isopropylbenzene	65.9	0	47-142		%REC	10	06/24/13 12:51 PM
Surr: Octacosane	273	0	25-162	S	%REC	10	06/24/13 12:51 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	7.74	0.102	0.204		mg/Kg-dry	1	06/22/13 08:02 AM
Surr: Tetrachlorethene	159	0	70-134	S	%REC	1	06/22/13 08:02 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	0.00160	0.000973	0.00487	J	mg/Kg-dry	1	06/25/13 05:17 PM
Ethylbenzene	0.171	0.000973	0.00487		mg/Kg-dry	1	06/25/13 05:17 PM
m,p-Xylene	0.177	0.000973	0.00487		mg/Kg-dry	1	06/25/13 05:17 PM
o-Xylene	0.0953	0.000973	0.00487		mg/Kg-dry	1	06/25/13 05:17 PM
Toluene	0.0409	0.00195	0.00487		mg/Kg-dry	1	06/25/13 05:17 PM
Surr: 1,2-Dichloroethane-d4	99.7	0	52-149		%REC	1	06/25/13 05:17 PM
Surr: 4-Bromofluorobenzene	120	0	84-118	S	%REC	1	06/25/13 05:17 PM
Surr: Dibromofluoromethane	97.5	0	65-135		%REC	1	06/25/13 05:17 PM
Surr: Toluene-d8	104	0	84-116		%REC	1	06/25/13 05:17 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	6.94	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-4-42
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-11
Project No:		**Collection Date:**	06/19/13 08:35 AM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	2190	162	538		mg/Kg-dry	50	06/24/13 01:08 PM
Surr: Isopropylbenzene	95.5	0	47-142		%REC	50	06/24/13 01:08 PM
Surr: Octacosane	464	0	25-162	S	%REC	50	06/24/13 01:08 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	38.7	0.0944	0.189		mg/Kg-dry	1	06/22/13 09:44 AM
Surr: Tetrachlorethene	323	0	70-134	S	%REC	1	06/22/13 09:44 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.0544	0.272		mg/Kg-dry	50	06/25/13 02:09 PM
Ethylbenzene	1.21	0.0544	0.272		mg/Kg-dry	50	06/25/13 02:09 PM
m,p-Xylene	1.68	0.0544	0.272		mg/Kg-dry	50	06/25/13 02:09 PM
o-Xylene	0.789	0.0544	0.272		mg/Kg-dry	50	06/25/13 02:09 PM
Toluene	0.256	0.109	0.272	J	mg/Kg-dry	50	06/25/13 02:09 PM
Surr: 1,2-Dichloroethane-d4	93.8	0	52-149		%REC	50	06/25/13 02:09 PM
Surr: 4-Bromofluorobenzene	105	0	84-118		%REC	50	06/25/13 02:09 PM
Surr: Dibromofluoromethane	96.2	0	65-135		%REC	50	06/25/13 02:09 PM
Surr: Toluene-d8	98.7	0	84-116		%REC	50	06/25/13 02:09 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	8.16	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	HTRW-4-48
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-12
Project No:		**Collection Date:**	06/19/13 08:45 AM
Lab Order:	1306175	**Matrix:**	SOIL

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
TPH EXTRACTABLE BY GC - SOIL		**M8015D**					Analyst: **DEW**
TPH-DRO C10-C28	332	3.10	10.3		mg/Kg-dry	1	06/24/13 01:25 PM
Surr: Isopropylbenzene	67.8	0	47-142		%REC	1	06/24/13 01:25 PM
Surr: Octacosane	151	0	25-162		%REC	1	06/24/13 01:25 PM
TPH PURGEABLE BY GC - SOIL		**M8015V**					Analyst: **DEW**
Gasoline Range Organics	2.66	0.0981	0.196		mg/Kg-dry	1	06/22/13 11:01 AM
Surr: Tetrachlorethene	131	0	70-134		%REC	1	06/22/13 11:01 AM
VOLATILES(5035) BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000943	0.00471		mg/Kg-dry	1	06/25/13 04:46 PM
Ethylbenzene	0.00237	0.000943	0.00471	J	mg/Kg-dry	1	06/25/13 04:46 PM
m,p-Xylene	0.00378	0.000943	0.00471	J	mg/Kg-dry	1	06/25/13 04:46 PM
o-Xylene	0.00208	0.000943	0.00471	J	mg/Kg-dry	1	06/25/13 04:46 PM
Toluene	ND	0.00189	0.00471		mg/Kg-dry	1	06/25/13 04:46 PM
Surr: 1,2-Dichloroethane-d4	97.5	0	52-149		%REC	1	06/25/13 04:46 PM
Surr: 4-Bromofluorobenzene	107	0	84-118		%REC	1	06/25/13 04:46 PM
Surr: Dibromofluoromethane	97.8	0	65-135		%REC	1	06/25/13 04:46 PM
Surr: Toluene-d8	97.5	0	84-116		%REC	1	06/25/13 04:46 PM
PERCENT MOISTURE		**D2216**					Analyst: **JCG**
Percent Moisture	4.76	0	0		WT%	1	06/24/13 08:50 AM

Qualifiers:

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

DHL Analytical, Inc.

Date: *27-Jun-13*

CLIENT:	Holly Energy Partners	**Client Sample ID:**	TRIP BLANK
Project:	Hobbs Tank 5201 (Holly Energy Partners)	**Lab ID:**	1306175-13
Project No:		**Collection Date:**	06/18/13
Lab Order:	1306175	**Matrix:**	AQUEOUS

Analyses	Result	MDL	RL	Qual	Units	DF	Date Analyzed
8260 WATER VOLATILES BY GC/MS		**SW8260C**					Analyst: **KL**
Benzene	ND	0.000200	0.00100		mg/L	1	06/21/13 01:36 PM
Ethylbenzene	ND	0.000300	0.00100		mg/L	1	06/21/13 01:36 PM
m,p-Xylene	ND	0.000600	0.00200		mg/L	1	06/21/13 01:36 PM
o-Xylene	ND	0.000300	0.00100		mg/L	1	06/21/13 01:36 PM
Toluene	ND	0.000600	0.00200		mg/L	1	06/21/13 01:36 PM
Surr: 1,2-Dichloroethane-d4	107	0	72-119		%REC	1	06/21/13 01:36 PM
Surr: 4-Bromofluorobenzene	101	0	76-119		%REC	1	06/21/13 01:36 PM
Surr: Dibromofluoromethane	110	0	85-115		%REC	1	06/21/13 01:36 PM
Surr: Toluene-d8	94.8	0	81-120		%REC	1	06/21/13 01:36 PM

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GC15_130624A

The QC data in batch 58042 applies to the following samples: 1306175-01C, 1306175-02C, 1306175-03C, 1306175-04C, 1306175-05C, 1306175-06C, 1306175-07C, 1306175-08C, 1306175-09C, 1306175-10C, 1306175-11C, 1306175-12C

Sample ID: **LCS-58042** Batch ID: **58042** TestNo: **M8015D** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC15_130624A** Analysis Date: **6/24/2013 9:36:06 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	109	10.0	125.0	0	87.4	50	114			
Surr: Isopropylbenzene	4.74		7.500		63.3	47	142			
Surr: Octacosane	6.46		7.500		86.1	25	162			

Sample ID: **MB-58042** Batch ID: **58042** TestNo: **M8015D** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC15_130624A** Analysis Date: **6/24/2013 9:53:05 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	ND	10.0								
Surr: Isopropylbenzene	4.75		7.500		63.4	47	142			
Surr: Octacosane	6.52		7.500		86.9	25	162			

Sample ID: **1306175-12CMS** Batch ID: **58042** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MS** Run ID: **GC15_130624A** Analysis Date: **6/24/2013 1:42:13 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	420	10.2	127.4	331.8	69.4	50	114			
Surr: Isopropylbenzene	4.85		7.646		63.4	47	142			
Surr: Octacosane	10.5		7.646		138	25	162			

Sample ID: **1306175-12CMSD** Batch ID: **58042** TestNo: **M8015D** Units: **mg/Kg-dry**
SampType: **MSD** Run ID: **GC15_130624A** Analysis Date: **6/24/2013 1:59:07 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
TPH-DRO C10-C28	380	10.2	127.7	331.8	38.1	50	114	9.93	30	S
Surr: Isopropylbenzene	4.84		7.661		63.1	47	142	0	0	
Surr: Octacosane	9.87		7.661		129	25	162	0	0	

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GC4_130621C

The QC data in batch 58062 applies to the following samples: 1306175-01B, 1306175-02B, 1306175-03B, 1306175-04B, 1306175-05B, 1306175-06B, 1306175-07B, 1306175-08B, 1306175-09B, 1306175-10B, 1306175-11B, 1306175-12B

Sample ID: **LCS-58062** Batch ID: **58062** TestNo: **M8015V** Units: **mg/Kg**
SampType: **LCS** Run ID: **GC4_130621C** Analysis Date: **6/21/2013 8:31:13 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.74	0.200	5.000	0	94.7	68	126			
Surr: Tetrachlorethene	0.221		0.2000		110	70	134			

Sample ID: **LCSD-58062** Batch ID: **58062** TestNo: **M8015V** Units: **mg/Kg**
SampType: **LCSD** Run ID: **GC4_130621C** Analysis Date: **6/21/2013 8:56:10 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	4.85	0.200	5.000	0	97.0	68	126	2.36	30	
Surr: Tetrachlorethene	0.197		0.2000		98.7	70	134	0	0	

Sample ID: **MB-58062** Batch ID: **58062** TestNo: **M8015V** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GC4_130621C** Analysis Date: **6/21/2013 9:47:29 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Gasoline Range Organics	ND	0.200								
Surr: Tetrachlorethene	0.207		0.2000		103	70	134			

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130625A

The QC data in batch 58087 applies to the following samples: 1306175-01A, 1306175-02A, 1306175-03A, 1306175-04A, 1306175-05A, 1306175-06A, 1306175-07A, 1306175-08A, 1306175-09A, 1306175-10A, 1306175-11A, 1306175-12A

Sample ID: **LCS-58087 M** Batch ID: **58087** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_130625A** Analysis Date: **6/25/2013 10:30:00 AM** Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0237	0.00500	0.0232	0	102	73	126			
Ethylbenzene	0.0222	0.00500	0.0232	0	95.5	74	127			
m,p-Xylene	0.0448	0.00500	0.0464	0	96.5	79	126			
o-Xylene	0.0222	0.00500	0.0232	0	95.7	77	125			
Toluene	0.0232	0.00500	0.0232	0	100	71	127			
Surr: 1,2-Dichloroethane-d4	54.0		50.00		108	52	149			
Surr: 4-Bromofluorobenzene	47.3		50.00		94.7	84	118			
Surr: Dibromofluoromethane	53.4		50.00		107	65	135			
Surr: Toluene-d8	47.7		50.00		95.5	84	116			

Sample ID: **MB-58087 M** Batch ID: **58087** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **MBLK** Run ID: **GCMS2_130625A** Analysis Date: **6/25/2013 11:01:00 AM** Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00500								
Ethylbenzene	ND	0.00500								
m,p-Xylene	ND	0.00500								
o-Xylene	ND	0.00500								
Toluene	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	51.0		50.00		102	52	149			
Surr: 4-Bromofluorobenzene	47.6		50.00		95.2	84	118			
Surr: Dibromofluoromethane	50.9		50.00		102	65	135			
Surr: Toluene-d8	47.9		50.00		95.9	84	116			

Sample ID: **LCS-58087** Batch ID: **58087** TestNo: **SW8260C** Units: **mg/Kg**
SampType: **LCS** Run ID: **GCMS2_130625A** Analysis Date: **6/25/2013 2:41:00 PM** Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0231	0.00500	0.0232	0	99.4	73	126			
Ethylbenzene	0.0214	0.00500	0.0232	0	92.2	74	127			
m,p-Xylene	0.0433	0.00500	0.0464	0	93.2	79	126			
o-Xylene	0.0213	0.00500	0.0232	0	91.9	77	125			
Toluene	0.0222	0.00500	0.0232	0	95.5	71	127			
Surr: 1,2-Dichloroethane-d4	48.1		50.00		96.3	52	149			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.4	84	118			
Surr: Dibromofluoromethane	49.6		50.00		99.1	65	135			
Surr: Toluene-d8	49.5		50.00		99.1	84	116			

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS2_130625A

Sample ID: **MB-58087**	Batch ID: **58087**	TestNo: **SW8260C**	Units: **mg/Kg**
SampType: **MBLK**	Run ID: **GCMS2_130625A**	Analysis Date: **6/25/2013 3:12:00 PM**	Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00500								
Ethylbenzene	ND	0.00500								
m,p-Xylene	ND	0.00500								
o-Xylene	ND	0.00500								
Toluene	ND	0.00500								
Surr: 1,2-Dichloroethane-d4	45.2		50.00		90.5	52	149			
Surr: 4-Bromofluorobenzene	49.2		50.00		98.4	84	118			
Surr: Dibromofluoromethane	48.3		50.00		96.5	65	135			
Surr: Toluene-d8	48.1		50.00		96.2	84	116			

Sample ID: **1306175-03AMS**	Batch ID: **58087**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MS**	Run ID: **GCMS2_130625A**	Analysis Date: **6/25/2013 5:48:00 PM**	Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0218	0.00498	0.0231	0	94.4	73	126			
Ethylbenzene	0.0257	0.00498	0.0231	0.00825	75.5	74	127			
m,p-Xylene	0.0468	0.00498	0.0462	0.00975	80.2	79	126			
o-Xylene	0.0250	0.00498	0.0231	0.00575	83.1	77	125			
Toluene	0.0221	0.00498	0.0231	0	95.7	71	127			
Surr: 1,2-Dichloroethane-d4	48.5		49.81		97.4	52	149			
Surr: 4-Bromofluorobenzene	51.2		49.81		103	84	118			
Surr: Dibromofluoromethane	49.1		49.81		98.6	65	135			
Surr: Toluene-d8	48.5		49.81		97.4	84	116			

Sample ID: **1306175-03AMSD**	Batch ID: **58087**	TestNo: **SW8260C**	Units: **mg/Kg-dry**
SampType: **MSD**	Run ID: **GCMS2_130625A**	Analysis Date: **6/25/2013 6:19:00 PM**	Prep Date: **6/25/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0217	0.00494	0.0229	0	94.7	73	126	0.412	30	
Ethylbenzene	0.0255	0.00494	0.0229	0.00825	75.0	74	127	0.971	0	
m,p-Xylene	0.0466	0.00494	0.0459	0.00975	80.3	79	126	0.458	0	
o-Xylene	0.0247	0.00494	0.0229	0.00575	82.4	77	125	1.22	0	
Toluene	0.0220	0.00494	0.0229	0	95.7	71	127	0.732	30	
Surr: 1,2-Dichloroethane-d4	49.5		49.42		100	52	149	0	0	
Surr: 4-Bromofluorobenzene	49.7		49.42		101	84	118	0	0	
Surr: Dibromofluoromethane	49.4		49.42		99.9	65	135	0	0	
Surr: Toluene-d8	47.6		49.42		96.3	84	116	0	0	

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130621C

The QC data in batch 58052 applies to the following samples: 1306175-13A

Sample ID: **LCS-58052** Batch ID: **58052** TestNo: **SW8260C** Units: **mg/L**
SampType: **LCS** Run ID: **GCMS7_130621C** Analysis Date: **6/21/2013 11:10:00 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.0243	0.00100	0.0232	0	105	81	122			
Ethylbenzene	0.0238	0.00100	0.0232	0	102	80	120			
m,p-Xylene	0.0477	0.00200	0.0464	0	103	80	120			
o-Xylene	0.0236	0.00100	0.0232	0	102	80	120			
Toluene	0.0252	0.00200	0.0232	0	108	80	120			
Surr: 1,2-Dichloroethane-d4	195		200.0		97.4	72	119			
Surr: 4-Bromofluorobenzene	193		200.0		96.5	76	119			
Surr: Dibromofluoromethane	199		200.0		99.7	85	115			
Surr: Toluene-d8	195		200.0		97.7	81	120			

Sample ID: **MB-58052** Batch ID: **58052** TestNo: **SW8260C** Units: **mg/L**
SampType: **MBLK** Run ID: **GCMS7_130621C** Analysis Date: **6/21/2013 11:59:00 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	ND	0.00100								
Ethylbenzene	ND	0.00100								
m,p-Xylene	ND	0.00200								
o-Xylene	ND	0.00100								
Toluene	ND	0.00200								
Surr: 1,2-Dichloroethane-d4	211		200.0		106	72	119			
Surr: 4-Bromofluorobenzene	199		200.0		99.3	76	119			
Surr: Dibromofluoromethane	216		200.0		108	85	115			
Surr: Toluene-d8	191		200.0		95.7	81	120			

Sample ID: **1306120-06AMS** Batch ID: **58052** TestNo: **SW8260C** Units: **mg/L**
SampType: **MS** Run ID: **GCMS7_130621C** Analysis Date: **6/21/2013 4:01:00 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.232	0.0100	0.232	0	99.9	81	122			
Ethylbenzene	0.234	0.0100	0.232	0	101	80	120			
m,p-Xylene	0.502	0.0200	0.464	0	108	80	120			
o-Xylene	0.250	0.0100	0.232	0	108	80	120			
Toluene	0.239	0.0200	0.232	0	103	80	120			
Surr: 1,2-Dichloroethane-d4	2010		2000		100	72	119			
Surr: 4-Bromofluorobenzene	1930		2000		96.7	76	119			
Surr: Dibromofluoromethane	1750		2000		87.3	85	115			
Surr: Toluene-d8	1950		2000		97.5	81	120			

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: GCMS7_130621C

Sample ID: **1306120-06AMSD** Batch ID: **58052** TestNo: **SW8260C** Units: **mg/L**
SampType: **MSD** Run ID: **GCMS7_130621C** Analysis Date: **6/21/2013 4:25:00 PM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Benzene	0.237	0.0100	0.232	0	102	81	120	2.09	20	
Ethylbenzene	0.231	0.0100	0.232	0	99.6	80	120	1.46	20	
m,p-Xylene	0.486	0.0200	0.464	0	105	80	120	3.22	20	
o-Xylene	0.242	0.0100	0.232	0	104	80	120	3.13	20	
Toluene	0.237	0.0200	0.232	0	102	80	120	1.01	20	
Surr: 1,2-Dichloroethane-d4	2000		2000		100	72	119	0	0	
Surr: 4-Bromofluorobenzene	1940		2000		97.1	76	119	0	0	
Surr: Dibromofluoromethane	1760		2000		87.9	85	115	0	0	
Surr: Toluene-d8	1930		2000		96.5	81	120	0	0	

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130621A

The QC data in batch 58050 applies to the following samples: 1306175-12C

Sample ID: **1306190-01A-DUP** Batch ID: **58050** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_130621A** Analysis Date: **6/24/2013 8:50:00 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	3.78	0	0	3.645				3.52	30	

Qualifiers:

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

CLIENT: Holly Energy Partners
Work Order: 1306175
Project: Hobbs Tank 5201 (Holly Energy Partners)

ANALYTICAL QC SUMMARY REPORT

RunID: PMOIST_130621B

The QC data in batch 58059 applies to the following samples: 1306175-01C, 1306175-02C, 1306175-03C, 1306175-04C, 1306175-05C, 1306175-06C, 1306175-07C, 1306175-08C, 1306175-09C, 1306175-10C, 1306175-11C

Sample ID: **1306194-10A-DUP** Batch ID: **58059** TestNo: **D2216** Units: **WT%**
SampType: **DUP** Run ID: **PMOIST_130621B** Analysis Date: **6/24/2013 8:50:00 AM** Prep Date: **6/21/2013**

Analyte	Result	RL	SPK value	Ref Val	%REC	LowLimit	HighLimit	%RPD	RPDLimit	Qual
Percent Moisture	15.2	0	0	15.23				0.045	30	

Qualifiers:

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

Chavez, Carl J, EMNRD

From: Stephenson, Brad <bstephenson@craworld.com>
Sent: Monday, March 10, 2014 12:44 PM
To: Chavez, Carl J, EMNRD
Cc: Stockweather, Allison
Subject: Holly Public Notice
Attachments: Verification of Public Notice.pdf

Carl,

Here is the copy of the Public Notice for the Holly Tank 5201 site.

Public notification was completed to all concerned parties that were listed by June 2013. Glenn Von Gotten was copied on all. Also you should have a status report that was submitted to NMOCD in August 2013.

I will call you Tomorrow AM to discuss and set up a conference call for Thursday with Holly.

I will be glad to help you out anything you need to get up to speed on this project.

Brad Stephenson, PG
Sr Hydrogeologist
Conestoga-Rovers & Associates
14998 West 6th Avenue Frontage Road #800
Golden, Colorado 80401

303-941-6156 (cell)
720-974-0942 (direct office)
720-974-0936 (fax)

bstephenson@craworld.com

CONESTOGA-ROVERS & ASSOCIATES

CONESTOGA-ROVERS & ASSOCIATES
Proudly serving our Clients since 1976

Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER
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 15 issue(s).
Beginning with the issue dated
March 27, 2013
and ending with the issue dated
April 12, 2013

PUBLISHER
Sworn and subscribed to before me
this 12th day of
April, 2013

Notary Public

My commission expires
February 28, 2016
(Seal)

OFFICIAL SEAL
YEZENIA CALDERON
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.

Legal Notice
March 27, 28, 29, 30, 31,
April 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 2013

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

Notice is hereby given that pursuant to the Oil Conservation Division Regulations, the following Combined Stage 1 and Stage 2 Abatement Plan Proposal has been submitted to the Director of the Oil Conservation Division, 1220 St. Francis Dr., Santa Fe, New Mexico 87505, Telephone (505) 476-3440:

Holly Energy Partners, William Green, PG, Environmental Specialist, (575) 748-8968, 1602 W. Main, Artesia, NM 88210, has submitted a combined Stage 1 and Stage 2 Abatement Plan Proposal for the Holly Energy Hobbs Crude Station Tank 5201 Site located south of Hobbs, New Mexico in the NW_ of the NW _ of Section 22, Township 19S, Range 38E, NMPM, Lea County, New Mexico. The Site is located at Holly Energy Partners Tank Farm on County Road 61. Soil samples collected on Site had levels of total benzene, toluene, ethylbenzene, and xylenes (BTEX), which exceed the Oil Conservation Division recommended remediation action levels. Recent ground water samples showed no detections of any BTEX constituents above the WQCC standards. A monitoring well, , detected a crude oil thickness of 3.62 feet. The Combined Stage 1 and Stage 2 Abatement Plan Proposal present the following activities: site history and chronology of work done to date, site geology and hydrogeology; water well search within a 1 mile radius of the site; installation of monitoring wells; soil samples collected for field screening and laboratory analysis from each boring; ground water samples collected for laboratory analysis from the monitoring well; proposed installation of monitoring wells to establish ground water gradient and direction; proposed ground water monitoring program; proposed methods for remediation of the site including excavation of affected soils, installation of synthetic barrier, and preparation of reports.

Any interested person may obtain further information from the Oil Conservation Division and may submit to the Director of the Oil Conservation Division, at the address given above, written comments or a written request for a public hearing that include reasons why a hearing should be held. The Combined Stage 1 and Stage 2 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Dr., Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on the proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments or a written request for a hearing may be submitted.
#27991

67110222 00110793

JUSTIN COVEY
CONESTOGA-ROVERS & ASSOCIATES
14998 WEST 6TH AVENUE FRONTAGE ROAD; #800
GOLDEN, CO 80401

SANTA FE
NEW MEXICAN

Founded 1849

CONESTOGA-ROVERS & ASSOCIATES
14998 WEST 6TH AVENUE
FRONTAGE ROAD SUITE 800
GOLDEN, CO 80401

ACCOUNT: 5186
AD NUMBER: 0000004561
LEGAL NO 94920 P.O. #:

15 TIME(S)	2,047.50
AFFIDAVIT	10.00
TAX	168.46
TOTAL	2,225.96

AFFIDAVIT OF PUBLICATION

STATE OF NEW MEXICO
COUNTY OF SANTA FE

I, M. Prendergast, 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 # a copy of which is hereto attached was published in said newspaper 15 day(s) between 03/19/2013 and 04/11/2013 and that the notice was published in the newspaper proper and not in any supplement; the first date of publication being on the 19th day of March, 2013 and that the undersigned has personal knowledge of the matter and things set forth in this affidavit.

/S/ _____
LEGAL ADVERTISEMENT REPRESENTATIVE

Subscried and sworn to before me on this 11th day of April, 2013

Notary Cynthia Turner

Commission Expires: 5 3 16

OFFICIAL SEAL
Cynthia Turner
NOTARY PUBLIC
STATE OF NEW MEXICO
My Commission Expires: 5 3 16

THE SANTA FE
NEW MEXICAN
Founded 1849

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

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Any interested person may obtain further information from the Oil Conservation Division and may submit to the Director of the Oil Conservation Division, at the address given above, written comments or a written request for a public hearing that include reasons why a hearing should be held. The Combined Stage 1 and Stage 2 Abatement Plan Proposal may be viewed at the above address or at the Oil Conservation Division Hobbs District Office, 1625 N. French Dr., Hobbs, New Mexico 88240, Telephone (505) 393-6161 between 8:00 a.m. and 4:00 p.m., Monday through Friday. Prior to ruling on the proposed Stage 1 Abatement Plan Proposal, the Director of the Oil Conservation Division shall allow at least thirty (30) days after the date of publication of this notice during which written comments or a written request for a hearing may be submitted.

LEGAL# 94920

PUBLISHED IN THE SANTA FE NEW MEXICAN MARCH 22 THROUGH APRIL 11, 2013

State of New Mexico
Energy, Minerals and Natural Resources Department

Susana Martinez
Governor

John Bemis
Cabinet Secretary

Brett F. Woods, Ph.D.
Deputy Cabinet Secretary

Jami Bailey
Division Director
Oil Conservation Division

March 11, 2013

Mr. William Green
Holly Energy Partners
P.O. Box 1260
1602 W Main
Artesia, New Mexico 88211

RE: AP-113 - COMBINED STAGE 1 + STAGE 2 ABATEMENT PLAN
ADMINSTRATIVE COMPLETENESS DETERMINATION
HOLLY ENERGY HOBBS CRUDE STATION TANK 5201
NW 1/4 OF THE NW 1/4 OF SECTION 22
TOWNSHIP 19 SOUTH, RANGE 38 EAST, NMPM
LEA COUNTY, NEW MEXICO

Dear Mr. Green:

The Oil Conservation Division (OCD) has reviewed the Combine Stage 1 and Stage 2 Abatement Plan (AP-113), submitted by Conestoga-Rovers & Associates on behalf of Holly Energy Partners. Holly submitted this Combined Stage 1 and Stage 2 Abatement Plan proposal to conduct a ground water and soil investigation of crude released from a pipeline at Tank 5201 located at Holly's Hobbs Crude Station site, located in Section 1, Township 12 South, Range 34 East, Lea County, New Mexico.

OCD has determined that Holly's Combine Stage 1 and Stage 2 Abatement Plan Proposal is administratively complete because Holly has met the requirements specified in 19.15.30.13C NMAC. Before OCD can complete a technical review of EMGR's Stage 1 proposal, Holly shall:

1. Issue written notice of the Abatement Plan proposal pursuant to 19.15.30.15A NMAC, prior to issuing public notice. A listing of "those persons, as identified by the Director, who have requested notification" is attached.

2. Issue its OCD approved public notice in the Santa Fe New Mexican and the Hobbs News-Sun, pursuant to 19.15.30.15B NMAC.

3. Provide OCD with proof of publication and proof of written notice.

If you have any questions, please contact me at 505-476-3488.

WQCC Interested Parties Notice Mailing List
(Updated 7-17-12)

Field Supervisor
US Fish & Wildlife Service
2105 Osuna Road, Northeast
Albuquerque, NM 87113-1001
(Wishes to be notified via regular mail)

State Historic Preservation Officer
407 Galisteo
Santa Fe, NM 87501
(Wishes to be notified via regular mail)

Dr. Harry Bishara
P.O. Box 748
Cuba, NM 87013
(Wishes to be notified via regular mail)

Director
New Mexico Department of Game & Fish
P.O. Box 25112
Santa Fe, NM 87504
Email: james.lane@state.nm.us

Chief of Conservation Services
New Mexico Department of Game & Fish
P.O. Box 25112
Santa Fe, NM 87504
Email: matthew.wunder@state.nm.us

Arthur Allison
Cabinet Secretary
Indian Affairs Department
1220 South Saint Francis Drive
Santa Fe, NM 87505
Email: arthur.allison@state.nm.us

Julie Maitland
Division Director of Agriculture Programs and Resources Division
New Mexico Department of Agriculture
MSC 3189, Box 30005
Las Cruces, New Mexico 88003-8005
Email: ddapr@nmda.nmsu.edu

WQCC Interested Parties Notice Mailing List

(Updated 7-17-12)

Jesse Juen
State Director
Bureau of Land Management
P. O. Box 27115
Santa Fe, NM 87502-0115
Email: jjuen@blm.gov

Paul Sisneros
Director of Communications
Attorney General's Office
P. O. Box 1508
Santa Fe, NM 87504
Email: psisneros@nmag.gov

Randy Hicks
R.T. Hicks Consultants, Ltd
901 Rio Grande NW, Suite F-142
Albuquerque, NM 87104
Email: r@rthicksconsult.com

Chris Shuey
Southwest Research
& Information Center
P. O. Box 4524
Albuquerque, N.M. 87106
Email: sric.chris@earthlink.net (Changed e-mail directly to Chris's)

Director
State Parks Division
1220 S. St. Francis Drive
P.O. Box 1147
Santa Fe, NM 87504
Email: nmparks@state.nm.us

Scott A. Verhines
State Engineer
Office of the State Engineer:
130 South Capitol Street
Concha Ortiz y Pino Building
P.O. Box 25102
Santa Fe, NM 87504-5102
Email: scott.verhines @state.nm.us

Peggy Johnson
New Mexico Bureau of Geology & Mineral Resources
New Mexico Institute of Mining & Technology
801 Leroy Place
Socorro, NM 87801-4796
Email: peggy@nmbg.nmt.edu

WQCC Interested Parties Notice Mailing List
(Updated 7-17-12)

Marie Gutierrez
New Mexico Oil & Gas Association
PO Box 1864
Santa Fe, New Mexico 87504
Email: marieg@nmoga.org

William Fetner
New Mexico Trustee for Natural Resources
c/o American Ground Water Consultants
610 Gold St. SW, Suite 236
Albuquerque, NM 87102
Email: william.fetner@state.nm.us

Jay Lazarus
Glorieta Geoscience
P. O. Box 5727
Santa Fe, NM 87502
Email: lazarus@glorietageo.com

David Martin
Secretary
New Mexico Environment Department
P. O. Box 26110
Santa Fe, NM 87502
Email: Winchester, Jim, NMENV

Corbin Newman
Regional Forester
USFS Regional Office
517 Gold Avenue SW
Albuquerque, NM 87102
Email: cnewman02@fs.fed.us

John E. Kieling
Chief
NMED - Hazardous Waste Bureau
2905 Rodeo Park Drive East, Building 1
Santa Fe, New Mexico 87505-6313
Email: john.kieling@state.nm.us

Bruce S. Garber
Attorney at Law
P. O. Box 0850
Santa Fe, NM 87504-0850
Email: bsg@garbhall.com

WQCC Interested Parties Notice Mailing List
(Updated 7-17-12)

Jerry Schoeppner
Chief
NMED - Groundwater Bureau
P.O. Box 5469
Santa Fe, NM 87503
Email: Jerry.Schoeppner@state.nm.us

Claudette Horn
Environmental Counsel
Public Service Company of New Mexico
414 Silver, SW
Albuquerque, NM 87158
Email: claudette.horn@pnm.com

Ned Kendrick
Attorney at Law
325 Paseo de Peralta
Santa Fe, NM 87501
Email: ekendrick@montand.com

Independent Petroleum Association of New Mexico
P.O. Box 1836
Roswell, NM 88201-7525
Email: staff@ipanm.org

Mr. Jeffrey Harris
Rubin, Winston, Dierecks, Harris & Cooke, L.L.P.
Sixth Floor
1155 Connecticut Avenue, NW
Washington, DC 20036
Email: jharris@rwdhc.com
[notify for Los Lobos LLC Application only]

Mr. Damon Seawright
Talapia Fish Farm
E-mail: mailto:dseawright@gmail.com
[notify for Los Lobos LLC Application only]

OCD District 1 Acting Manager
Email: Gonzales, Elidio L, EMNRD

OCD District 1 Environmental Inspector
Email: GeoffreyR.Leking@state.nm.us

OCD District 2 Manager
Email: Dade, Randy, EMNRD

OCD District 2 Environmental Inspector
Email: Bratcher, Mike, EMNRD

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OCD District 3 Manager
Email: Perrin, Charlie, EMNRD

OCD District 3 Environmental Inspector
Email: Jonathan.Kelly@state.nm.us

OCD District 3 Staff Manager
Email: Powell, Brandon, EMNRD

OCD District 4 Manager
Email: Martin, Ed, EMNRD

Emails:

james.lane@state.nm.us
matthew.wunder@state.nm.us
arthur.allison@state.nm.us
ddapr@nmda.nmsu.edu
jjuen@blm.gov
psisneros@nmag.gov
r@rthicksconsult.com
sric.chris@earthlink.net
nmparks@state.nm.us
scott.verhines @state.nm.us
peggy@nmbg.nmt.edu
marieg@nmoga.org
william.fetner@state.nm.us
lazarus@glorietageo.com
Winchester, Jim, NMENV
cnewman02@fs.fed.us
john.kieling@state.nm.us
bsg@garbhall.com
Jerry.Schoeppner@state.nm.us
claudette.horn@pnm.com
ekendrick@montand.com
staff@ipanm.org
Gonzales, Elidio L, EMNRD
GeoffreyR.Leking@state.nm.us
Dade, Randy, EMNRD
Bratcher, Mike, EMNRD
Perrin, Charlie, EMNRD
Jonathan.Kelly@state.nm.us
Powell, Brandon, EMNRD
Martin, Ed, EMNRD

jharris@rwdhc.com [notify for Los Lobos LLC Application only]
dseawright@gmail.com [notify for Los Lobos LLC Application only]