1R- 455

Annual GW Mon. REPORTS

DATE:

2010

PLAINS
ALL AMERICAN

March 21, 2011

Mr. Edward Hansen
New Mexico Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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Re: Plains All American – 2010 Annual Monitoring Reports
4 Sites in Lea County, New Mexico

Dear Mr. Hansen:

Plains All American is an operator of crude oil pipelines and terminal facilities in the state of New Mexico. Plains All American actively monitors certain historical release sites exhibiting groundwater impacts, consistent with assessments and work plans developed in consultation with the New Mexico Oil Conservation Division (NMOCD). In accordance with the rules and regulations of the NMOCD, Plains All American hereby submits our Annual Monitoring reports for the following sites:

Vacuum to Jal 14" Mainline #3	1R-455	Section 35, T21S, R37E, Lea County
Vacuum to Jal 14" Mainline #5	1R-0464	Section 2, T22S, R37E, Lea County
DS Hugh	1R-0463	Section 26, T21S, R37E, Lea County
Hugh Gathering	AP-0041	Section 11, T21S, R37E, Lea County

Premier Environmental Services, Inc. (Premier) prepared these documents and has vouched for their accuracy and completeness, and on behalf of Plains All American, I have personally reviewed the documents and interviewed Premier personnel in order to verify the accuracy and completeness of these documents. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Reports for the above facilities.

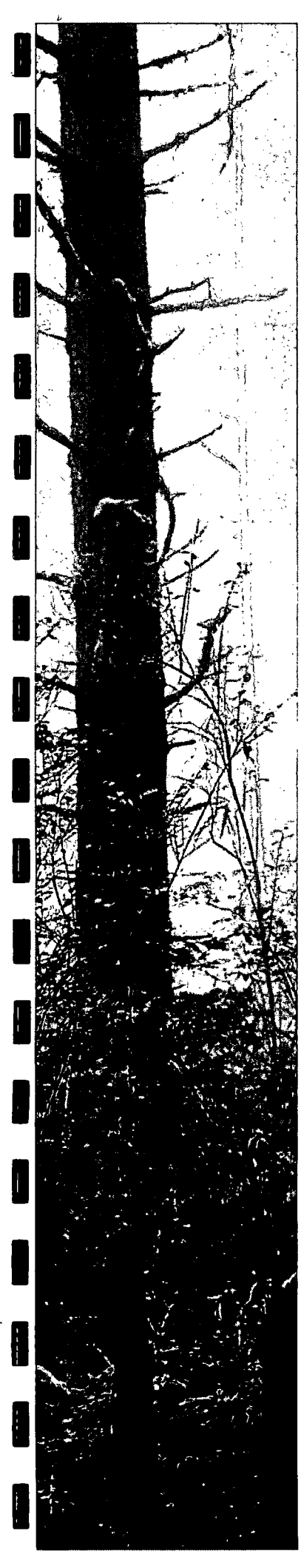
If you have any questions or require further information, please contact me at (575) 441-1099.

Sincerely,

Jason Henry
Remediation Coordinator
Plains All American

CC: Geoff Leking, NMOCD, Hobbs, NM

Enclosures



2010 ANNUAL REPORT
VACUUM TO JAL 14" MAINLINE #3
PLAINS SRS NO.: 2003-00117
UL-A, SECTION 35, T21S, R37E
Lea County, New Mexico
NMOCD No.: 1R – 455

PREPARED FOR

PLAINS PIPELINE, L.P.

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March 2011

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DISCLAIMER

Premier has examined and relied upon the file information provided by Plains and Environmental Plus, Inc. (EPI). Premier has not conducted an independent examination of the information contained in the Plains files; furthermore, we assume the genuineness of the documents reviewed and that the information provided in these documents to be true and accurate. Premier has prepared this report using the level of care and professionalism in the industry for similar projects under similar conditions. Premier will not be responsible for conditions or consequences arising from relevant facts that were concealed, withheld, or not fully disclosed at the time this report was prepared. Premier believes the conclusions stated herein are factual, but no guarantee is made or implied.

EXECUTIVE SUMMARY

On May 8, 2003, a 14-inch steel pipeline at the EOTT Energy LLC (EOTT) Vacuum to Jal 14" Mainline # 3 Site (Vac to Jal #3, Site), SRS No. 2003-00117 released approximately three barrels of crude oil into the subsurface. The pipeline is currently owned by Plains Pipeline, L.P. (Plains). The site is located in unit letter A, NE¼ of the NE¼, Section 35, Township 21S, Range 37E, or more specifically at latitude 32°26'32.67" N and longitude 103°07'36.885" W in Lea County, New Mexico (**Figure 1, Appendix A**). The release was apparently caused by internal corrosion and the pipeline was repaired (a copy of the NMOCD Release Notification Form **C-141** is included in **Appendix D**).

The irregularly-shaped spill-impacted area was approximately 566 square feet, according to Mr. Pat McCasland with Environmental Plus, Inc. (EPI). As part of the initial remediation activities, affected soil was removed and stockpiled on site in June 2003. A total of 676 cubic yards of stockpiled soil was then transported to the Lea Station Land Farm for treatment, as reported on the NMOCD Form C-138 in April 2004 by EPI.

Investigation of the hydrocarbon release in soil and groundwater continued through 2005 and details of this investigation are presented in a March 2006 *Site Investigation and Annual Report.* This report was prepared by Premier Environmental Services (Premier) on behalf of Plains, and was submitted to the New Mexico Oil Conservation Division (NMOCD).

In May 2006, a *Soil Remediation Plan* was submitted to the NMOCD to address soil contamination at the site. Objectives of this risk-based *Soil Remediation Plan* were to isolate and control chemicals of concern (COCs) in the soil and to prevent further impact to groundwater. The *Soil Remediation Plan* was approved by the NMOCD in a correspondence dated June 1, 2006 to Plains. A *Soil Closure Report*, which details the excavation, impermeable liner installation and other activities completed to meet the objectives identified in the *Soil Remediation Plan* and the specific conditions identified in the NMOCD approval letter, was submitted to the NMOCD in March 2007.

On January 19 and 20 of 2010, an investigation consisting of installing two additional recovery wells RW-4 and RW-5 and one additional monitor well MW-8 was completed at the Site. Recovery wells RW-4 and RW-5 were installed as additional points to recover the phase separated hydrocarbons (PSH). Monitor well MW-8 was installed to better delineate the dissolved phase hydrocarbon plume.

Details of the soil investigation are discussed in **Section 2.0**, and those related to groundwater in **Section 3.2** of this report.

During 2010, groundwater remediation was conducted on a weekly basis through PSH recovery while monitoring of groundwater was conducted on a quarterly basis.

Monthly gauging data of the monitor wells indicated a relatively flat groundwater gradient with no significant fluctuations during 2010. The groundwater flow, based on the gauging data collected during 2010, was trending southeast at an approximate average gradient of 0.005 feet/foot (ft/ft) across the site based on the groundwater elevations measured between monitor wells MW-4 and MW-6 during the quarterly groundwater sampling events. The groundwater gradient and flow direction across the site during 2010 were consistent with the gradient and direction observed during the previous four years.

This report summarizes the weekly groundwater gauging activities and the quarterly groundwater monitoring activities that took place during 2010.

During 2010, measurable PSH was observed in monitor well MW-1 and recovery wells RW-1, RW-2, RW-3, RW-4, and RW-5. The variations in PSH thickness and the trends are discussed further in **Section 3.4** of this report.

The dissolved phase plume was evaluated by analyzing groundwater samples collected quarterly from seven monitor wells which did not contain PSH. Throughout 2010, benzene was detected above the laboratory method detection limits (MDLs) only in monitor well MW-3 located cross gradient of the excavated soil area (**Figure 2, Appendix A**). Benzene concentrations in groundwater samples collected from monitor well MW-3 appear to be generally decreasing from the maximum concentration observed in 2008. The groundwater samples collected from the remaining six wells on site reported benzene, toluene, ethylbenzene and total xylenes (BTEX) constituent concentrations either below the NMOCD remediation criteria or below the laboratory MDLs.

During the second quarter of 2010, groundwater samples from wells with PSH or hydrocarbon sheen (monitor well MW-1 and recovery wells RW-1, RW-2, RW-3, RW-4, and RW-5) were collected and analyzed for BTEX constituents, Polynuclear aromatic hydrocarbons (PAHs) and total petroleum hydrocarbons (TPH).

Plume stability characteristics were calculated for the benzene concentration data obtained from the years 2008, 2009, and 2010, since the wells with PSH at the site were sampled annually, beginning 2008. An evaluation of the baseline benzene plume characteristics was presented in the 2009 Annual Groundwater Monitoring Report submitted in March 2010. The plume stability characteristics were updated

with the 2010 data and a basic comparison between the baseline plume characteristics and 2010 plume characteristics is included in this report. An evaluation of the plume stability characteristics indicates that there is a general stable or decreasing trend to the plume characteristics. The calculated benzene plume mass for 2010 indicated a 17 percent decrease compared to the benzene plume mass calculated for 2008 and a 33 percent decrease in the areal extent of the plume when compared to the 2008 data. However, no assertive trend analysis could be completed at this time, as only three data points (2008, 2009 and 2010) were available to complete this evaluation. Additional sampling events will be necessary to perform a statistical analysis. Further details and the findings of the plume stability study are presented in **Section 3.10, and Figures 5 through 8, Appendix B**.

The benzene concentrations reported in the groundwater samples collected from the monitor wells downgradient of the plume, MW-2 and MW-3, from 2006 to 2010 also indicate a general decrease in the benzene concentrations. These data are graphically presented in **Figures 10 and 11, Appendix B**.

During 2010, measurable PSH was observed in monitor well MW-1 and recovery wells RW-1, RW-2, RW-3, RW-4, and RW-5. In general, decreasing trends in the PSH thickness data collected for these wells have been observed.

Approximately 2,871 gallons of groundwater with dissolved phase contaminants and entrained PSH were recovered during 2010.

The decrease in dissolved phase hydrocarbon concentrations and PSH thicknesses on groundwater is thought to be related to the excavation of affected surface and shallow subsurface soil, placement of a liner to prevent migration of COC, increased fluid recovery activities via pumping, installation of absorbent socks, and also natural attenuation.

1.0 INTRODUCTION AND SITE HISTORY

Premier Environmental Services, Inc. (Premier) has been retained by Plains Pipeline, L.P. (Plains) to complete the PSH Recovery, groundwater monitoring and regulatory reporting at the Vacuum to Jal 14" Mainline #3 Site (site) (SRS No: 2003-00117). The site is located in unit letter A, NE¼ of the NE¼, Section 35 Township 21S, Range 37E, or specifically at latitude 32° 26' 32.67" N and longitude 103° 07' 36.885" W in Lea County, New Mexico (**Figure 1, Appendix A**).

A hydrocarbon leak occurred on May 8, 2003, apparently caused by internal corrosion in a pipeline. The release was below the reportable quantity and was not initially reported to the New Mexico Oil Conservation Division (NMOCD).

The release was first investigated by Environmental Plus, Inc. (EPI) on May 23, 2003, when it was discovered, the volume of crude oil released was estimated to be approximately three barrels. This information was then reported to the NMOCD through the Release Notification Form C-141 (presented in **Appendix F**). In June 2003, affected soil was excavated and stockpiled. In April 2004, 676 cubic yards of stockpiled soil was transported to the Lea Station Land Farm for treatment and was reported on Form C-138.

Premier continued to investigate the hydrocarbon impact on soil and groundwater through 2005. The results of the 2005 soil and groundwater investigations are detailed in a March 2006 *Site Investigation and Annual Report*, which was submitted to the NMOCD on behalf of Plains. During 2006, the affected area was further assessed and groundwater monitoring continued on a quarterly basis.

In May 2006, a *Soil Remediation Plan* was submitted to the NMOCD to address soil impacts at the site. Objectives of this risk-based plan were to isolate and contain COCs in the soil and to prevent further impact to groundwater. The *Soil Remediation Plan* was approved by the NMOCD in a letter to Plains dated June 1, 2006.

In October 2006, excavation of impacted soil was completed in accordance with the *Soil Remediation Plan* to satisfy soil remediation goals and meet regulatory requirements. The excavation footprint and monitor well locations are shown in **Figure 2, Appendix A**.

The base of the excavation was over-excavated to an approximate depth of 5 feet below the bottom of the pipeline, and was graded with a high central area. A 20-mil high-density polyethylene impermeable liner was placed at the base of the excavation, trimmed and then backfilled, and covered with a 6-inch-thick layer of

clean imported topsoil. The slope facing away from the center of the excavation facilitates drainage of infiltrated water away from the residual hydrocarbon impacted soils underlying the liner. Details of soil remediation activities can be found in the *December 2006 Soil Closure Report*, submitted to the NMOCD.

A quarterly groundwater monitoring program for this site has been implemented starting in 2006 and is continued to date. Quarterly sampling and laboratory analysis for benzene, toluene, ethylbenzene and total xylenes (BTEX) is conducted on wells not containing PSH at the site. At the request of NMOCD, the wells with measurable PSH or sheen are sampled annually and analyzed for BTEX, total petroleum hydrocarbons (TPH) and polynuclear aromatic hydrocarbons (PAHs). Groundwater samples of wells with PSH were collected in 2008, 2009 and 2010.

2.0 2010 SOIL ACTIVITIES

In January of 2010 two additional recovery wells were installed to provide access points for recovery of PSH and one additional monitor well to more accurately delineate the plume to the southeast.

2.1 Well Installation and Sampling

Wells were installed on January 19th through 20th, 2010 by Straub drilling with Mr. Steve Sellepack, a geologist with Premier on-site logging the soil cuttings. The wells were installed using the air rotary drilling method and cuttings were collected in five foot intervals for logging and field screening with a photo-ionization detector (PID). The soil cuttings for each five foot interval were divided and placed in two sealed plastic bags until the boring was completed. One set of the bags was placed on ice in a cooler the second set was left in the open pending field screening. After field screening, the soil sample with the highest organic vapor reading or the soil sample from above the water table was placed in the laboratory supplied glassware, in a cooler and on ice pending delivery to the laboratory. The samples were delivered to Trace Analysis, Inc. in Midland, Texas by Premier personnel for laboratory analysis. The samples were analyzed for BTEX concentrations via EPA method 8021B, and for TPH diesel range organics (DRO) and gasoline range organic (GRO) via EPA methods modified 8015B and 8015B, respectively. The results for these analyses are summarized in **Table 7, Appendix B**, and the laboratory report is included in **Appendix C**.

2.2 Geology

The lithologies present and the depths that these lithologies were encountered were similar to the previous geologic investigations conducted at the site. It appears that the first water bearing zone is contained within a silty sand to sandy clay located at approximately 40 feet below ground surface, although the exact depth and thickness of this unit appears to fluctuate across the site. This unit in the three borings emplaced was underlain by a red clay. However, when comparing this to the previous borings installed at the site this unit may be discontinuous. Boring logs are included in **Appendix D** and drillers reports are included in **Appendix E**.

2.3 Soil Sample Results

Soil samples were collected from the three soil borings based on indicators such as field measurements for organic vapor content or visual evidence of contamination. Upon the absence of both of these indicators, one sample was collected from the

interval that corresponded to the vadose zone immediately above the water table. Both recovery wells RW-4 and RW-5 displayed elevated field measurements for organic vapor concentrations only in the soil cuttings or discrete sample from the interval corresponding to the vadose zone immediately above the water table. As such, only one soil sample per recovery well (RW-4 and RW-5) was collected corresponding to the interval above the water table. These soil samples were collected at a depth below ground surface (bgs) of 43 to 44 feet bgs from a discrete sample taken from the soil boring for recovery well RW-5 (PRW-5-43-44) and from soil cuttings corresponding to the interval of 45 to 50 feet bgs from the soil boring for recovery well RW-4 (PRW-4-45-50). No evidence of hydrocarbon contamination was observed in the soil cuttings during the drilling of monitor well MW-8. Therefore, one discrete soil sample was collected at 45 feet bgs which corresponded to the depth just above the water table as observed in the soil cuttings (MW-8-45).

The analytical results for soil sample PRW-5-43-44 reported TPH results in the DRO and GRO ranges as 1,410 mg/Kg and 1,630 mg/Kg respectively (**Table 7, Appendix B**). A copy of the laboratory analytical data package is included in **Appendix C**. Benzene, toluene, ethylbenzene and total xylenes were detected at concentrations of 2.23 mg/Kg, 14 mg/Kg, 18.9 mg/Kg, and 46.4 mg/Kg, respectively.

The analytical results for soil sample PRW-4-45-50 reported a TPH concentration in the GRO range as 21 mg/Kg, ethylbenzene at a concentration of 0.0529 mg/Kg, and total xylenes at a concentration of 0.0826 mg/Kg. As noted above, this sample was collected from drill cuttings from air rotary drilling and as such reported concentration may be lower than actual concentrations in the light end hydrocarbon fraction.

Soil sample MW-8-45 was collected from a discrete sample taken from the vadose zone immediately above the water table. No COCs were detected above laboratory method detection limits (MDLs) in this sample.

3.0 2010 GROUNDWATER ACTIVITIES

A groundwater monitoring program for this site has been implemented starting 2006 and continues into 2010.

3.1 Site Cleanup Goals (Groundwater)

Based on standards outlined in New Mexico Administrative Code (NMAC), Title 20, Chapter 6, Part 2, the remediation criteria for groundwater at the site are as follows:

Benzene	0.01 mg/L
Toluene,	0.75 mg/L
Ethylbenzene	0.75 mg/L
Total xylenes	0.62 mg/L
PAHs[1, 2]	0.03 mg/L
Benzo-a-pyrene[2]	0.0007 mg/L

1 – PAHs: Total naphthalenes plus monomethylnaphthalenes
2 – PAH remediation standards will be used as target concentrations only upon PSH removal.

In addition to using the above values as the target cleanup goals for chemicals of concern (COC) concentrations in groundwater at the site, PSH removal is also an integral part of on-going remediation activities.

3.2 2010 Groundwater Investigation Results

The new wells installed during the January 2010 Investigation were sampled on January 27, 2010 and analyzed for the NMOCD initial list of parameters for a new well. Specifically groundwater samples collected from wells RW-4, RW-5, and MW-8 were analyzed for select metals, alkalinity and inorganic ions, (considered general chemistry parameters), semi-volatile organic compounds (SVOC), volatile organic compounds (VOC) and polynuclear aromatic hydrocarbons (PAH). The analytical results are summarized in **Table 8, Appendix B**). A copy of the laboratory analytical data package is included in **Appendix C.** The analytical results for general chemistry show iron and chloride concentrations in groundwater samples from monitor wells RW-4, RW-5, and MW-8, exceed their respective New Mexico Water Quality Control Commissions (NMWQCC) Human Health Standards for groundwater referred to in this report as New Mexico water quality standards (NMWQS). Aluminum concentrations exceeded NMWQS in the groundwater samples from monitor wells RW-4 and MW-8. For SVOC, ten parameters were

detected above the laboratory MDLs from which only phenol was detected above the NMWQS in the groundwater sample collected from recovery well RW-5. Analysis for PAH compounds showed seven parameters detected above the MDLs from which only 1-methylnaphthalene was reported above the NMWQS in the groundwater sample collected from recovery well RW-4. Analysis for volatile compounds detected 15 compounds above the MDLs. Benzene, toluene and m,p-xylene concentrations in recovery well RW-4 and benzene in recovery well RW-5 exceeded their respective NMWQS. Due to matrix interference, nine VOC compounds were reported non-detect that have MDLs above their respective NMWQS.

3.3 2010 Groundwater Sampling Activities

Groundwater at the site was evaluated throughout 2010 by conducting weekly gauging of one monitor well and five recovery wells; and quarterly groundwater sampling and analysis of monitor wells MW-2 through MW-8. Routine quarterly groundwater samples collected from seven monitor wells (MW-2 to MW-8) were analyzed for BTEX constituents. Five recovery wells RW-1, RW-2, RW-3, RW-4 and RW-5 and one monitor well MW-1 contained a measurable PSH thickness or hydrocarbon sheen during 2010. Starting in the second quarter of 2008, all recovery wells and monitor well(s) with PSH or sheen were required to be sampled annually and groundwater samples analyzed for BTEX, PAH and TPH constituents. Groundwater samples were collected from these wells containing PSH and submitted for laboratory analysis during the second quarter of 2010 sampling event.

During each quarterly groundwater sampling event, prior to purging the wells, depth to PSH and water level measurements were collected from each well using an electric oil/water interface probe. The oil/water interface probe was decontaminated before use in each well to prevent cross-contamination. Prior to collecting groundwater samples from each well, approximately three well volumes of water were purged from each well using dedicated poly vinyl chloride bailers. After purging was completed, groundwater samples were collected using dedicated disposable bailers. All groundwater samples were collected directly into laboratory-provided containers and placed in a cooler on ice and shipped under Chain of Custody. First quarter 2010 samples were shipped to Trace Analysis, Inc. in Lubbock, Texas for chemical analysis. Groundwater samples collected during the remaining three quarters of 2010 were sent to ALS Laboratories in Houston, Texas for chemical analysis. All purged water was placed into the onsite storage tank used to hold the fluids associated with PSH recovery activities.

The following sections present a brief discussion of the PSH thickness trends and the analytical results reported for each quarter.

3.4 2010 Groundwater Gauging activities

Groundwater gauging and PSH recovery activities were completed on a weekly basis using submersible pumps, hand bailer and/or absorbent socks. Fluids recovered were initially stored in 55-gallon drums and later placed into a 1000-gallon storage tank. **Table 1, Appendix B** presents the groundwater gauging data for 2010 and **Table 2** (provided on CD) presents all the groundwater elevation data available historically.

During 2010, a measurable thickness of PSH was observed in monitor well MW-1 and recovery wells RW-1, RW-2, RW-3, RW-4, and RW-5.

A general decreasing trend in the PSH thickness in monitor well MW-1 was observed starting early 2008. A thin PSH thickness was observed through most of 2010 and during the last quarter with PSH thickness ranging between 0.01 ft and 0.06 ft.

The PSH thickness observed in recovery well RW-1 indicated an increase during the third and fourth quarters of 2008, however, a general decreasing trend was observed beginning 2009 and continued through 2010. The average monthly PSH thickness decreased from 0.56 ft during the month of January 2010, to less than 0.01 ft by December 2010.

PSH thicknesses in recovery well RW-2 increased from a hydrocarbon sheen to a measurable thickness which was first observed in October 2008. A measurable PSH thickness was observed in recovery well RW-2 until June 2009 with a maximum thickness of 1.37 ft observed during the month of April 2009. Currently, a general decreasing trend is observed in the PSH thickness data. The monthly average PSH thickness remained below approximately 0.1 ft throughout 2010.

The average PSH thickness in recovery well RW-3 decreased from 0.05 ft during the month of January 2010 to 0.01 ft during December 2010.

Recovery well RW-4, drilled in January 2010, contained an initial PSH thickness of 0.6 ft in early February 2010. PSH thickness decreased to less then 0.1 ft towards the end of February and remained very light sheen consistently throughout the remainder of 2010.

The PSH thickness in recovery well RW-5 (also drilled in January) ranged from non-measurable to 0.39 ft in 2010. In December, the average PSH thickness observed was 0.1 ft.

3.5 1st Quarter 2010 – Groundwater Gauging and Monitoring Activities

On February 9, 2010, Premier conducted the first quarter of 2010 groundwater sampling event at the site.

During the February 9, 2010 event, groundwater samples were collected from monitor wells MW-2 through MW-8 and analyzed for BTEX constituents using the United States Environmental Protection Agency (USEPA) Method 8021B. Groundwater samples were not collected from monitor well MW-1 and recovery wells RW-1, RW-2, RW-3, RW-4, and RW-5 during the February 2010 sampling event, due to the presence of PSH.

Analytical results reported for the groundwater samples collected at the site on February 9, 2010 displayed BTEX constituent concentrations below the NMOCD remedial guidelines (**Table 3, Appendix B**) for all sampled monitor wells. Reported concentrations of ethylbenzene and total xylenes in the groundwater samples collected from monitor wells MW-3 and MW-5 were above the laboratory MDLs, but below the NMOCD remediation criteria. Ethylbenzene concentrations were also reported above the laboratory MDLs in the groundwater sample collected from monitor well MW-2, but were below the NMOCD remediation criteria. Remaining BTEX constituent concentrations reported for the groundwater samples collected from MW-2, MW-3 and MW-5 were below the laboratory MDLs. BTEX constituents concentrations reported for the groundwater samples collected from the remaining wells were all below the laboratory MDLs (see **Table 3 in Appendix B and Figure 4-A in Appendix A**). A copy of the laboratory analytical data package is included in **Appendix C**.

The water level data collected on February 9, 2010 indicates a groundwater flow towards east-southeast across the site with an approximate gradient of 0.005 feet/foot between monitor wells MW-4 and MW-6 (see **Figure 3-A in Appendix A**). This groundwater flow direction places monitor well MW-2 and MW-8 down gradient from the source area.

In addition to collecting groundwater samples during the first quarter of 2010, Premier performed weekly visits to the site to gauge and recover PSH from the six wells with PSH/sheen (wells MW-1, RW-1, RW-2, RW-3, RW-4 and RW-5). During each site visit, the wells were gauged for PSH and water level measurements to recover measurable PSH (see **Table 1 in Appendix B**). Intermittently, absorbent socks were used for PSH recovery. Routine PSH recovery activities typically consisted of the removal of less than 1 gallon of PSH and 10 to 20 gallons of groundwater with possible dissolved phase hydrocarbons each well.

During the first quarter of 2010, a total of approximately 707 gallons of groundwater with dissolved phase hydrocarbons were recovered from all six wells with PSH. The individual well gauging data and the recovery volumes during each weekly site visit for 2010 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from all the wells is presented in **Table 6, Appendix B**.

3.6 2nd Quarter 2010 – Groundwater Gauging and Monitoring Activities

The second quarter of 2010 groundwater sampling activities were conducted on May 12, 2010. This included the collection of groundwater samples from all of the monitor and recovery wells at the site, specifically monitor wells MW-2 through MW-8 for the analysis of BTEX and monitor well MW-1 and recovery wells RW-1 through RW-5 for BTEX, TPH and PAHs.

The analytical results reported for groundwater samples collected during the May 2010 sampling event indicated that the only benzene concentration above the NMOCD remediation criteria of 0.01 mg/L was detected in the groundwater sample collected from monitor well MW-3 (0.0170 mg/L) (**Table 3, Appendix B**). Benzene was not detected in the groundwater samples collected from other monitor wells. Concentrations of ethylbenzene and total xylenes above the laboratory MDLs, but below the NMOCD remediation criteria were reported in the groundwater sample collected from monitor well MW-3. Ethylbenzene concentrations were reported above the laboratory MDLs in the groundwater samples collected from monitor wells MW-2 and MW-5, however, they were both below NMOCD remediation criteria (see **Figure 4-B, Appendix A**). Remaining BTEX constituent concentrations reported for the groundwater samples collected from MW-2, MW-3 and MW-5 were below the laboratory MDLs.

In 2008, 2009 and 2010, NMOCD required Plains to analyze for BTEX, TPH and PAH constituents in the dissolved phase groundwater in wells with hydrocarbon sheen. To meet this requirement, groundwater samples were also collected from monitor well MW-1, and recovery wells RW-1, RW-2, RW-3, RW-4 and RW-5, during the second quarter of 2010 and were analyzed for BTEX, TPH and PAH constituents (see **Tables 4 and 5, Appendix B** for the analytical data).

During this sampling event, fluids (PSH and dissolved phase hydrocarbons) from the wells RW-1, RW-2, RW-3, RW-4 and RW-5 were recovered prior to purging the well to collect the groundwater samples. The analytical results indicated the presence of benzene concentrations above the NMOCD remediation criteria of 0.01 mg/L in all of these wells (monitor well MW-1, and recovery wells RW-1, RW-2, RW-3, RW-4 and RW-5). Toluene concentrations were detected above the

NMOCD remediation criteria in groundwater samples from recovery wells RW-1 and RW-4 and total xylenes concentrations were detected above the NMOCD remediation criteria in groundwater samples from wells MW-1, RW-1 and RW-4. Toluene, ethylbenzene and total xylenes concentrations were reported to be below their respective NMOCD remediation criteria of 0.75 mg/L, 0.75 mg/L and 0.62 mg/L.

Groundwater samples from monitor well MW-1 and recovery wells RW-1 through RW-5 were also analyzed for TPH and PAH constituents during this sampling event. The PAH analyses of the dissolved phase hydrocarbons in samples from wells with PSH or hydrocarbon sheen was evaluated for screening purposes only. PAH concentrations will be evaluated from a compliance standpoint only after the permanent removal of PSH and when BTEX constituent concentrations in the dissolved phase plume indicate a stable or reducing dissolved phase hydrocarbon plume.

As part of the evaluation process, PAH constituents detected (associated with crude oil) are evaluated against the New Mexico WQCC groundwater standards for PAHs. The PAH constituent, naphthalene and total methylnaphthalenes were detected in the groundwater sample collected from monitor well MW-1 and recovery wells RW-1 through RW-4 at concentrations above the New Mexico WQCC Standards for PAHs, of 0.03 mg/L (see **Table 5, Appendix B**).

The other PAH constituents detected such as acenaphthylene, acenaphthene fluorene, phenanthrene, anthracene, chrysene and dibenzofuran, were all at concentrations below the New Mexico Environmental Department (NMED), Tap Water Soil screening levels for residential scenarios.

The groundwater samples from the wells with PSH/hydrocarbon sheen were also analyzed for three individual TPH carbon fraction ranges, specifically C_6-C_{10}, C_{10}-C_{28} and C_{28}-C_{30}. The TPH individual carbon fraction concentrations were reported above the MDLs in all of the groundwater samples collected from the wells MW-1, RW-1 through RW-5 with the exception of wells RW-3 and RW-5 for the TPH carbon fraction ranges C_{28}-C_{30}.

PSH gauging and purging activities were conducted at the site on a weekly basis during the second quarter of 2010 (**Table 1 in Appendix B**). The depth to water level measurements collected from all wells at the site during the May 2010 sampling event were used to construct the groundwater gradient map included as **Figure 3-B, Appendix A**. The water level data collected during the May, 2010, sampling event presented in **Table 1, Appendix B**, indicates a east-southeast

groundwater flow across the site with an approximate gradient of 0.004 feet/foot as measured between monitor wells MW-4 and MW-6.

During the second quarter of 2010, approximately 832 gallons of groundwater most likely containing dissolved phase hydrocarbons were recovered from all of the six wells on site. The individual well gauging data and the recovery volumes during each weekly site visit for 2010 are presented in **Table 1, Appendix B**. A summary of the total fluids recovered each month from all of the wells is presented in **Table 6, Appendix B**.

3.7 3rd Quarter 2010 – Groundwater Gauging and Monitoring Activities

The third quarter of 2010 groundwater sampling activities were conducted on August 26, 2010 and included the collection of groundwater samples from monitor wells MW-2 through MW-8.

Analytical results reported for groundwater samples collected during the August 2010 sampling event indicate that the benzene concentration in the groundwater sample collected from monitor well MW-3 was 0.0084 mg/L, which is below the NMOCD remediation criteria of 0.01 mg/L (**Table 3, Appendix B**). Ethylbenzene concentrations were also reported above the laboratory MDLs in the groundwater sample collected from monitor wells MW-2 and MW-3. A concentration of total xylenes was detected above the MDL only in the groundwater sample from monitor well MW-3. All of these reported concentrations were below their respective NMOCD remediation criteria. Remaining BTEX constituent concentrations reported for the groundwater samples collected from MW-2, and MW-3 were below the laboratory MDLs.

Reported BTEX concentrations in all remaining groundwater samples collected from monitor wells MW-4 through MW-8 were below the laboratory MDLs (see **Figure 4-C in Appendix A**).

Due to the presence of PSH in monitor well MW-1, and recovery wells RW-1 through RW-5, groundwater samples were not collected from these wells during this groundwater sampling event.

The depth to water level measurements collected from all the wells at the site during the August 2010 groundwater sampling event were used to construct the groundwater gradient map included as **Figure 3-C, Appendix A**. The water level data collected on August 20, 2010 indicates an east-southeast groundwater flow across the site with an approximate gradient of 0.0048 feet/foot as measured

between monitor wells MW-4 and MW-6. PSH gauging and recovery activities continued at the site on a weekly basis during the third quarter of 2010.

During the third quarter of 2010, approximately 709 gallons of groundwater with dissolved phase hydrocarbons were recovered from all of the six wells on site. The individual well gauging data and the recovery volumes during each weekly site visit for 2010 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from all of the wells is presented in **Table 6, Appendix B**.

3.8 4th Quarter 2010 – Groundwater Gauging and Monitoring Activities

The fourth quarter of 2010 groundwater sampling activities were conducted on November 18, 2010 and included the collection of groundwater samples from monitor wells MW-2 through MW-8.

Analytical results for groundwater samples collected during the November 2010 sampling event indicate that benzene concentrations reported in the groundwater sample collected from monitor well MW-3 was at concentration of 0.0030 mg/L, which is below the NMOCD remediation criteria of 0.01 mg/L (**Table 3, Appendix B**). Ethylbenzene was also reported at concentrations above the laboratory MDLs in the groundwater sample collected from monitor wells MW-2 and MW-3. A concentration of total xylenes was detected above the MDLs only in the groundwater sample collected from monitor well MW-3. Remaining BTEX constituent concentrations reported for the groundwater samples collected from MW-2, and MW-3 were below the laboratory MDLs.

BTEX constituent concentrations were reported below the laboratory MDLs for the groundwater samples collected from wells MW-4 through MW-8 (**Table 3, Appendix B**).

Due to the presence of PSH in wells MW-1, RW-1, RW-2, RW-3, RW-4, and RW-5, groundwater samples were not collected from these wells during this sampling event (see **Figure 4-D in Appendix A**).

The depth to water level measurements collected from all wells at the site during the November 2010 sampling event were used to construct the groundwater gradient map included in **Figure 3-D, Appendix A**. The water level data collected on November 18, 2010 indicates an east-southeast groundwater flow across the site with an approximate gradient of 0.005 feet/foot as measured between monitor wells MW-4 and MW-6.

During the fourth quarter of 2010, approximately 623 gallons of groundwater with dissolved phase hydrocarbons were recovered from all of the six wells on site. The

individual well gauging data and the recovery volumes during each weekly site visit for 2010 are summarized in **Table 1, Appendix B**. A summary of the total fluids recovered each month from all of the wells is presented in **Table 6, Appendix B**.

3.9 PSH Recovered

PSH gauging and removal activities continued at the site in 2010 on a weekly basis. Recovery methods included using electric pumps, hand bailers and absorbent socks to remove PSH observed in wells MW-1, RW-1, RW-2, RW-3, RW-4, and RW-5. During 2010, an increased total fluid volume of groundwater most likely containing dissolved phase hydrocarbons were recovered. A 1,000-gallon tank was placed on site to store the recovered fluids. The tank was located in a lined and bermed secondary contained area. Based on 2010 PSH gauging and recovery data, summarized in **Table 1** in **Appendix B**, approximately 2,871 gallons of groundwater most likely containing dissolved phase hydrocarbons and entrained PSH were recovered from the six wells with PSH and/or hydrocarbon sheen on site. PSH volumes recovered through absorbent socks could not be quantified. The 1000 gallon tank onsite used for storage of the recovered fluids was emptied during the months of February, May and August 2010. The volume of PSH recovered on a monthly basis is presented in **Table 6 of Appendix B**.

3.10 Plume Stability and Trend Analysis

Understanding plume stability is an important step in the remedial planning process for a site. For instance, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not pose an imminent threat to human health and the environment. An introduction to plume stability analysis and the basis for the plume evaluation at the site was presented in the 2009 Annual report.

This analysis was conducted in order to understand the overall stability of the benzene plume during 2008, 2009 and 2010, in terms of its characteristics which consist of the plume area, average concentration, mass, and center of mass.

The plume stability analysis completed for the site to date include the development of benzene concentration isopleths maps for the years 2008, 2009 and 2010. In the development of benzene concentration isopleths maps, an average of the benzene concentrations reported in the four quarterly groundwater sampling events was used for all the wells with no PSH, specifically monitor wells MW-2 through MW-8. Since the wells with PSH were sampled only during the second quarter groundwater sampling events during 2008, 2009 and 2010, the benzene concentrations reported during this sampling event were used in plume evaluation. The plume

characteristics such as plume area, plume average concentration, plume mass, and plume centers of mass were calculated for each of the three benzene plumes using numerical methods and engineering principles.

Plume mass, plume area and average benzene concentration data for 2008 through 2010 are graphically presented and summarized in **Figure 5, Appendix B.** The plume centers of mass for the three years are presented in **Figure 6, Appendix B.** A slight shift in the plume center of mass in the down gradient groundwater flow direction was observed from 2008 to 2010. The benzene isopleths maps for 2008. 2009 and 2010 are presented in **Figures 7, 8 and 9, Appendix B**, respectively.

The current area affected by the benzene plume, in the case of evaluation of groundwater data from wells with PSH, in 2010 quarterly groundwater sampling events is approximately 20 percent less than that of 2008 and approximately 9 percent less than 2009. The total mass of the benzene plume in 2010 is approximately 61 lbs less than the total mass computed in 2008 which is more than a 16 percent reduction during the two year period. **Table 2.1** below provides a summary of plume characteristics. The center of mass of the plume presented in **Figure 6, Appendix B** displays a slight shift of approximately 7 feet to the east-southeast.

Table 2.1 Summary of Plume Stability Characteristics

Date	Area (Acres)	Average Conc. (µg/l)	Mass (lbs)
2008	0.31	815	363
2009	0.27	677	267
2010	0.25	845	302

The analytical data collected for the site (**Table 3, Appendix B**) used for plume stability analysis, indicates that the benzene plume emanating from the site is decreasing in size and the concentration of benzene is stable. The benzene concentrations reported during the quarterly groundwater sampling events from the downgradient wells, monitor well MW-2 and cross-gradient well MW-3 were also evaluated individually. Benzene concentrations reported in the groundwater samples collected from monitor well MW-2 were below the NMOCD remediation criteria during the fourth quarter of 2009 and further decreased to below the laboratory MDLs in the first quarter 2010 and remained below the laboratory MDLs throughout 2010. Reported benzene concentrations in the groundwater samples collected from monitor well MW-3 were below the NMOCD remediation criteria throughout 2010 except the second quarter 2010 sampling event. **Figures 10 and**

11, Appendix B present the graphs of benzene concentration over time along with the NMOCD remediation criteria in monitor wells MW-2 and MW-3, respectively. The graphs indicate a decreasing trend in the benzene concentrations in both the monitor wells.

The plume characteristic data, specifically the plume area calculated, indicate that the plume is decreasing in size. The plume area and mass display a decrease from 2008 to 2010. The average plume concentration calculated has indicated a slight increase of 0.029 mg/L when compared to the average plume concentration calculated in 2008 (approximately 4 percent higher then the concentration calculated in 2008). When compared to the 2008 plume center of mass, the 2010 plume center of mass has shifted slightly to the east-southeast. The slight increase in the average plume concentration and the movement of the plume center of mass could be attributable to the variation in the benzene concentration reported from the wells with PSH. Therefore, the increase in the plume average concentration or movement of plume center of mass is not considered a deviation from the general decreasing or stable trend.

Due to the PSH recovery activities conducted at the site, PSH thicknesses appear to be decreasing. This is also indicated by the decrease in the plume mass computed in 2010 when compared to 2008 indicating that there is an overall decrease in the mass of contaminants in the groundwater at the site.

4.0 CONCLUSIONS

During 2010, groundwater monitoring was conducted on a quarterly basis and PSH recovery was continued through manual bailing, use of electric pumps, and with absorbent socks.

Measurable PSH and/or hydrocarbon sheens were observed in recovery wells RW-1 through RW-5, and monitor well MW-1 during 2010. Approximately 2,871 gallons of dissolved phase hydrocarbons with entrained PSH were recovered from the six wells with PSH and/or hydrocarbon sheen on site.

Benzene concentrations were reported to be detected above the NMOCD remediation criteria of 0.01 mg/L in only one groundwater sample collected from wells without PSH (MW-2 through MW-8). This sample was collected from monitor well MW-3 during the second quarter of 2010 with a reported benzene concentration of 0.0170 mg/L. The analytical results reported for samples from monitor well MW-3 indicated a decreasing benzene concentration trend over the last two quarterly groundwater monitoring events.

BTEX constituent concentrations reported in groundwater samples collected from monitor wells MW-2, and MW-4 through MW-8 were below the NMOCD remediation criteria.

As anticipated, benzene concentrations reported in the groundwater samples collected from wells with PSH or hydrocarbons sheen, namely monitor well MW-1 and recovery wells RW-1 through RW-5, during the second quarter of 2010 were above the NMOCD remediation criteria.

Plume stability analysis was conducted to establish baseline benzene plume characteristics using the 2008, 2009 and 2010 benzene concentration data. Evaluation of the plume characteristics computed for 2010 indicated a decreasing plume area, and plume mass and a slight increase in the average plume benzene concentration. The increase in the plume average benzene concentration could be attributed to the high variability of benzene concentration data in wells containing PSH. However, no assertive trend analysis could be completed at this time as there are only three sampling events that include sampling data from all the wells at the site (with the exception of wells RW-4, RW-5 and MW-8 which were installed in 2009). Additional sampling events will be necessary to establish trends.

During 2010, measurable PSH thicknesses in monitor well MW-1 and recovery wells RW-1 through RW-5, have been observed to be decreasing.

The reduction in PSH thickness and the decrease in dissolved phase hydrocarbon concentrations is thought to be attributable to the removal of affected soils in the surface and shallow subsurface soil, placement of a liner in October 2006, continued weekly removal of dissolved phase hydrocarbons with entrained PSH via manual bailing and natural attenuation.

5.0 2011 PROPOSED ACTIVITIES

Premier proposes to continue weekly PSH recovery operations through removal of total fluids using manual bailers, electric pumps, and absorbent socks in wells with PSH as necessary, with monthly gauging and quarterly groundwater sampling to monitor hydrocarbons in groundwater. Based on a lack of detections of BTEX constituent concentrations in the groundwater samples collected from monitor wells MW-4, MW-5, MW-6 and MW-7 in the last 4 years, annual sampling of these wells is proposed. Quarterly sampling of wells MW-2, MW-3 and MW-8 will be continued and wells with PSH or sheen (MW-1, RW-1, RW-2, RW-3, RW-4, and RW-5) will be sampled annually.

Plume stability analysis and data evaluation will be completed for the quarterly data obtained during the 2011 sampling events. A statistical trend analysis will also be performed using Mann-Kendall Test and regression analysis on the calculated plume characteristics to assess the benzene plume stability. A summary of the updated plume stability study will be presented in the 2011 Annual Report.

DISTRIBUTION

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APPENDIX A

Figures

Figure 1 – Site Location Map

Figure 2 – Site Map with Monitor and Recovery Wells

Figure 3-A – 1st Quarter 2010 - Groundwater Gradient Map

Figure 3-B – 2nd Quarter 2010 - Groundwater Gradient Map

Figure 3-C – 3rd Quarter 2010 - Groundwater Gradient Map

Figure 3-D – 4th Quarter 2010 - Groundwater Gradient Map

Figure 4-A – 1st Quarter 2010 - BTEX Concentration Map

Figure 4-B – 2nd Quarter 2010 - BTEX Concentration Map

Figure 4-C – 3rd Quarter 2010 - BTEX Concentration Map

Figure 4-D – 4th Quarter 2010 - BTEX Concentration Map

Figure 5 – Plume Stability Analysis Summary

Figure 6 – Plume Center of Mass 2008, 2009 and 2010

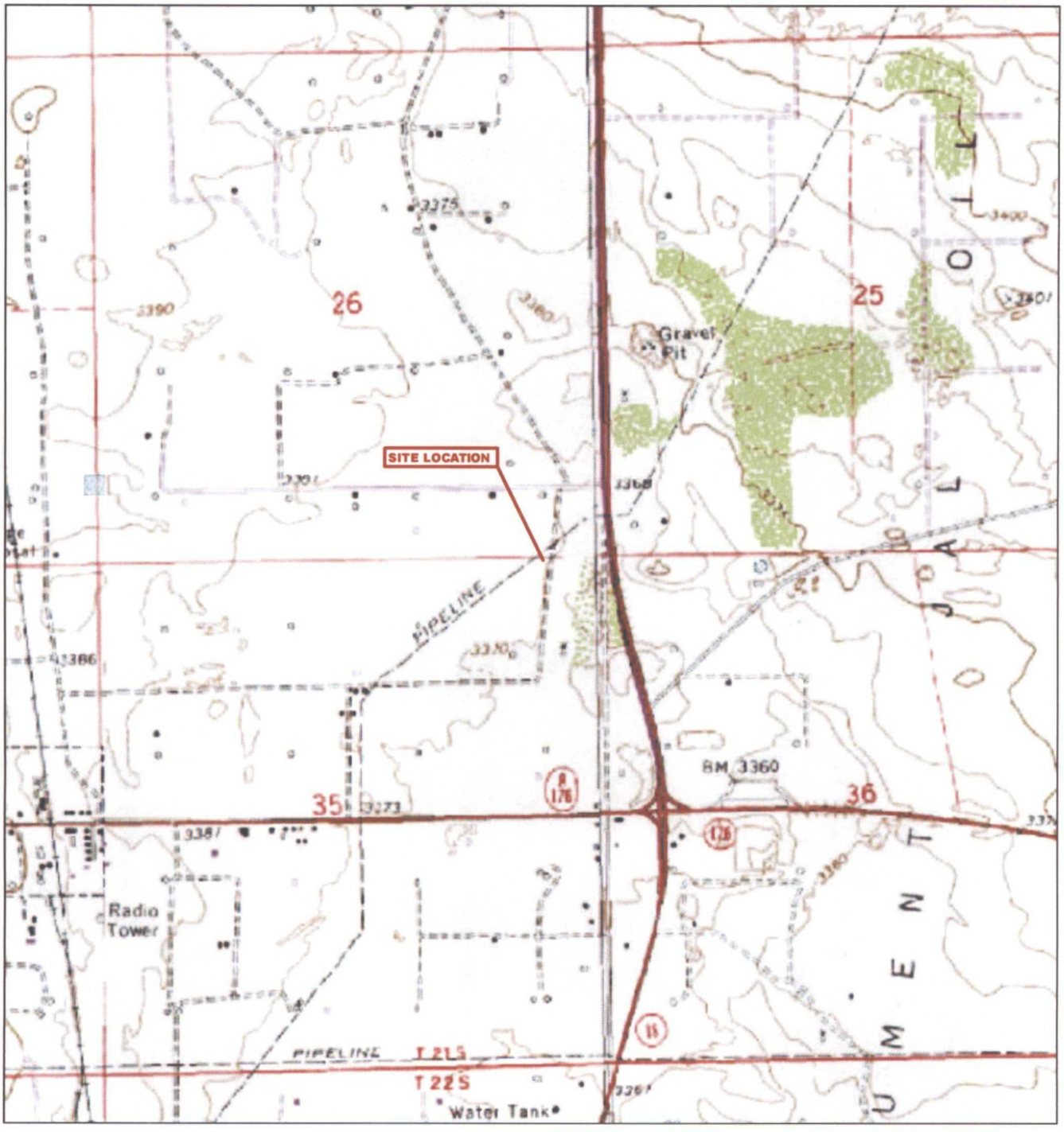
Figure 7 – 2008 Benzene Isopleth Map

Figure 8 – 2009 Benzene Isopleth Map

Figure 9 – 2010 Benzene Isopleth Map

Figure 10 – Benzene Concentration Trend in Monitor Well MW-2

Figure 11 – Benzene Concentration Trend in Monitor Well MW-3



Eunice Quadrangle
32°26'32.75"N Latitude & 103°07'37.81"W Longitude

1/2 1/4 0 1/4 1/2
Distance in Miles

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Figure 1
Site Location Map
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK:	DATE: 03/11

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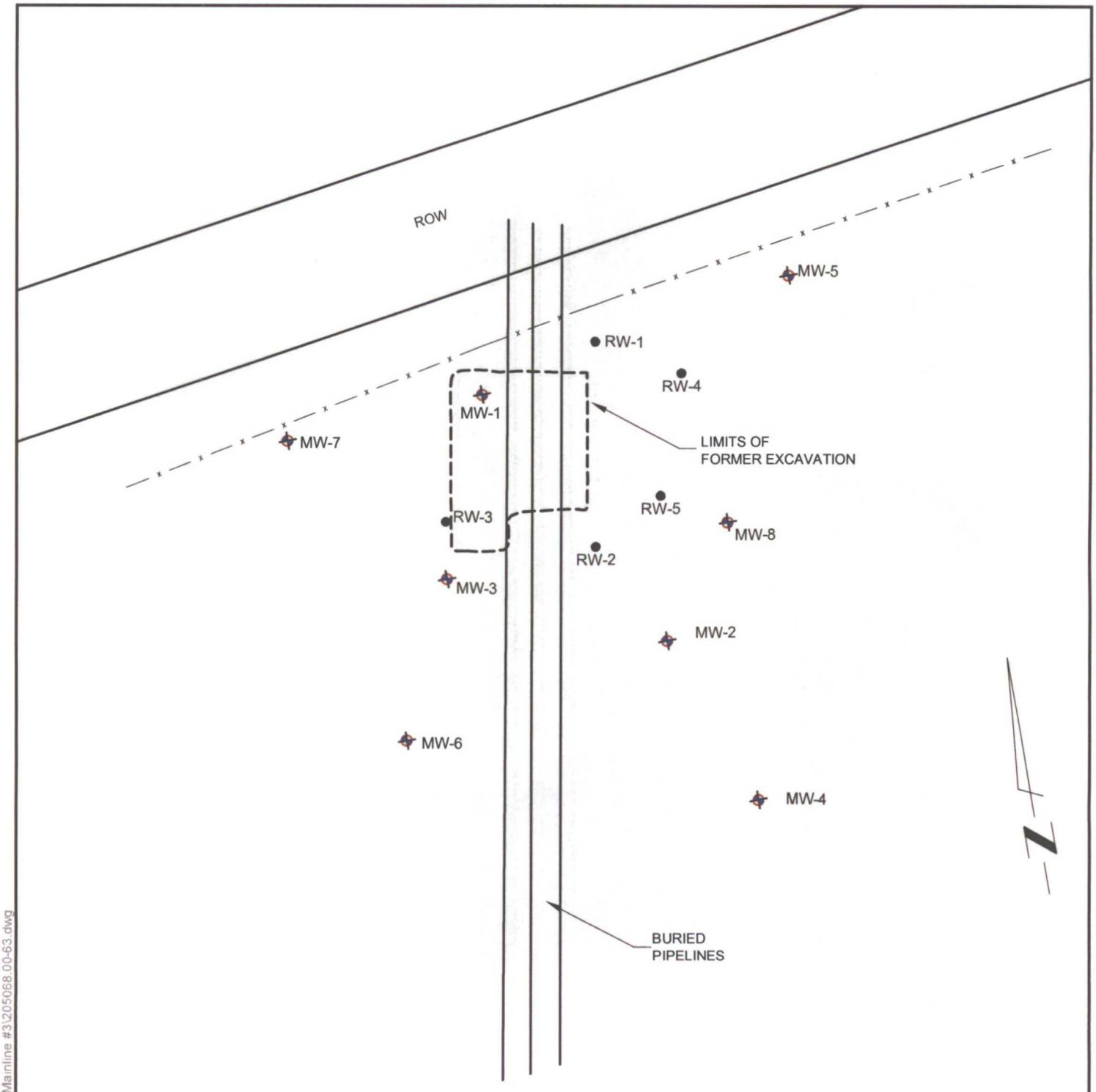

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

0 50

FEET

APPROXIMATE SCALE

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Figure 2
Site Map with Monitor and Recovery Wells
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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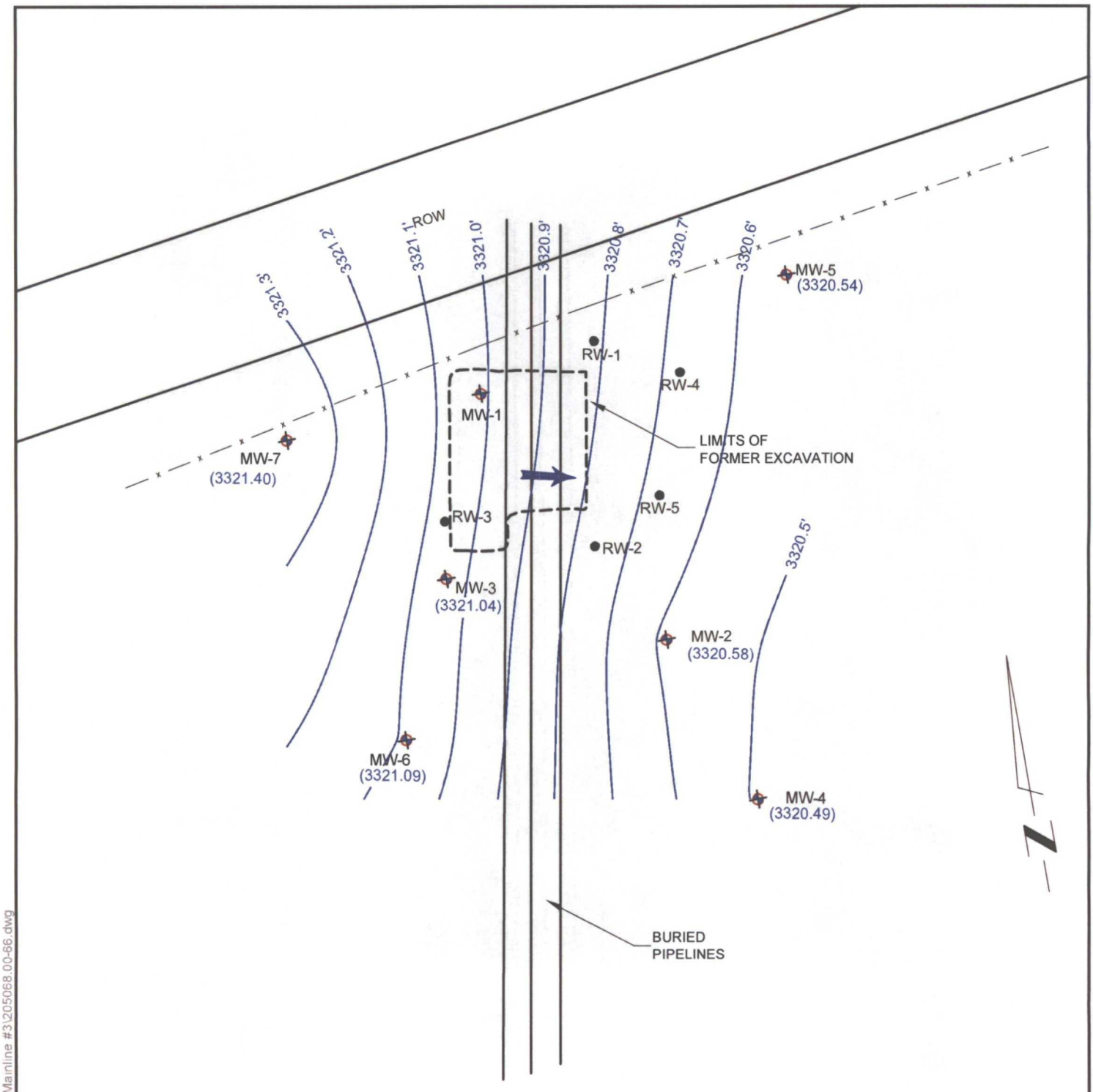

LEGEND:

- ● RW-1 -RECOVERY WELL LOCATION
- ⊕ MW-1 -MONITOR WELL LOCATION
- (3121.11) - Corrected Ground Water Elevation, ft.
- −3321.00− - Ground Water Elevation Contour, ft. Contour Interval=0.1 ft.
- ➡ - Apparent Ground Water Flow Direction

Note: MW-1, MW-8, & Rw-1 through RW-5 are not used to prepare the contours.

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APPROXIMATE SCALE

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ENVIRONMENTAL SERVICES, INC.

Figure 3A
1st Quarter 2010 - Groundwater Gradient Map
February 9, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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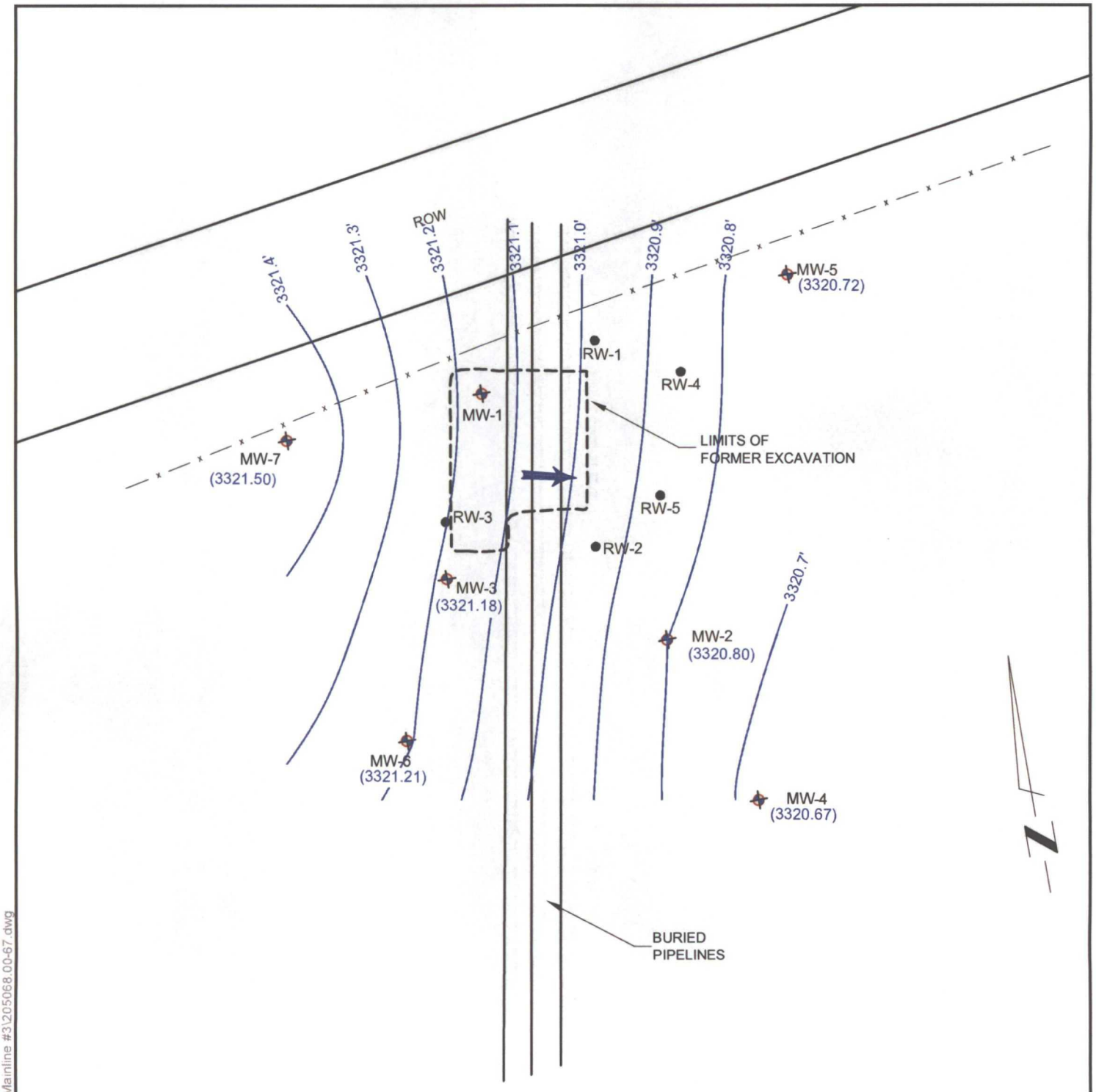

LEGEND:

- ● RW-1 -RECOVERY WELL LOCATION
- ⊕ MW-1 -MONITOR WELL LOCATION
- (3121.11) - Corrected Ground Water Elevation, ft.
- –3321.00– - Ground Water Elevation Contour, ft. Contour Interval=0.1 ft.
- → - Apparent Ground Water Flow Direction

Note: MW-1, MW-8, & Rw-1 through RW-5 are not used to prepare the contours.

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FEET
APPROXIMATE SCALE

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Figure 3B
2nd Quarter 2010 - Groundwater Gradient Map
May 11, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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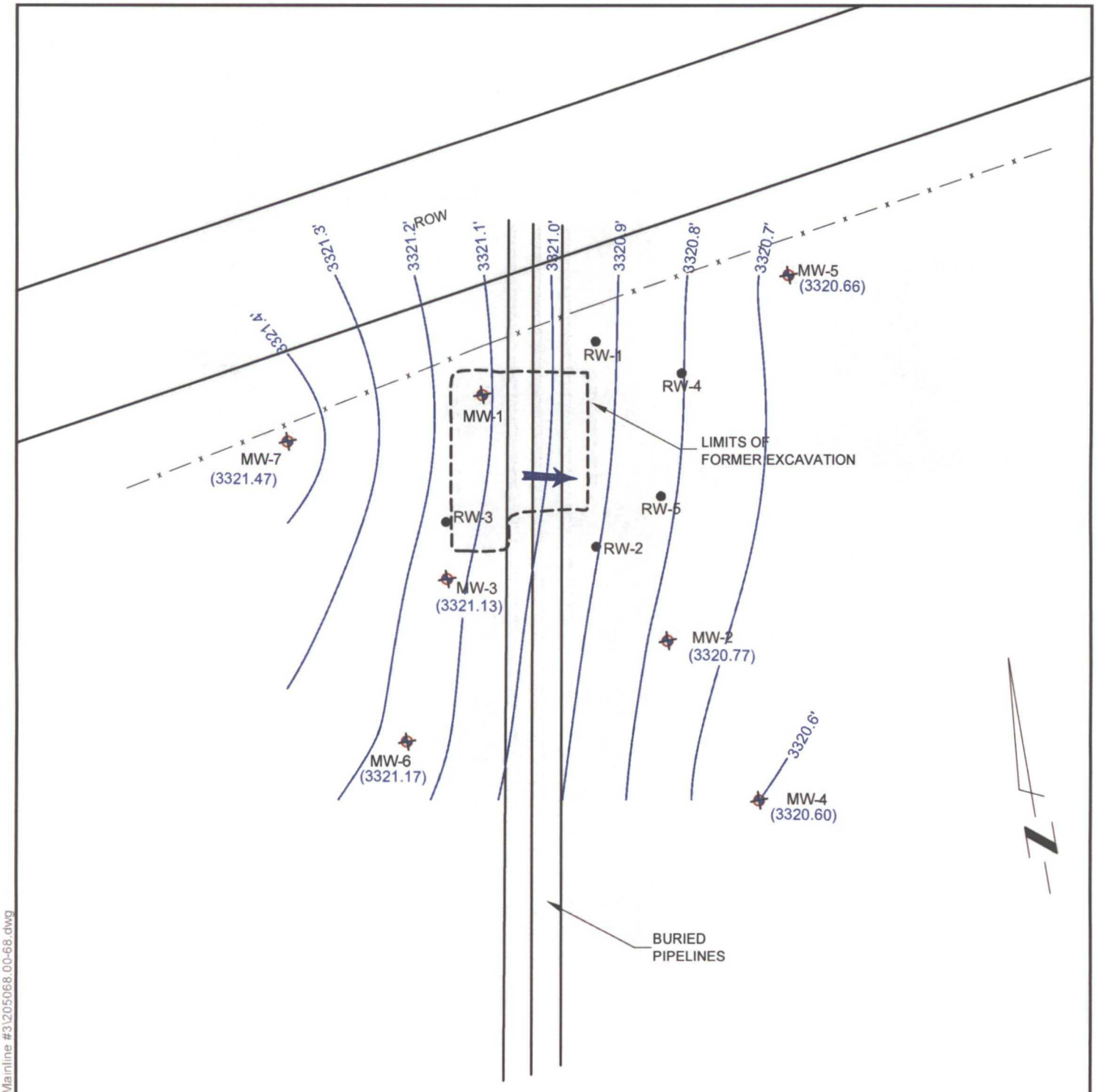

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

(3121.11) - Corrected Ground Water Elevation, ft.

−3321.00− - Ground Water Elevation Contour, ft.
Contour Interval=0.1 ft.

- Apparent Ground Water Flow Direction

Note: MW-1, MW-8, & Rw-1 through RW-5 are not used to prepare the contours.

0 50
FEET
APPROXIMATE SCALE

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Figure 3C
3rd Quarter 2010 - Groundwater Gradient Map
August 26, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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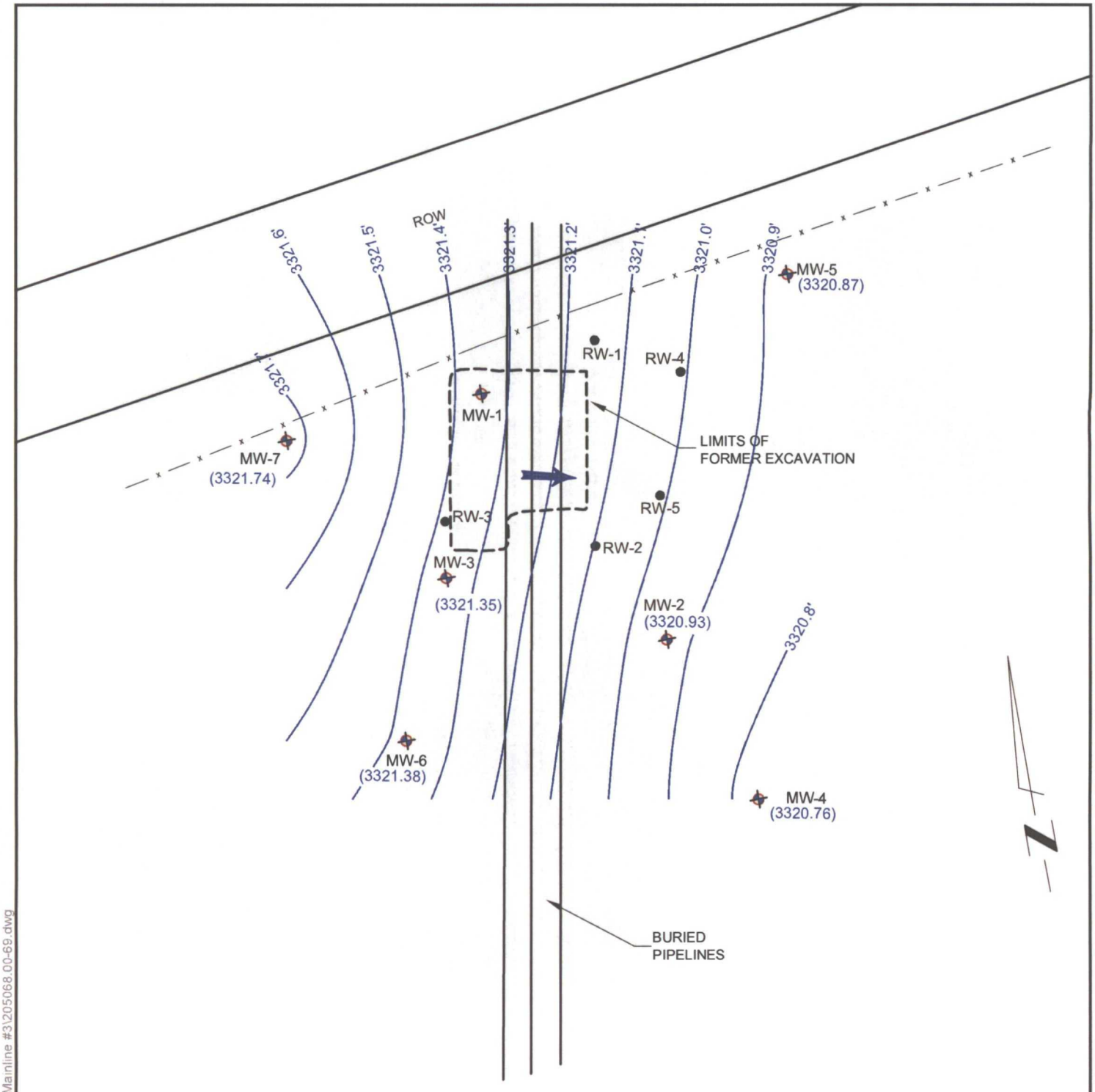

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION
- (3121.11) - Corrected Ground Water Elevation, ft.
- −3321.00− - Ground Water Elevation Contour, ft. Contour Interval=0.1 ft.
- → - Apparent Ground Water Flow Direction

Note: MW-1, MW-8, & Rw-1 through RW-5 are not used to prepare the contours.

0 50
FEET
APPROXIMATE SCALE

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Figure 3D
4th Quarter 2010 - Groundwater Gradient Map
November 18, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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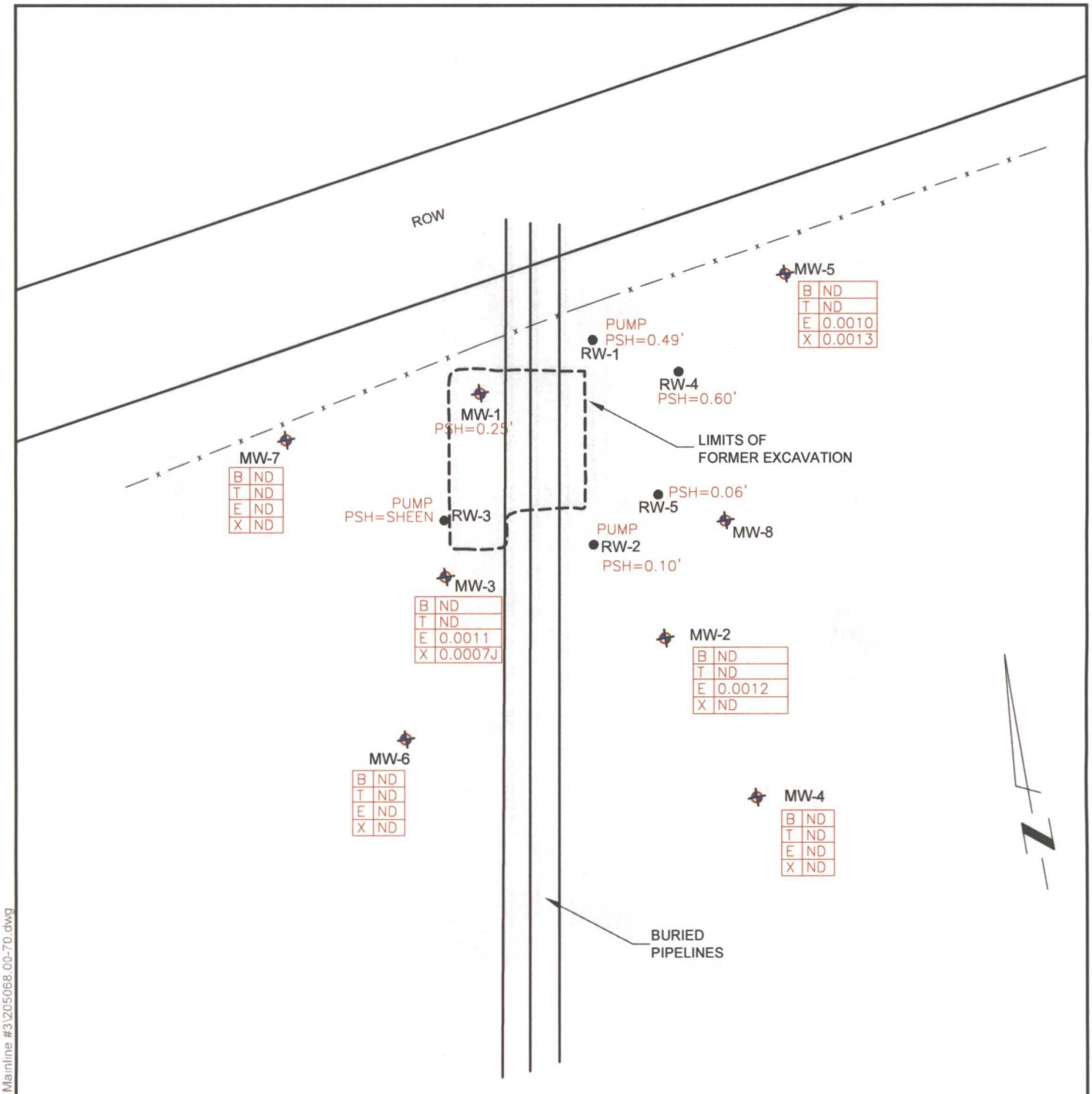

NMOCD Remediation Criteria

Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

Note: All concentration in mg/L.
PSH= PSH present and well not sampled.
J=estimated value
ND=concentrations below lab SDLs
NS=Wells not sampled during this sampling event.

0 50
FEET
APPROXIMATE SCALE

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Figure 4A
1st Quarter 2010 - BTEX Concentration Map
February 9, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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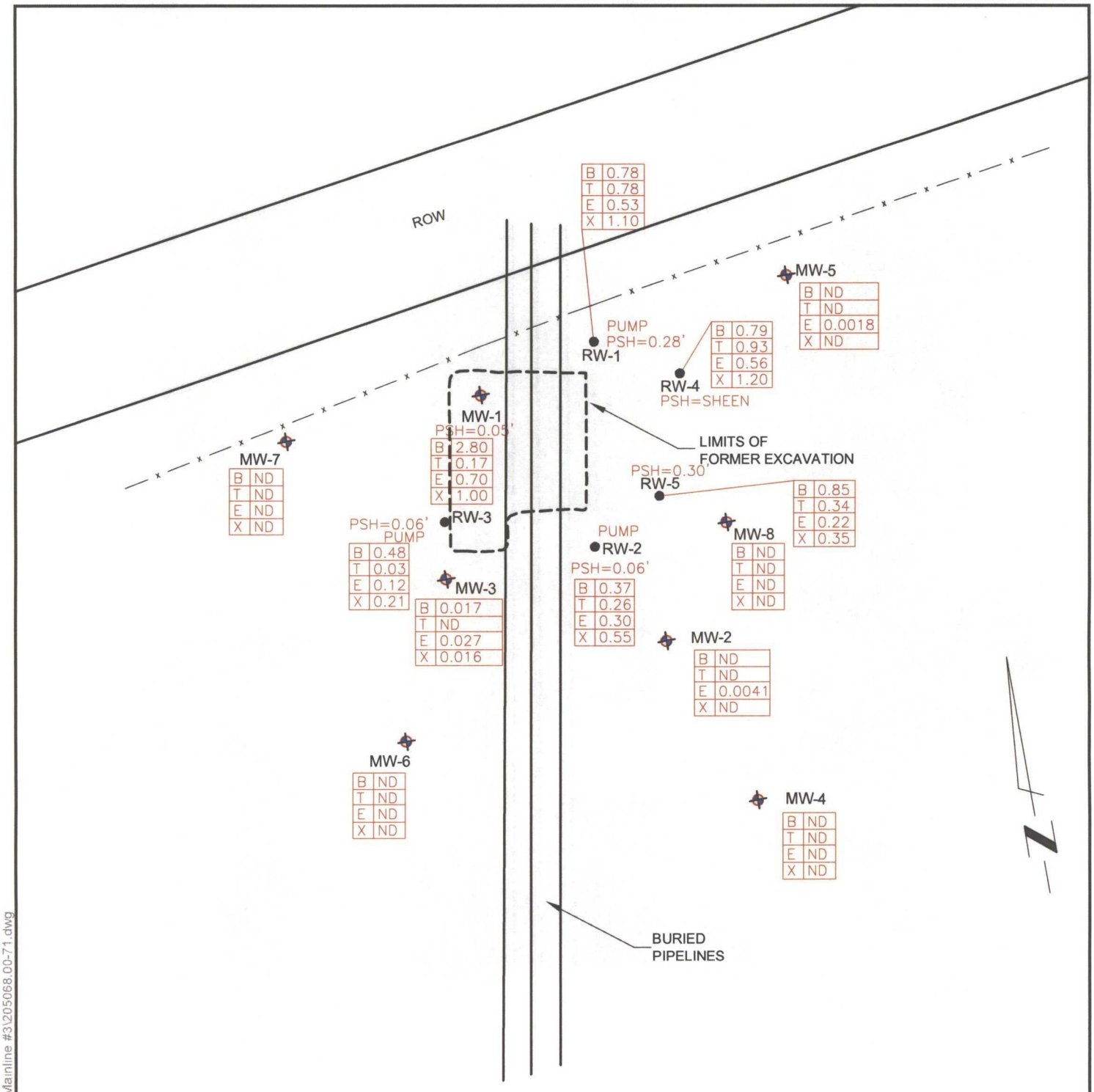

NMOCD Remediation Criteria

Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

Note: All concentration in mg/L.
PSH= PSH present and well not sampled.
J=estimated value
ND=concentrations below lab SDLs
NS=Wells not sampled during this sampling event.

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 4B
2nd Quarter 2010 - BTEX Concentration Map
May 12, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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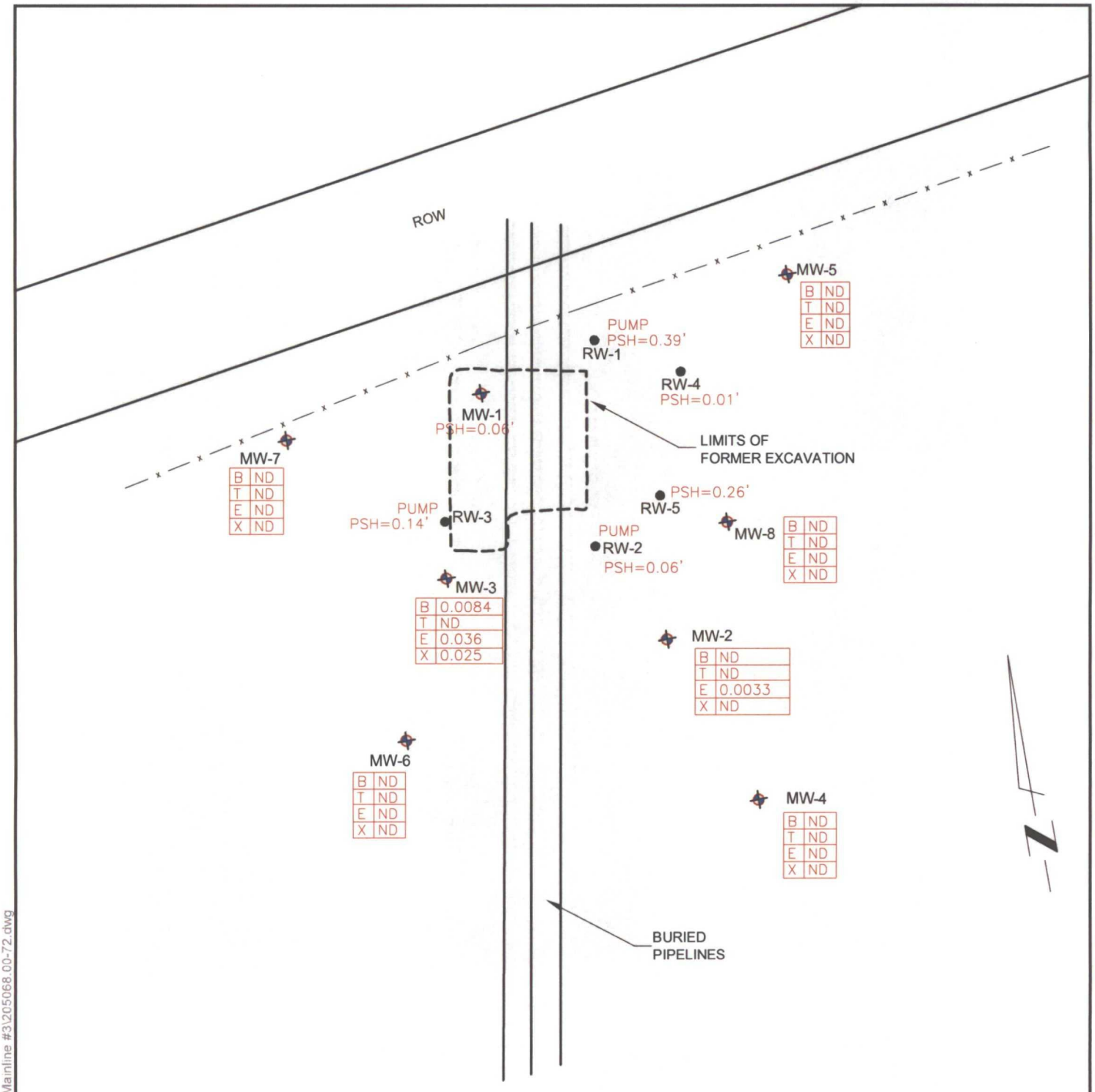

NMOCD Remediation Criteria

Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

Note: All concentration in mg/L.
PSH= PSH present and well not sampled.
J=estimated value
ND=concentrations below lab SDLs
NS=Wells not sampled during this sampling event.

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 4C
3rd Quarter 2010 - BTEX Concentration Map
August 26, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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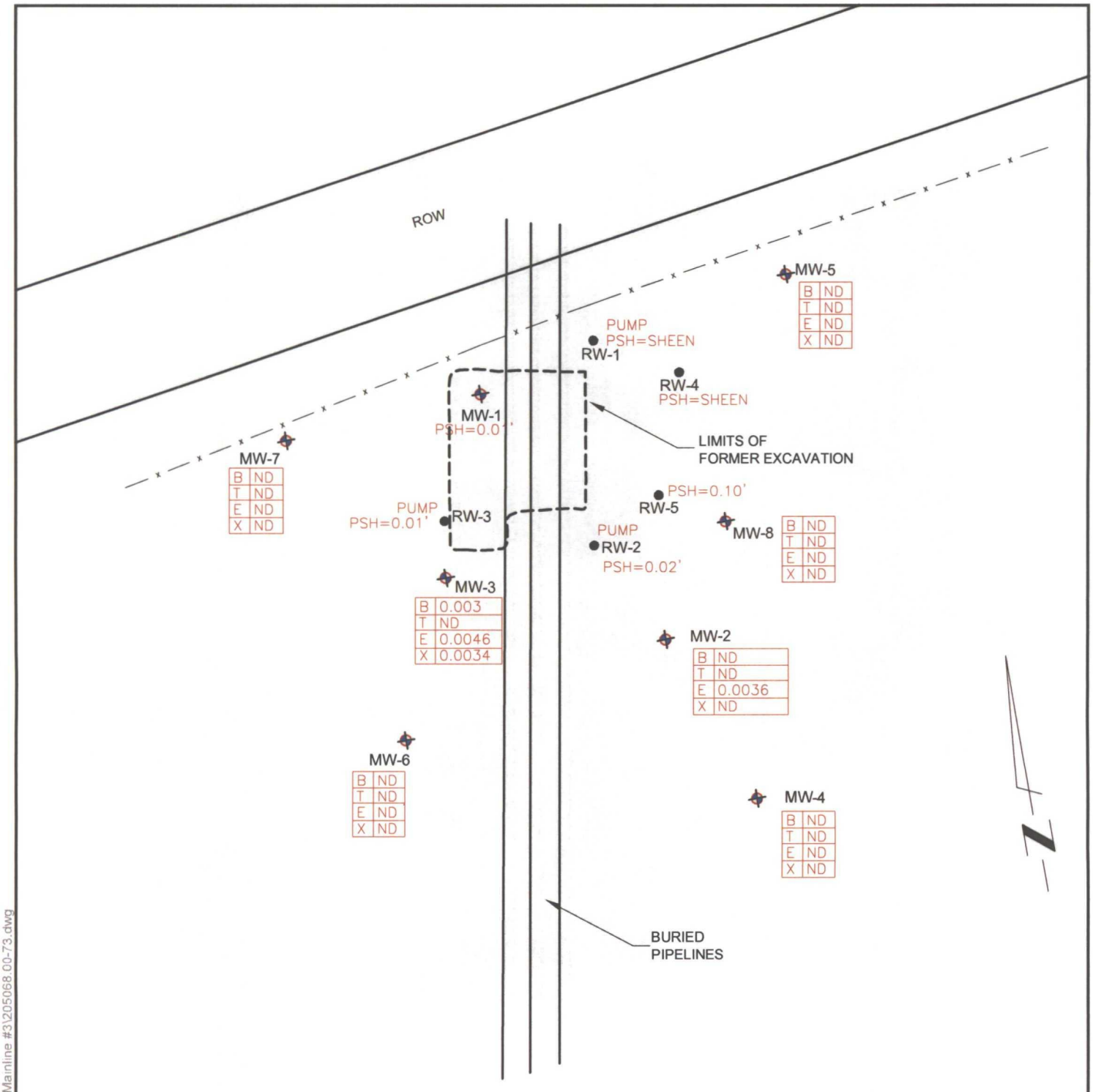

NMOCD Remediation Criteria

Benzene	0.01
Toluene	0.75
Ethylbenzene	0.75
Total Xylenes	0.62

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION

Note: All concentration in mg/L.
PSH= PSH present and well not sampled.
J=estimated value
ND=concentrations below lab SDLs
NS=Wells not sampled during this sampling event.

0 50
FEET
APPROXIMATE SCALE

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ENVIRONMENTAL SERVICES, INC.

Figure 4D
4th Quarter 2010 - BTEX Concentration Map
November 18, 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11

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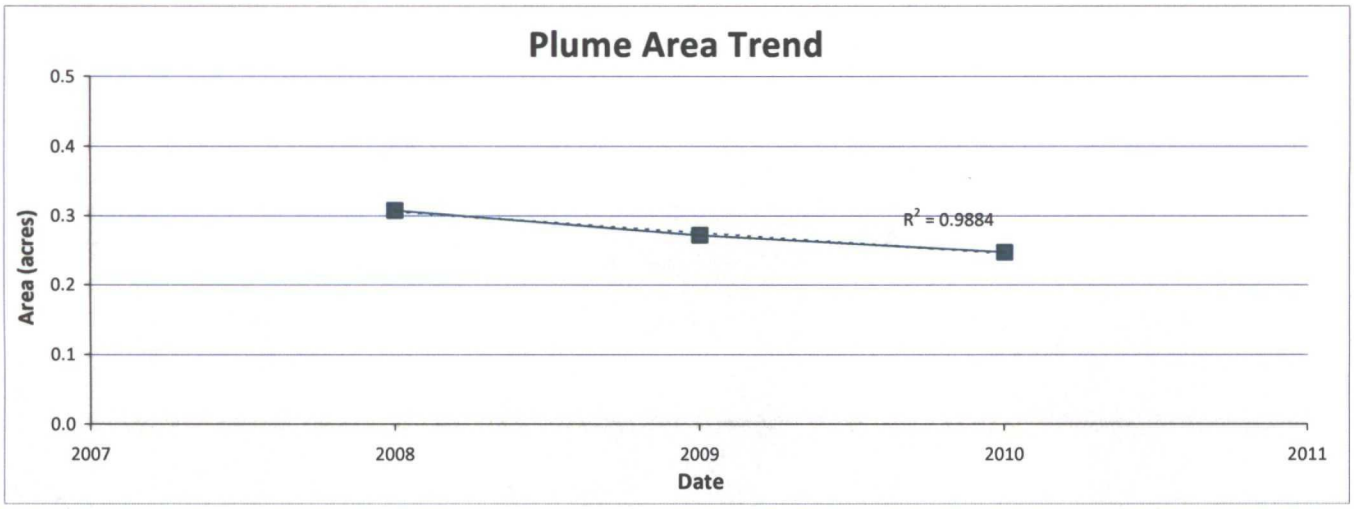

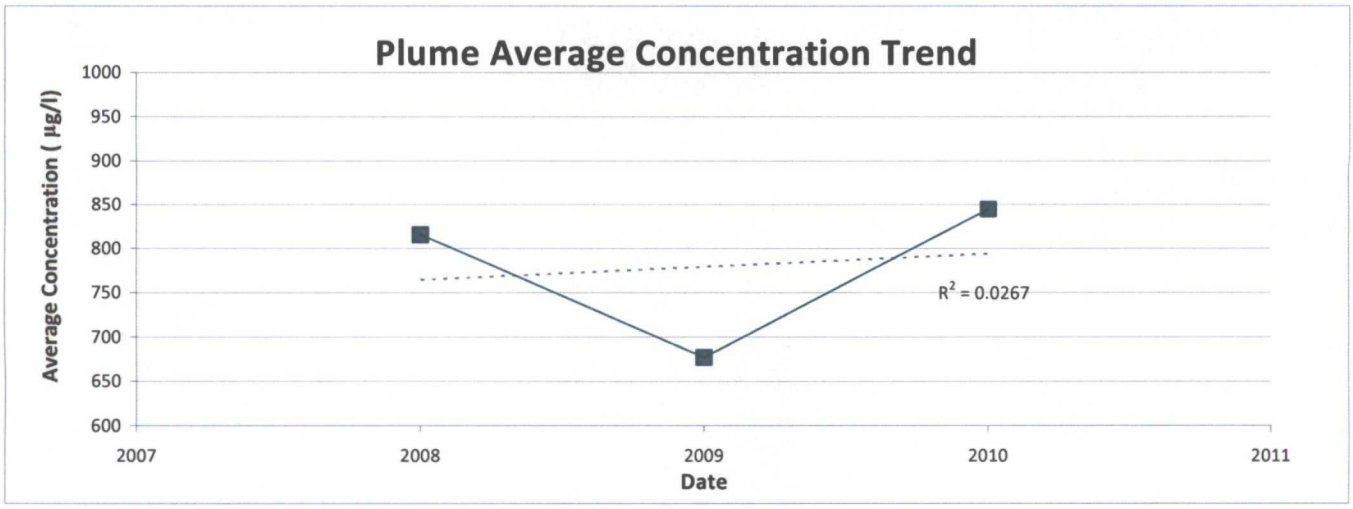

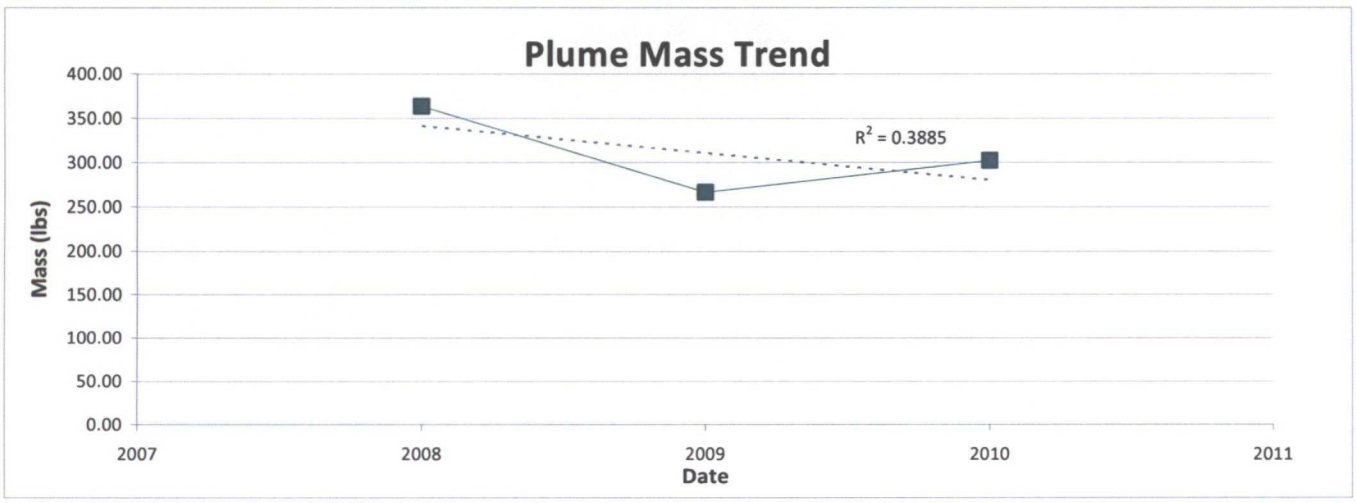

Summary of Plume Stability Characteristics

Date	Area (Acres)	Average Conc. (µg/l)	Mass (lbs)
2008	0.31	815	363
2009	0.27	677	267
2010	0.25	845	302

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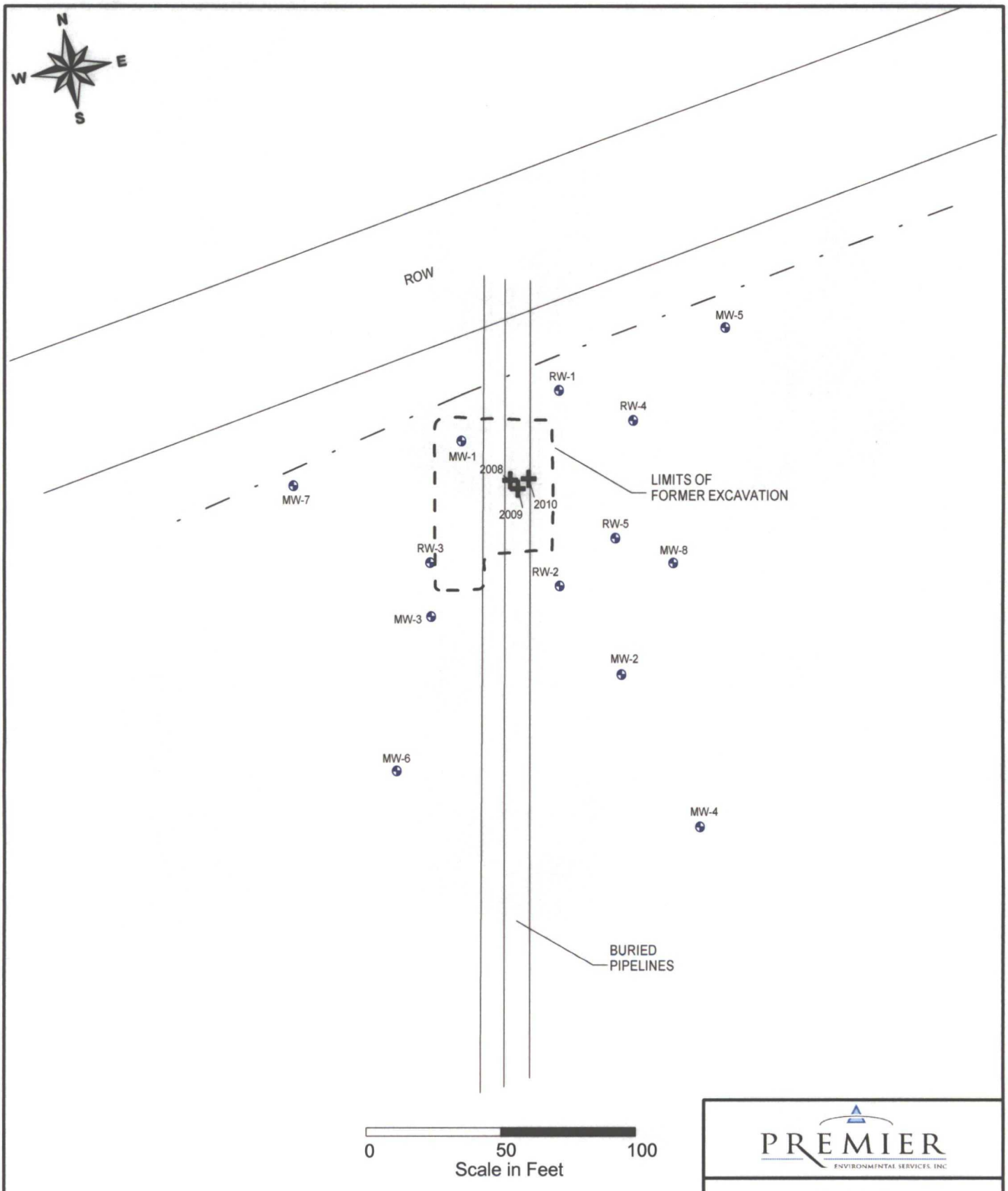
Figure 5
Plume Stability Analysis Summary
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00 | CK: CBP | DATE: 03/11



LEGEND:

RW RW - Recovery Wells

MW MW - Monitor Wells

Plume Center of Mass

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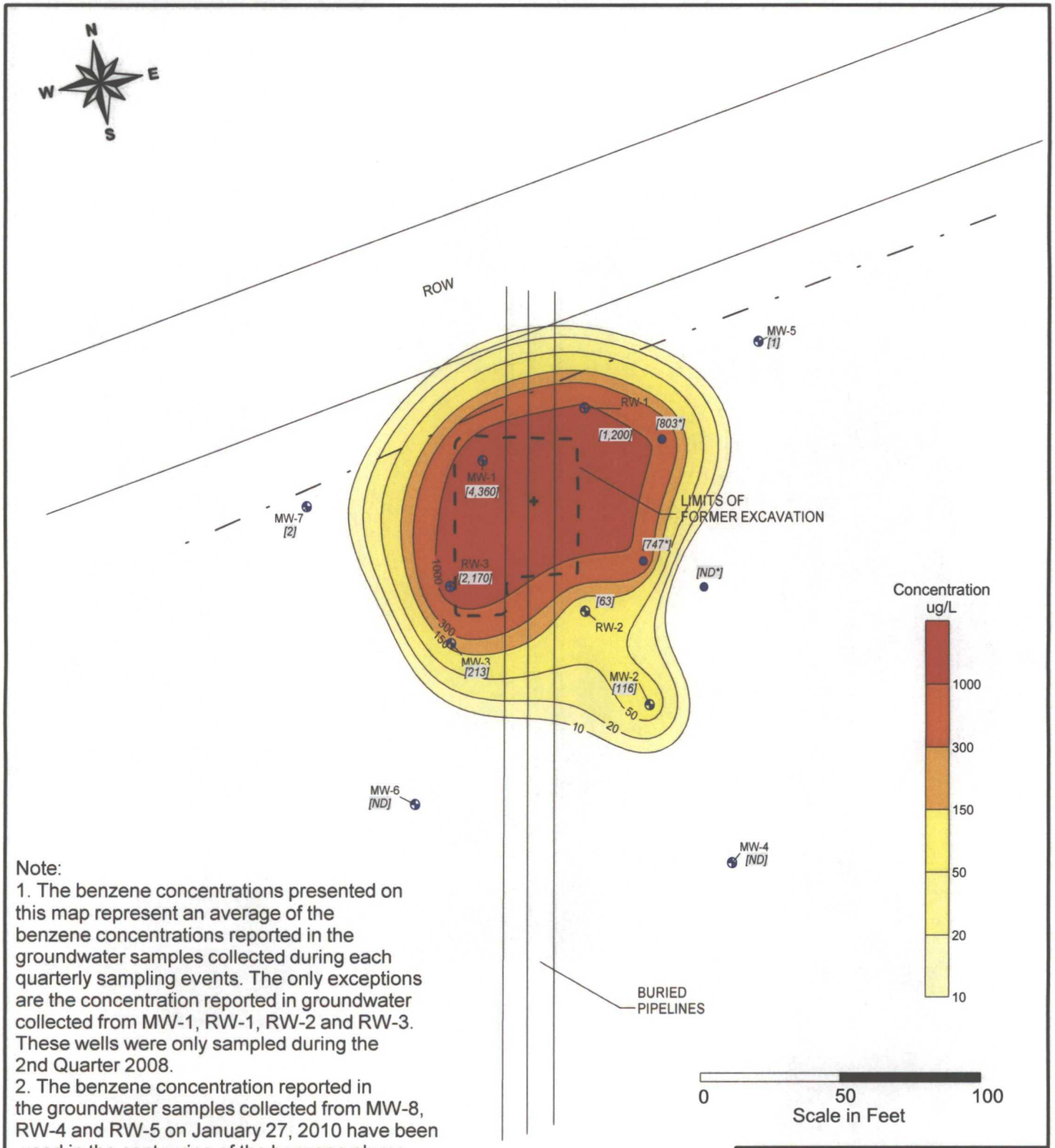
Figure 6
Plume Center of Mass -
2008, 2009 and 2010
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11



Note:
1. The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exceptions are the concentration reported in groundwater collected from MW-1, RW-1, RW-2 and RW-3. These wells were only sampled during the 2nd Quarter 2008.
2. The benzene concentration reported in the groundwater samples collected from MW-8, RW-4 and RW-5 on January 27, 2010 have been used in the contouring of the benzene plume 2008.

LEGEND:

RW ⊕ RW - Recovery Wells

MW ⊕ MW - Monitor Wells

✚ Plume Center of Mass

[2] Benzene Concentration in ug/L

[803]* Assumed Banzene Concentration (ug/L)

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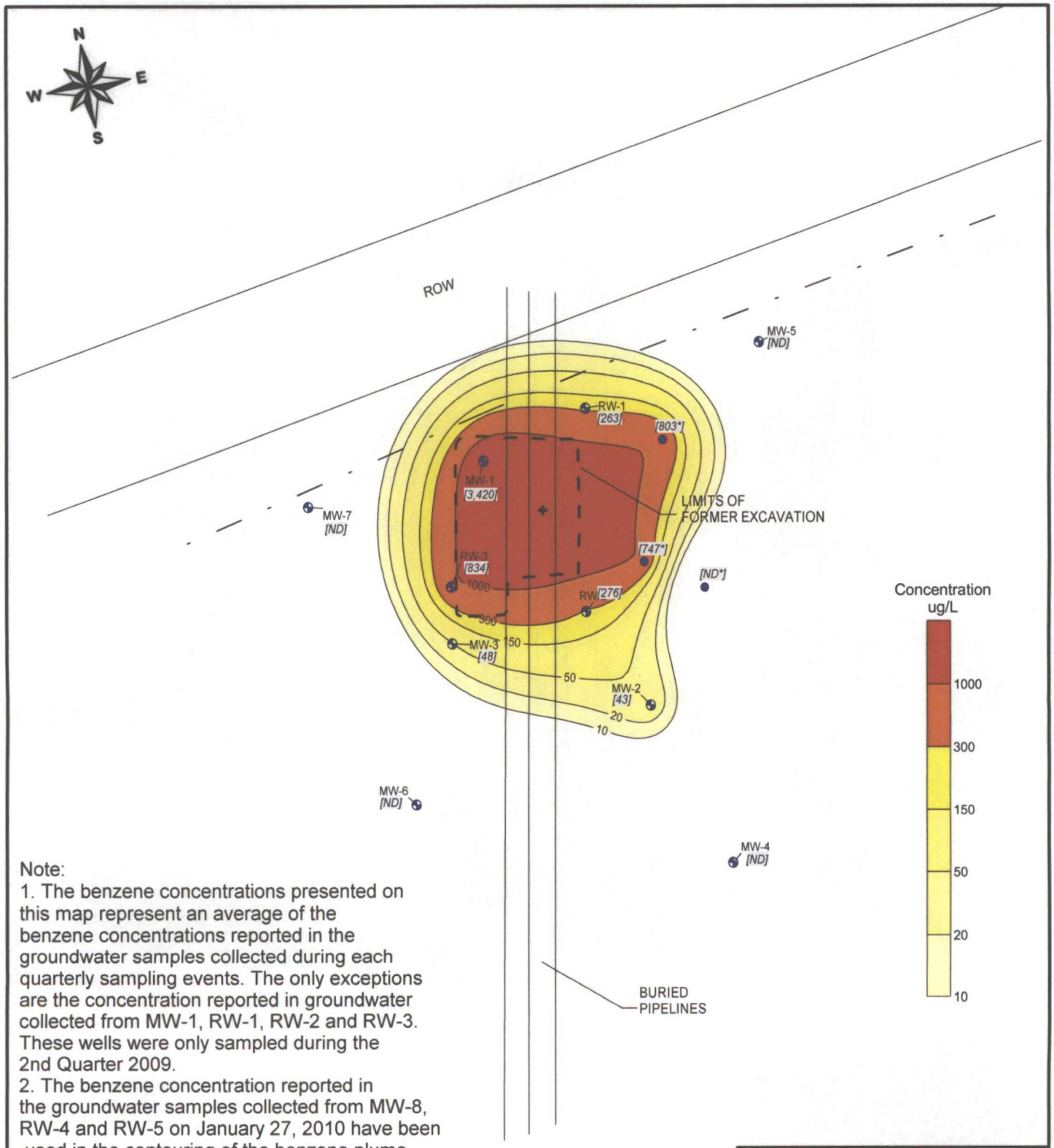
Figure 7
2008 - Benzene Isopleth Map
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11



Note:
1. The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exceptions are the concentration reported in groundwater collected from MW-1, RW-1, RW-2 and RW-3. These wells were only sampled during the 2nd Quarter 2009.
2. The benzene concentration reported in the groundwater samples collected from MW-8, RW-4 and RW-5 on January 27, 2010 have been used in the contouring of the benzene plume 2009.

LEGEND:

RW ⊕ RW - Recovery Wells

MW ⊕ MW - Monitor Wells

✦ Plume Center of Mass

[2] Benzene Concentration in ug/L

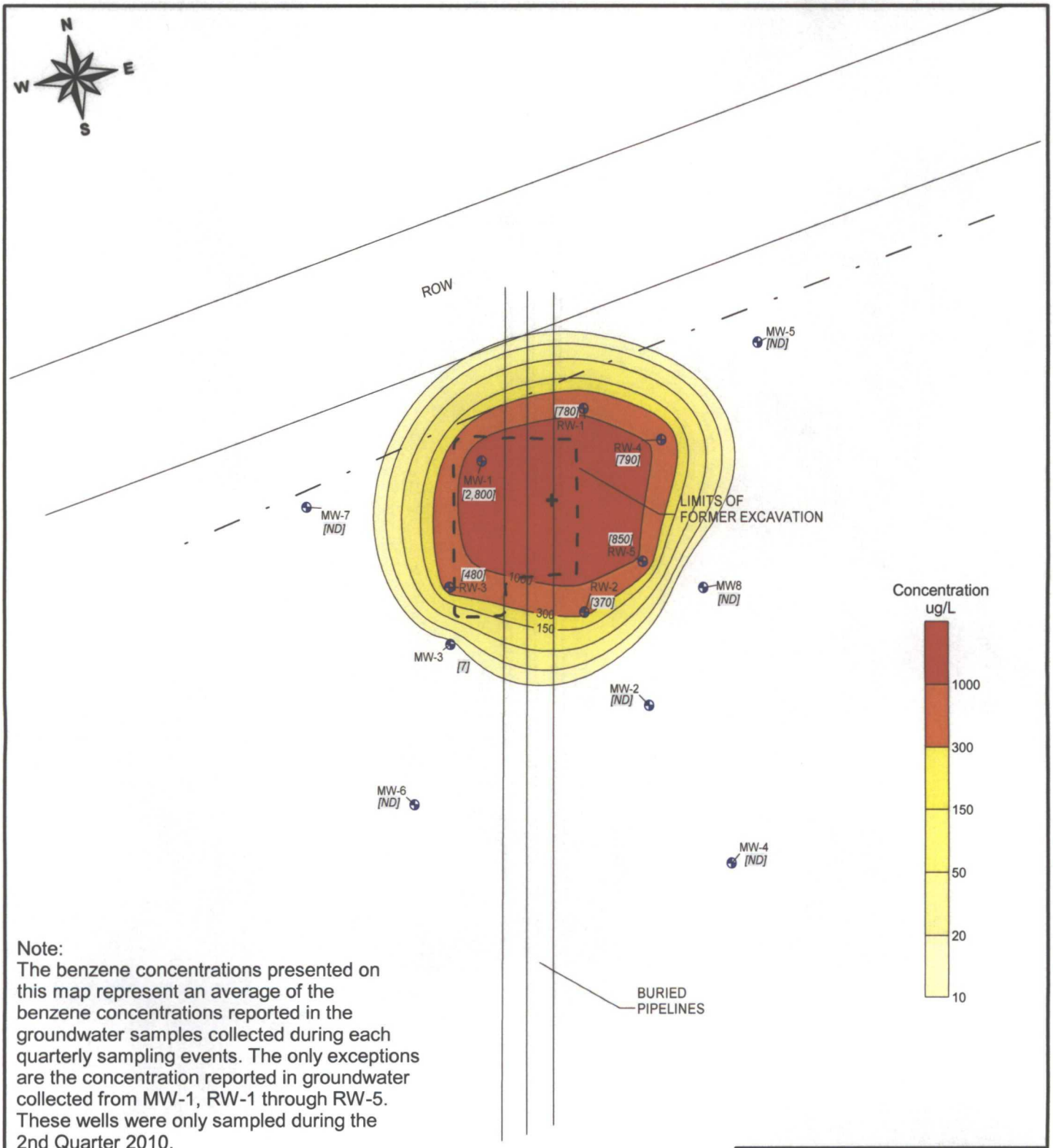
[803]* Assumed Banzene Concentration (ug/L)

0 50 100
Scale in Feet

PREMIER
ENVIRONMENTAL SERVICES, INC

Figure 8
2009 - Benzene Isopleth Map
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 03/11



Note:
The benzene concentrations presented on this map represent an average of the benzene concentrations reported in the groundwater samples collected during each quarterly sampling events. The only exceptions are the concentration reported in groundwater collected from MW-1, RW-1 through RW-5. These wells were only sampled during the 2nd Quarter 2010.

LEGEND:

RW ⊕ RW - Recovery Wells

MW ⊕ MW - Monitor Wells

✚ Plume Center of Mass

[2] Benzene Concentration in ug/L

PREMIER
ENVIRONMENTAL SERVICES, INC

Figure 9
2010 - Benzene Isopleth Map
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK: CBP	DATE: 02/11

Figure 10
Benzene Concentration Trend in Monitor Well MW-2
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS No.: 2003-00117
Lea County, New Mexico

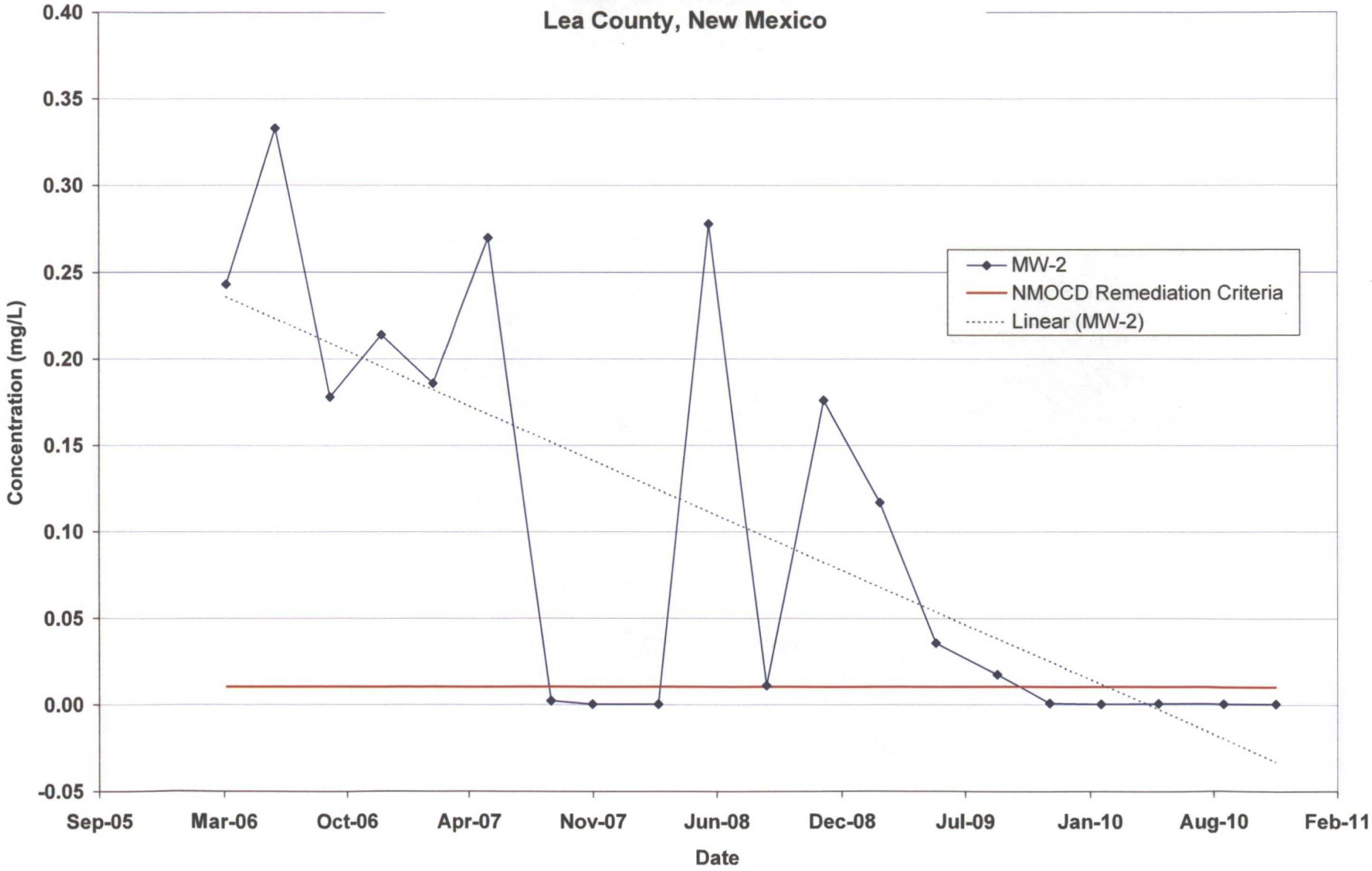
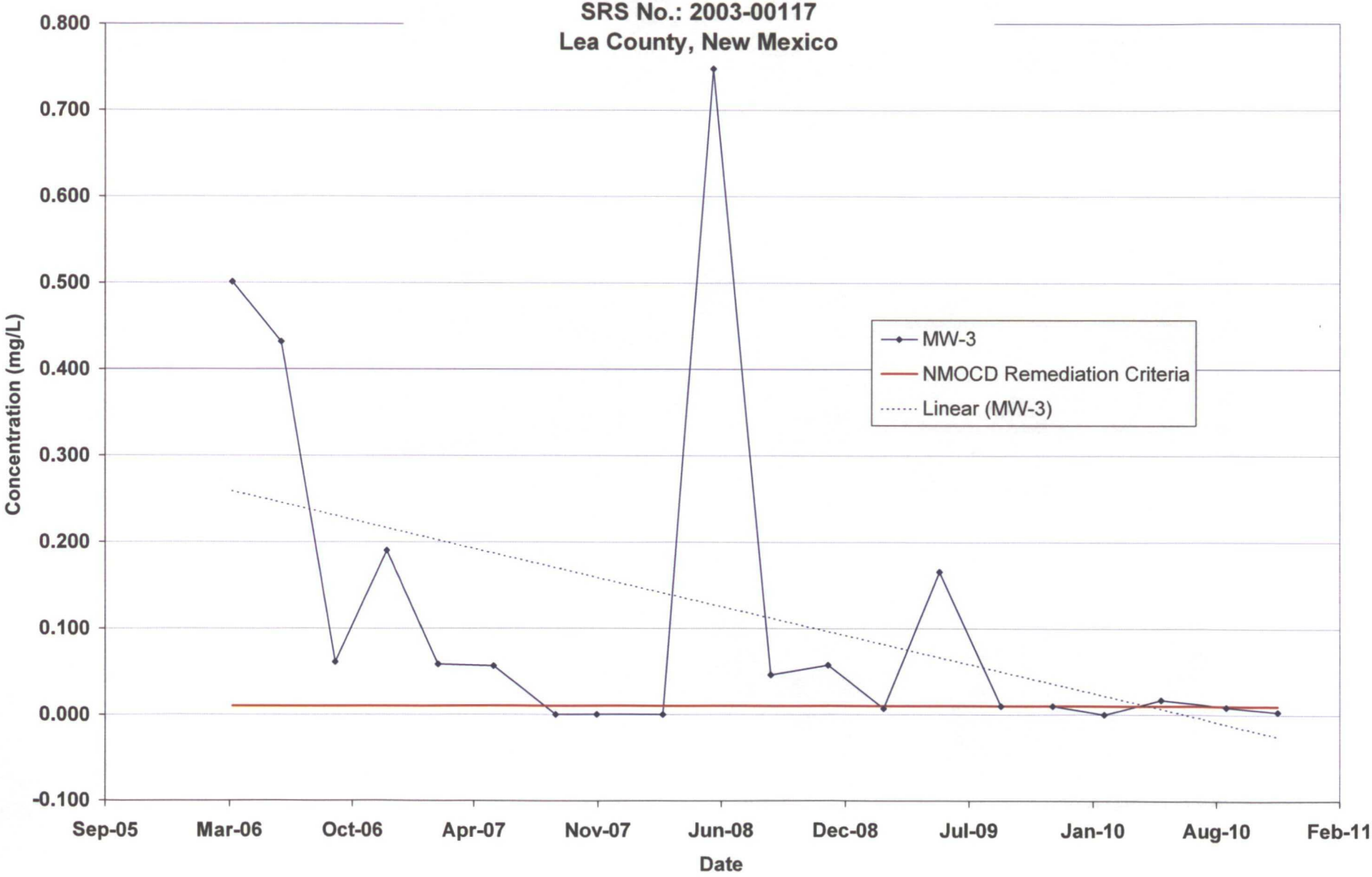


Figure 11
Benzene Concentration Trend in Monitor Well MW-3
Plains Pipeline, L.P.
Vacuum to Jal 14" Mainline #3
SRS No.: 2003-00117
Lea County, New Mexico



APPENDIX B

Tables

Table 1 – 2010 Groundwater Elevation and PSH Recovery Data

Table 2 – Historical Groundwater Elevation Data
(Available on CD attached to back cover)

Table 3 – 2010 Groundwater Sample Analytical Results

Table 4 – BTEX Groundwater Sample Analytical Results for wells with PSH/Sheen

Table 5 – Groundwater Analytical Results for Polynuclear Aromatic Hydrocarbons (PAHs) from wells with Sheen/PSH

Table 6 – 2010 Monthly Dissolved Phase Groundwater Recovery Data

Table 7 – 2010 Soil Sample Analytical Results

Table 8 – Groundwater Analytical Results for Wells Installed In January 2010

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	01/06/10	3362.64	55.60	48.62	48.65	0.03	NA	sheen	15	3314.02
	01/06/10	3362.64	55.60	55.30	55.30	0.00	NA	NA	NA	3307.34
	01/13/10	3362.64	55.60	48.70	48.76	0.06	NA	sheen	10	3313.93
	01/13/10	3362.64	55.60	52.41	52.41	0.00	NA	NA	NA	3310.23
	01/27/10	3362.64	55.60	48.64	48.69	0.05	NA	NA	NA	3313.99
	02/17/10	3362.64	55.60	48.58	48.83	0.25	Pump	0.5	19.5	3314.02
	02/17/10	3362.64	55.60	50.81	50.81	0.00	NA	NA	NA	3311.83
	03/02/10	3362.64	55.60	48.58	48.60	0.02	NA	NA	NA	3314.06
	03/10/10	3362.64	55.60	48.50	48.55	0.05	Pump	sheen	5	3314.13
	03/10/10	3362.64	55.60	51.82	51.82	0.00	NA	NA	NA	3310.82
	03/17/10	3362.64	55.60	48.64	48.67	0.03	NA	NA	NA	3314.00
	03/24/10	3362.64	55.60	48.58	48.70	0.12	NA	NA	NA	3314.04
	03/31/10	3362.64	55.60	48.51	48.65	0.14	Pump	sheen	15	3314.11
	03/31/10	3362.64	55.60	55.12	55.12	0.00	NA	NA	NA	3307.52
	04/07/10	3362.64	55.60	48.63	48.73	0.10	NA	NA	NA	3314.00
	04/14/10	3362.64	55.60	48.55	48.62	0.07	NA	NA	NA	3314.08
	04/21/10	3362.64	55.60	48.42	48.50	0.08	NA	NA	NA	3314.21
	04/28/10	3362.64	55.60	48.55	48.72	0.17	NA	NA	NA	3314.06
	04/28/10	3362.64	55.60	53.55	53.55	0.00	Hand Bailed	sheen	7.5 (Dry)	3309.09
	05/05/10	3362.64	55.60	48.55	48.64	0.09	NA	NA	NA	3314.08
	05/05/10	3362.64	55.60	52.70	52.70	0.00	Hand Bailed	sheen	8/dry	3309.94
	05/11/10	3362.64	55.60	48.53	48.58	0.05	Pump	sheen	15	3314.10
	05/11/10	3362.64	55.60	51.57	51.57	0.00	NA	NA	NA	3311.07
	05/19/10	3362.64	55.60	48.56	48.57	0.01	NA	NA	NA	3314.08
	05/29/10	3362.64	55.60	48.60	48.69	0.09	Pump	<0.25	10	3314.03
	05/29/10	3362.64	55.60	54.60	54.60	0.00	NA	NA	NA	3308.04
	06/01/10	3362.64	55.60	48.55	48.56	0.01	NA	NA	NA	3314.09
	06/12/10	3362.64	55.60	48.62	48.65	0.03	NA	NA	NA	3314.02
	06/15/10	3362.64	55.60	48.58	48.71	0.13	Pump	<0.25	10	3314.04
	06/15/10	3362.64	55.60	52.82	52.82	0.00	NA	NA	NA	3309.82
	06/25/10	3362.64	55.60	48.63	48.67	0.04	NA	NA	NA	3314.00
	06/30/10	3362.64	55.60	48.65	48.73	0.08	NA	NA	NA	3313.98
	07/07/10	3362.64	55.60	48.64	48.75	0.11	NA	NA	NA	3313.98
	07/14/10	3362.64	55.60	48.60	48.71	0.11	NA	NA	NA	3314.02
	07/21/10	3362.64	55.60	48.63	48.82	0.19	NA	NA	NA	3313.98
	07/28/10	3362.64	55.60	48.62	48.86	0.24	NA	NA	NA	3313.98
	08/03/10	3362.64	55.60	48.61	48.83	0.22	NA	NA	NA	3314.00
	08/11/10	3362.64	55.60	48.59	48.89	0.30	NA	NA	NA	3314.01
	08/18/10	3362.64	55.60	48.62	48.96	0.34	Pump	sheen	15	3313.97
	08/18/10	3362.64	55.60	55.48	55.48	0.00	NA	NA	NA	3307.16
	08/25/10	3362.64	55.60	48.70	48.76	0.06	NA	NA	NA	3313.93
	09/01/10	3362.64	55.60	48.55	48.60	0.05	NA	NA	NA	3314.08
	09/08/10	3362.64	55.60	48.57	48.67	0.10	Pump	sheen	15	3314.06
	09/08/10	3362.64	55.60	55.56	55.56	0.00	NA	NA	NA	3307.08
	09/15/10	3362.64	55.60	48.55	48.56	0.01	Pump	sheen	5	3314.09
	09/15/10	3362.64	55.60	49.95	49.95	0.00	NA	NA	NA	3312.69
	09/21/10	3362.64	55.60	48.48	48.50	0.02	NA	NA	NA	3314.16
	10/01/10	3362.64	55.60	48.53	48.57	0.04	NA	NA	NA	3314.10
	10/06/10	3362.64	55.60	48.51	48.52	0.01	NA	NA	NA	3314.13
	10/13/10	3362.64	55.60	48.57	48.63	0.06	Pump	sheen	10	3314.06
	10/13/10	3362.64	55.60	50.41	50.41	0.00	NA	NA	NA	3312.23
	10/22/10	3362.64	55.60	48.38	48.40	0.02	NA	NA	NA	3314.26
	10/27/10	3362.64	55.60	48.38	48.40	0.02	NA	NA	NA	3314.26
	11/03/10	3362.64	55.60	48.44	48.45	0.01	NA	NA	NA	3314.20
	11/10/10	3362.64	55.60	48.22	48.23	0.01	Pump	sheen	15	3314.42
	11/10/10	3362.64	55.60	51.95	51.95	0.00	NA	NA	NA	3310.69
	11/16/10	3362.64	55.60	48.30	48.31	0.01	NA	NA	NA	3314.34
	11/24/10	3362.64	55.60	48.25	48.26	0.01	NA	NA	NA	3314.39
	12/01/10	3362.64	55.60	48.18	48.19	0.01	pump	sheen	8/dry	3314.46
	12/01/10	3362.64	55.60	50.82	50.82	0.00	NA	NA	NA	3311.82
	12/08/10	3362.64	55.60	48.25	48.26	0.01	NA	NA	NA	3314.39
	12/15/10	3362.64	55.60	48.06	48.07	0.01	NA	NA	NA	3314.58
	12/21/10	3362.64	55.60	48.18	48.19	0.01	NA	NA	NA	3314.46

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-2	01/06/10	3367.00	56.30	NA	46.33	NA	NA	NA	NA	3320.67
	02/09/10	3367.00	56.30	NA	46.42	NA	NA	NA	NA	3320.58
	03/10/10	3367.00	56.30	NA	46.13	NA	NA	NA	NA	3320.87
	04/07/10	3367.00	56.30	NA	46.27	NA	NA	NA	NA	3320.73
	05/05/10	3367.00	56.30	NA	46.22	NA	NA	NA	NA	3320.78
	05/11/10	3367.00	56.30	NA	46.20	NA	NA	NA	NA	3320.80
	06/02/10	3367.00	56.30	NA	46.21	NA	NA	NA	NA	3320.79
	07/07/10	3367.00	56.30	NA	46.32	NA	NA	NA	NA	3320.68
	08/03/10	3367.00	56.30	NA	46.25	NA	NA	NA	NA	3320.75
	08/26/10	3367.00	56.30	NA	46.23	NA	NA	NA	NA	3320.77
	09/01/10	3367.00	56.30	NA	46.18	NA	NA	NA	NA	3320.82
	10/13/10	3367.00	56.30	NA	46.26	NA	NA	NA	NA	3320.74
	11/18/10	3367.00	56.30	NA	46.07	NA	NA	NA	NA	3320.93
	11/24/10	3367.00	56.30	NA	46.03	NA	NA	NA	NA	3320.97
	12/08/10	3367.00	56.30	NA	46.03	NA	NA	NA	NA	3320.97
MW-3	01/06/10	3369.1	56.18	NA	47.99	NA	NA	NA	NA	3321.11
	02/09/10	3369.1	56.18	NA	48.06	NA	NA	NA	NA	3321.04
	03/10/10	3369.1	56.18	NA	47.85	NA	NA	NA	NA	3321.25
	04/07/10	3369.1	56.18	NA	48.00	NA	NA	NA	NA	3321.10
	05/05/10	3369.1	56.18	NA	47.95	NA	NA	NA	NA	3321.15
	05/11/10	3369.1	56.18	NA	47.92	NA	NA	NA	NA	3321.18
	06/02/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	07/07/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	08/03/10	3369.1	56.18	NA	47.96	NA	NA	NA	NA	3321.14
	08/26/10	3369.1	56.18	NA	47.97	NA	NA	NA	NA	3321.13
	09/01/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	10/13/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	11/18/10	3369.1	56.18	NA	47.75	NA	NA	NA	NA	3321.35
	11/24/10	3369.1	56.18	NA	47.67	NA	NA	NA	NA	3321.43
	12/08/10	3369.1	56.18	NA	47.68	NA	NA	NA	NA	3321.42
MW-4	01/06/10	3365.12	59.40	NA	44.57	NA	NA	NA	NA	3320.55
	02/09/10	3365.12	59.40	NA	44.63	NA	NA	NA	NA	3320.49
	03/10/10	3365.12	59.40	NA	44.36	NA	NA	NA	NA	3320.76
	04/07/10	3365.12	59.40	NA	44.50	NA	NA	NA	NA	3320.62
	05/05/10	3365.12	59.40	NA	44.46	NA	NA	NA	NA	3320.66
	05/11/10	3365.12	59.40	NA	44.45	NA	NA	NA	NA	3320.67
	06/02/10	3365.12	59.40	NA	44.43	NA	NA	NA	NA	3320.69
	07/07/10	3365.12	59.40	NA	44.55	NA	NA	NA	NA	3320.57
	08/03/10	3365.12	59.40	NA	44.52	NA	NA	NA	NA	3320.60
	08/26/10	3365.12	59.40	NA	44.52	NA	NA	NA	NA	3320.60
	09/01/10	3365.12	59.40	NA	44.43	NA	NA	NA	NA	3320.69
	10/13/10	3365.12	59.40	NA	44.51	NA	NA	NA	NA	3320.61
	11/18/10	3365.12	59.40	NA	44.36	NA	NA	NA	NA	3320.76
	11/24/10	3365.12	59.40	NA	44.29	NA	NA	NA	NA	3320.83
	12/08/10	3365.12	59.40	NA	44.28	NA	NA	NA	NA	3320.84
MW-5	01/06/10	3364.74	53.03	NA	44.11	NA	NA	NA	NA	3320.63
	02/09/10	3364.74	53.03	NA	44.20	NA	NA	NA	NA	3320.54
	03/10/10	3364.74	53.03	NA	43.95	NA	NA	NA	NA	3320.79
	04/07/10	3364.74	53.03	NA	44.06	NA	NA	NA	NA	3320.68
	05/05/10	3364.74	53.03	NA	44.04	NA	NA	NA	NA	3320.70
	05/11/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	06/02/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	07/07/10	3364.74	53.03	NA	44.10	NA	NA	NA	NA	3320.64
	08/03/10	3364.74	53.03	NA	44.07	NA	NA	NA	NA	3320.67
	08/26/10	3364.74	53.03	NA	44.08	NA	NA	NA	NA	3320.66
	09/01/10	3364.74	53.03	NA	43.98	NA	NA	NA	NA	3320.76
	10/13/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	11/18/10	3364.74	53.03	NA	43.87	NA	NA	NA	NA	3320.87
	11/24/10	3364.74	53.03	NA	43.81	NA	NA	NA	NA	3320.93
	12/08/10	3364.74	53.03	NA	43.81	NA	NA	NA	NA	3320.93

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-6	01/06/10	3368.96	59.21	NA	47.83	NA	NA	NA	NA	3321.13
	02/09/10	3368.96	59.21	NA	47.87	NA	NA	NA	NA	3321.09
	03/10/10	3368.96	59.21	NA	47.66	NA	NA	NA	NA	3321.30
	04/07/10	3368.96	59.21	NA	47.83	NA	NA	NA	NA	3321.13
	05/05/10	3368.96	59.21	NA	47.74	NA	NA	NA	NA	3321.22
	05/11/10	3368.96	59.21	NA	47.75	NA	NA	NA	NA	3321.21
	06/02/10	3368.96	59.21	NA	47.73	NA	NA	NA	NA	3321.23
	07/07/10	3368.96	59.21	NA	47.81	NA	NA	NA	NA	3321.15
	08/03/10	3368.96	59.21	NA	47.80	NA	NA	NA	NA	3321.16
	08/26/10	3368.96	59.21	NA	47.79	NA	NA	NA	NA	3321.17
	09/01/10	3368.96	59.21	NA	47.68	NA	NA	NA	NA	3321.28
	10/13/10	3368.96	59.21	NA	47.75	NA	NA	NA	NA	3321.21
	11/18/10	3368.96	59.21	NA	47.58	NA	NA	NA	NA	3321.38
	11/24/10	3368.96	59.21	NA	47.51	NA	NA	NA	NA	3321.45
	12/08/10	3368.96	59.21	NA	47.53	NA	NA	NA	NA	3321.43
MW-7	01/06/10	3370.25	59.69	NA	48.77	NA	NA	NA	NA	3321.48
	02/09/10	3370.25	59.69	NA	48.85	NA	NA	NA	NA	3321.40
	03/10/10	3370.25	59.69	NA	48.67	NA	NA	NA	NA	3321.58
	04/07/10	3370.25	59.69	NA	48.81	NA	NA	NA	NA	3321.44
	05/05/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	05/11/10	3370.25	59.69	NA	48.75	NA	NA	NA	NA	3321.50
	06/02/10	3370.25	59.69	NA	48.72	NA	NA	NA	NA	3321.53
	07/07/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	08/03/10	3370.25	59.69	NA	48.79	NA	NA	NA	NA	3321.46
	08/26/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	09/01/10	3370.25	59.69	NA	48.66	NA	NA	NA	NA	3321.59
	10/13/10	3370.25	59.69	NA	48.69	NA	NA	NA	NA	3321.56
	11/18/10	3370.25	59.69	NA	48.51	NA	NA	NA	NA	3321.74
	11/24/10	3370.25	59.69	NA	48.46	NA	NA	NA	NA	3321.79
	12/08/10	3370.25	59.69	NA	48.46	NA	NA	NA	NA	3321.79
MW-8	01/27/10	Well not surveyed	59.53	NA	44.41	NA	NA	NA	NA	Well not surveyed
	02/09/10		59.53	NA	44.50	NA	NA	NA	NA	
	03/10/10		59.53	NA	44.22	NA	NA	NA	NA	
	04/07/10		59.53	NA	44.36	NA	NA	NA	NA	
	05/05/10		59.53	NA	44.35	NA	NA	NA	NA	
	05/11/10		59.53	NA	44.30	NA	NA	NA	NA	
	06/02/10		59.53	NA	44.32	NA	NA	NA	NA	
	07/07/10		59.53	NA	44.41	NA	NA	NA	NA	
	08/03/10		59.53	NA	44.36	NA	NA	NA	NA	
	08/26/10		59.53	NA	44.35	NA	NA	NA	NA	
	09/01/10		59.53	NA	44.25	NA	NA	NA	NA	
	10/13/10		59.53	NA	44.33	NA	NA	NA	NA	
	11/18/10		59.53	NA	44.18	NA	NA	NA	NA	
	11/24/10		59.53	NA	44.11	NA	NA	NA	NA	
	12/08/10		59.53	NA	44.12	NA	NA	NA	NA	
RW-1	01/06/10	3368.12	58.70	47.13	47.63	0.50	Pump	0.25	9.75	3320.92
	01/06/10	3368.12	58.70	49.54	49.54	0.00	NA	NA	NA	3318.58
	01/13/10	3368.12	58.70	47.22	47.80	0.58	Pump	0.25	9.75	3320.81
	01/13/10	3368.12	58.70	48.44	48.44	0.00	NA	NA	NA	3319.68
	01/27/10	3368.12	58.70	47.15	47.76	0.61	Pump	0.5	9.5	3320.88
	01/27/10	3368.12	58.70	48.70	48.70	0.00	NA	NA	NA	3319.42
	02/11/10	3368.12	58.70	47.10	47.59	0.49	Pump	sheen	10	3320.95
	02/11/10	3368.12	58.70	48.42	48.42	0.00	NA	NA	NA	3319.70
	02/17/10	3368.12	58.70	47.17	47.75	0.58	Pump	0.5	9.5	3320.86
	02/17/10	3368.12	58.70	48.80	48.80	0.00	NA	NA	NA	3319.32
	03/02/10	3368.12	58.70	47.13	47.65	0.52	Pump	sheen	10	3320.91
	03/02/10	3368.12	58.70	48.54	48.54	0.00	NA	NA	NA	3319.58
	03/10/10	3368.12	58.70	47.05	47.38	0.33	Pump	sheen	10	3321.02
	03/10/10	3368.12	58.70	48.44	48.44	0.00	NA	NA	NA	3319.68
	03/17/10	3368.12	58.70	47.16	47.74	0.58	Pump	0.25	14.75	3320.87
	03/17/10	3368.12	58.70	48.98	48.98	0.00	NA	NA	NA	3319.14

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-1	03/24/10	3368.12	58.70	47.12	47.52	0.40	Pump	sheen	10	3320.94
	03/24/10	3368.12	58.70	48.61	48.61	0.00	NA	NA	NA	3319.51
	03/31/10	3368.12	58.70	47.06	47.45	0.39	Pump	0.5	29.5	3321.00
	03/31/10	3368.12	58.70	48.10	48.10	0.00	NA	NA	NA	3320.02
	04/07/10	3368.12	58.70	47.15	47.69	0.54	Pump	sheen	15	3320.89
	04/07/10	3368.12	58.70	48.52	48.52	0.00	NA	NA	NA	3319.60
	04/14/10	3368.12	58.70	47.12	47.55	0.43	Pump	0.25	19.75	3320.94
	04/14/10	3368.12	58.70	48.11	48.11	0.00	NA	NA	NA	3320.01
	04/21/10	3368.12	58.70	47.03	47.18	0.15	Pump	sheen	20	3321.07
	04/21/10	3368.12	58.70	47.90	47.90	0.00	NA	NA	NA	3320.22
	04/28/10	3368.12	58.70	47.12	47.34	0.22	Pump	sheen	15	3320.97
	04/28/10	3368.12	58.70	49.13	49.13	0.00	NA	NA	NA	3318.99
	05/05/10	3368.12	58.70	47.10	47.46	0.36	Pump	0.5	9.5	3320.97
	05/05/10	3368.12	58.70	50.25	50.25	0.00	NA	NA	NA	3317.87
	05/11/10	3368.12	58.70	47.10	47.38	0.28	Pump	sheen	22	3320.98
	05/11/10	3368.12	58.70	48.82	48.82	0.00	NA	NA	NA	3319.30
	05/19/10	3368.12	58.70	47.11	47.42	0.31	Pump	0.25	9.75	3320.96
	05/19/10	3368.12	58.70	48.45	48.45	0.00	NA	NA	NA	3319.67
	05/29/10	3368.12	58.70	47.15	47.60	0.45	Pump	0.25	19.75	3320.90
	05/29/10	3368.12	58.70	48.05	48.05	0.00	NA	NA	NA	3320.07
	06/02/10	3368.12	58.70	47.15	47.35	0.20	Pump	sheen	15	3320.94
	06/02/10	3368.12	58.70	49.05	49.05	0.00	NA	NA	NA	3319.07
	06/12/10	3368.12	58.70	47.20	47.56	0.36	Pump	<0.25	10	3320.87
	06/12/10	3368.12	58.70	48.95	48.95	0.00	NA	NA	NA	3319.17
	06/15/10	3368.12	58.70	47.18	47.48	0.30	Pump	2	13	3320.90
	06/15/10	3368.12	58.70	49.26	49.26	0.00	NA	NA	NA	3318.86
	06/25/10	3368.12	58.70	47.20	47.60	0.40	Pump	<0.25	10	3320.86
	06/25/10	3368.12	58.70	49.30	49.30	0.00	NA	NA	NA	3318.82
	06/30/10	3368.12	58.70	47.23	47.68	0.45	NA	NA	NA	3320.82
	07/07/10	3368.12	58.70	47.21	47.67	0.46	Pump	0.5	9.5	3320.84
	07/07/10	3368.12	58.70	48.56	48.56	0.00	NA	NA	NA	3319.56
	07/14/10	3368.12	58.70	47.19	47.50	0.31	Pump	sheen	15	3320.88
	07/14/10	3368.12	58.70	49.06	49.06	0.00	NA	NA	NA	3319.06
	07/21/10	3368.12	58.70	47.20	47.55	0.35	Pump	<0.25	15	3320.87
	07/21/10	3368.12	58.70	49.54	49.54	0.00	NA	NA	NA	3318.58
	07/28/10	3368.12	58.70	47.21	47.55	0.34	Pump	<0.25	10	3320.86
	07/28/10	3368.12	58.70	49.59	49.59	0.00	NA	NA	NA	3318.53
	08/03/10	3368.12	58.70	47.20	47.50	0.30	Pump	<0.25	10	3320.88
	08/03/10	3368.12	58.70	48.65	48.65	0.00	NA	NA	NA	3319.47
	08/11/10	3368.12	58.70	47.20	47.54	0.34	Pump	<0.25	15	3320.87
	08/11/10	3368.12	58.70	48.75	48.75	0.00	NA	NA	NA	3319.37
	08/18/10	3368.12	58.70	47.21	47.58	0.37	Pump	sheen	10	3320.85
	08/18/10	3368.12	58.70	49.10	49.10	0.00	NA	NA	NA	3319.02
	08/25/10	3368.12	58.70	47.28	47.67	0.39	Pump	sheen	10	3320.78
	08/25/10	3368.12	58.70	48.28	48.28	0.00	NA	NA	NA	3319.84
	09/01/10	3368.12	58.70	47.12	47.28	0.16	Pump	sheen	15	3320.98
	09/01/10	3368.12	58.70	49.31	49.31	0.00	NA	NA	NA	3318.81
	09/08/10	3368.12	58.70	47.15	47.34	0.19	Pump	sheen	15	3320.94
	09/08/10	3368.12	58.70	49.66	49.66	0.00	NA	NA	NA	3318.46
	09/15/10	3368.12	58.70	47.14	47.33	0.19	Pump	sheen	10	3320.95
	09/15/10	3368.12	58.70	49.15	49.15	0.00	NA	NA	NA	3318.97
	09/21/10	3368.12	58.70	47.09	47.20	0.11	Pump	sheen	20	3321.01
	09/21/10	3368.12	58.70	48.93	48.93	0.00	NA	NA	NA	3319.19
	10/01/10	3368.12	58.70	47.14	47.34	0.20	Pump	sheen	10	3320.95
	10/01/10	3368.12	58.70	48.55	48.55	0.00	NA	NA	NA	3319.57
	10/06/10	3368.12	58.70	47.11	47.25	0.14	Pump	sheen	10	3320.99
	10/06/10	3368.12	58.70	48.50	48.50	0.00	NA	NA	NA	3319.62
	10/13/10	3368.12	58.70	47.16	47.33	0.17	Pump	<0.25	10	3320.93
	10/13/10	3368.12	58.70	48.38	48.38	0.00	NA	NA	NA	3319.74
	10/22/10	3368.12	58.70	47.00	47.01	0.01	NA	NA	NA	3321.12
	10/27/10	3368.12	58.70	47.00	47.01	0.01	Pump	sheen	10	3321.12
	10/27/10	3368.12	58.70	50.10	50.10	0.00	NA	NA	NA	3318.02
	11/03/10	3368.12	58.70	47.05	47.06	0.01	NA	NA	NA	3321.07
	11/10/10	3368.12	58.70	46.84	46.84	0.00	NA	NA	NA	3321.28
	11/16/10	3368.12	58.70	46.93	46.93	0.00	Pump	sheen	10	3321.19

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-1	11/16/10	3368.12	58.70	49.57	49.57	0.00	NA	NA	NA	3318.55
	11/24/10	3368.12	58.70	46.86	46.86	0.00	NA	NA	NA	3321.26
	12/01/10	3368.12	58.70	46.80	46.80	0.00	NA	NA	NA	3321.32
	12/08/10	3368.12	58.70	46.87	46.87	0.00	NA	NA	NA	3321.25
	12/15/10	3368.12	58.70	46.98	46.99	0.01	Pump	sheen	5	3321.14
	12/15/10	3368.12	58.70	48.79	48.79	0.00	NA	NA	NA	3319.33
	12/21/10	3368.12	58.70	46.50	46.50	0.00	Pump	sheen	10	3321.62
	12/21/10	3368.12	58.70	48.02	48.02	0.00	NA	NA	NA	3320.10
RW-2	01/06/10	3368.32	58.98	47.55	47.63	0.08	Pump	sheen	15	3320.76
	01/06/10	3368.32	58.98	48.36	48.36	0.00	NA	NA	NA	3319.96
	01/13/10	3368.32	58.98	47.58	47.66	0.08	Pump	sheen	20	3320.73
	01/13/10	3368.32	58.98	49.00	49.00	0.00	Pump	sheen	10	3319.32
	01/27/10	3368.32	58.98	47.54	47.57	0.03	NA	NA	NA	3320.78
	02/11/10	3368.32	58.98	47.46	47.56	0.10	Pump	sheen	10	3320.85
	02/11/10	3368.32	58.98	48.10	48.10	0.00	NA	NA	NA	3320.22
	02/17/10	3368.32	58.98	47.53	47.54	0.01	Pump	sheen	20	3320.79
	02/17/10	3368.32	58.98	48.40	48.40	0.00	NA	NA	NA	3319.92
	03/02/10	3368.32	58.98	47.48	47.49	0.01	Pump	sheen	15	3320.84
	03/02/10	3368.32	58.98	48.62	48.62	0.00	NA	NA	NA	3319.70
	03/10/10	3368.32	58.98	47.38	47.44	0.06	Pump	sheen	15	3320.93
	03/10/10	3368.32	58.98	48.05	48.05	0.00	NA	NA	NA	3320.27
	03/17/10	3368.32	58.98	47.53	47.55	0.02	Pump	sheen	15	3320.79
	03/17/10	3368.32	58.98	48.57	48.57	0.00	NA	NA	NA	3319.75
	03/24/10	3368.32	58.98	47.44	47.46	0.02	Pump	sheen	20	3320.88
	03/24/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	03/31/10	3368.32	58.98	47.39	47.44	0.05	Pump	sheen	15	3320.92
	03/31/10	3368.32	58.98	47.98	47.98	0.00	NA	NA	NA	3320.34
	04/07/10	3368.32	58.98	47.50	47.52	0.02	NA	NA	NA	3320.82
	04/14/10	3368.32	58.98	47.43	47.52	0.09	Pump	sheen	10	3320.88
	04/21/10	3368.32	58.98	47.33	47.41	0.08	Pump	0.25	24.75	3320.98
	04/21/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	04/28/10	3368.32	58.98	47.42	47.45	0.03	Pump	sheen	20	3320.90
	04/28/10	3368.32	58.98	48.05	48.05	0.00	NA	NA	NA	3320.27
	05/05/10	3368.32	58.98	47.45	47.46	0.01	NA	NA	NA	3320.87
	05/11/10	3368.32	58.98	47.40	47.46	0.06	Pump	sheen	24	3320.91
	05/11/10	3368.32	58.98	48.72	48.72	0.00	NA	NA	NA	3319.60
	05/19/10	3368.32	58.98	47.45	47.55	0.10	Pump	0.25	9.75	3320.86
	05/19/10	3368.32	58.98	48.33	48.33	0.00	NA	NA	NA	3319.99
	05/29/10	3368.32	58.98	47.48	47.58	0.10	Pump	0.25	14.75	3320.83
	05/29/10	3368.32	58.98	48.15	48.15	0.00	NA	NA	NA	3320.17
	06/02/10	3368.32	58.98	47.45	47.48	0.03	NA	NA	NA	3320.87
	06/12/10	3368.32	58.98	47.53	47.65	0.12	Pump	<0.25	10	3320.77
	06/12/10	3368.32	58.98	48.48	48.48	0.00	NA	NA	NA	3319.84
	06/15/10	3368.32	58.98	47.48	47.52	0.04	Pump	<0.25	10	3320.83
	06/15/10	3368.32	58.98	48.80	48.80	0.00	NA	NA	NA	3319.52
	06/25/10	3368.32	58.98	47.54	47.62	0.08	NA	NA	NA	3320.77
	06/30/10	3368.32	58.98	47.56	47.68	0.12	NA	NA	NA	3320.74
	07/07/10	3368.32	58.98	47.52	47.78	0.26	Pump	0.25	9.75	3320.76
	07/07/10	3368.32	58.98	48.41	48.41	0.00	NA	NA	NA	3319.91
	07/14/10	3368.32	58.98	47.53	47.57	0.04	Pump	sheen	15	3320.78
	07/14/10	3368.32	58.98	48.79	48.79	0.00	NA	NA	NA	3319.53
	07/21/10	3368.32	58.98	47.56	47.62	0.06	<0.25	sheen	20	3320.75
	07/21/10	3368.32	58.98	48.64	48.64	0.00	NA	NA	NA	3319.68
	07/28/10	3368.32	58.98	47.55	47.62	0.07	Pump	<0.25	15	3320.76
	07/28/10	3368.32	58.98	48.36	48.36	0.00	NA	NA	NA	3319.96
	08/03/10	3368.32	58.98	47.55	47.56	0.01	Pump	sheen	10	3320.77
	08/03/10	3368.32	58.98	48.20	48.20	0.00	NA	NA	NA	3320.12
	08/11/10	3368.32	58.98	47.42	47.48	0.06	Pump	sheen	15	3320.89
	08/11/10	3368.32	58.98	48.63	48.63	0.00	NA	NA	NA	3319.69
	08/18/10	3368.32	58.98	47.55	47.61	0.06	Pump	sheen	15	3320.76
	08/18/10	3368.32	58.98	49.07	49.07	0.00	NA	NA	NA	3319.25
	08/25/10	3368.32	58.98	47.63	47.69	0.06	Pump	sheen	20	3320.68
	08/25/10	3368.32	58.98	48.34	48.34	0.00	NA	NA	NA	3319.98
	09/01/10	3368.32	58.98	47.44	47.49	0.05	Pump	sheen	20	3320.87

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Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-2	09/01/10	3368.32	58.98	48.35	48.35	0.00	NA	NA	NA	3319.97
	09/08/10	3368.32	58.98	47.47	47.51	0.04	Pump	sheen	15	3320.84
	09/08/10	3368.32	58.98	49.05	49.05	0.00	NA	NA	NA	3319.27
	09/15/10	3368.32	58.98	47.46	47.55	0.09	Pump	sheen	10	3320.85
	09/15/10	3368.32	58.98	48.96	48.96	0.00	NA	NA	NA	3319.36
	09/21/10	3368.32	58.98	47.40	47.43	0.03	Pump	sheen	20	3320.92
	09/21/10	3368.32	58.98	48.44	48.44	0.00	NA	NA	NA	3319.88
	10/01/10	3368.32	58.98	47.47	47.51	0.04	Pump	sheen	15	3320.84
	10/01/10	3368.32	58.98	48.80	48.80	0.00	NA	NA	NA	3319.52
	10/06/10	3368.32	58.98	47.44	47.45	0.01	Pump	sheen	20	3320.88
	10/06/10	3368.32	58.98	49.22	49.22	0.00	NA	NA	NA	3319.10
	10/13/10	3368.32	58.98	47.51	47.53	0.02	Pump	sheen	15	3320.81
	10/13/10	3368.32	58.98	49.05	49.05	0.00	NA	NA	NA	3319.27
	10/22/10	3368.32	58.98	47.31	47.34	0.03	Pump	sheen	20	3321.01
	10/22/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	10/27/10	3368.32	58.98	47.33	47.35	0.02	Pump	sheen	15	3320.99
	10/27/10	3368.32	58.98	47.37	47.37	0.00	NA	NA	NA	3320.95
	11/03/10	3368.32	58.98	47.28	47.40	0.12	Pump	sheen	15	3321.02
	11/03/10	3368.32	58.98	48.98	48.98	0.00	NA	NA	NA	3319.34
	11/10/10	3368.32	58.98	47.13	47.15	0.02	Pump	sheen	15	3321.19
	11/10/10	3368.32	58.98	48.33	48.33	0.00	NA	NA	NA	3319.99
	11/16/10	3398.32	58.98	47.23	47.25	0.02	NA	NA	NA	3351.09
	11/24/10	3398.32	58.98	47.17	47.19	0.02	pump	sheen	15	3351.15
	11/24/10	3398.32	58.98	48.15	48.15	0.00	NA	NA	NA	3350.17
	12/01/10	3398.32	58.98	47.12	47.13	0.01	pump	sheen	15	3351.20
	12/01/10	3398.32	58.98	47.84	47.84	0.00	NA	NA	NA	3350.48
	12/08/10	3398.32	58.98	47.19	47.20	0.01	pump	sheen	10	3351.13
	12/08/10	3398.32	58.98	48.65	48.65	0.00	NA	NA	NA	3349.67
	12/15/10	3398.32	58.98	46.98	46.99	0.01	pump	sheen	15	3351.34
	12/15/10	3398.32	58.98	48.18	48.18	0.00	NA	NA	NA	3350.14
	12/21/10	3398.32	58.98	47.11	47.12	0.01	pump	sheen	10	3351.21
	12/21/10	3398.32	58.98	48.81	48.81	0.00	NA	NA	NA	3349.51
RW-3	01/06/10	3369.05	59.57	48.00	48.04	0.04	Pump	sheen	15	3321.04
	01/06/10	3369.05	59.57	48.60	48.60	0.00	NA	NA	NA	3320.45
	01/13/10	3369.05	59.57	48.05	48.11	0.06	Pump	sheen	10	3320.99
	01/13/10	3369.05	59.57	48.85	48.85	0.00	NA	NA	NA	3320.20
	01/27/10	3369.05	59.57	47.99	48.04	0.05	NA	NA	NA	3321.05
	02/11/10	3369.05	59.57	47.90	47.99	0.09	Pump	sheen	15	3321.14
	02/11/10	3369.05	59.57	48.52	48.52	0.00	NA	NA	NA	3320.53
	02/17/10	3369.05	59.57	47.97	48.04	0.07	Pump	sheen	15	3321.07
	02/17/10	3369.05	59.57	49.72	49.72	0.00	NA	NA	NA	3319.33
	03/02/10	3369.05	59.57	47.95	47.96	0.01	NA	NA	NA	3321.10
	03/10/10	3369.05	59.57	47.83	47.94	0.11	Pump	sheen	10	3321.20
	03/10/10	3369.05	59.57	48.42	48.42	0.00	NA	NA	NA	3320.63
	03/17/10	3369.05	59.57	47.96	48.02	0.06	Pump	sheen	15	3321.08
	03/17/10	3369.05	59.57	49.10	49.10	0.00	NA	NA	NA	3319.95
	03/24/10	3369.05	59.57	47.90	47.95	0.05	Pump	sheen	25	3321.14
	03/24/10	3369.05	59.57	48.58	48.58	0.00	NA	NA	NA	3320.47
	03/31/10	3369.05	59.57	47.86	47.89	0.03	NA	NA	NA	3321.19
	04/07/10	3369.05	59.57	47.97	48.03	0.06	Pump	sheen	10	3321.07
	04/07/10	3369.05	59.57	48.23	48.23	0.00	NA	NA	NA	3320.82
	04/14/10	3369.05	59.57	47.90	47.95	0.05	NA	NA	NA	3321.14
	04/21/10	3369.05	59.57	47.77	47.82	0.05	NA	NA	NA	3321.27
	04/28/10	3369.05	59.57	47.90	47.98	0.08	Hand Bailed	sheen	10	3321.14
	04/28/10	3369.05	59.57	48.50	48.50	0.00	NA	NA	NA	3320.55
	05/05/10	3369.05	59.57	47.92	47.96	0.04	NA	NA	NA	3321.12
	05/11/10	3369.05	59.57	47.88	47.94	0.06	Pump	sheen	23	3321.16
	05/11/10	3369.05	59.57	48.93	48.93	0.00	NA	NA	NA	3320.12
	05/19/10	3369.05	59.57	47.90	47.92	0.02	Pump	sheen	10	3321.15
	05/19/10	3369.05	59.57	48.48	48.48	0.00	NA	NA	NA	3320.57
	05/29/10	3369.05	59.57	47.96	47.98	0.02	Pump	sheen	15	3321.09
	05/29/10	3369.05	59.57	48.70	48.70	0.00	NA	NA	NA	3320.35
	06/02/10	3369.05	59.57	47.92	47.94	0.02	NA	NA	NA	3321.13
	06/12/10	3369.05	59.57	48.00	48.03	0.03	NA	NA	NA	3321.05

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-3	06/15/10	3369.05	59.57	47.92	47.98	0.06	Pump	sheen	10	3321.12
	06/15/10	3369.05	59.57	49.13	49.13	0.00	NA	NA	NA	3319.92
	06/25/10	3369.05	59.57	48.00	48.04	0.04	NA	NA	NA	3321.04
	06/30/10	3369.05	59.57	48.03	48.09	0.06	NA	NA	NA	3321.01
	07/07/10	3369.05	59.57	48.02	48.06	0.04	NA	NA	NA	3321.02
	07/14/10	3369.05	59.57	47.96	48.06	0.10	NA	NA	NA	3321.08
	07/21/10	3369.05	59.57	48.00	48.10	0.10	NA	NA	NA	3321.04
	07/28/10	3369.05	59.57	48.01	48.11	0.10	NA	NA	NA	3321.03
	08/03/10	3369.05	59.57	47.99	48.12	0.13	Pump	sheen	10	3321.04
	08/03/10	3369.05	59.57	48.70	48.70	0.00	NA	NA	NA	3320.35
	08/11/10	3369.05	59.57	47.97	48.07	0.10	NA	NA	NA	3321.07
	08/18/10	3369.05	59.57	48.01	48.14	0.13	NA	NA	NA	3321.02
	08/25/10	3369.05	59.57	48.06	48.20	0.14	Pump	sheen	10	3320.97
	08/25/10	3369.05	59.57	48.52	48.52	0.00	NA	NA	NA	3320.53
	09/01/10	3369.05	59.57	47.88	47.94	0.06	Pump	sheen	10	3321.16
	09/01/10	3369.05	59.57	48.85	48.85	0.00	NA	NA	NA	3320.20
	09/08/10	3369.05	59.57	47.91	47.95	0.04	NA	NA	NA	3321.13
	09/15/10	3369.05	59.57	47.91	47.96	0.05	Pump	sheen	10	3321.13
	09/15/10	3369.05	59.57	49.10	49.10	0.00	NA	NA	NA	3319.95
	09/21/10	3369.05	59.57	47.87	47.88	0.01	NA	NA	NA	3321.18
	10/01/10	3369.05	59.57	47.92	47.96	0.04	NA	NA	NA	3321.12
	10/06/10	3369.05	59.57	47.88	47.91	0.03	NA	NA	NA	3321.17
	10/13/10	3369.05	59.57	47.93	47.98	0.05	Pump	sheen	20	3321.11
	10/13/10	3369.05	59.57	49.42	49.42	0.00	NA	NA	NA	3319.63
	10/22/10	3369.05	59.57	47.75	47.77	0.02	NA	NA	NA	3321.30
	10/27/10	3369.05	59.57	47.75	47.78	0.03	NA	NA	NA	3321.30
	11/03/10	3369.05	59.57	47.81	47.82	0.01	Pump	sheen	10	3321.24
	11/03/10	3369.05	59.57	48.41	48.41	0.00	NA	NA	NA	3320.64
	11/10/10	3369.05	59.57	47.59	47.60	0.01	NA	NA	NA	3321.46
	11/16/10	3369.05	59.57	47.67	47.68	0.01	NA	NA	NA	3321.38
	11/24/10	3369.05	59.57	47.61	47.62	0.01	NA	NA	NA	3321.44
	12/01/10	3369.05	59.57	47.55	47.56	0.01	pump	sheen	10	3321.50
	12/01/10	3369.05	59.57	48.19	48.19	0.00	NA	NA	NA	3320.86
	12/08/10	3369.05	59.57	47.62	47.63	0.01	pump	sheen	10	3321.43
	12/08/10	3369.05	59.57	48.33	48.33	0.00	NA	NA	NA	3320.72
	12/15/10	3369.05	59.57	47.43	47.44	0.01	pump	sheen	10	3321.62
	12/15/10	3369.05	59.57	48.05	48.05	0.00	NA	NA	NA	3321.00
	12/21/10	3369.05	59.57	47.55	47.56	0.01	NA	NA	NA	3321.50
RW-4	01/27/10	Well not surveyed	57.63	46.69	46.85	0.16	NA	NA	24	Well not surveyed
	02/11/10		57.63	46.55	47.15	0.60	Pump	5.5	19.5	
	02/11/10		57.63	47.66	47.66	0.00	NA	NA	NA	
	02/17/10		57.63	46.73	46.73	0.00	Pump	sheen	25	
	02/17/10		57.63	48.13	48.13	0.00	NA	NA	NA	
	03/02/10		57.63	46.65	46.66	0.01	Pump	sheen	15	
	03/02/10		57.63	47.30	47.30	0.00	NA	NA	NA	
	03/10/10		57.63	47.56	47.56	0.00	Pump	0.25	19.75	
	03/10/10		57.63	47.91	47.91	0.00	NA	NA	NA	
	03/17/10		57.63	46.71	46.77	0.06	Pump	sheen	20	
	03/17/10		57.63	47.96	47.96	0.00	NA	NA	NA	
	03/24/10		57.63	46.63	46.64	0.01	Pump	sheen	20	
	03/24/10		57.63	48.02	48.02	0.00	NA	NA	NA	
	03/31/10		57.63	46.60	46.61	0.01	Pump	sheen	30	
	03/31/10		57.63	47.31	47.31	0.00	NA	NA	NA	
	04/07/10		57.63	46.70	46.70	0.00	Pump	sheen	20	
	04/07/10		57.63	47.98	47.98	0.00	NA	NA	NA	
	04/14/10		57.63	46.63	46.64	0.01	Pump	sheen	20	
	04/14/10		57.63	47.22	47.22	0.00	NA	NA	NA	
	04/21/10		57.63	46.48	46.48	0.00	Pump	sheen	15	
	04/21/10		57.63	48.50	48.50	0.00	NA	NA	NA	
	04/28/10		57.63	46.60	46.62	0.02	Pump	sheen	25	
	04/28/10		57.63	48.43	48.43	0.00	NA	NA	NA	
	05/05/10		57.63	46.61	46.62	0.01	NA	NA	NA	
	05/11/10		57.63	46.60	46.60	0.00	Pump	sheen	22	
	05/11/10		57.63	47.63	47.65	0.02	NA	NA	NA	

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GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-4	05/19/10	Well not surveyed	57.63	46.61	46.65	0.04	Pump	sheen	20	Well not surveyed
	05/19/10		57.63	47.23	47.23	0.00	NA	NA	NA	
	05/29/10		57.63	46.65	46.67	0.02	Pump	sheen	15	
	05/29/10		57.63	48.60	48.60	0.00	NA	NA	NA	
	06/02/10		57.63	47.62	47.62	0.00	Pump	sheen	20	
	06/02/10		57.63	49.10	49.10	0.00	NA	NA	NA	
	06/12/10		57.63	46.70	46.71	0.01	Pump	<0.25	20	
	06/12/10		57.63	47.81	47.81	0.00	NA	NA	NA	
	06/15/10		57.63	46.69	46.70	0.01	Pump	<0.25	20	
	06/15/10		57.63	49.20	49.20	0.00	NA	NA	NA	
	06/25/10		57.63	46.72	46.72	0.00	Pump	sheen	20	
	06/25/10		57.63	47.70	47.70	0.00	NA	NA	NA	
	06/30/10		57.63	46.76	46.76	0.00	NA	NA	NA	
	07/07/10		57.63	46.73	46.74	0.01	Pump	sheen	20	
	07/07/10		57.63	48.39	48.39	0.00	NA	NA	NA	
	07/14/10		57.63	46.70	46.70	0.00	NA	NA	NA	
	07/21/10		57.63	46.71	46.72	0.01	Pump	sheen	15	
	07/21/10		57.63	49.33	49.33	0.00	NA	NA	NA	
	07/28/10		57.63	46.71	46.71	0.00	NA	NA	NA	
	08/03/10		57.63	46.70	46.70	0.00	NA	NA	NA	
	08/11/10		57.63	46.72	46.72	0.00	Pump	sheen	20	
	08/11/10		57.63	47.64	47.64	0.00	NA	NA	NA	
	08/18/10		57.63	46.72	46.73	0.01	NA	NA	NA	
	08/25/10		57.63	46.78	46.79	0.01	Pump	sheen	20	
	08/25/10		57.63	46.72	46.73	0.01	NA	NA	NA	
	09/01/10		57.63	46.61	46.61	0.00	Pump	sheen	20	
	09/01/10		57.63	48.90	48.90	0.00	NA	NA	NA	
	09/08/10		57.63	46.64	46.65	0.01	Pump	sheen	20	
	09/08/10		57.63	48.20	48.20	0.00	NA	NA	NA	
	09/15/10		57.63	46.62	46.63	0.01	Pump	sheen	30	
	09/15/10		57.63	48.05	48.05	0.00	NA	NA	NA	
	09/21/10		57.63	46.56	46.57	0.01	Pump	sheen	20	
	09/21/10		57.63	47.95	47.95	0.00	NA	NA	NA	
	10/01/10		57.63	46.63	46.64	0.01	Pump	sheen	15	
	10/01/10		57.63	49.33	49.33	0.00	NA	NA	NA	
	10/06/10		57.63	46.60	46.60	0.00	Pump	sheen	10	
	10/06/10		57.63	48.10	48.10	0.00	NA	NA	NA	
	10/13/10		57.63	46.65	46.67	0.02	Pump	sheen	20	
	10/13/10		57.63	48.01	48.01	0.00	NA	NA	NA	
	10/22/10		57.63	46.46	46.47	0.01	NA	NA	NA	
	10/27/10		57.63	46.48	46.52	0.04	Pump	sheen	20	
	10/27/10		57.63	48.12	48.12	0.00	NA	NA	NA	
	11/03/10		57.63	46.52	46.53	0.01	Pump	sheen	10	
	11/03/10		57.63	47.30	47.30	0.00	NA	NA	NA	
	11/10/10		57.63	46.31	46.31	0.00	NA	NA	NA	
	11/16/10		57.63	46.39	46.39	0.00	pump	sheen	10	
	11/16/10		57.63	48.44	48.44	0.00	NA	NA	NA	
	11/24/10		57.63	46.33	46.34	0.01	pump	sheen	20	
	11/24/10		57.63	48.05	48.05	0.00	NA	NA	NA	
	12/01/10		57.63	46.26	46.26	0.00	NA	NA	NA	
	12/08/10		57.63	46.34	46.35	0.01	pump	sheen	10	
	12/08/10		57.63	48.16	48.16	0.00	NA	NA	NA	
	12/15/10		57.63	46.14	46.15	0.01	pump	sheen	10	
	12/15/10		57.63	47.85	47.85	0.00	NA	NA	NA	
	12/21/10		57.63	46.28	46.30	0.02	pump	sheen	15	
	12/21/10		57.63	48.04	48.04	0.00	NA	NA	NA	
RW-5	01/27/10	Well not surveyed	59.73	47.58	47.59	0.01	NA	NA	21.5	Well not surveyed
	02/11/10		59.73	47.50	47.56	0.06	Pump	sheen	10	
	02/11/10		59.73	50.80	50.80	0.00	NA	NA	NA	
	02/17/10		59.73	47.55	47.64	0.09	Pump	sheen	10	
	02/17/10		59.73	49.18	49.18	0.00	NA	NA	NA	
	03/02/10		59.73	47.50	47.51	0.01	Pump	sheen	10	
	03/02/10		59.73	49.36	49.36	0.00	NA	NA	NA	
	03/02/10		59.73	47.39	47.40	0.01	Pump	sheen	10	
	03/02/10		59.73	49.02	49.02	0.00	NA	NA	NA	

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Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-5	03/17/10	Well not surveyed	59.73	47.52	47.65	0.13	Pump	sheen	15	Well not surveyed
	03/17/10		59.73	49.62	49.62	0.00	NA	NA	NA	
	03/24/10		59.73	47.46	47.58	0.12	Pump	sheen	10	
	03/24/10		59.73	49.42	49.42	0.00	NA	NA	NA	
	03/31/10		59.73	47.40	47.50	0.10	Pump	sheen	15	
	03/31/10		59.73	49.13	49.13	0.00	NA	NA	NA	
	04/07/10		59.73	47.51	47.59	0.08	Pump	sheen	10	
	04/07/10		59.73	49.14	49.14	0.00	NA	NA	NA	
	04/14/10		59.73	47.35	47.59	0.24	Pump	sheen	10	
	04/14/10		59.73	49.30	49.30	0.00	NA	NA	NA	
	04/21/10		59.73	47.35	47.45	0.10	Pump	sheen	15	
	04/21/10		59.73	50.57	50.57	0.00	NA	NA	NA	
	04/28/10		59.73	47.46	47.56	0.10	Pump	sheen	10	
	04/28/10		59.73	48.76	48.76	0.00	NA	NA	NA	
	05/05/10		59.73	47.44	47.63	0.19	NA	NA	NA	
	05/11/10		59.73	47.38	47.68	0.30	Pump	sheen	24	
	05/11/10		59.73	51.75	51.75	0.00	NA	NA	NA	
	05/19/10		59.73	47.45	47.67	0.22	Pump	<0.25	9.75	
	05/19/10		59.73	49.09	49.09	0.00	NA	NA	NA	
	05/29/10		59.73	47.48	47.77	0.29	Pump	<0.25	9.75	
	05/29/10		59.73	50.00	50.00	0.00	NA	NA	NA	
	06/02/10		59.73	47.46	47.63	0.17	Pump	sheen	15	
	06/02/10		59.73	49.65	49.65	0.00	NA	NA	NA	
	06/12/10		59.73	47.52	47.63	0.11	Pump	<0.25	10	
	06/12/10		59.73	50.50	50.50	0.00	NA	NA	NA	
	06/15/10		59.73	47.48	47.68	0.20	Pump	<0.25	15	
	06/15/10		59.73	52.40	52.40	0.00	NA	NA	NA	
	06/25/10		59.73	47.52	47.83	0.31	Pump	sheen	20	
	06/25/10		59.73	49.94	49.94	0.00	NA	NA	NA	
	06/30/10		59.73	47.55	47.80	0.25	NA	NA	NA	
	07/07/10		59.73	47.53	47.92	0.39	Pump	<0.25	10	
	07/07/10		59.73	51.20	51.20	0.00	NA	NA	NA	
	07/14/10		59.73	47.52	47.80	0.28	Pump	sheen	10	
	07/14/10		59.73	49.44	49.44	0.00	NA	NA	NA	
	07/21/10		59.73	47.53	47.80	0.27	Pump	<0.25	10	
	07/21/10		59.73	49.45	49.45	0.00	NA	NA	NA	
	07/28/10		59.73	47.52	47.80	0.28	Pump	<0.25	10	
	07/28/10		59.73	50.16	50.16	0.00	NA	NA	NA	
	08/03/10		59.73	47.52	47.76	0.24	Pump	sheen	10	
	08/03/10		59.73	49.20	49.20	0.00	NA	NA	NA	
	08/11/10		59.73	48.59	48.89	0.30	Pump	sheen	10	
	08/11/10		59.73	50.08	50.08	0.00	NA	NA	NA	
	08/18/10		59.73	47.54	47.80	0.26	Pump	<0.25	10	
	08/18/10		59.73	51.48	51.48	0.00	NA	NA	NA	
	08/25/10		59.73	47.54	47.80	0.26	Pump	sheen	10	
	08/25/10		59.73	51.48	51.48	0.00	NA	NA	NA	
	09/01/10		59.73	47.43	47.63	0.20	Pump	<0.25	10	
	09/01/10		59.73	49.34	49.34	0.00	NA	NA	NA	
	09/08/10		59.73	47.46	47.67	0.21	Pump	sheen	10	
	09/08/10		59.73	49.61	49.61	0.00	NA	NA	NA	
	09/15/10		59.73	47.44	47.69	0.25	Pump	sheen	10	
	09/15/10		59.73	49.59	49.59	0.00	NA	NA	NA	
	09/21/10		59.73	47.40	47.57	0.17	Pump	sheen	20	
	09/21/10		59.73	49.30	49.30	0.00	NA	NA	NA	
	10/01/10		59.73	47.44	47.44	0.00	Pump	sheen	10	
	10/01/10		59.73	50.25	50.25	0.00	NA	NA	NA	
	10/06/10		59.73	47.45	47.45	0.00	Pump	sheen	10	
	10/06/10		59.73	49.60	49.60	0.00	NA	NA	NA	
	10/13/10		59.73	47.48	47.71	0.23	Pump	sheen	10	
	10/13/10		59.73	49.00	49.00	0.00	NA	NA	NA	
	10/22/10		59.73	47.29	47.47	0.18	Pump	sheen	15	
	10/22/10		59.73	49.81	49.81	0.00	NA	NA	NA	
	10/27/10		59.73	47.33	47.45	0.12	Pump	sheen	20	
	10/27/10		59.73	48.95	48.95	0.00	NA	NA	NA	
	11/03/10		59.73	47.35	47.58	0.23	Pump	sheen	10	

TABLE 1
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-5	11/03/10	Well not surveyed	59.73	49.21	49.21	0.00	NA	NA	NA	Well not surveyed
	11/10/10		59.73	47.13	47.26	0.13	Pump	sheen	10	
	11/10/10		59.73	49.40	49.40	0.00	NA	NA	NA	
	11/16/10		59.73	47.23	47.33	0.10	pump	sheen	10	
	11/16/10		59.73	49.42	49.42	0.00	NA	NA	NA	
	11/24/10		59.73	47.16	47.28	0.12	pump	<.25	10	
	11/24/10		59.73	49.50	49.50	0.00	NA	NA	NA	
	12/01/10		59.73	47.11	47.20	0.09	pump	sheen	10	
	12/01/10		59.73	49.45	49.45	0.00	NA	NA	NA	
	12/08/10		59.73	47.18	47.30	0.12	pump	sheen	10	
	12/08/10		59.73	48.67	48.67	0.00	NA	NA	NA	
	12/15/10		59.73	46.99	47.08	0.09	pump	sheen	10	
	12/15/10		59.73	49.52	49.52	0.00	NA	NA	NA	
	12/21/10		59.73	47.10	47.18	0.08	pump	sheen	10	
	12/21/10		59.73	48.29	48.29	0.00	NA	NA	NA	

NA: Not Applicable
NG: Not Gauged
ND: Not Detected

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	09/14/05	3362.64	NG	36.42	36.42	0.00	Installed Sock	NA	NA	3326.22
	09/20/05	3362.64	46.81	40.37	40.37	0.00	Flip Sock	NA	NA	3322.27
	09/21/05	3362.64	NG	41.00	41.02	0.02	New Sock	NA	NA	3321.64
	10/05/05	3362.64	NG	41.00	41.15	0.15	Flip Sock	NA	NA	3321.62
	10/27/05	3362.64	NG	41.23	41.24	0.01	New Sock	NA	NA	3321.41
	11/10/05	3362.64	NG	41.22	41.23	0.01	Flip Sock	NA	NA	3321.42
	12/21/05	3362.64	NG	40.95	40.95	0.00	New Sock	NA	NA	3321.69
	12/29/05	3362.64	NG	40.77	40.77	0.00	Flip Sock	NA	NA	3321.87
	01/05/06	3362.64	NG	41.03	41.05	0.02	New Sock	NA	NA	3321.61
	02/09/06	3362.64	NG	40.87	40.88	0.01	New Sock	NA	NA	3321.77
	02/22/06	3362.64	NG	40.77	40.78	0.01	Flip Sock	NA	NA	3321.87
	03/28/06	3362.64	NG	41.23	41.23	0.00	Sock	NA	NA	3321.41
	04/13/06	3362.64	NG	41.40	41.40	0.00	New Sock	NA	NA	3321.24
	04/25/06	3362.64	NG	41.30	41.30	0.00	Flip Sock	NA	NA	3321.34
	05/11/06	3362.64	NG	41.55	41.55	0.00	New Sock	NA	NA	3321.09
	05/24/06	3362.64	NG	41.20	41.20	0.00	New Sock	NA	NA	3321.44
	06/07/06	3362.64	NG	41.77	41.77	0.00	New Sock	NA	NA	3320.87
	06/07/06	3362.64	NG	41.63	41.63	0.00	New Sock	NA	NA	3321.01
	06/15/06	3362.64	NG	41.50	41.50	0.00	New Sock	NA	NA	3321.14
	06/29/06	3362.64	NG	41.73	42.18	0.45	New Sock	NA	NA	3320.84
	06/29/06	3362.64	NG	41.95	41.97	0.02	New Sock	NA	NA	3320.69
	07/11/06	3362.64	NG	41.82	42.03	0.21	Flip Sock	NA	NA	3320.79
	07/25/06	3362.64	NG	42.41	42.60	0.19	New Sock	NA	NA	3320.20
	08/09/06	3362.64	48.75	41.95	42.76	0.81	Sock	NA	NA	3320.57
	08/09/06	3362.64	NG	45.50	45.50	0.00	Flip Sock	NA	NA	3317.14
	09/12/06	3362.64	48.93	41.92	43.92	2.00	Removed Sock	NA	NA	3320.42
	09/19/06	3362.64	NG	41.45	43.35	1.90	Hand Bailed	3	7	3320.91
	09/19/06	3362.64	NG	46.50	46.55	0.05	NA	NA	NA	3316.13
	10/03/06	3362.64	NG	41.52	42.53	1.01	Hand Bailed	1.5	7	3320.97
	10/03/06	3362.64	NG	48.35	48.37	0.02	No Sock	NA	NA	3314.29
	10/17/06	3362.64	NG	48.43	49.43	1.00	Hand Bailed	1.5	3.5	3314.06
	10/17/06	3362.64	NG	54.20	54.21	0.01	No Sock	NA	NA	3308.44
	10/31/06	3362.64	NG	48.48	49.56	1.08	Hand Bailed	1.5	3.5	3314.00
	10/31/06	3362.64	NG	51.77	51.85	0.08	No Sock	NA	NA	3310.86
	11/15/06	3362.64	NG	48.50	49.51	1.01	Hand Bailed	1	9	3313.99
	11/15/06	3362.64	NG	51.40	51.55	0.15	No Sock	NA	NA	3311.22
	12/06/06	3362.64	NG	48.35	49.62	1.27	Hand Bailed	1	9	3314.10
	12/13/06	3362.64	NG	48.32	49.68	1.36	Hand Bailed	1.5	3.5	3314.12
	12/13/06	3362.64	NG	52.09	52.11	0.02	No Sock	NA	NA	3310.55
	12/20/06	3362.64	NG	48.08	49.62	1.54	Hand Bailed	1.5	6.5	3314.33
	12/20/06	3362.64	NG	53.00	53.06	0.06	No Sock	NA	NA	3309.63
	12/27/06	3362.64	NG	48.25	49.11	0.86	Hand Bailed	1	4	3314.26
	12/27/06	3362.64	NG	52.28	52.31	0.03	No Sock	NA	NA	3310.36
	01/03/07	3362.64	NG	48.28	49.12	0.84	Hand Bailed	1.5	8.5	3314.23
	01/03/07	3362.64	NG	53.62	53.65	0.03	No Sock	NA	NA	3309.02
	01/09/07	3362.64	NG	47.81	49.12	1.31	Hand Bailed	1.25	8.5	3314.63
	01/09/07	3362.64	NG	53.49	53.51	0.02	No Sock	NA	NA	3309.15
	01/18/07	3362.64	NG	48.26	49.12	0.86	Hand Bailed	1.5	8.5	3314.25
	01/18/07	3362.64	NG	52.30	52.34	0.04	No Sock	NA	NA	3310.33
	01/25/07	3362.64	NG	48.16	48.82	0.66	Hand Bailed	1	5	3314.38
	01/25/07	3362.64	NG	52.20	52.25	0.05	No Sock	NA	NA	3310.43
	01/31/07	3362.64	NG	48.03	48.53	0.50	Hand Bailed	0.25	5.5	3314.54
	01/31/07	3362.64	NG	DRY	DRY	DRY	No Sock	NA	NA	DRY
	02/07/07	3362.64	NG	48.10	48.64	0.54	Hand Bailed	0.25	6	3314.46
	02/07/07	3362.64	NG	DRY	DRY	DRY	No Sock	NA	NA	DRY
	02/14/07	3362.64	NG	48.14	48.69	0.55	Hand Bailed	0.25	7	3314.42
	02/14/07	3362.64	NG	DRY	DRY	DRY	No Sock	NA	NA	DRY
	02/21/07	3362.64	NG	48.15	49.05	0.90	Hand Bailed	0.75	9	3314.36
	02/21/07	3362.64	NG	DRY	DRY	DRY	No Sock	NA	NA	DRY
	03/07/07	3362.64	NG	48.09	49.28	1.19	Hand Bailed	2	5.5	3314.37
	03/07/07	3362.64	NG	52.80	52.85	0.05	No Sock	Dry	NA	3309.83
	03/14/07	3362.64	NG	48.16	48.84	0.68	Hand Bailed	0.75	2.25	3314.38
	03/14/07	3362.64	NG	50.50	50.54	0.04	No Sock	NA	NA	3312.13
	03/21/07	3362.64	NG	48.24	48.30	0.06	Hand Bailed	0.5	1.5	3314.39
	03/21/07	3362.64	NG	49.65	49.69	0.04	No Sock	NA	NA	3312.98
	03/28/07	3362.64	NG	48.06	49.14	1.08	Hand Bailed	1.5	1.5	3314.42
	03/28/07	3362.64	NG	50.80	50.86	0.06	No Sock	NA	NA	3311.83
	04/04/07	3362.64	NG	48.32	49.08	0.76	NA	NA	NA	3314.21
	04/10/07	3362.64	NG	48.06	49.06	1.00	Hand Bailed	1	4	3314.43
	04/10/07	3362.64	NG	50.72	50.76	0.04	No Sock	NA	NA	3311.91
	04/18/07	3362.64	NG	48.10	49.58	1.48	Hand Bailed	1.75	8	3314.32
	04/18/07	3362.64	NG	50.68	50.76	0.08	No Sock	NA	NA	3311.95
	04/24/07	3362.64	NG	48.10	49.64	1.54	Hand Bailed	1.75	8	3314.31
	04/24/07	3362.64	NG	50.60	50.68	0.08	No Sock	NA	NA	3312.03
	05/03/07	3362.64	NG	48.04	48.84	0.80	Hand Bailed	1	7	3314.48
	05/03/07	3362.64	NG	53.03	53.05	0.02	No Sock	NA	NA	3309.61
	05/11/07	3362.64	NG	48.13	48.66	0.53	Hand Bailed	0.5	6	3314.43
	05/11/07	3362.64	NG	53.08	53.10	0.02	No Sock	NA	NA	3309.56
	05/16/07	3362.64	NG	48.13	48.61	0.48	Hand Bailed	0.5	7	3314.44
	05/16/07	3362.64	NG	53.02	53.02	0.00	No Sock	NA	NA	3309.62

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery: PSH (gallons)	Recovery: Water (gallons)	Corrected Groundwater Elevation (ft)
MW-1	05/23/07	3362.64	NG	48.00	48.23	0.23	Hand Bailed	0.25	7	3314.61
	05/23/07	3362.64	NG	52.85	52.87	0.02	Installed Sock	NA	NA	3309.79
	05/31/07	3362.64	NG	48.15	48.28	0.13	New Sock	NA	NA	3314.47
	06/06/07	3362.64	55.67	48.04	48.06	0.02	Hand Bailed	Sheen	7.5	3314.60
	06/06/07	3362.64	55.67	52.81	52.81	0.00	Sock	NA	NA	3309.83
	06/13/07	3362.64	55.67	48.30	48.32	0.02	Hand Bailed	Sheen	7.5	3314.34
	06/13/07	3362.64	55.67	53.08	53.08	0.00	New Sock	NA	NA	3309.56
	06/19/07	3362.64	55.67	48.31	48.31	0.00	Hand Bailed	Sheen	8	3314.33
	06/19/07	3362.64	55.67	51.76	51.76	0.00	New Sock	NA	NA	3310.88
	06/27/07	3362.64	55.67	48.37	48.39	0.02	Hand Bailed	NA	NA	3314.27
	06/27/07	3362.64	55.67	51.80	51.80	0.00	New Sock	Sheen	8	3310.84
	07/05/07	3362.64	55.65	48.45	48.81	0.36	Hand Bailed	0.75	6.5	3314.14
	07/05/07	3362.64	55.65	53.69	53.69	0.00	New Sock	NA	NA	3308.95
	07/11/07	3362.64	55.65	48.45	48.45	0.00	Hand Bailed	Sheen	7.5	3314.19
	07/11/07	3362.64	55.65	51.84	51.84	0.00	New Sock	NA	NA	3310.80
	07/19/07	3362.64	55.65	49.05	49.25	0.20	Hand Bailed	0.5	6.5	3313.56
	07/19/07	3362.64	55.65	52.56	52.56	0.00	New Sock	NA	NA	3310.08
	07/24/07	3362.64	55.65	49.07	49.07	0.00	Hand Bailed	5	7.5	3313.57
	07/24/07	3362.64	55.65	52.50	52.50	0.00	Removed Sock	NA	NA	3310.14
	07/31/07	3362.64	55.68	49.12	49.12	0.00	Hand Bailed	Sheen	7.5	3313.52
	07/31/07	3362.64	55.68	52.63	52.63	0.00	Installed Sock	NA	NA	3310.01
	08/09/07	3362.64	55.68	48.96	48.96	0.00	Hand Bailed	Sheen	7.5	3313.68
	08/09/07	3362.64	55.68	52.61	52.61	0.00	New Sock	NA	NA	3310.03
	08/16/07	3362.64	55.68	48.94	48.94	0.00	Hand Bailed	Sheen	7.5	3313.70
	08/16/07	3362.64	55.68	52.48	52.48	0.00	New Sock	NA	NA	3310.16
	08/22/07	3362.64	55.68	48.85	48.85	0.00	Hand Bailed	Sheen	7.5	3313.79
	08/22/07	3362.64	55.68	52.38	52.38	0.00	New Sock	NA	NA	3310.26
	08/28/07	3362.64	55.68	49.08	49.12	0.04	Hand Bailed	Sheen	7.5	3313.55
	08/28/07	3362.64	55.68	52.98	52.98	0.00	New Sock	NA	NA	3309.66
	09/07/07	3362.64	55.68	49.16	49.16	0.00	NA	NA	NA	3313.48
	09/13/07	3362.64	55.68	48.80	49.14	0.34	Hand Bailed	5	7.5	3313.79
	09/13/07	3362.64	55.68	52.75	52.76	0.01	New Sock	NA	NA	3309.89
	09/18/07	3362.64	55.68	48.76	48.80	0.04	Hand Bailed	0.1	7.5	3313.87
	09/18/07	3362.64	55.68	52.68	52.68	0.00	New Sock	NA	NA	3309.96
	09/26/07	3362.64	55.68	48.90	48.90	0.00	Hand Bailed	Sheen	7.5	3313.74
	09/26/07	3362.64	55.68	52.70	52.70	0.00	New Sock	NA	NA	3309.94
	10/04/07	3362.64	55.68	48.95	48.95	0.00	Hand Bailed	Sheen	7.5	3313.69
	10/04/07	3362.64	55.68	52.62	52.62	0.00	New Sock	NA	NA	3310.02
	10/10/07	3362.64	55.69	49.00	49.03	0.03	Hand Bailed	Sheen	7.5	3313.64
	10/10/07	3362.64	55.69	52.81	52.81	0.00	New Sock	NA	NA	3309.83
	10/17/07	3362.64	55.69	49.04	49.04	0.00	Hand Bailed	Sheen	7.5	3313.60
	10/17/07	3362.64	55.69	52.79	52.79	0.00	Sock	NA	NA	3309.85
	10/24/07	3362.64	55.69	48.76	49.68	0.92	Hand Bailed	1	30	3313.74
	10/24/07	3362.64	55.69	49.38	49.39	0.01	New Sock	NA	NA	3313.26
	10/31/07	3362.64	55.69	48.65	48.90	0.25	Hand Bailed	1	30	3313.95
	10/31/07	3362.64	55.69	DRY	DRY	DRY	New Sock	NA	NA	DRY
	11/07/07	3362.64	55.69	48.82	48.95	0.13	Hand Bailed	1	30	3313.80
	11/07/07	3362.64	55.69	DRY	DRY	DRY	Sock	NA	NA	DRY
	11/20/07	3362.64	55.69	48.60	49.70	1.10	Sock	NA	NA	3313.88
	11/27/07	3362.64	55.69	48.56	49.69	1.13	Hand Bailed	1	8	3313.91
	11/27/07	3362.64	55.69	DRY	DRY	DRY	New Sock	NA	NA	DRY
	12/05/07	3362.64	55.69	48.61	49.66	1.05	Hand Bailed	1	8	3313.87
	12/05/07	3362.64	55.69	DRY	DRY	DRY	Removed Sock	NA	NA	DRY
	12/12/07	3362.64	55.69	48.72	49.60	0.88	Hand Bailed	1	8	3313.79
	12/12/07	3362.64	55.69	DRY	DRY	DRY	No Sock	NA	NA	DRY
	12/18/07	3362.64	55.69	48.20	48.97	0.77	Hand Bailed	1	9	3314.32
	12/18/07	3362.64	55.69	DRY	DRY	DRY	No Sock	NA	NA	DRY
	12/28/07	3362.64	55.69	48.00	48.55	0.55	Hand Bailed	0.75	8	3314.56
	12/28/07	3362.64	55.69	DRY	DRY	DRY	No Sock	NA	NA	DRY
	01/03/08	3362.64	55.69	48.21	48.61	0.40	Hand Bailed	0.5	8	3314.37
	01/03/08	3362.64	55.69	53.81	53.81	0.00	No Sock	NA	NA	3308.83
	01/09/08	3362.64	55.69	48.05	49.10	1.05	Hand Bailed	0.75	9	3314.43
	01/09/08	3362.64	55.69	55.18	55.18	0.00	No Sock	NA	NA	3307.46
	01/17/08	3362.64	58.55	46.91	46.91	0.00	Hand Bailed	0	10	3315.73
	01/17/08	3362.64	58.55	46.83	46.83	0.00	New Sock	NA	NA	3315.81
	01/23/08	3362.64	55.69	48.22	48.52	0.30	NA	0.75	9	3314.38
	01/23/08	3362.64	55.69	50.54	50.56	0.02	No Sock	NA	NA	3312.10
	01/30/08	3362.64	55.69	48.08	48.27	0.19	NA	0.5	19	3314.53
	01/30/08	3362.64	55.69	50.06	50.06	0.00	No Sock	NA	NA	3312.58
	02/06/08	3362.64	55.69	48.18	48.40	0.22	NA	0.5	19	3314.43
	02/06/08	3362.64	55.69	50.75	50.75	0.00	No Sock	NA	NA	3311.89
	02/13/08	3362.64	55.69	48.11	48.25	0.14	NA	Sheen	15	3314.51
	02/13/08	3362.64	55.69	50.00	50.00	0.00	No Sock	NA	NA	3312.64
	02/19/08	3362.64	55.69	48.15	48.33	0.18	NA	Sheen	20	3314.46
	02/19/08	3362.64	55.69	51.15	51.15	0.00	Installed Sock	NA	NA	3311.49
	02/27/08	3362.64	55.69	48.53	48.56	0.03	NA	Sheen	20	3314.11
	02/27/08	3362.64	55.69	49.51	49.51	0.00	Flip Sock	NA	NA	3313.13
	03/04/08	3362.64	55.69	48.50	48.55	0.05	NA	0.25	20	3314.13

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	03/04/08	3362.64	55.69	52.46	52.46	0.00	New Sock	NA	NA	3310.18
	03/12/08	3362.64	55.69	48.34	48.38	0.04	NA	1	20	3314.29
	03/12/08	3362.64	55.69	52.00	52.00	0.00	New Sock	NA	NA	3310.64
	03/19/08	3362.64	55.69	48.57	48.59	0.02	NA	0.25	19	3314.07
	03/19/08	3362.64	55.69	52.54	52.54	0.00	New Sock	NA	NA	3310.10
	03/26/08	3362.64	55.69	48.46	48.55	0.09	Hand Bailed	0.25	19	3314.17
	03/26/08	3362.64	55.69	51.60	51.60	0.00	Flip Sock	NA	NA	3311.04
	04/02/08	3362.64	55.69	48.53	48.68	0.15	NA	0.25	19	3314.09
	04/02/08	3362.64	55.69	50.18	50.18	0.00	New Sock	NA	NA	3312.46
	04/09/08	3362.64	55.69	48.32	48.35	0.03	NA	0.25	19	3314.32
	04/09/08	3362.64	55.69	51.23	51.23	0.00	Flip Sock	NA	NA	3311.41
	04/16/08	3362.64	55.69	48.34	48.37	0.03	NA	0.25	19	3314.30
	04/16/08	3362.64	55.69	50.96	50.96	0.00	Sock	NA	NA	3311.68
	04/24/08	3362.64	55.69	48.38	48.85	0.47	NA	NA	NA	3314.19
	04/30/08	3362.64	55.69	48.22	48.75	0.53	NA	0.25	19	3314.34
	04/30/08	3362.64	55.69	53.98	53.98	0.00	Sock	NA	NA	3308.66
	05/07/08	3362.64	55.69	48.25	48.81	0.56	NA	0.5	19	3314.31
	05/07/08	3362.64	55.69	52.61	52.61	0.00	Sock	NA	NA	3310.03
	05/14/08	3362.64	55.69	48.27	48.90	0.63	NA	0.5	19	3314.28
	05/14/08	3362.64	55.69	52.00	52.00	0.00	New Sock	NA	NA	3310.64
	05/20/08	3362.64	55.69	48.80	49.21	0.41	NA	0.5	13	3313.78
	05/20/08	3362.64	55.69	52.31	52.31	0.00	New Sock	NA	NA	3310.33
	05/22/08	3362.64	55.71	49.25	49.25	0.00	NA	0	13	3313.39
	05/28/08	3362.64	55.71	49.23	49.23	0.00	NA	0	20	3313.41
	05/28/08	3362.64	55.71	51.62	51.62	0.00	NA	NA	NA	3311.02
	06/04/08	3362.64	55.71	49.27	49.27	0.00	NA	0	20	3313.37
	06/04/08	3362.64	55.71	51.50	51.50	0.00	New Sock	NA	NA	3311.14
	06/11/08	3362.64	55.71	49.30	49.30	0.00	NA	0	20	3313.34
	06/11/08	3362.64	55.71	51.31	51.31	0.00	New Sock	NA	NA	3311.33
	06/18/08	3362.64	55.71	49.35	49.36	0.01	New Sock	NA	NA	3313.29
	06/18/08	3362.64	55.71	50.89	50.89	0.00	NA	0	20	3311.75
	06/26/08	3362.64	55.71	49.40	49.40	0.00	New Sock	0	20	3313.24
	06/26/08	3362.64	55.71	50.27	50.27	0.00	NA	NA	NA	3312.37
	07/02/08	3362.64	55.71	49.38	49.38	0.00	New Sock	0	20	3313.26
	07/02/08	3362.64	55.71	50.67	50.67	0.00	NA	NA	NA	3311.97
	07/07/08	3362.64	55.71	49.31	49.31	0.00	New Sock	0	20	3313.33
	07/07/08	3362.64	55.71	53.10	53.10	0.00	NA	NA	NA	3309.54
	07/16/08	3362.64	55.71	49.36	49.36	0.00	Flip Sock	0	20	3313.28
	07/16/08	3362.64	55.71	52.79	52.79	0.00	NA	NA	NA	3309.85
	07/22/08	3362.64	55.71	49.40	49.40	0.00	New Sock	0	20	3313.24
	07/22/08	3362.64	55.71	51.98	51.98	0.00	NA	NA	NA	3310.66
	07/29/08	3362.64	55.71	49.46	49.46	0.00	Sock	0	20	3313.18
	07/29/08	3362.64	55.71	51.49	51.49	0.00	NA	NA	NA	3311.15
	08/05/08	3362.64	55.71	49.45	49.50	0.05	New Sock	0	20	3313.18
	08/05/08	3362.64	55.71	50.46	50.46	0.00	NA	NA	NA	3312.18
	08/13/08	3362.64	55.71	49.48	49.61	0.13	New Sock	0	20	3313.14
	08/13/08	3362.64	55.71	51.26	51.26	0.00	NA	NA	NA	3311.38
	08/20/08	3362.64	55.71	49.00	49.10	0.10	NA	NA	NA	3313.63
	08/27/08	3362.64	55.71	49.15	49.19	0.04	New Sock	0	20	3313.48
	08/27/08	3362.64	55.71	50.03	50.03	0.00	NA	NA	NA	3312.61
	09/02/08	3362.64	55.71	49.22	49.22	0.00	New Sock	NA	NA	3313.42
	09/09/08	3362.64	55.71	49.26	49.26	0.00	Sock	NA	NA	3313.38
	09/17/08	3362.64	55.71	47.62	49.43	1.81	Sock	NA	NA	3314.75
	09/17/08	3362.64	55.71	49.40	49.43	0.03	Pump	0.5	9.5	3313.24
	09/24/08	3362.64	55.71	49.25	49.25	0.00	Flip Sock	NA	NA	3313.39
	10/01/08	3362.64	55.71	49.27	49.27	0.00	Sock	NA	NA	3313.37
	10/08/08	3362.64	55.71	49.48	49.51	0.03	Pump	0.5	11.5	3313.16
	10/08/08	3362.64	55.71	54.98	54.98	0.00	New Sock	NA	NA	3307.66
	10/15/08	3362.64	55.71	49.22	49.22	0.00	Pump	0	10	3313.42
	10/15/08	3362.64	55.71	53.60	53.60	0.00	NA	NA	NA	3309.04
	10/22/08	3362.64	55.71	49.09	49.09	0.00	Pump	0	20	3313.55
	10/22/08	3362.64	55.71	49.45	49.45	0.00	Flip Sock	NA	NA	3313.19
	10/29/08	3362.64	55.71	49.50	49.50	0.00	Sock	NA	NA	3313.14
	11/05/08	3362.64	55.71	49.35	49.35	0.00	Sock	NA	NA	3313.29
	11/12/08	3362.64	55.71	49.49	49.62	0.13	Sock	NA	NA	3313.13
	11/20/08	3362.64	55.71	49.62	49.70	0.08	New Sock	NA	NA	3313.01
	11/26/08	3362.64	55.71	49.38	49.38	0.00	Flip Sock	NA	4 dry	3313.26
	11/26/08	3362.64	55.71	DRY	DRY	DRY	NA	NA	NA	DRY
	12/03/08	3362.64	55.71	49.42	49.42	0.00	New Sock	NA	NA	3313.22
	12/10/08	3362.64	55.71	49.22	49.22	0.00	New Sock	NA	NA	3313.42
	12/17/08	3362.64	55.71	49.36	49.36	0.00	Flip Sock	NA	NA	3313.28
	12/21/08	3362.64	55.71	49.51	49.51	0.00	Flip Sock	NA	NA	3313.13
	12/31/08	3362.64	55.71	49.37	49.37	0.00	NA	NA	NA	3313.27
	01/07/09	3362.64	55.55	49.10	49.21	0.11	Hand Bail	0.05	9.95	3313.52
	01/07/09	3362.64	55.55	51.56	51.56	0.00	NA	NA	NA	3311.08
	01/15/09	3362.64	55.55	49.33	49.33	0.00	New Sock	NA	NA	3313.31
	01/22/09	3362.64	55.55	49.09	49.09	0.00	NA	NA	NA	3313.55
	01/28/09	3362.64	55.55	49.21	49.21	0.00	NA	NA	NA	3313.43
	02/04/09	3362.64	65.63	49.27	49.27	0.00	NA	NA	NA	3313.37
	02/18/09	3362.64	65.63	49.22	49.22	0.00	Pump/New Sock	0	20	3313.42

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	02/18/09	3362.64	65.63	51.62	51.62	0.00	NA	NA	NA	3311.02
	02/25/09	3362.64	65.63	49.14	49.14	0.00	New Sock	NA	NA	3313.50
	03/04/09	3362.64	55.60	49.07	49.07	0.00	Flip Sock	NA	NA	3313.57
	03/11/09	3362.64	55.60	49.24	49.24	0.00	New Sock	NA	NA	3313.40
	03/18/09	3362.64	55.60	49.13	49.13	0.00	Sock	NA	NA	3313.51
	03/25/09	3362.64	55.60	49.10	49.10	0.00	New Sock	NA	NA	3313.54
	04/01/09	3362.64	55.60	48.94	48.94	0.00	Flip Sock	NA	NA	3313.70
	04/08/09	3362.64	55.60	49.09	49.09	0.00	NA	NA	NA	3313.55
	04/15/09	3362.64	55.60	49.05	49.05	0.00	NA	NA	NA	3313.59
	04/22/09	3362.64	55.60	49.10	49.10	0.00	NA	NA	NA	3313.54
	05/06/09	3362.64	55.60	49.17	49.17	0.00	NA	NA	NA	3313.47
	05/14/09	3362.64	55.60	49.34	49.34	0.00	NA	NA	NA	3313.30
	05/20/09	3362.64	55.60	49.21	49.21	0.00	NA	NA	NA	3313.43
	05/28/09	3362.64	55.60	49.26	49.26	0.00	NA	NA	NA	3313.38
	06/03/09	3362.64	55.60	49.49	49.49	0.00	NA	NA	NA	3313.15
	06/11/09	3362.64	55.60	49.42	49.42	0.00	NA	NA	NA	3313.22
	06/17/09	3362.64	55.60	49.38	49.38	0.00	NA	NA	NA	3313.26
	06/23/09	3362.64	55.60	49.35	49.35	0.00	NA	NA	NA	3313.29
	07/01/09	3362.64	55.60	48.19	48.19	0.00	New Sock	NA	NA	3314.45
	07/07/09	3362.64	55.60	49.18	49.18	0.00	NA	NA	NA	3313.46
	07/15/09	3362.64	55.60	49.20	49.20	0.00	NA	NA	NA	3313.44
	07/29/09	3362.64	55.60	49.16	49.20	0.04	NA	NA	NA	3313.47
	07/29/09	3362.64	55.60	53.00	53.00	0.00	NA	0	10	3309.64
	08/05/09	3362.64	55.60	49.24	49.24	0.00	New Sock	NA	NA	3313.40
	08/12/09	3362.64	55.60	49.10	49.10	0.00	Flip Sock	NA	NA	3313.54
	08/19/09	3362.64	55.60	49.00	49.00	0.00	New Sock	NA	NA	3313.64
	08/27/09	3362.64	55.60	48.97	48.97	0.00	Flip Sock	NA	NA	3313.67
	09/02/09	3362.64	55.60	48.93	48.93	0.00	NA	NA	NA	3313.71
	09/09/09	3362.64	55.60	49.12	49.12	0.00	NA	NA	NA	3313.52
	09/16/09	3362.64	55.60	48.95	48.95	0.00	NA	NA	NA	3313.69
	09/23/09	3362.64	55.60	49.04	49.04	0.00	NA	NA	NA	3313.60
	09/30/09	3362.64	55.60	48.96	48.96	0.00	New Sock	0	6 (Dry)	3313.68
	09/30/09	3362.64	55.60	53.55	53.55	0.00	NA	NA	NA	3309.09
	10/07/09	3362.64	55.60	49.10	49.10	0.00	NA	NA	NA	3313.54
	10/14/09	3362.64	55.60	48.94	48.94	0.00	Flip Sock	NA	NA	3313.70
	10/21/09	3362.64	55.60	48.83	48.83	0.00	New Sock	NA	NA	3313.81
	10/28/09	3362.64	55.60	48.70	48.70	0.00	NA	0	20	3313.94
	10/28/09	3362.64	55.60	49.72	49.72	0.00	NA	NA	NA	3312.92
	11/04/09	3362.64	55.60	48.91	49.00	0.09	NA	Sheen	10	3313.72
	11/04/09	3362.64	55.60	52.01	52.01	0.00	NA	NA	NA	3310.63
	11/11/09	3362.64	55.60	48.91	48.97	0.06	NA	Sheen	10	3313.72
	11/11/09	3362.64	55.60	52.05	52.05	0.00	NA	NA	NA	3310.59
	11/18/09	3362.64	55.60	48.76	48.81	0.05	NA	Sheen	10	3313.87
	11/18/09	3362.64	55.60	49.43	49.43	0.00	NA	NA	NA	3313.21
	11/25/09	3362.64	55.60	48.91	48.99	0.08	NA	Sheen	10	3313.72
	11/25/09	3362.64	55.60	53.54	53.54	0.00	NA	NA	NA	3309.10
	12/02/09	3362.64	55.60	48.94	49.00	0.06	NA	Sheen	10	3313.69
	12/02/09	3362.64	55.60	51.20	51.20	0.00	NA	NA	NA	3311.44
	12/09/09	3362.64	55.60	48.91	48.96	0.05	NA	Sheen	10	3313.72
	12/09/09	3362.64	55.60	51.18	51.18	0.00	NA	NA	NA	3311.46
	12/16/09	3362.64	55.60	48.87	48.95	0.08	NA	Sheen	15	3313.76
	12/16/09	3362.64	55.60	53.30	53.30	0.00	NA	NA	NA	3309.34
	12/23/09	3362.64	55.60	48.68	48.73	0.05	NA	Sheen	10	3313.95
	12/23/09	3362.64	55.60	51.60	51.60	0.00	NA	NA	NA	3311.04
	12/30/09	3362.64	55.60	48.75	48.84	0.09	NA	Sheen	10	3313.88
	12/30/09	3362.64	55.60	52.61	52.61	0.00	NA	NA	NA	3310.03
	01/06/10	3362.64	55.60	48.62	48.65	0.03	NA	sheen	15	3314.02
	01/06/10	3362.64	55.60	55.30	55.30	0.00	NA	NA	NA	3307.34
	01/13/10	3362.64	55.60	48.70	48.76	0.06	NA	sheen	10	3313.93
	01/13/10	3362.64	55.60	52.41	52.41	0.00	NA	NA	NA	3310.23
	01/27/10	3362.64	55.60	48.64	48.69	0.05	NA	NA	NA	3313.99
	02/17/10	3362.64	55.60	48.58	48.83	0.25	Pump	0.5	19.5	3314.02
	02/17/10	3362.64	55.60	50.81	50.81	0.00	NA	NA	NA	3311.83
	03/02/10	3362.64	55.60	48.58	48.60	0.02	NA	NA	NA	3314.06
	03/10/10	3362.64	55.60	48.50	48.55	0.05	Pump	sheen	5	3314.13
	03/10/10	3362.64	55.60	51.82	51.82	0.00	NA	NA	NA	3310.82
	03/17/10	3362.64	55.60	48.64	48.67	0.03	NA	NA	NA	3314.00
	03/24/10	3362.64	55.60	48.58	48.70	0.12	NA	NA	NA	3314.04
	03/31/10	3362.64	55.60	48.51	48.65	0.14	Pump	sheen	15	3314.11
	03/31/10	3362.64	55.60	55.12	55.12	0.00	NA	NA	NA	3307.52
	04/07/10	3362.64	55.60	48.63	48.73	0.10	NA	NA	NA	3314.00
	04/14/10	3362.64	55.60	48.55	48.62	0.07	NA	NA	NA	3314.08
	04/21/10	3362.64	55.60	48.42	48.50	0.08	NA	NA	NA	3314.21
	04/28/10	3362.64	55.60	48.55	48.72	0.17	NA	NA	NA	3314.06
	04/28/10	3362.64	55.60	53.55	53.55	0.00	Hand Bailed	sheen	7.5 (Dry)	3309.09
	05/05/10	3362.64	55.60	48.55	48.64	0.09	NA	NA	NA	3314.08
	05/05/10	3362.64	55.60	52.70	52.70	0.00	Hand Bailed	sheen	8/dry	3309.94
	05/11/10	3362.64	55.60	48.53	48.58	0.05	Pump	sheen	15	3314.10
	05/11/10	3362.64	55.60	51.57	51.57	0.00	NA	NA	NA	3311.07
	05/19/10	3362.64	55.60	48.56	48.57	0.01	NA	NA	NA	3314.08

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-1	05/29/10	3362.64	55.60	48.60	48.69	0.09	Pump	<0.25	10	3314.03
	05/29/10	3362.64	55.60	54.60	54.60	0.00	NA	NA	NA	3308.04
	06/01/10	3362.64	55.60	48.55	48.56	0.01	NA	NA	NA	3314.09
	06/12/10	3362.64	55.60	48.62	48.65	0.03	NA	NA	NA	3314.02
	06/15/10	3362.64	55.60	48.58	48.71	0.13	Pump	<0.25	10	3314.04
	06/15/10	3362.64	55.60	52.82	52.82	0.00	NA	NA	NA	3309.82
	06/25/10	3362.64	55.60	48.63	48.67	0.04	NA	NA	NA	3314.00
	06/30/10	3362.64	55.60	48.65	48.73	0.08	NA	NA	NA	3313.98
	07/07/10	3362.64	55.60	48.64	48.75	0.11	NA	NA	NA	3313.98
	07/14/10	3362.64	55.60	48.60	48.71	0.11	NA	NA	NA	3314.02
	07/21/10	3362.64	55.60	48.63	48.82	0.19	NA	NA	NA	3313.98
	07/28/10	3362.64	55.60	48.62	48.86	0.24	NA	NA	NA	3313.98
	08/03/10	3362.64	55.60	48.61	48.83	0.22	NA	NA	NA	3314.00
	08/11/10	3362.64	55.60	48.59	48.89	0.30	NA	NA	NA	3314.01
	08/18/10	3362.64	55.60	48.62	48.96	0.34	Pump	sheen	15	3313.97
	08/18/10	3362.64	55.60	55.48	55.48	0.00	NA	NA	NA	3307.16
	08/25/10	3362.64	55.60	48.70	48.76	0.06	NA	NA	NA	3313.93
	09/01/10	3362.64	55.60	48.55	48.60	0.05	NA	NA	NA	3314.08
	09/08/10	3362.64	55.60	48.57	48.67	0.10	Pump	sheen	15	3314.06
	09/08/10	3362.64	55.60	55.56	55.56	0.00	NA	NA	NA	3307.08
	09/15/10	3362.64	55.60	48.55	48.56	0.01	Pump	sheen	5	3314.09
	09/15/10	3362.64	55.60	49.95	49.95	0.00	NA	NA	NA	3312.69
	09/21/10	3362.64	55.60	48.48	48.50	0.02	NA	NA	NA	3314.16
	10/01/10	3362.64	55.60	48.53	48.57	0.04	NA	NA	NA	3314.10
	10/06/10	3362.64	55.60	48.51	48.52	0.01	NA	NA	NA	3314.13
	10/13/10	3362.64	55.60	48.57	48.63	0.06	Pump	sheen	10	3314.06
	10/13/10	3362.64	55.60	50.41	50.41	0.00	NA	NA	NA	3312.23
	10/22/10	3362.64	55.60	48.38	48.40	0.02	NA	NA	NA	3314.26
	10/27/10	3362.64	55.60	48.38	48.40	0.02	NA	NA	NA	3314.26
	11/03/10	3362.64	55.60	48.44	48.45	0.01	NA	NA	NA	3314.20
	11/10/10	3362.64	55.60	48.22	48.23	0.01	Pump	sheen	15	3314.42
	11/10/10	3362.64	55.60	51.95	51.95	0.00	NA	NA	NA	3310.69
	11/16/10	3362.64	55.60	48.30	48.31	0.01	NA	NA	NA	3314.34
	11/24/10	3362.64	55.60	48.25	48.26	0.01	NA	NA	NA	3314.39
	12/01/10	3362.64	55.60	48.18	48.19	0.01	pump	sheen	8/dry	3314.46
	12/01/10	3362.64	55.60	50.82	50.82	0.00	NA	NA	NA	3311.82
	12/08/10	3362.64	55.60	48.25	48.26	0.01	NA	NA	NA	3314.39
	12/15/10	3362.64	55.60	48.06	48.07	0.01	NA	NA	NA	3314.58
	12/21/10	3362.64	55.60	48.18	48.19	0.01	NA	NA	NA	3314.46
MW-2	09/14/05	3367.00	NG	NA	43.42	NA	NA	NA	NA	3323.58
	09/20/05	3367.00	58.30	NA	45.76	NA	NA	NA	NA	3321.24
	09/21/05	3367.00	NG	NA	45.74	NA	NA	NA	NA	3321.26
	10/05/05	3367.00	NG	NA	45.68	NA	NA	NA	NA	3321.32
	10/27/05	3367.00	NG	NA	45.74	NA	NA	NA	NA	3321.26
	11/10/05	3367.00	NG	NA	45.74	NA	NA	NA	NA	3321.26
	12/21/05	3367.00	56.25	NA	45.64	NA	NA	NA	NA	3321.36
	12/29/05	3367.00	NG	NA	45.46	NA	NA	NA	NA	3321.54
	01/05/06	3367.00	NG	NA	45.76	NA	NA	NA	NA	3321.24
	02/09/06	3367.00	NG	NA	45.58	NA	NA	NA	NA	3321.42
	02/22/06	3367.00	NG	NA	45.48	NA	NA	NA	NA	3321.52
	03/28/06	3367.00	56.38	NA	45.68	NA	NA	NA	NA	3321.32
	04/13/06	3367.00	NG	NA	45.77	NA	NA	NA	NA	3321.23
	04/25/06	3367.00	NG	NA	45.83	NA	NA	NA	NA	3321.17
	05/11/06	3367.00	NG	NA	45.83	NA	NA	NA	NA	3321.17
	05/24/06	3367.00	NG	NA	45.95	NA	NA	NA	NA	3321.05
	06/07/06	3367.00	NG	NA	46.04	NA	NA	NA	NA	3320.96
	06/15/06	3367.00	NG	NA	45.95	NA	NA	NA	NA	3321.05
	06/29/06	3367.00	NG	NA	46.23	NA	NA	NA	NA	3320.77
	07/11/06	3367.00	NG	NA	46.22	NA	NA	NA	NA	3320.78
	07/25/06	3367.00	NG	NA	46.32	NA	NA	NA	NA	3320.68
	08/09/06	3367.00	55.93	NA	46.37	NA	NA	NA	NA	3320.63
	08/22/06	3367.00	NG	NA	46.48	NA	NA	NA	NA	3320.52
	09/12/06	3367.00	56.00	NA	46.42	NA	NA	NA	NA	3320.58
	09/19/06	3367.00	NG	NA	46.35	NA	NA	NA	NA	3320.65
	10/03/06	3367.00	NG	NA	46.30	NA	NA	NA	NA	3320.70
	10/17/06	3367.00	NG	NA	46.25	NA	NA	NA	NA	3320.75
	11/15/06	3367.00	NG	NA	46.30	NA	NA	NA	NA	3320.70
	12/06/06	3367.00	55.82	NA	46.15	NA	NA	NA	NA	3320.85
	12/13/06	3367.00	NG	NA	46.21	NA	NA	NA	NA	3320.79
	12/27/06	3367.00	NG	NA	46.44	NA	NA	NA	NA	3320.56
	01/03/07	3367.00	NG	NA	46.02	NA	NA	NA	NA	3320.98
	01/09/07	3367.00	NG	NA	46.17	NA	NA	NA	NA	3320.83
	01/18/07	3367.00	NG	NA	45.99	NA	NA	NA	NA	3321.01
	01/25/07	3367.00	NG	NA	45.92	NA	NA	NA	NA	3321.08
	01/31/07	3367.00	NG	NA	45.73	NA	NA	NA	NA	3321.27
	02/07/07	3367.00	NG	NA	45.89	NA	NA	NA	NA	3321.11
	02/14/07	3367.00	NG	NA	45.93	NA	NA	NA	NA	3321.07
	02/28/07	3367.00	55.70	NA	45.68	NA	NA	NA	NA	3321.32
	03/07/07	3367.00	NG	NA	45.95	NA	NA	NA	NA	3321.05

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery PSH (gallons)	Recovery Water (gallons)	Corrected Groundwater Elevation (ft)
	04/04/07	3367.00	NG	NA	46.02	NA	NA	NA	NA	3320.98
	05/03/07	3367.00	NG	NA	45.80	NA	NA	NA	NA	3321.20
	05/30/07	3367.00	55.67	NA	45.73	NA	NA	NA	NA	3321.27
	06/06/07	3367.00	55.66	NA	45.68	NA	NA	NA	NA	3321.32
	07/05/07	3367.00	55.63	NA	45.32	NA	NA	NA	NA	3321.68
	07/31/07	3367.00	55.65	NA	45.37	NA	NA	NA	NA	3321.63
	09/07/07	3367.00	55.65	NA	46.07	NA	NA	NA	NA	3320.93
	10/10/07	3367.00	55.65	NA	46.08	NA	NA	NA	NA	3320.92
	11/13/07	3367.00	55.73	NA	46.01	NA	NA	NA	NA	3320.99
	12/05/07	3367.00	55.73	NA	45.96	NA	NA	NA	NA	3321.04
	01/09/08	3367.00	55.83	NA	45.89	NA	NA	NA	NA	3321.11
	02/06/08	3367.00	55.83	NA	45.90	NA	NA	NA	NA	3321.10
	02/27/08	3367.00	55.84	NA	45.95	NA	NA	NA	NA	3321.05
	04/02/08	3367.00	55.60	NA	45.90	NA	NA	NA	NA	3321.10
	05/20/08	3367.00	55.60	NA	46.17	NA	NA	NA	NA	3320.83
	06/04/08	3367.00	55.60	NA	46.20	NA	NA	NA	NA	3320.80
	06/18/08	3367.00	55.60	NA	46.24	NA	NA	NA	NA	3320.76
	07/07/08	3367.00	55.60	NA	46.30	NA	NA	NA	NA	3320.70
	08/18/08	3367.00	56.32	NA	46.56	NA	NA	NA	NA	3320.44
	10/15/08	3367.00	56.32	NA	46.68	NA	NA	NA	NA	3320.32
	11/20/08	3367.00	56.31	NA	46.84	NA	NA	NA	NA	3320.16
	12/21/08	3367.00	56.31	NA	46.88	NA	NA	NA	NA	3320.12
	01/07/09	3367.00	56.28	NA	46.71	NA	NA	NA	NA	3320.29
	02/04/09	3367.00	56.28	NA	46.86	NA	NA	NA	NA	3320.14
	02/18/09	3367.00	56.50	NA	46.83	NA	NA	NA	NA	3320.17
MW-2	03/04/09	3367.00	56.51	NA	46.68	NA	NA	NA	NA	3320.32
	04/08/09	3367.00	56.51	NA	46.58	NA	NA	NA	NA	3320.42
	05/06/09	3367.00	56.51	NA	46.65	NA	NA	NA	NA	3320.35
	05/20/09	3367.00	56.51	NA	46.83	NA	NA	NA	NA	3320.17
	06/03/09	3367.00	56.51	NA	46.85	NA	NA	NA	NA	3320.15
	07/15/09	3367.00	56.51	NA	46.66	NA	NA	NA	NA	3320.34
	08/05/09	3367.00	56.51	NA	46.59	NA	NA	NA	NA	3320.41
	08/27/09	3367.00	56.30	NA	46.55	NA	NA	NA	5	3320.45
	09/02/09	3367.00	56.30	NA	46.58	NA	NA	NA	NA	3320.42
	10/07/09	3367.00	56.30	NA	46.52	NA	NA	NA	NA	3320.48
	11/04/09	3367.00	56.30	NA	46.63	NA	NA	NA	NA	3320.37
	11/18/09	3367.00	56.30	NA	46.48	NA	NA	NA	NA	3320.52
	12/02/09	3367.00	56.30	NA	46.56	NA	NA	NA	NA	3320.44
	01/06/10	3367.00	56.30	NA	46.33	NA	NA	NA	NA	3320.67
	02/09/10	3367.00	56.30	NA	46.42	NA	NA	NA	NA	3320.58
	03/10/10	3367.00	56.30	NA	46.13	NA	NA	NA	NA	3320.87
	04/07/10	3367.00	56.30	NA	46.27	NA	NA	NA	NA	3320.73
	05/05/10	3367.00	56.30	NA	46.22	NA	NA	NA	NA	3320.78
	05/11/10	3367.00	56.30	NA	46.20	NA	NA	NA	NA	3320.80
	06/02/10	3367.00	56.30	NA	46.21	NA	NA	NA	NA	3320.79
	07/07/10	3367.00	56.30	NA	46.32	NA	NA	NA	NA	3320.68
	08/03/10	3367.00	56.30	NA	46.25	NA	NA	NA	NA	3320.75
	08/26/10	3367.00	56.30	NA	46.23	NA	NA	NA	NA	3320.77
	09/01/10	3367.00	56.30	NA	46.18	NA	NA	NA	NA	3320.82
	10/13/10	3367.00	56.30	NA	46.26	NA	NA	NA	NA	3320.74
	11/18/10	3367.00	56.30	NA	46.07	NA	NA	NA	NA	3320.93
	11/24/10	3367.00	56.30	NA	46.03	NA	NA	NA	NA	3320.97
	12/08/10	3367.00	56.30	NA	46.03	NA	NA	NA	NA	3320.97
	09/14/05	3369.10	NG	NA	43.84	NA	NA	NA	NA	3325.26
	09/20/05	3369.1	58.42	NA	47.58	NA	NA	NA	NA	3321.52
	09/21/05	3369.1	NG	NA	47.52	NA	NA	NA	NA	3321.58
	10/05/05	3369.1	NG	NA	47.50	NA	NA	NA	NA	3321.60
	10/27/05	3369.1	NG	NA	47.55	NA	NA	NA	NA	3321.55
	11/10/05	3369.1	NG	NA	47.55	NA	NA	NA	NA	3321.55
	12/21/05	3369.1	55.90	NA	47.43	NA	NA	NA	NA	3321.67
	12/29/05	3369.1	NG	NA	47.23	NA	NA	NA	NA	3321.87
	01/05/06	3369.1	NG	NA	47.50	NA	NA	NA	NA	3321.60
	02/09/06	3369.1	NG	NA	47.33	NA	NA	NA	NA	3321.77
	02/22/06	3369.1	NG	NA	47.24	NA	NA	NA	NA	3321.86
	02/28/06	3369.1	55.95	NA	47.41	NA	NA	NA	NA	3321.69
MW-3	04/13/06	3369.1	NG	NA	47.53	NA	NA	NA	NA	3321.57
	04/25/06	3369.1	NG	NA	47.64	NA	NA	NA	NA	3321.46
	05/11/06	3369.1	NG	NA	47.69	NA	NA	NA	NA	3321.41
	05/24/06	3369.1	NG	NA	47.72	NA	NA	NA	NA	3321.38
	06/07/06	3369.1	NG	NA	47.83	NA	NA	NA	NA	3321.27
	06/15/06	3369.1	NG	NA	47.76	NA	NA	NA	NA	3321.34
	06/29/06	3369.1	NG	NA	48.02	NA	NA	NA	NA	3321.08
	07/11/06	3369.1	NG	NA	48.02	NA	NA	NA	NA	3321.08
	07/25/06	3369.1	NG	NA	48.11	NA	NA	NA	NA	3320.99
	08/09/06	3369.1	55.67	NA	48.17	NA	NA	NA	NA	3320.93
	08/22/06	3369.1	NG	NA	48.28	NA	NA	NA	NA	3320.82
	09/12/06	3369.1	55.56	NA	48.46	NA	NA	NA	NA	3320.64
	09/19/06	3369.1	NG	NA	48.20	NA	NA	NA	NA	3320.90
	10/03/06	3369.1	NG	NA	48.16	NA	NA	NA	NA	3320.94

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	10/17/06	3369.1	NG	NA	48.07	NA	NA	NA	NA	3321.03
	10/31/06	3369.1	NG	NA	48.11	NA	NA	NA	NA	3320.99
	11/15/06	3369.1	NG	NA	48.09	NA	NA	NA	NA	3321.01
	12/06/06	3369.1	55.52	NA	47.94	NA	NA	NA	NA	3321.16
	12/13/06	3369.1	NG	NA	47.98	NA	NA	NA	NA	3321.12
	12/27/06	3369.1	NG	NA	47.75	NA	NA	NA	NA	3321.35
	01/03/07	3369.1	NG	NA	47.83	NA	NA	NA	NA	3321.27
	01/09/07	3369.1	NG	NA	47.96	NA	NA	NA	NA	3321.14
	01/18/07	3369.1	NG	NA	47.78	NA	NA	NA	NA	3321.32
	01/25/07	3369.1	NG	NA	47.71	NA	NA	NA	NA	3321.39
	01/31/07	3369.1	NG	NA	47.52	NA	NA	NA	NA	3321.58
	02/07/07	3369.1	NG	NA	47.66	NA	NA	NA	NA	3321.44
	02/14/07	3369.1	NG	NA	47.70	NA	NA	NA	NA	3321.40
	02/28/07	3369.1	55.48	NA	47.49	NA	NA	NA	NA	3321.61
	03/07/07	3369.1	NG	NA	47.74	NA	NA	NA	NA	3321.36
	04/04/07	3369.1	NG	NA	47.82	NA	NA	NA	NA	3321.28
	05/03/07	3369.1	NG	NA	47.56	NA	NA	NA	NA	3321.54
	05/30/07	3369.1	55.22	NA	47.49	NA	NA	NA	NA	3321.61
	06/06/07	3369.1	55.22	NA	47.56	NA	NA	NA	NA	3321.54
	07/05/07	3369.1	55.32	NA	47.63	NA	NA	NA	NA	3321.47
	07/31/07	3369.1	55.34	NA	47.68	NA	NA	NA	NA	3321.42
	09/07/07	3369.1	55.34	NA	47.92	NA	NA	NA	NA	3321.18
	10/10/07	3369.1	55.32	NA	47.83	NA	NA	NA	NA	3321.27
	11/13/07	3369.1	55.32	NA	47.78	NA	NA	NA	NA	3321.32
	12/05/07	3369.1	55.32	NA	47.74	NA	NA	NA	NA	3321.36
	01/09/08	3369.1	55.25	NA	47.63	NA	NA	NA	NA	3321.47
	02/06/08	3369.1	55.25	NA	47.63	NA	NA	NA	NA	3321.47
	02/27/08	3369.1	55.18	NA	47.63	NA	NA	NA	NA	3321.47
	04/02/08	3369.1	55.20	NA	47.62	NA	NA	NA	NA	3321.48
	05/20/08	3369.1	55.20	NA	47.92	NA	NA	NA	NA	3321.18
	06/04/08	3369.1	55.20	NA	47.95	NA	NA	NA	NA	3321.15
	06/18/08	3369.1	55.20	NA	48.00	NA	NA	NA	NA	3321.10
	07/07/08	3369.1	55.20	NA	48.02	NA	NA	NA	NA	3321.08
	08/18/08	3369.1	55.35	NA	48.29	NA	NA	NA	NA	3320.81
	10/15/08	3369.1	55.35	NA	48.41	NA	NA	NA	NA	3320.69
MW-3	11/20/08	3369.1	55.33	NA	48.60	NA	NA	NA	NA	3320.50
	12/21/08	3369.1	55.33	NA	48.65	NA	NA	NA	NA	3320.45
	01/07/09	3369.1	55.28	NA	48.49	NA	NA	NA	NA	3320.61
	02/04/09	3369.1	55.27	NA	48.64	NA	NA	NA	NA	3320.46
	02/18/09	3369.1	55.28	NA	48.59	NA	NA	NA	NA	3320.51
	03/04/09	3369.1	55.24	NA	48.47	NA	NA	NA	NA	3320.63
	04/08/09	3369.1	55.24	NA	48.31	NA	NA	NA	NA	3320.79
	05/06/09	3369.1	55.24	NA	48.38	NA	NA	NA	NA	3320.72
	05/20/09	3369.1	55.24	NA	48.59	NA	NA	NA	NA	3320.51
	06/03/09	3369.1	55.24	NA	48.55	NA	NA	NA	NA	3320.55
	07/15/09	3369.1	55.24	NA	48.33	NA	NA	NA	NA	3320.77
	08/05/09	3369.1	55.24	NA	48.26	NA	NA	NA	NA	3320.84
	08/27/09	3369.1	56.18	NA	48.21	NA	NA	NA	4	3320.89
	09/02/09	3369.1	56.18	NA	48.23	NA	NA	NA	NA	3320.87
	10/07/09	3369.1	56.18	NA	48.14	NA	NA	NA	NA	3320.96
	11/04/09	3369.1	56.18	NA	48.30	NA	NA	NA	NA	3320.80
	11/18/09	3369.1	56.18	NA	48.14	NA	NA	NA	NA	3320.96
	12/02/09	3369.1	56.18	NA	48.25	NA	NA	NA	NA	3320.85
	01/06/10	3369.1	56.18	NA	47.99	NA	NA	NA	NA	3321.11
	02/09/10	3369.1	56.18	NA	48.06	NA	NA	NA	NA	3321.04
	03/10/10	3369.1	56.18	NA	47.85	NA	NA	NA	NA	3321.25
	04/07/10	3369.1	56.18	NA	48.00	NA	NA	NA	NA	3321.10
	05/05/10	3369.1	56.18	NA	47.95	NA	NA	NA	NA	3321.15
	05/11/10	3369.1	56.18	NA	47.92	NA	NA	NA	NA	3321.18
	06/02/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	07/07/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	08/03/10	3369.1	56.18	NA	47.96	NA	NA	NA	NA	3321.14
	08/26/10	3369.1	56.18	NA	47.97	NA	NA	NA	NA	3321.13
	09/01/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	10/13/10	3369.1	56.18	NA	47.90	NA	NA	NA	NA	3321.20
	11/18/10	3369.1	56.18	NA	47.75	NA	NA	NA	NA	3321.35
	11/24/10	3369.1	56.18	NA	47.67	NA	NA	NA	NA	3321.43
	12/08/10	3369.1	56.18	NA	47.68	NA	NA	NA	NA	3321.42
	12/21/05	3365.12	59.50	NA	43.93	NA	NA	NA	NA	3321.19
	12/29/05	3365.12	NG	NA	43.76	NA	NA	NA	NA	3321.36
	01/05/06	3365.12	NG	NA	44.02	NA	NA	NA	NA	3321.10
	02/09/06	3365.12	NG	NA	43.82	NA	NA	NA	NA	3321.30
	02/22/06	3365.12	NG	NA	43.80	NA	NA	NA	NA	3321.32
MW-4	03/28/06	3365.12	59.43	NA	43.91	NA	NA	NA	NA	3321.21
	04/13/06	3365.12	NG	NA	44.02	NA	NA	NA	NA	3321.10
	04/25/06	3365.12	NG	NA	44.13	NA	NA	NA	NA	3320.99
	05/11/06	3365.12	NG	NA	44.20	NA	NA	NA	NA	3320.92
	05/24/06	3365.12	NG	NA	44.21	NA	NA	NA	NA	3320.91
	06/07/06	3365.12	NG	NA	44.35	NA	NA	NA	NA	3320.77

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	06/15/06	3365.12	NG	NA	44.23	NA	NA	NA	NA	3320.89
	06/29/06	3365.12	NG	NA	44.48	NA	NA	NA	NA	3320.64
	07/11/06	3365.12	NG	NA	44.49	NA	NA	NA	NA	3320.63
	07/25/06	3365.12	NG	NA	44.53	NA	NA	NA	NA	3320.59
	08/09/06	3365.12	59.50	NA	44.66	NA	NA	NA	NA	3320.46
	08/22/06	3365.12	NG	NA	44.75	NA	NA	NA	NA	3320.37
	09/12/06	3365.12	59.46	NA	44.66	NA	NA	NA	NA	3320.46
	09/19/06	3365.12	NG	NA	44.60	NA	NA	NA	NA	3320.52
	10/03/06	3365.12	NG	NA	44.55	NA	NA	NA	NA	3320.57
	10/17/06	3365.12	NG	NA	44.48	NA	NA	NA	NA	3320.64
	10/31/06	3365.12	NG	NA	44.53	NA	NA	NA	NA	3320.59
	11/15/06	3365.12	NG	NA	44.53	NA	NA	NA	NA	3320.59
	12/06/06	3365.12	59.42	NA	44.32	NA	NA	NA	NA	3320.80
	12/13/06	3365.12	NG	NA	44.37	NA	NA	NA	NA	3320.75
	12/27/06	3365.12	NG	NA	44.18	NA	NA	NA	NA	3320.94
	01/03/07	3365.12	NG	NA	44.27	NA	NA	NA	NA	3320.85
	01/09/07	3365.12	NG	NA	44.43	NA	NA	NA	NA	3320.69
	01/18/07	3365.12	NG	NA	44.23	NA	NA	NA	NA	3320.89
	01/25/07	3365.12	NG	NA	44.18	NA	NA	NA	NA	3320.94
	01/31/07	3365.12	NG	NA	44.00	NA	NA	NA	NA	3321.12
	02/07/07	3365.12	NG	NA	44.14	NA	NA	NA	NA	3320.98
	02/14/07	3365.12	NG	NA	44.19	NA	NA	NA	NA	3320.93
MW-4	02/28/07	3365.12	59.40	NA	43.92	NA	NA	NA	NA	3321.20
	03/07/07	3365.12	NG	NA	43.64	NA	NA	NA	NA	3321.48
	04/04/07	3365.12	NG	NA	44.23	NA	NA	NA	NA	3320.89
	05/03/07	3365.12	NG	NA	44.06	NA	NA	NA	NA	3321.06
	05/30/07	3365.12	59.50	NA	44.00	NA	NA	NA	NA	3321.12
	06/06/07	3365.12	59.50	NA	43.85	NA	NA	NA	NA	3321.27
	07/05/07	3365.12	59.47	NA	44.06	NA	NA	NA	NA	3321.06
	07/31/07	3365.12	59.47	NA	44.10	NA	NA	NA	NA	3321.02
	09/07/07	3365.12	59.47	NA	44.35	NA	NA	NA	NA	3320.77
	10/10/07	3365.12	59.47	NA	44.83	NA	NA	NA	NA	3320.29
	11/13/07	3365.12	59.36	NA	44.29	NA	NA	NA	NA	3320.83
	12/05/07	3365.12	59.36	NA	44.24	NA	NA	NA	NA	3320.88
	01/09/08	3365.12	59.46	NA	44.17	NA	NA	NA	NA	3320.95
	02/06/08	3365.12	59.46	NA	44.16	NA	NA	NA	NA	3320.96
	02/27/08	3365.12	59.47	NA	44.18	NA	NA	NA	NA	3320.94
	04/02/08	3365.12	59.40	NA	44.15	NA	NA	NA	NA	3320.97
	05/20/08	3365.12	59.40	NA	44.44	NA	NA	NA	NA	3320.68
	06/18/08	3365.12	59.40	NA	44.51	NA	NA	NA	NA	3320.61
	07/07/08	3365.12	59.40	NA	44.60	NA	NA	NA	NA	3320.52
	08/18/08	3365.12	59.35	NA	44.80	NA	NA	NA	NA	3320.32
	10/15/08	3365.12	59.35	NA	44.93	NA	NA	NA	NA	3320.19
	11/20/08	3365.12	59.44	NA	45.08	NA	NA	NA	NA	3320.04
	12/21/08	3365.12	59.44	NA	45.12	NA	NA	NA	NA	3320.00
	01/07/09	3365.12	59.44	NA	44.94	NA	NA	NA	NA	3320.18
	02/04/09	3365.12	59.43	NA	45.08	NA	NA	NA	NA	3320.04
	02/18/09	3365.12	59.38	NA	45.00	NA	NA	NA	NA	3320.12
	03/04/09	3365.12	59.21	NA	44.93	NA	NA	NA	NA	3320.19
	04/08/09	3365.12	59.21	NA	44.79	NA	NA	NA	NA	3320.33
	05/06/09	3365.12	59.21	NA	44.88	NA	NA	NA	NA	3320.24
	05/20/09	3365.12	59.21	NA	45.06	NA	NA	NA	NA	3320.06
	06/03/09	3365.12	59.21	NA	45.08	NA	NA	NA	NA	3320.04
	07/15/09	3365.12	59.21	NA	44.93	NA	NA	NA	NA	3320.19
	08/05/09	3365.12	59.21	NA	44.84	NA	NA	NA	NA	3320.28
	08/27/09	3365.12	59.40	NA	44.81	NA	NA	NA	29	3320.31
	09/02/09	3365.12	59.40	NA	44.83	NA	NA	NA	NA	3320.29
	10/07/09	3365.12	59.40	NA	44.78	NA	NA	NA	NA	3320.34
	11/04/09	3365.12	59.40	NA	44.89	NA	NA	NA	NA	3320.23
	11/18/09	3365.12	59.40	NA	44.73	NA	NA	NA	NA	3320.39
	12/02/09	3365.12	59.40	NA	44.84	NA	NA	NA	NA	3320.28
	01/06/10	3365.12	59.40	NA	44.57	NA	NA	NA	NA	3320.55
	02/09/10	3365.12	59.40	NA	44.63	NA	NA	NA	NA	3320.49
	03/10/10	3365.12	59.40	NA	44.36	NA	NA	NA	NA	3320.76
	04/07/10	3365.12	59.40	NA	44.50	NA	NA	NA	NA	3320.62
	05/05/10	3365.12	59.40	NA	44.46	NA	NA	NA	NA	3320.66
	05/11/10	3365.12	59.40	NA	44.45	NA	NA	NA	NA	3320.67
	06/02/10	3365.12	59.40	NA	44.43	NA	NA	NA	NA	3320.69
	07/07/10	3365.12	59.40	NA	44.55	NA	NA	NA	NA	3320.57
	08/03/10	3365.12	59.40	NA	44.52	NA	NA	NA	NA	3320.60
	08/26/10	3365.12	59.40	NA	44.52	NA	NA	NA	NA	3320.60
	09/01/10	3365.12	59.40	NA	44.43	NA	NA	NA	NA	3320.69
	10/13/10	3365.12	59.40	NA	44.51	NA	NA	NA	NA	3320.61
	11/18/10	3365.12	59.40	NA	44.36	NA	NA	NA	NA	3320.76
	11/24/10	3365.12	59.40	NA	44.29	NA	NA	NA	NA	3320.83
	12/08/10	3365.12	59.40	NA	44.28	NA	NA	NA	NA	3320.84

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	12/21/05	3364.74	53.88	NA	43.25	NA	NA	NA	NA	3321.49
	12/29/05	3364.74	NG	NA	43.05	NA	NA	NA	NA	3321.69
	01/05/06	3364.74	NG	NA	43.36	NA	NA	NA	NA	3321.38
	02/08/06	3364.74	NG	NA	43.13	NA	NA	NA	NA	3321.61
	02/22/06	3364.74	NG	NA	43.12	NA	NA	NA	NA	3321.62
	03/28/06	3364.74	53.60	NA	43.25	NA	NA	NA	NA	3321.49
	04/13/06	3364.74	NG	NA	43.40	NA	NA	NA	NA	3321.34
	04/25/06	3364.74	NG	NA	43.50	NA	NA	NA	NA	3321.24
	05/11/06	3364.74	NG	NA	43.58	NA	NA	NA	NA	3321.16
	05/24/06	3364.74	NG	NA	43.87	NA	NA	NA	NA	3320.87
	06/07/06	3364.74	NG	NA	43.68	NA	NA	NA	NA	3321.06
	06/15/06	3364.74	NG	NA	43.61	NA	NA	NA	NA	3321.13
	06/29/06	3364.74	NG	NA	43.86	NA	NA	NA	NA	3320.88
	07/11/06	3364.74	NG	NA	43.87	NA	NA	NA	NA	3320.87
	07/25/06	3364.74	NG	NA	43.95	NA	NA	NA	NA	3320.79
	08/09/06	3364.74	53.44	NA	44.04	NA	NA	NA	NA	3320.70
	08/22/06	3364.74	NG	NA	44.13	NA	NA	NA	NA	3320.61
	09/12/06	3364.74	53.37	NA	44.10	NA	NA	NA	NA	3320.64
	09/19/06	3364.74	NG	NA	44.00	NA	NA	NA	NA	3320.74
	10/03/06	3364.74	NG	NA	43.98	NA	NA	NA	NA	3320.76
	10/17/06	3364.74	NG	NA	43.93	NA	NA	NA	NA	3320.81
	10/31/06	3364.74	NG	NA	43.95	NA	NA	NA	NA	3320.79
	11/15/06	3364.74	NG	NA	43.99	NA	NA	NA	NA	3320.75
	12/06/06	3364.74	53.35	NA	43.85	NA	NA	NA	NA	3320.89
	12/13/06	3364.74	NG	NA	43.88	NA	NA	NA	NA	3320.86
	12/27/06	3364.74	NG	NA	43.65	NA	NA	NA	NA	3321.09
	01/03/07	3364.74	NG	NA	43.73	NA	NA	NA	NA	3321.01
	01/09/07	3364.74	NG	NA	43.88	NA	NA	NA	NA	3320.86
	01/18/07	3364.74	NG	NA	43.71	NA	NA	NA	NA	3321.03
	01/25/07	3364.74	NG	NA	43.66	NA	NA	NA	NA	3321.08
MW-5	01/31/07	3364.74	NG	NA	43.45	NA	NA	NA	NA	3321.29
	02/07/07	3364.74	NG	NA	43.58	NA	NA	NA	NA	3321.16
	02/14/07	3364.74	NG	NA	43.61	NA	NA	NA	NA	3321.13
	02/28/07	3364.74	53.25	NA	43.41	NA	NA	NA	NA	3321.33
	03/07/07	3364.74	NG	NA	43.64	NA	NA	NA	NA	3321.10
	04/04/07	3364.74	NG	NA	43.75	NA	NA	NA	NA	3320.99
	05/03/07	3364.74	NG	NA	43.55	NA	NA	NA	NA	3321.19
	05/30/07	3364.74	53.23	NA	43.45	NA	NA	NA	NA	3321.29
	06/06/07	3364.74	53.23	NA	43.30	NA	NA	NA	NA	3321.44
	07/05/07	3364.74	53.13	NA	43.52	NA	NA	NA	NA	3321.22
	07/31/07	3364.74	53.13	NA	43.56	NA	NA	NA	NA	3321.18
	09/07/07	3364.74	53.13	NA	43.91	NA	NA	NA	NA	3320.83
	10/10/07	3364.74	53.13	NA	43.81	NA	NA	NA	NA	3320.93
	11/13/07	3364.74	53.19	NA	43.78	NA	NA	NA	NA	3320.96
	12/05/07	3364.74	53.19	NA	43.72	NA	NA	NA	NA	3321.02
	01/09/08	3364.74	53.08	NA	43.67	NA	NA	NA	NA	3321.07
	02/06/08	3364.74	53.08	NA	43.63	NA	NA	NA	NA	3321.11
	02/27/08	3364.74	53.10	NA	43.70	NA	NA	NA	NA	3321.04
	04/02/08	3364.74	53.02	NA	43.66	NA	NA	NA	NA	3321.08
	05/20/08	3364.74	53.02	NA	43.90	NA	NA	NA	NA	3320.84
	06/18/08	3364.74	53.02	NA	43.97	NA	NA	NA	NA	3320.77
	07/07/08	3364.74	53.02	NA	43.96	NA	NA	NA	NA	3320.78
	08/18/08	3364.74	53.06	NA	44.32	NA	NA	NA	NA	3320.42
	10/15/08	3364.74	53.06	NA	44.42	NA	NA	NA	NA	3320.32
	11/20/08	3364.74	53.00	NA	44.55	NA	NA	NA	NA	3320.19
	12/21/08	3364.74	53.00	NA	44.62	NA	NA	NA	NA	3320.12
	01/07/09	3364.74	55.03	NA	44.46	NA	NA	NA	NA	3320.28
	02/04/09	3364.74	53.01	NA	44.61	NA	NA	NA	NA	3320.13
	02/18/09	3364.74	52.96	NA	44.59	NA	NA	NA	NA	3320.15
	03/04/09	3364.74	53.04	NA	44.45	NA	NA	NA	NA	3320.29
	04/08/09	3364.74	53.04	NA	44.79	NA	NA	NA	NA	3319.95
	05/06/09	3364.74	53.04	NA	44.44	NA	NA	NA	NA	3320.30
	05/20/09	3364.74	53.04	NA	44.60	NA	NA	NA	NA	3320.14
	06/03/09	3364.74	53.04	NA	44.60	NA	NA	NA	NA	3320.14
	07/15/09	3364.74	53.04	NA	44.45	NA	NA	NA	NA	3320.29
	08/05/09	3364.74	53.04	NA	44.35	NA	NA	NA	NA	3320.39
	08/27/09	3364.74	53.03	NA	44.36	NA	NA	NA	5	3320.38
	09/02/09	3364.74	53.03	NA	44.34	NA	NA	NA	NA	3320.40
	10/07/09	3364.74	53.03	NA	44.28	NA	NA	NA	NA	3320.46
	11/04/09	3364.74	53.03	NA	44.79	NA	NA	NA	NA	3319.95
	11/18/09	3364.74	53.03	NA	44.25	NA	NA	NA	NA	3320.49
	12/02/09	3364.74	53.03	NA	44.32	NA	NA	NA	NA	3320.42
	01/06/10	3364.74	53.03	NA	44.11	NA	NA	NA	NA	3320.63
	02/09/10	3364.74	53.03	NA	44.20	NA	NA	NA	NA	3320.54
	03/10/10	3364.74	53.03	NA	43.95	NA	NA	NA	NA	3320.79
	04/07/10	3364.74	53.03	NA	44.06	NA	NA	NA	NA	3320.68
	05/05/10	3364.74	53.03	NA	44.04	NA	NA	NA	NA	3320.70
	05/11/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	06/02/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	07/07/10	3364.74	53.03	NA	44.10	NA	NA	NA	NA	3320.64

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-5	08/03/10	3364.74	53.03	NA	44.07	NA	NA	NA	NA	3320.67
	08/26/10	3364.74	53.03	NA	44.08	NA	NA	NA	NA	3320.66
	09/01/10	3364.74	53.03	NA	43.98	NA	NA	NA	NA	3320.76
	10/13/10	3364.74	53.03	NA	44.02	NA	NA	NA	NA	3320.72
	11/18/10	3364.74	53.03	NA	43.87	NA	NA	NA	NA	3320.87
	11/24/10	3364.74	53.03	NA	43.81	NA	NA	NA	NA	3320.93
	12/08/10	3364.74	53.03	NA	43.81	NA	NA	NA	NA	3320.93
MW-6	12/21/05	3368.96	59.44	NA	47.31	NA	NA	NA	NA	3321.65
	12/29/05	3368.96	NG	NA	47.16	NA	NA	NA	NA	3321.80
	01/05/06	3368.96	NG	NA	47.40	NA	NA	NA	NA	3321.56
	02/09/06	3368.96	NG	NA	47.15	NA	NA	NA	NA	3321.81
	02/22/06	3368.96	NG	NA	47.12	NA	NA	NA	NA	3321.84
	03/28/06	3368.96	59.45	NA	47.35	NA	NA	NA	NA	3321.61
	04/13/06	3368.96	NG	NA	47.42	NA	NA	NA	NA	3321.54
	04/25/06	3368.96	NG	NA	47.50	NA	NA	NA	NA	3321.46
	05/11/06	3368.96	NG	NA	47.57	NA	NA	NA	NA	3321.39
	05/24/06	3368.96	NG	NA	47.57	NA	NA	NA	NA	3321.39
	06/07/06	3368.96	NG	NA	47.72	NA	NA	NA	NA	3321.24
	06/15/06	3368.96	NG	NA	47.63	NA	NA	NA	NA	3321.33
	06/29/06	3368.96	NG	NA	47.89	NA	NA	NA	NA	3321.07
	07/11/06	3368.96	NG	NA	47.90	NA	NA	NA	NA	3321.06
	07/25/06	3368.96	NG	NA	47.97	NA	NA	NA	NA	3320.99
	08/09/06	3368.96	59.49	NA	48.02	NA	NA	NA	NA	3320.94
	08/22/06	3368.96	NG	NA	48.15	NA	NA	NA	NA	3320.81
	09/12/06	3368.96	59.43	NA	48.07	NA	NA	NA	NA	3320.89
	09/19/06	3368.96	NG	NA	48.07	NA	NA	NA	NA	3320.89
	10/03/06	3368.96	NG	NA	48.03	NA	NA	NA	NA	3320.93
	10/17/06	3368.96	NG	NA	47.90	NA	NA	NA	NA	3321.06
	10/30/06	3368.96	NG	NA	47.95	NA	NA	NA	NA	3321.01
	11/15/06	3368.96	NG	NA	47.96	NA	NA	NA	NA	3321.00
	12/06/06	3368.96	59.39	NA	47.81	NA	NA	NA	NA	3321.15
	12/13/06	3368.96	NG	NA	47.88	NA	NA	NA	NA	3321.08
	12/27/06	3368.96	NG	NA	47.63	NA	NA	NA	NA	3321.33
	01/03/07	3368.96	NG	NA	47.68	NA	NA	NA	NA	3321.28
	01/09/07	3368.96	NG	NA	47.80	NA	NA	NA	NA	3321.16
	01/18/07	3368.96	NG	NA	47.65	NA	NA	NA	NA	3321.31
	01/25/07	3368.96	NG	NA	47.67	NA	NA	NA	NA	3321.29
	01/31/07	3368.96	NG	NA	47.40	NA	NA	NA	NA	3321.56
	02/07/07	3368.96	NG	NA	47.51	NA	NA	NA	NA	3321.45
	02/14/07	3368.96	NG	NA	47.54	NA	NA	NA	NA	3321.42
	02/28/07	3368.96	59.50	NA	47.31	NA	NA	NA	NA	3321.65
	03/07/07	3368.96	NG	NA	47.56	NA	NA	NA	NA	3321.40
	04/04/07	3368.96	NG	NA	47.65	NA	NA	NA	NA	3321.31
	05/03/07	3368.96	NG	NA	47.44	NA	NA	NA	NA	3321.52
	05/30/07	3368.96	59.47	NA	47.35	NA	NA	NA	NA	3321.61
	06/06/07	3368.96	59.47	NA	47.22	NA	NA	NA	NA	3321.74
	07/05/07	3368.96	59.46	NA	47.55	NA	NA	NA	NA	3321.41
	07/31/07	3368.96	59.47	NA	47.58	NA	NA	NA	NA	3321.38
	09/07/07	3368.96	59.47	NA	47.70	NA	NA	NA	NA	3321.26
	10/10/07	3368.96	59.48	NA	47.67	NA	NA	NA	NA	3321.29
	11/13/07	3368.96	59.41	NA	47.65	NA	NA	NA	NA	3321.31
	12/05/07	3368.96	59.41	NA	47.60	NA	NA	NA	NA	3321.36
	01/09/08	3368.96	59.40	NA	47.46	NA	NA	NA	NA	3321.50
	02/06/08	3368.96	59.40	NA	47.48	NA	NA	NA	NA	3321.48
	02/27/08	3368.96	59.42	NA	47.43	NA	NA	NA	NA	3321.53
	04/02/08	3368.96	59.41	NA	47.47	NA	NA	NA	NA	3321.49
	05/20/08	3368.96	59.41	NA	47.74	NA	NA	NA	NA	3321.22
	06/18/08	3368.96	59.41	NA	47.54	NA	NA	NA	NA	3321.42
	07/07/08	3368.96	59.41	NA	47.86	NA	NA	NA	NA	3321.10
	08/18/08	3368.96	59.42	NA	48.16	NA	NA	NA	NA	3320.80
	10/15/08	3368.96	59.42	NA	48.24	NA	NA	NA	NA	3320.72
	11/20/08	3368.96	59.45	NA	48.43	NA	NA	NA	NA	3320.53
	12/21/08	3368.96	59.45	NA	48.48	NA	NA	NA	NA	3320.48
	01/07/09	3368.96	59.47	NA	48.29	NA	NA	NA	NA	3320.67
	02/04/09	3368.96	59.23	NA	48.44	NA	NA	NA	NA	3320.52
	02/18/09	3368.96	59.43	NA	48.40	NA	NA	NA	NA	3320.56
	03/04/09	3368.96	59.22	NA	48.24	NA	NA	NA	NA	3320.72
	04/08/09	3368.96	59.22	NA	48.15	NA	NA	NA	NA	3320.81
	05/06/09	3368.96	59.22	NA	48.23	NA	NA	NA	NA	3320.73
	05/20/09	3368.96	59.22	NA	48.40	NA	NA	NA	NA	3320.56
	06/03/09	3368.96	59.22	NA	48.38	NA	NA	NA	NA	3320.58
	07/15/09	3368.96	59.22	NA	48.18	NA	NA	NA	NA	3320.78
	08/05/09	3368.96	59.22	NA	48.10	NA	NA	NA	NA	3320.86
	08/27/09	3368.96	59.21	NA	48.07	NA	NA	NA	22	3320.89
	09/02/09	3368.96	59.21	NA	48.10	NA	NA	NA	NA	3320.86
	10/07/09	3368.96	59.21	NA	48.99	NA	NA	NA	NA	3319.97
	11/04/09	3368.96	59.21	NA	49.12	NA	NA	NA	NA	3319.84
	11/18/09	3368.96	59.21	NA	48.00	NA	NA	NA	NA	3320.96
	12/02/09	3368.96	59.21	NA	48.10	NA	NA	NA	NA	3320.86

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-6	01/06/10	3368.96	59.21	NA	47.83	NA	NA	NA	NA	3321.13
	02/09/10	3368.96	59.21	NA	47.87	NA	NA	NA	NA	3321.09
	03/10/10	3368.96	59.21	NA	47.66	NA	NA	NA	NA	3321.30
	04/07/10	3368.96	59.21	NA	47.83	NA	NA	NA	NA	3321.13
	05/05/10	3368.96	59.21	NA	47.74	NA	NA	NA	NA	3321.22
	05/11/10	3368.96	59.21	NA	47.75	NA	NA	NA	NA	3321.21
	06/02/10	3368.96	59.21	NA	47.73	NA	NA	NA	NA	3321.23
	07/07/10	3368.96	59.21	NA	47.81	NA	NA	NA	NA	3321.15
	08/03/10	3368.96	59.21	NA	47.80	NA	NA	NA	NA	3321.16
	08/26/10	3368.96	59.21	NA	47.79	NA	NA	NA	NA	3321.17
	09/01/10	3368.96	59.21	NA	47.68	NA	NA	NA	NA	3321.28
	10/13/10	3368.96	59.21	NA	47.75	NA	NA	NA	NA	3321.21
	11/18/10	3368.96	59.21	NA	47.58	NA	NA	NA	NA	3321.38
	11/24/10	3368.96	59.21	NA	47.51	NA	NA	NA	NA	3321.45
	12/08/10	3368.96	59.21	NA	47.53	NA	NA	NA	NA	3321.43
MW-7	12/21/05	3370.25	59.35	NA	48.26	NA	NA	NA	NA	3321.99
	12/29/05	3370.25	NG	NA	48.05	NA	NA	NA	NA	3322.20
	01/05/06	3370.25	NG	NA	48.31	NA	NA	NA	NA	3321.94
	02/09/06	3370.25	NG	NA	48.09	NA	NA	NA	NA	3322.16
	02/22/06	3370.25	NG	NA	48.06	NA	NA	NA	NA	3322.19
	03/28/06	3370.25	58.77	NA	48.25	NA	NA	NA	NA	3322.00
	04/13/06	3370.25	NG	NA	48.38	NA	NA	NA	NA	3321.87
	04/25/06	3370.25	NG	NA	48.48	NA	NA	NA	NA	3321.77
	05/11/06	3370.25	NG	NA	48.53	NA	NA	NA	NA	3321.72
	05/24/06	3370.25	NG	NA	48.55	NA	NA	NA	NA	3321.70
	06/07/06	3370.25	NG	NA	48.68	NA	NA	NA	NA	3321.57
	06/15/06	3370.25	NG	NA	48.60	NA	NA	NA	NA	3321.65
	06/29/06	3370.25	NG	NA	48.86	NA	NA	NA	NA	3321.39
	07/11/06	3370.25	NG	NA	48.86	NA	NA	NA	NA	3321.39
	07/25/06	3370.25	NG	NA	48.97	NA	NA	NA	NA	3321.28
	08/09/06	3370.25	58.78	NA	49.04	NA	NA	NA	NA	3321.21
	08/22/06	3370.25	NG	NA	49.13	NA	NA	NA	NA	3321.12
	09/12/06	3370.25	58.73	NA	49.14	NA	NA	NA	NA	3321.11
	09/19/06	3370.25	NG	NA	49.05	NA	NA	NA	NA	3321.20
	10/03/06	3370.25	NG	NA	49.03	NA	NA	NA	NA	3321.22
	10/17/06	3370.25	NG	NA	48.92	NA	NA	NA	NA	3321.33
	10/31/06	3370.25	NG	NA	48.95	NA	NA	NA	NA	3321.30
	11/15/06	3370.25	NG	NA	48.96	NA	NA	NA	NA	3321.29
	12/06/06	3370.25	58.72	NA	48.80	NA	NA	NA	NA	3321.45
	12/13/06	3370.25	NG	NA	48.85	NA	NA	NA	NA	3321.40
	12/27/06	3370.25	NG	NA	48.60	NA	NA	NA	NA	3321.65
	01/03/07	3370.25	NG	NA	48.66	NA	NA	NA	NA	3321.59
	01/09/07	3370.25	NG	NA	48.80	NA	NA	NA	NA	3321.45
	01/18/07	3370.25	NG	NA	48.63	NA	NA	NA	NA	3321.62
	01/25/07	3370.25	NG	NA	48.55	NA	NA	NA	NA	3321.70
	01/31/07	3370.25	NG	NA	48.34	NA	NA	NA	NA	3321.91
	02/07/07	3370.25	NG	NA	48.50	NA	NA	NA	NA	3321.75
	02/14/07	3370.25	NG	NA	48.52	NA	NA	NA	NA	3321.73
	02/28/07	3370.25	58.80	NA	48.30	NA	NA	NA	NA	3321.95
	03/07/07	3370.25	NG	NA	48.57	NA	NA	NA	NA	3321.68
	04/04/07	3370.25	NG	NA	48.65	NA	NA	NA	NA	3321.60
	05/03/07	3370.25	NG	NA	48.38	NA	NA	NA	NA	3321.87
	05/30/07	3370.25	58.71	NA	48.41	NA	NA	NA	NA	3321.84
	06/06/07	3370.25	58.71	NA	48.21	NA	NA	NA	NA	3322.04
	07/05/07	3370.25	58.73	NA	48.48	NA	NA	NA	NA	3321.77
	07/31/07	3370.25	58.73	NA	48.51	NA	NA	NA	NA	3321.74
	09/07/07	3370.25	58.73	NA	48.91	NA	NA	NA	NA	3321.34
	10/10/07	3370.25	58.73	NA	48.69	NA	NA	NA	NA	3321.56
	11/13/07	3370.25	58.88	NA	48.64	NA	NA	NA	NA	3321.61
	12/05/07	3370.25	58.88	NA	48.59	NA	NA	NA	NA	3321.66
	01/09/08	3370.25	58.85	NA	48.47	NA	NA	NA	NA	3321.78
	02/06/08	3370.25	58.85	NA	48.45	NA	NA	NA	NA	3321.80
	02/27/08	3370.25	58.66	NA	48.44	NA	NA	NA	NA	3321.81
	04/02/08	3370.25	58.64	NA	48.45	NA	NA	NA	NA	3321.80
	05/20/08	3370.25	58.64	NA	48.76	NA	NA	NA	NA	3321.49
	06/18/08	3370.25	58.64	NA	48.85	NA	NA	NA	NA	3321.40
	07/07/08	3370.25	58.64	NA	48.85	NA	NA	NA	NA	3321.40
	08/18/08	3370.25	58.83	NA	49.11	NA	NA	NA	NA	3321.14
	10/15/08	3370.25	58.83	NA	49.23	NA	NA	NA	NA	3321.02
	11/20/08	3370.25	58.74	NA	49.46	NA	NA	NA	NA	3320.79
	12/21/08	3370.25	58.74	NA	49.48	NA	NA	NA	NA	3320.77
	01/07/09	3370.25	58.72	NA	49.33	NA	NA	NA	NA	3320.92
	02/04/09	3370.25	58.73	NA	49.46	NA	NA	NA	NA	3320.79
	02/18/09	3370.25	58.69	NA	49.43	NA	NA	NA	NA	3320.82
	03/04/09	3370.25	58.75	NA	49.27	NA	NA	NA	NA	3320.98
	04/08/09	3370.25	58.75	NA	49.14	NA	NA	NA	NA	3321.11
	05/06/09	3370.25	58.75	NA	49.22	NA	NA	NA	NA	3321.03
	05/20/09	3370.25	58.75	NA	49.48	NA	NA	NA	NA	3320.77
	06/03/09	3370.25	58.75	NA	49.36	NA	NA	NA	NA	3320.89

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
MW-7	07/15/09	3370.25	58.75	NA	49.12	NA	NA	NA	NA	3321.13
	08/05/09	3370.25	58.75	NA	49.02	NA	NA	NA	NA	3321.23
	08/27/09	3370.25	59.69	NA	49.01	NA	NA	NA	5	3321.24
	09/02/09	3370.25	59.69	NA	49.02	NA	NA	NA	NA	3321.23
	10/07/09	3370.25	59.69	NA	48.91	NA	NA	NA	NA	3321.34
	11/04/09	3370.25	59.69	NA	49.07	NA	NA	NA	NA	3321.18
	11/18/09	3370.25	59.69	NA	48.92	NA	NA	NA	NA	3321.33
	12/02/09	3370.25	59.69	NA	49.05	NA	NA	NA	NA	3321.20
	01/06/10	3370.25	59.69	NA	48.77	NA	NA	NA	NA	3321.48
	02/09/10	3370.25	59.69	NA	48.85	NA	NA	NA	NA	3321.40
	03/10/10	3370.25	59.69	NA	48.67	NA	NA	NA	NA	3321.58
	04/07/10	3370.25	59.69	NA	48.81	NA	NA	NA	NA	3321.44
	05/05/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	05/11/10	3370.25	59.69	NA	48.75	NA	NA	NA	NA	3321.50
	06/02/10	3370.25	59.69	NA	48.72	NA	NA	NA	NA	3321.53
	07/07/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	08/03/10	3370.25	59.69	NA	48.79	NA	NA	NA	NA	3321.46
	08/26/10	3370.25	59.69	NA	48.78	NA	NA	NA	NA	3321.47
	09/01/10	3370.25	59.69	NA	48.66	NA	NA	NA	NA	3321.59
	10/13/10	3370.25	59.69	NA	48.69	NA	NA	NA	NA	3321.56
	11/18/10	3370.25	59.69	NA	48.51	NA	NA	NA	NA	3321.74
	11/24/10	3370.25	59.69	NA	48.46	NA	NA	NA	NA	3321.79
	12/08/10	3370.25	59.69	NA	48.46	NA	NA	NA	NA	3321.79
MW-8	01/27/10	Well not surveyed	59.53	NA	44.41	NA	NA	NA	NA	Well not surveyed
	02/09/10		59.53	NA	44.50	NA	NA	NA	NA	
	03/10/10		59.53	NA	44.22	NA	NA	NA	NA	
	04/07/10		59.53	NA	44.36	NA	NA	NA	NA	
	05/05/10		59.53	NA	44.35	NA	NA	NA	NA	
	05/11/10		59.53	NA	44.30	NA	NA	NA	NA	
	06/02/10		59.53	NA	44.32	NA	NA	NA	NA	
	07/07/10		59.53	NA	44.41	NA	NA	NA	NA	
	08/03/10		59.53	NA	44.36	NA	NA	NA	NA	
	08/26/10		59.53	NA	44.35	NA	NA	NA	NA	
	09/01/10		59.53	NA	44.25	NA	NA	NA	NA	
	10/13/10		59.53	NA	44.33	NA	NA	NA	NA	
	11/18/10		59.53	NA	44.18	NA	NA	NA	NA	
	11/24/10		59.53	NA	44.11	NA	NA	NA	NA	
	12/08/10		59.53	NA	44.12	NA	NA	NA	NA	
RW-1	12/21/05	3368.12	60.50	46.52	46.52	0.00	Installed Sock	NA	NA	3321.60
	12/29/05	3368.12	NG	46.28	46.28	0.00	Sock	NA	NA	3321.84
	01/05/06	3368.12	NG	46.60	46.60	0.00	Sock	NA	NA	3321.52
	02/09/06	3368.12	NG	46.35	46.35	0.00	Sock	NA	NA	3321.77
	02/22/06	3368.12	NG	46.30	46.30	0.00	Sock	NA	NA	3321.82
	03/28/06	3368.12	NG	46.42	46.42	0.00	Sock	Lt Sheen	NA	3321.70
	04/13/06	3368.12	NG	46.60	46.60	0.00	Sock	Sheen	NA	3321.52
	04/25/06	3368.12	NG	46.78	46.78	0.00	Sock	Sheen	NA	3321.34
	05/11/06	3368.12	NG	46.82	46.82	0.00	Sock	Sheen	NA	3321.30
	05/24/06	3368.12	NG	46.80	46.80	0.00	Sock	Sheen	NA	3321.32
	06/07/06	3368.12	NG	46.91	46.91	0.00	Sock	Sheen	NA	3321.21
	06/07/06	3368.12	NG	47.10	47.10	0.00	Sock	Sheen	NA	3321.02
	06/15/06	3368.12	NG	46.96	46.96	0.00	Sock	Sheen	NA	3321.16
	06/29/06	3368.12	NG	47.26	47.26	0.00	Sock	Light	NA	3320.86
	07/11/06	3368.12	NG	47.17	47.22	0.05	Sock	Light	NA	3320.94
	07/25/06	3368.12	NG	47.43	47.60	0.17	Sock	Light	NA	3320.66
	08/09/06	3368.12	58.48	47.02	48.96	1.94	Flip Sock	10	NA	3320.81
	08/09/06	3368.12	NG	48.33	48.43	0.10	NA	NA	NA	3319.78
	08/09/06	3368.12	NG	47.20	47.60	0.40	2 hours later	NA	NA	3320.86
	08/22/06	3368.12	NG	47.30	48.77	1.47	Hand Bailed	2.5	7.5	3320.60
	08/22/06	3368.12	NG	48.20	48.25	0.05	New Sock	NA	NA	3319.91
	09/12/06	3368.12	58.52	47.10	48.82	1.72	Removed Sock	NA	NA	3320.76
	09/19/06	3368.12	NG	46.86	49.54	2.68	Hand Bailed	5	5	3320.86
	09/19/06	3368.12	NG	48.53	48.60	0.07	NA	NA	NA	3319.58
	10/03/06	3368.12	NG	46.80	49.42	2.62	Hand Bailed	4.5	5.5	3320.93
	10/03/06	3368.12	NG	47.70	47.74	0.04	No Sock	NA	NA	3320.41
	10/17/06	3368.12	NG	46.70	49.45	2.75	Hand Bailed	3.5	1.5	3321.01
	10/17/06	3368.12	NG	47.52	47.58	0.06	No Sock	NA	NA	3320.59
	10/31/06	3368.12	NG	46.75	49.63	2.88	Hand Bailed	3.5	1.5	3320.94
	10/31/06	3368.12	NG	47.88	47.99	0.11	No Sock	NA	NA	3320.22
	11/15/06	3368.12	NG	47.88	47.99	0.11	Hand Bailed	3	7	3320.22
	11/15/06	3368.12	NG	48.33	48.51	0.18	No Sock	NA	NA	3319.76
	12/06/06	3368.12	NG	46.64	49.41	2.77	NA	NA	NA	3321.06
	12/13/06	3368.12	NG	46.59	49.50	2.91	Hand Bailed	3.5	1.5	3321.09
	12/13/06	3368.12	NG	47.10	47.12	0.02	No Sock	NA	NA	3321.02
	12/20/06	3368.12	NG	46.41	49.05	2.64	Hand Bailed	2.5	7.5	3321.31
	12/20/06	3368.12	NG	47.51	47.70	0.19	No Sock	NA	NA	3320.58
	12/27/06	3368.12	NG	46.21	48.33	2.12	Hand Bailed	3.5	1.5	3321.59
	12/27/06	3368.12	NG	52.28	52.31	0.03	No Sock	NA	NA	3315.84
	01/03/07	3368.12	NG	46.60	48.88	2.28	Hand Bailed	3.5	6.5	3321.18

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	01/03/07	3368.12	NG	48.00	48.06	0.06	No Sock	NA	NA	3320.11
	01/09/07	3368.12	NG	46.92	47.24	0.32	Hand Bailed	3	6	3321.15
	01/09/07	3368.12	NG	47.05	47.11	0.06	No Sock	NA	NA	3321.06
	01/18/07	3368.12	NG	46.73	48.35	1.62	Hand Bailed	2	8	3321.15
	01/18/07	3368.12	NG	49.10	49.15	0.05	No Sock	NA	NA	3319.01
	01/25/07	3368.12	NG	46.70	47.55	0.85	Hand Bailed	2.5	7.5	3321.29
	01/25/07	3368.12	NG	48.55	48.82	0.27	No Sock	NA	NA	3319.53
	01/31/07	3368.12	NG	46.60	47.05	0.45	Hand Bailed	0.5	9.5	3321.45
	01/31/07	3368.12	NG	48.15	48.20	0.05	No Sock	NA	NA	3319.96
	02/07/07	3368.12	NG	46.52	47.19	0.67	Hand Bailed	0.75	9	3321.50
	02/07/07	3368.12	NG	48.36	48.42	0.06	No Sock	NA	NA	3319.75
	02/14/07	3368.12	NG	46.51	47.23	0.72	Hand Bailed	0.75	9	3321.50
	02/14/07	3368.12	NG	48.42	48.46	0.04	No Sock	NA	NA	3319.69
	02/21/07	3368.12	NG	46.77	47.40	0.63	Hand Bailed	0.75	9	3321.26
	02/21/07	3368.12	NG	48.94	48.94	0.00	No Sock	NA	NA	3319.18
	03/07/07	3368.12	NG	46.78	47.33	0.55	Hand Bailed	1	9	3321.26
	03/07/07	3368.12	NG	48.55	48.55	0.00	No Sock	NA	NA	3319.57
	03/14/07	3368.12	NG	46.75	47.12	0.37	Hand Bailed	0.5	1.25	3321.31
	03/14/07	3368.12	NG	47.20	47.24	0.04	Installed Sock	NA	NA	3320.91
	03/21/07	3368.12	NG	47.02	47.18	0.16	Hand Bailed	0.25	1.25	3321.08
	03/21/07	3368.12	NG	47.10	47.12	0.02	Sock	NA	NA	3321.02
	03/28/07	3368.12	NG	47.01	47.21	0.20	Sock	NA	NA	3321.08
	04/04/07	3368.12	NG	47.20	47.40	0.20	New Sock	NA	NA	3320.89
	04/10/07	3368.12	NG	46.80	46.83	0.03	Hand Bailed	Sheen	5	3321.32
	04/10/07	3368.12	NG	46.96	46.96	0.00	New Sock	NA	NA	3321.16
	04/18/07	3368.12	NG	46.92	46.92	0.00	Hand Bailed	Sheen	10	3321.20
	04/18/07	3368.12	NG	47.00	47.00	0.00	New Sock	NA	NA	3321.12
	04/24/07	3368.12	NG	46.87	46.88	0.01	Hand Bailed	Sheen	10	3321.25
	04/24/07	3368.12	NG	46.93	46.93	0.00	New Sock	NA	NA	3321.19
	05/03/07	3368.12	NG	46.96	46.98	0.02	Hand Bailed	Sheen	10	3321.16
	05/03/07	3368.12	NG	48.00	48.00	0.00	New Sock	NA	NA	3320.12
	05/11/07	3368.12	NG	47.00	47.00	0.00	New Sock	NA	NA	3321.12
RW-1	05/16/07	3368.12	NG	46.86	46.86	0.00	Hand Bailed	Sheen	10	3321.26
	05/16/07	3368.12	NG	48.81	48.81	0.00	New Sock	NA	NA	3319.31
	05/23/07	3368.12	NG	46.62	46.62	0.00	Hand Bailed	Sheen	10	3321.50
	05/23/07	3368.12	NG	48.05	48.05	0.00	New Sock	NA	NA	3320.07
	05/31/07	3368.12	NG	46.56	46.56	0.00	Flip Sock	NA	NA	3321.56
	06/06/07	3368.12	58.41	46.55	46.55	0.00	Hand Bailed	Sheen	10	3321.57
	06/06/07	3368.12	58.41	48.30	48.30	0.00	Sock	NA	NA	3319.82
	06/13/07	3368.12	58.41	46.67	46.67	0.00	Hand Bailed	Sheen	10	3321.45
	06/13/07	3368.12	58.41	48.10	48.10	0.00	New Sock	NA	NA	3320.02
	06/19/07	3368.12	58.41	46.68	46.68	0.00	Hand Bailed	Sheen	10	3321.44
	06/19/07	3368.12	58.41	47.71	47.71	0.00	Flip Sock	NA	NA	3320.41
	06/27/07	3368.12	58.41	46.70	46.70	0.00	Hand Bailed	Sheen	10	3321.42
	06/27/07	3368.12	58.41	47.93	47.93	0.00	Sock	NA	NA	3320.19
	07/05/07	3368.12	58.55	46.78	46.78	0.00	Hand Bailed	Sheen	10	3321.34
	07/05/07	3368.12	58.55	48.72	48.72	0.00	New Sock	NA	NA	3319.40
	07/11/07	3368.12	58.55	46.75	46.75	0.00	Hand Bailed	Sheen	10	3321.37
	07/11/07	3368.12	58.55	47.86	47.86	0.00	Sock	NA	NA	3320.26
	07/19/07	3368.12	58.55	47.10	47.10	0.00	Hand Bailed	Sheen	10	3321.02
	07/19/07	3368.12	58.55	49.06	49.06	0.00	Flip Sock	NA	NA	3319.06
	07/24/07	3368.12	58.55	47.21	47.21	0.00	Hand Bailed	Sheen	10	3320.91
	07/24/07	3368.12	58.55	48.92	48.92	0.00	Sock	NA	NA	3319.20
	07/31/07	3368.12	58.53	47.24	47.24	0.00	Hand Bailed	Sheen	10	3320.88
	07/31/07	3368.12	58.53	48.86	48.86	0.00	New Sock	NA	NA	3319.26
	08/09/07	3368.12	58.53	47.14	47.14	0.00	Hand Bailed	Sheen	10	3320.98
	08/09/07	3368.12	58.53	48.82	48.82	0.00	New Sock	NA	NA	3319.30
	08/16/07	3368.12	58.53	47.15	47.15	0.00	Hand Bailed	Sheen	10	3320.97
	08/16/07	3368.12	58.53	48.71	48.82	0.11	Sock	NA	NA	3319.39
	08/22/07	3368.12	58.53	46.99	46.99	0.00	Hand Bailed	Sheen	10	3321.13
	08/22/07	3368.12	58.53	48.61	48.61	0.00	New Sock	NA	NA	3319.51
	08/28/07	3368.12	58.53	47.08	47.08	0.00	Hand Bailed	Sheen	10	3321.04
	08/28/07	3368.12	58.53	48.92	48.92	0.00	New Sock	NA	NA	3319.20
	09/07/07	3368.12	58.53	47.10	47.10	0.00	New Sock	NA	NA	3321.02
	09/13/07	3368.12	58.53	47.21	47.21	0.00	Hand Bailed	Sheen	10	3320.91
	09/13/07	3368.12	58.53	48.77	48.77	0.00	New Sock	NA	NA	3319.35
	09/18/07	3368.12	58.53	47.18	47.18	0.00	Hand Bailed	Sheen	10	3320.94
	09/18/07	3368.12	58.53	48.70	48.70	0.00	New Sock	NA	NA	3319.42
	09/26/07	3368.12	58.53	47.23	47.23	0.00	Hand Bailed	Sheen	10	3320.89
	09/26/07	3368.12	58.53	48.60	48.60	0.00	New Sock	NA	NA	3319.52
	10/04/07	3368.12	58.53	47.30	47.30	0.00	Hand Bailed	Sheen	9	3320.82
	10/04/07	3368.12	58.53	48.58	48.58	0.00	New Sock	NA	NA	3319.54
	10/10/07	3368.12	58.55	47.37	47.37	0.00	Hand Bailed	Sheen	9	3320.75
	10/10/07	3368.12	58.55	52.81	52.81	0.00	New Sock	NA	NA	3315.31
	10/17/07	3368.12	58.55	47.39	47.39	0.00	Hand Bailed	Sheen	9	3320.73
	10/17/07	3368.12	58.55	52.79	52.79	0.00	Sock	NA	NA	3315.33
	10/24/07	3368.12	58.55	47.25	47.32	0.07	Hand Bailed	1	90	3320.86
	10/24/07	3368.12	58.55	48.20	48.20	0.00	Flip Sock	NA	NA	3319.92
	10/31/07	3368.12	58.55	47.14	47.20	0.06	Hand Bailed	1	10	3320.97
	10/31/07	3368.12	58.55	47.30	47.30	0.00	New Sock	NA	NA	3320.82

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	11/07/07	3368.12	58.55	47.16	47.28	0.12	Hand Bailed	0.25	9	3320.94
	11/07/07	3368.12	58.55	47.24	47.28	0.04	Sock	NA	NA	3320.87
	11/13/07	3368.12	58.55	47.02	47.11	0.09	New Sock	NA	NA	3321.09
	11/20/07	3368.12	58.55	47.14	47.15	0.01	Flip Sock	NA	NA	3320.98
	11/27/07	3368.12	58.55	47.13	47.13	0.00	Hand Bailed	1	8	3320.99
	11/27/07	3368.12	58.55	47.20	47.20	0.00	New Sock	NA	NA	3320.92
	12/05/07	3368.12	58.55	47.10	47.18	0.08	Hand Bailed	0.1	8	3321.01
	12/05/07	3368.12	58.55	47.11	47.11	0.00	New Sock	NA	NA	3321.01
	12/12/07	3368.12	58.55	47.08	47.12	0.04	Hand Bailed	0.1	8	3321.03
	12/12/07	3368.12	58.55	47.10	47.10	0.00	New Sock	NA	NA	3321.02
	12/18/07	3368.12	58.55	46.98	46.98	0.00	Hand Bailed	0	10	3321.14
	12/18/07	3368.12	58.55	47.39	47.39	0.00	New Sock	NA	NA	3320.73
	12/28/07	3368.12	58.55	46.96	46.96	0.00	Hand Bailed	0	9	3321.16
	12/28/07	3368.12	58.55	47.02	47.02	0.00	New Sock	NA	NA	3321.10
	01/03/08	3368.12	58.55	47.07	47.07	0.00	Hand Bailed	0	5	3321.05
	01/03/08	3368.12	58.55	47.02	47.02	0.00	New Sock	NA	NA	3321.10
	01/09/08	3368.12	58.55	47.15	47.15	0.00	Hand Bailed	0	5	3320.97
	01/09/08	3368.12	58.55	46.83	46.83	0.00	New Sock	NA	NA	3321.29
	01/17/08	3368.12	58.55	46.91	46.91	0.00	Hand Bailed	0	10	3321.21
	01/17/08	3368.12	58.55	46.83	46.83	0.00	New Sock	NA	NA	3321.29
	01/23/08	3368.12	58.55	46.85	46.85	0.00	Hand Bailed	0	10	3321.27
	01/23/08	3368.12	58.55	49.28	49.28	0.00	Flip Sock	NA	NA	3318.84
	01/30/08	3368.12	58.55	46.93	46.93	0.00	Hand Bailed	0	10	3321.19
	01/30/08	3368.12	58.55	48.83	48.83	0.00	Flip Sock	NA	NA	3319.29
	02/06/08	3368.12	58.55	46.96	46.96	0.00	Hand Bailed	0	20	3321.16
	02/06/08	3368.12	58.55	48.34	48.34	0.00	Flip Sock	NA	NA	3319.78
	02/13/08	3368.12	58.55	46.88	46.88	0.00	Hand Bailed	0	20	3321.24
	02/13/08	3368.12	58.55	49.12	49.12	0.00	New Sock	NA	NA	3319.00
RW-1	02/19/08	3368.12	58.55	46.91	46.91	0.00	Hand Bailed	0	20	3321.21
	02/19/08	3368.12	58.55	48.60	48.60	0.00	Flip Sock	NA	NA	3319.52
	02/27/08	3368.12	58.55	47.14	47.14	0.00	Hand Bailed	0	20	3320.98
	02/27/08	3368.12	58.55	48.19	48.19	0.00	New Sock	NA	NA	3319.93
	03/04/08	3368.12	58.55	46.78	46.78	0.00	Hand Bailed	0	20	3321.34
	03/04/08	3368.12	58.55	48.46	48.46	0.00	Flip Sock	NA	NA	3319.66
	03/12/08	3368.12	58.55	46.92	46.92	0.00	Hand Bailed	0	20	3321.20
	03/12/08	3368.12	58.55	49.05	49.05	0.00	New Sock	NA	NA	3319.07
	03/19/08	3368.12	58.55	46.95	46.95	0.00	Hand Bailed	0	20	3321.17
	03/19/08	3368.12	58.55	48.58	48.58	0.00	Flip Sock	NA	NA	3319.54
	03/26/08	3368.12	58.55	47.12	47.12	0.00	Hand Bailed	0	20	3321.00
	03/26/08	3368.12	58.55	48.40	48.40	0.00	Sock	NA	NA	3319.72
	04/02/08	3368.12	58.55	46.94	46.98	0.04	Hand Bailed	0	20	3321.17
	04/02/08	3368.12	58.55	48.00	48.00	0.00	New Sock	NA	NA	3320.12
	04/09/08	3368.12	58.55	47.02	47.02	0.00	Hand Bailed	0	20	3321.10
	04/09/08	3368.12	58.55	47.89	47.89	0.00	Flip Sock	NA	NA	3320.23
	04/16/08	3368.12	58.55	47.05	47.05	0.00	Hand Bailed	0	20	3321.07
	04/16/08	3368.12	58.55	47.96	47.96	0.00	Sock	NA	NA	3320.16
	04/24/08	3368.12	58.55	47.03	47.13	0.10	Sock	NA	NA	3321.08
	04/30/08	3368.12	58.55	46.82	46.90	0.08	Hand Bailed	0	20	3321.29
	04/30/08	3368.12	58.55	50.70	50.70	0.00	Sock	NA	NA	3317.42
	05/07/08	3368.12	58.55	46.84	46.96	0.12	Hand Bailed	0.25	20	3321.26
	05/07/08	3368.12	58.55	47.63	47.63	0.00	Sock	NA	NA	3320.49
	05/14/08	3368.12	58.55	46.89	47.07	0.18	Hand Bailed	0.25	20	3321.20
	05/14/08	3368.12	58.55	47.96	47.96	0.00	New Sock	NA	NA	3320.16
	05/20/08	3368.12	58.55	47.25	47.25	0.00	Hand Bailed	0.25	23	3320.87
	05/20/08	3368.12	58.55	48.44	48.44	0.00	New Sock	NA	NA	3319.68
	05/22/08	3368.12	58.22	47.27	47.27	0.00	New Sock	0	22.5	3320.85
	05/28/08	3368.12	58.22	47.26	47.26	0.00	Hand Bailed	0	20	3320.86
	05/28/08	3368.12	58.22	48.12	48.12	0.00	New Sock	NA	NA	3320.00
	06/04/08	3368.12	58.22	47.30	47.30	0.00	New Sock	0	20	3320.82
	06/04/08	3368.12	58.22	51.50	51.50	0.00	Pump	NA	NA	3316.62
	06/11/08	3368.12	58.22	47.32	47.32	0.00	New Sock	0	20	3320.80
	06/11/08	3368.12	58.22	49.96	49.96	0.00	Pump	NA	NA	3318.16
	06/18/08	3368.12	58.22	47.35	49.96	2.61	Pump	0	20	3320.38
	06/18/08	3368.12	58.22	48.99	48.99	0.00	New Sock	NA	NA	3319.13
	06/26/08	3368.12	58.22	47.41	47.41	0.00	Pump	0	20	3320.71
	06/26/08	3368.12	58.22	47.53	47.53	0.00	New Sock	NA	NA	3320.59
	07/02/08	3368.12	58.22	47.43	47.43	0.00	Pump	0	20	3320.69
	07/02/08	3368.12	58.22	48.26	48.26	0.00	New Sock	NA	NA	3319.86
	07/07/08	3368.12	58.22	47.40	47.40	0.00	Pump	0	20	3320.72
	07/07/08	3368.12	58.22	48.31	48.31	0.00	New Sock	NA	NA	3319.81
	07/16/08	3368.12	58.22	47.44	47.44	0.00	Pump	0	20	3320.68
	07/16/08	3368.12	58.22	49.01	49.01	0.00	Flip Sock	NA	NA	3319.11
	07/22/08	3368.12	58.22	47.49	47.49	0.00	Pump	0	20	3320.63
	07/22/08	3368.12	58.22	48.91	48.91	0.00	New Sock	NA	NA	3319.21
	07/29/08	3368.12	58.22	47.53	47.53	0.00	Pump	0	20	3320.59
	07/29/08	3368.12	58.22	58.99	58.99	0.00	Sock	NA	NA	3309.13
	08/05/08	3368.12	58.22	47.52	47.57	0.05	Pump	0	20	3320.59
	08/05/08	3368.12	58.22	48.31	48.31	0.00	New Sock	NA	NA	3319.81
	08/13/08	3368.12	58.22	47.60	47.70	0.10	Pump	0	20	3320.51
	08/13/08	3368.12	58.22	48.92	48.92	0.00	New Sock	NA	NA	3319.20

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-1	08/20/08	3368.12	58.22	47.30	47.69	0.39	Sock	NA	NA	3320.76
	08/27/08	3368.12	58.22	47.35	47.71	0.36	Pump	0.5	19	3320.72
	08/27/08	3368.12	58.22	48.46	48.56	0.10	New Sock	NA	NA	3319.65
	09/02/08	3368.12	58.22	47.51	47.88	0.37	New Sock	NA	NA	3320.55
	09/09/08	3368.12	58.22	47.68	47.83	0.15	Sock	NA	NA	3320.42
	09/12/08	3368.12	58.22	47.75	49.05	1.30	Pump	2	8	3320.18
	09/12/08	3368.12	58.22	47.62	47.62	0.00	New Sock	NA	NA	3320.50
	09/17/08	3368.12	58.22	47.75	49.05	1.30	Pump	0.5	9.5	3320.18
	09/17/08	3368.12	58.22	49.10	49.10	0.00	New Sock	NA	NA	3319.02
	10/01/08	3368.12	58.22	47.19	49.81	2.62	Pump	1	9	3320.54
	10/01/08	3368.12	58.22	50.08	50.08	0.00	Removed Sock	NA	NA	3318.04
	10/08/08	3368.12	58.22	45.10	49.68	4.58	Pump	4	16	3322.33
	10/08/08	3368.12	58.22	48.75	48.77	0.02	NA	NA	NA	3319.37
	10/15/08	3368.12	58.22	47.12	49.59	2.47	Pump	3	37	3320.63
	10/15/08	3368.12	58.22	49.89	49.89	0.00	NA	NA	NA	3318.23
	10/22/08	3368.12	58.22	47.25	49.10	1.85	Pump	6	34	3320.59
	10/22/08	3368.12	58.22	48.26	49.10	0.84	NA	NA	NA	3319.73
	10/29/08	3368.12	58.22	47.14	49.63	2.49	Pump	3	27	3320.61
	10/29/08	3368.12	58.22	49.20	49.20	0.00	NA	NA	NA	3318.92
	11/05/08	3368.12	58.22	47.19	49.57	2.38	Pump	3	27	3320.57
	11/05/08	3368.12	58.22	48.34	49.02	0.68	NA	NA	NA	3319.68
	11/12/08	3368.12	58.22	47.21	49.84	2.63	Pump	3	37	3320.52
	11/12/08	3368.12	58.22	47.84	47.84	0.00	NA	NA	NA	3320.28
	11/20/08	3368.12	58.22	47.40	49.91	2.51	Pump	3	37	3320.34
	11/20/08	3368.12	58.22	49.25	49.25	0.00	NA	NA	NA	3318.87
	11/26/08	3368.12	58.22	47.29	49.46	2.17	Pump	3	15	FALSE
	11/26/08	3368.12	58.22	48.06	48.16	0.10	New Sock	NA	NA	3320.05
	12/03/08	3368.12	58.22	47.54	49.21	1.67	Pump	2	13	3320.33
	12/03/08	3368.12	58.22	48.06	48.08	0.02	New Sock	NA	NA	3320.06
	12/10/08	3368.12	58.22	47.58	48.59	1.01	New Sock	3	12	3320.39
	12/10/08	3368.12	58.22	47.82	48.06	0.24	NA	NA	NA	3320.26
	12/17/08	3368.12	58.22	47.49	48.31	0.82	Flip Sock	2.5	12.5	3320.51
	12/17/08	3368.12	58.22	47.63	47.96	0.33	Flip Sock	NA	NA	3320.44
	12/21/08	3368.12	58.22	47.40	50.00	2.60	No Sock	0.5	11	3320.33
	12/21/08	3368.12	58.22	47.75	48.03	0.28	Needs hand bailed	NA	NA	3320.33
	12/31/08	3368.12	58.22	47.36	49.93	2.57	Hand Bailed	6	9	3320.37
	12/31/08	3368.12	58.22	47.81	47.89	0.08	NA	NA	NA	3320.30
	01/07/09	3368.12	58.70	47.30	49.53	2.23	Hand Bailed	10	17	3320.49
	01/07/09	3368.12	58.70	48.87	48.90	0.03	NA	NA	NA	3319.25
	01/15/09	3368.12	58.70	47.43	49.81	2.38	Pump	1	16	3320.33
	01/15/09	3368.12	58.70	48.56	48.56	0.00	NA	NA	NA	3319.56
	01/22/09	3368.12	58.70	47.31	49.49	2.18	Pump	1	19	3320.48
	01/22/09	3368.12	58.70	48.00	48.00	0.00	NA	NA	NA	3320.12
	01/28/09	3368.12	58.70	47.39	49.29	1.90	Pump	4	20	3320.45
	01/28/09	3368.12	58.70	48.31	48.31	0.00	NA	NA	NA	3319.81
	02/04/09	3368.12	58.70	47.48	49.57	2.09	Pump	1	19	3320.33
	02/04/09	3368.12	58.70	48.23	48.24	0.01	NA	NA	NA	3319.89
	02/11/09	3368.12	58.70	47.52	49.37	1.85	Pump	6	24	3320.32
	02/11/09	3368.12	58.70	48.18	48.18	0.00	NA	NA	NA	3319.94
	02/18/09	3368.12	58.70	47.44	49.46	2.02	Pump	1.5	18.5	3320.38
	02/18/09	3368.12	58.70	48.34	48.34	0.00	NA	NA	NA	3319.78
	02/25/09	3368.12	58.70	47.38	49.25	1.87	Pump	0.5	34.5	3320.46
	02/25/09	3368.12	58.70	48.57	48.57	0.00	NA	NA	NA	3319.55
	03/04/09	3368.12	58.70	47.36	49.00	1.64	Pump	1	29	3320.51
	03/04/09	3368.12	58.70	48.55	48.55	0.00	NA	NA	NA	3319.57
	03/11/09	3368.12	58.70	47.56	48.93	1.37	Pump	2	18	3320.35
	03/11/09	3368.12	58.70	48.17	48.17	0.00	NA	NA	NA	3319.95
	03/18/09	3368.12	58.70	47.34	48.79	1.45	Pump	1	19	3320.56
	03/18/09	3368.12	58.70	48.14	48.14	0.00	NA	NA	NA	3319.98
	03/25/09	3368.12	58.70	47.33	48.59	1.26	Pump	2.5	17.5	3320.60
	03/25/09	3368.12	58.70	48.29	48.29	0.00	NA	NA	NA	3319.83
	04/01/09	3368.12	58.70	47.24	48.25	1.01	Hand Bailed	1	9.75	3320.73
	04/01/09	3368.12	58.70	48.71	48.71	0.00	NA	NA	NA	3319.41
	04/08/09	3368.12	58.70	47.27	48.54	1.27	Pump	1	19	3320.66
	04/08/09	3368.12	58.70	48.72	48.72	0.00	NA	NA	NA	3319.40
	04/15/09	3368.12	58.70	47.29	48.33	1.04	Pump	1	19	3320.67
	04/15/09	3368.12	58.70	50.63	50.63	0.00	NA	NA	NA	3317.49
	04/22/09	3368.12	58.70	47.26	48.78	1.52	Pump	2.25	27.5	3320.63
	04/22/09	3368.12	58.70	49.08	49.08	0.00	NA	NA	NA	3319.04
	04/29/09	3368.12	58.70	47.32	48.43	1.11	Pump	1.5	18.5	3320.63
	04/29/09	3368.12	58.70	48.32	48.32	0.00	NA	NA	NA	3319.80
	05/06/09	3368.12	58.70	47.38	48.50	1.12	Pump	1.5	18.5	3320.57
	05/06/09	3368.12	58.70	47.75	47.75	0.00	NA	NA	NA	3320.37
	05/14/09	3368.12	58.70	47.49	49.10	1.61	Pump	1	19	3320.39
	05/14/09	3368.12	58.70	48.27	48.27	0.00	NA	NA	NA	3319.85
	05/20/09	3368.12	58.70	47.49	49.28	1.79	NA	NA	NA	3320.36
	05/28/09	3368.12	58.70	47.47	49.18	1.71	Pump	1	19	3320.39
	05/28/09	3368.12	58.70	48.39	48.39	0.00	NA	NA	NA	3319.73
	06/03/09	3368.12	58.70	47.47	49.38	1.91	Pump	1.5	24.5	3320.36
	06/03/09	3368.12	58.70	49.03	49.03	0.00	NA	NA	NA	3319.09

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	06/11/09	3368.12	58.70	47.39	49.50	2.11	Pump	1.5	24.5	3320.41
	06/11/09	3368.12	58.70	49.41	49.41	0.00	NA	NA	NA	3318.71
	06/17/09	3368.12	58.70	47.38	49.10	1.72	Pump	3	22	3320.48
	06/17/09	3368.12	58.70	49.25	49.25	0.00	NA	NA	NA	3318.87
	06/23/09	3368.12	58.70	47.52	48.50	0.98	Pump	1	14	3320.45
	06/23/09	3368.12	58.70	49.50	49.50	0.00	NA	NA	NA	3318.62
	07/01/09	3368.12	58.70	47.41	48.60	1.19	Pump	2	13	3320.53
	07/01/09	3368.12	58.70	49.35	49.35	0.00	NA	NA	NA	3318.77
	07/07/09	3368.12	58.70	47.40	48.35	0.95	Pump	1	14	3320.58
	07/07/09	3368.12	58.70	48.94	48.94	0.00	NA	NA	NA	3319.18
	07/15/09	3368.12	58.70	47.36	48.64	1.28	Pump	3	7	3320.57
	07/15/09	3368.12	58.70	48.02	48.02	0.00	NA	NA	NA	3320.10
	07/29/09	3368.12	58.70	47.34	48.31	0.97	Pump	0.5	19.5	3320.63
	08/05/09	3368.12	58.70	47.40	48.13	0.73	Pump	1	9	3320.61
	08/05/09	3368.12	58.70	49.45	49.45	0.00	NA	NA	NA	3318.67
	08/12/09	3368.12	58.70	47.34	48.05	0.71	Pump	1.5	18.5	3320.67
	08/12/09	3368.12	58.70	50.35	50.35	0.00	NA	NA	NA	3317.77
	08/19/09	3368.12	58.70	47.26	47.89	0.63	Pump	0.5	14.75	3320.77
	08/19/09	3368.12	58.70	49.05	49.05	0.00	NA	NA	NA	3319.07
	08/27/09	3368.12	58.70	47.30	48.03	0.73	Pump	0.5	14.5	3320.71
	08/27/09	3368.12	58.70	48.10	48.10	0.00	NA	NA	NA	3320.02
	09/02/09	3368.12	58.70	47.32	47.96	0.64	Pump	1	15	3320.70
	09/02/09	3368.12	58.70	48.71	48.71	0.00	NA	NA	NA	3319.41
	09/09/09	3368.12	58.70	47.31	47.93	0.62	Pump	0.25	14.75	3320.72
	09/09/09	3368.12	58.70	48.13	48.13	0.00	NA	NA	NA	3319.99
	09/16/09	3368.12	58.70	47.36	48.01	0.65	Pump	0.5	14.5	3320.66
	09/16/09	3368.12	58.70	49.80	49.80	0.00	NA	NA	NA	3318.32
	09/23/09	3368.12	58.70	47.31	47.96	0.65	Pump	0.5	9.5	3320.71
	09/23/09	3368.12	58.70	47.57	47.57	0.00	NA	NA	NA	3320.55
	09/23/09	3368.12	58.70	47.42	47.44	0.02	Pump	NA	10	3320.70
RW-1	09/23/09	3368.12	58.70	50.13	50.13	0.00	NA	NA	NA	3317.99
	09/30/09	3368.12	58.70	47.25	47.85	0.60	Pump	0.5	9.5	3320.78
	09/30/09	3368.12	58.70	50.20	50.20	0.00	NA	AM	NA	3317.92
	09/30/09	3368.12	58.70	47.25	47.36	0.11	Pump	0.25	9.75	3320.85
	09/30/09	3368.12	58.70	48.70	48.70	0.00	NA	PM	NA	3319.42
	10/07/09	3368.12	58.70	47.30	47.91	0.61	Pump	0.25	9.75	3320.73
	10/07/09	3368.12	58.70	49.08	49.08	0.00	NA	AM	NA	3319.04
	10/07/09	3368.12	58.70	47.30	47.41	0.11	Pump	0.25	9.75	3320.80
	10/07/09	3368.12	58.70	49.92	49.92	0.00	NA	PM	NA	3318.20
	10/14/09	3368.12	58.70	47.32	47.86	0.54	Pump	0.5	9.5	3320.72
	10/14/09	3368.12	58.70	48.96	48.96	0.00	NA	PM	NA	3319.16
	10/14/09	3368.12	58.70	47.29	47.33	0.04	Pump	Sheen	10	3320.82
	10/14/09	3368.12	58.70	48.57	48.57	0.00	NA	PM	NA	3319.55
	10/21/09	3368.12	58.70	47.28	47.65	0.37	Pump	0.5	9.5	3320.78
	10/21/09	3368.12	58.70	49.01	49.01	0.00	NA	NA	NA	3319.11
	10/28/09	3368.12	58.70	47.20	47.65	0.45	Pump	0.25	19.75	3320.85
	10/28/09	3368.12	58.70	48.73	48.73	0.00	NA	NA	NA	3319.39
	11/04/09	3368.12	58.70	47.43	48.13	0.70	Pump	0.5	9.5	3320.59
	11/04/09	3368.12	58.70	49.24	49.24	0.00	NA	AM	NA	3318.88
	11/04/09	3368.12	58.70	47.49	47.53	0.04	Pump	NA	10	3320.62
	11/04/09	3368.12	58.70	48.88	48.88	0.00	NA	PM	NA	3319.24
	11/11/09	3368.12	58.70	47.46	47.96	0.50	Pump	0.5	9.5	3320.59
	11/11/09	3368.12	58.70	49.59	49.59	0.00	NA	AM	NA	3318.53
	11/11/09	3368.12	58.70	47.45	47.51	0.06	Pump	Sheen	10	3320.66
	11/11/09	3368.12	58.70	48.70	48.70	0.00	NA	PM	NA	3319.42
	11/18/09	3368.12	58.70	48.31	48.76	0.45	Pump	0.25	20	3319.74
	11/18/09	3368.12	58.70	49.45	49.45	0.00	NA	NA	NA	3318.67
	11/25/09	3368.12	58.70	47.45	48.01	0.56	Pump	0.5	9.5	3320.59
	11/25/09	3368.12	58.70	49.30	49.30	0.00	NA	NA	NA	3318.82
	12/02/09	3368.12	58.70	47.45	47.95	0.50	Pump	0.25	9.75	3320.60
	12/02/09	3368.12	58.70	49.30	50.66	1.36	NA	NA	NA	3318.62
	12/09/09	3368.12	58.70	47.46	48.00	0.54	Pump	0.25	20	3320.58
	12/09/09	3368.12	58.70	49.54	49.54	0.00	NA	NA	NA	3318.58
	12/16/09	3368.12	58.70	47.43	48.06	0.63	Pump	0.5	14.5	3320.60
	12/16/09	3368.12	58.70	48.95	49.85	0.90	NA	NA	NA	3319.04
	12/23/09	3368.12	58.70	47.23	47.60	0.37	Pump	0.5	19.5	3320.83
	12/23/09	3368.12	58.70	50.22	50.22	0.00	NA	NA	NA	3317.90
	12/30/09	3368.12	58.70	47.27	47.81	0.54	Pump	0.25	19.75	3320.77
	12/30/09	3368.12	58.70	49.28	49.28	0.00	NA	NA	NA	3318.84
	01/06/10	3368.12	58.70	47.13	47.63	0.50	Pump	0.25	9.75	3320.92
	01/06/10	3368.12	58.70	49.54	49.54	0.00	NA	NA	NA	3318.58
	01/13/10	3368.12	58.70	47.22	47.80	0.58	Pump	0.25	9.75	3320.81
	01/13/10	3368.12	58.70	48.44	48.44	0.00	NA	NA	NA	3319.68
	01/27/10	3368.12	58.70	47.15	47.76	0.61	Pump	0.5	9.5	3320.88
	01/27/10	3368.12	58.70	48.70	48.70	0.00	NA	NA	NA	3319.42
	02/11/10	3368.12	58.70	47.10	47.59	0.49	Pump	sheen	10	3320.95
	02/11/10	3368.12	58.70	48.42	48.42	0.00	NA	NA	NA	3319.70
	02/17/10	3368.12	58.70	47.17	47.75	0.58	Pump	0.5	9.5	3320.86
	02/17/10	3368.12	58.70	48.80	48.80	0.00	NA	NA	NA	3319.32
	03/02/10	3368.12	58.70	47.13	47.65	0.52	Pump	sheen	10	3320.91
	03/02/10	3368.12	58.70	48.54	48.54	0.00	NA	NA	NA	3319.58

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-1	03/10/10	3368.12	58.70	47.05	47.38	0.33	Pump	sheen	10	3321.02
	03/10/10	3368.12	58.70	48.44	48.44	0.00	NA	NA	NA	3319.68
	03/17/10	3368.12	58.70	47.16	47.74	0.58	Pump	0.25	14.75	3320.87
	03/17/10	3368.12	58.70	48.98	48.98	0.00	NA	NA	NA	3319.14
	03/24/10	3368.12	58.70	47.12	47.52	0.40	Pump	sheen	10	3320.94
	03/24/10	3368.12	58.70	48.61	48.61	0.00	NA	NA	NA	3319.51
	03/31/10	3368.12	58.70	47.06	47.45	0.39	Pump	0.5	29.5	3321.00
	03/31/10	3368.12	58.70	48.10	48.10	0.00	NA	NA	NA	3320.02
	04/07/10	3368.12	58.70	47.15	47.69	0.54	Pump	sheen	15	3320.89
	04/07/10	3368.12	58.70	48.52	48.52	0.00	NA	NA	NA	3319.60
	04/14/10	3368.12	58.70	47.12	47.55	0.43	Pump	0.25	19.75	3320.94
	04/14/10	3368.12	58.70	48.11	48.11	0.00	NA	NA	NA	3320.01
	04/21/10	3368.12	58.70	47.03	47.18	0.15	Pump	sheen	20	3321.07
	04/21/10	3368.12	58.70	47.90	47.90	0.00	NA	NA	NA	3320.22
	04/28/10	3368.12	58.70	47.12	47.34	0.22	Pump	sheen	15	3320.97
	04/28/10	3368.12	58.70	49.13	49.13	0.00	NA	NA	NA	3318.99
	05/05/10	3368.12	58.70	47.10	47.46	0.36	Pump	0.5	9.5	3320.97
	05/05/10	3368.12	58.70	50.25	50.25	0.00	NA	NA	NA	3317.87
	05/11/10	3368.12	58.70	47.10	47.38	0.28	Pump	sheen	22	3320.98
	05/11/10	3368.12	58.70	48.82	48.82	0.00	NA	NA	NA	3319.30
	05/19/10	3368.12	58.70	47.11	47.42	0.31	Pump	0.25	9.75	3320.96
	05/19/10	3368.12	58.70	48.45	48.45	0.00	NA	NA	NA	3319.67
	05/29/10	3368.12	58.70	47.15	47.60	0.45	Pump	0.25	19.75	3320.90
	05/29/10	3368.12	58.70	48.05	48.05	0.00	NA	NA	NA	3320.07
	06/02/10	3368.12	58.70	47.15	47.35	0.20	Pump	sheen	15	3320.94
	06/02/10	3368.12	58.70	49.05	49.05	0.00	NA	NA	NA	3319.07
	06/12/10	3368.12	58.70	47.20	47.56	0.36	Pump	<0.25	10	3320.87
	06/12/10	3368.12	58.70	48.95	48.95	0.00	NA	NA	NA	3319.17
	06/15/10	3368.12	58.70	47.18	47.48	0.30	Pump	2	13	3320.90
	06/15/10	3368.12	58.70	49.26	49.26	0.00	NA	NA	NA	3318.86
	06/25/10	3368.12	58.70	47.20	47.60	0.40	Pump	<0.25	10	3320.86
	06/25/10	3368.12	58.70	49.30	49.30	0.00	NA	NA	NA	3318.82
	06/30/10	3368.12	58.70	47.23	47.68	0.45	NA	NA	NA	3320.82
	07/07/10	3368.12	58.70	47.21	47.67	0.46	Pump	0.5	9.5	3320.84
	07/07/10	3368.12	58.70	48.56	48.56	0.00	NA	NA	NA	3319.56
	07/14/10	3368.12	58.70	47.19	47.50	0.31	Pump	sheen	15	3320.88
	07/14/10	3368.12	58.70	49.06	49.06	0.00	NA	NA	NA	3319.06
	07/21/10	3368.12	58.70	47.20	47.55	0.35	Pump	<0.25	15	3320.87
	07/21/10	3368.12	58.70	49.54	49.54	0.00	NA	NA	NA	3318.58
	07/28/10	3368.12	58.70	47.21	47.55	0.34	Pump	<0.25	10	3320.86
	07/28/10	3368.12	58.70	49.59	49.59	0.00	NA	NA	NA	3318.53
	08/03/10	3368.12	58.70	47.20	47.50	0.30	Pump	<0.25	10	3320.88
	08/03/10	3368.12	58.70	48.65	48.65	0.00	NA	NA	NA	3319.47
	08/11/10	3368.12	58.70	47.20	47.54	0.34	Pump	<0.25	15	3320.87
	08/11/10	3368.12	58.70	48.75	48.75	0.00	NA	NA	NA	3319.37
	08/18/10	3368.12	58.70	47.21	47.58	0.37	Pump	sheen	10	3320.85
	08/18/10	3368.12	58.70	49.10	49.10	0.00	NA	NA	NA	3319.02
	08/25/10	3368.12	58.70	47.28	47.67	0.39	Pump	sheen	10	3320.78
	08/25/10	3368.12	58.70	48.28	48.28	0.00	NA	NA	NA	3319.84
	09/01/10	3368.12	58.70	47.12	47.28	0.16	Pump	sheen	15	3320.98
	09/01/10	3368.12	58.70	49.31	49.31	0.00	NA	NA	NA	3318.81
	09/08/10	3368.12	58.70	47.15	47.34	0.19	Pump	sheen	15	3320.94
	09/08/10	3368.12	58.70	49.66	49.66	0.00	NA	NA	NA	3318.46
	09/15/10	3368.12	58.70	47.14	47.33	0.19	Pump	sheen	10	3320.95
	09/15/10	3368.12	58.70	49.15	49.15	0.00	NA	NA	NA	3318.97
	09/21/10	3368.12	58.70	47.09	47.20	0.11	Pump	sheen	20	3321.01
	09/21/10	3368.12	58.70	48.93	48.93	0.00	NA	NA	NA	3319.19
	10/01/10	3368.12	58.70	47.14	47.34	0.20	Pump	sheen	10	3320.95
	10/01/10	3368.12	58.70	48.55	48.55	0.00	NA	NA	NA	3319.57
	10/06/10	3368.12	58.70	47.11	47.25	0.14	Pump	sheen	10	3320.99
	10/06/10	3368.12	58.70	48.50	48.50	0.00	NA	NA	NA	3319.62
	10/13/10	3368.12	58.70	47.16	47.33	0.17	Pump	<0.25	10	3320.93
	10/13/10	3368.12	58.70	48.38	48.38	0.00	NA	NA	NA	3319.74
	10/22/10	3368.12	58.70	47.00	47.01	0.01	NA	NA	NA	3321.12
	10/27/10	3368.12	58.70	47.00	47.01	0.01	Pump	sheen	10	3321.12
	10/27/10	3368.12	58.70	50.10	50.10	0.00	NA	NA	NA	3318.02
	11/03/10	3368.12	58.70	47.05	47.06	0.01	NA	NA	NA	3321.07
	11/10/10	3368.12	58.70	46.84	46.84	0.00	NA	NA	NA	3321.28
	11/16/10	3368.12	58.70	46.93	46.93	0.00	Pump	sheen	10	3321.19
	11/16/10	3368.12	58.70	49.57	49.57	0.00	NA	NA	NA	3318.55
	11/24/10	3368.12	58.70	46.86	46.86	0.00	NA	NA	NA	3321.26
	12/01/10	3368.12	58.70	46.80	46.80	0.00	NA	NA	NA	3321.32
	12/08/10	3368.12	58.70	46.87	46.87	0.00	NA	NA	NA	3321.25
	12/15/10	3368.12	58.70	46.98	46.99	0.01	Pump	sheen	5	3321.14
	12/15/10	3368.12	58.70	48.79	48.79	0.00	NA	NA	NA	3319.33
	12/21/10	3368.12	58.70	46.50	46.50	0.00	Pump	sheen	10	3321.62
	12/21/10	3368.12	58.70	48.02	48.02	0.00	NA	NA	NA	3320.10

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SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	12/21/05	3368.32	60.02	46.85	46.85	0.00	Installed Sock	NA	NA	3321.47
	12/29/05	3368.32	NG	46.63	46.63	0.00	Sock	NA	NA	3321.69
	01/05/06	3368.32	NG	46.94	46.94	0.00	Sock	NA	NA	3321.38
	02/09/06	3368.32	NG	46.71	46.71	0.00	Sock	NA	NA	3321.61
	02/22/06	3368.32	NG	46.68	46.68	0.00	Sock	NA	NA	3321.64
	03/28/06	3368.32	NG	46.45	46.45	0.00	Sock	Sheen	NA	3321.87
	04/13/06	3368.32	NG	46.93	46.93	0.00	Sock	Sheen	NA	3321.39
	04/25/06	3368.32	NG	47.12	47.12	0.00	Sock	Sheen	NA	3321.20
	05/11/06	3368.32	NG	47.13	47.13	0.00	Sock	Sheen	NA	3321.19
	05/24/06	3368.32	NG	47.12	47.12	0.00	Sock	Sheen	NA	3321.20
	06/07/06	3368.32	NG	47.00	47.00	0.00	Sock	Sheen	NA	3321.32
	06/07/06	3368.32	NG	47.38	47.38	0.00	Sock	Sheen	NA	3320.94
	06/15/06	3368.32	NG	47.23	47.23	0.00	Sock	Sheen	NA	3321.09
	06/29/06	3368.32	NG	47.55	47.55	0.00	Sock	Light	NA	3320.77
	07/11/06	3368.32	NG	47.56	47.56	0.00	Sock	Light	NA	3320.76
	07/25/06	3368.32	NG	47.55	47.55	0.00	Sock	Light	NA	3320.77
	08/09/06	3368.32	59.00	47.78	47.78	0.00	Sock	NA	NA	3320.54
	08/22/06	3368.32	NG	47.81	47.81	0.00	New Sock	0	10	3320.51
	08/22/06	3368.32	NG	47.90	47.90	0.00	NA	NA	NA	3320.42
	09/12/06	3368.32	58.80	47.79	47.79	0.00	New Sock	NA	NA	3320.53
	09/19/06	3368.32	NG	47.62	47.62	0.00	NA	Light Sheen	NA	3320.70
	10/03/06	3368.32	NG	47.56	47.56	0.00	Hand Bailed	Sheen	10	3320.76
	10/03/06	3368.32	NG	48.60	48.60	0.00	Sock	NA	NA	3319.72
	10/17/06	3368.32	NG	47.45	47.45	0.00	Hand Bailed	Sheen	5	3320.87
	10/17/06	3368.32	NG	48.18	48.18	0.00	Sock	NA	NA	3320.14
	10/31/06	3368.32	NG	47.53	47.53	0.00	Hand Bailed	Sheen	5	3320.79
	10/31/06	3368.32	NG	48.40	48.40	0.00	Sock	NA	NA	3319.92
	11/15/06	3368.32	NG	47.55	47.55	0.00	NA	NA	NA	3320.77
	12/06/06	3368.32	NG	47.40	47.40	0.00	Sock	NA	NA	3320.92
	12/13/06	3368.32	NG	47.44	47.44	0.00	Hand Bailed	Sheen	5	3320.88
	12/13/06	3368.32	NG	48.52	48.52	0.00	Sock	NA	NA	3319.80
	12/27/06	3368.32	NG	47.20	47.20	0.00	Sock	NA	NA	3321.12
	01/03/07	3368.32	NG	47.28	47.28	0.00	Sock	NA	NA	3321.04
RW-2	01/09/07	3368.32	NG	47.43	47.43	0.00	Sock	NA	NA	3320.89
	01/18/07	3368.32	NG	47.26	47.26	0.00	Hand Bailed	Sheen	10	3321.06
	01/18/07	3368.32	NG	48.25	48.25	0.00	Sock	NA	NA	3320.07
	01/25/07	3368.32	NG	47.17	47.17	0.00	Sock	NA	NA	3321.15
	01/31/07	3368.32	NG	46.98	46.98	0.00	Sock	NA	NA	3321.34
	02/07/07	3368.32	NG	47.05	47.05	0.00	Sock	NA	NA	3321.27
	02/14/07	3368.32	NG	47.08	47.08	0.00	Sock	NA	NA	3321.24
	02/21/07	3368.32	NG	47.40	47.40	0.00	Sock	NA	NA	3320.92
	03/07/07	3368.32	NG	47.15	47.15	0.00	Sock	NA	NA	3321.17
	03/14/07	3368.32	NG	47.21	47.21	0.00	Sock	NA	NA	3321.11
	03/21/07	3368.32	NG	47.18	47.18	0.00	Sock	NA	NA	3321.14
	03/28/07	3368.32	NG	47.13	47.13	0.00	Sock	NA	NA	3321.19
	04/04/07	3368.32	NG	47.35	47.35	0.00	Sock	NA	NA	3320.97
	04/10/07	3368.32	NG	47.32	47.32	0.00	Sock	NA	NA	3321.00
	04/18/07	3368.32	NG	47.20	47.20	0.00	Sock	NA	NA	3321.12
	04/24/07	3368.32	NG	47.12	47.12	0.00	Sock	NA	NA	3321.20
	05/03/07	3368.32	NG	47.14	47.14	0.00	Sock	NA	NA	3321.18
	05/03/07	3368.32	NG	48.25	48.25	0.00	Sock	NA	NA	3320.07
	05/11/07	3368.32	NG	47.18	47.18	0.00	Sock	NA	NA	3321.14
	05/16/07	3368.32	NG	47.18	47.18	0.00	Sock	NA	NA	3321.14
	05/23/07	3368.32	NG	46.94	46.94	0.00	Flip Sock	NA	NA	3321.38
	06/06/07	3368.32	58.95	46.87	46.87	0.00	Sock	NA	NA	3321.45
	06/13/07	3368.32	58.95	46.97	46.97	0.00	Sock	NA	NA	3321.35
	06/19/07	3368.32	58.95	46.98	46.98	0.00	New Sock	NA	NA	3321.34
	06/27/07	3368.32	58.95	47.01	47.01	0.00	Sock	NA	NA	3321.31
	07/05/07	3368.32	59.00	47.04	47.04	0.00	Sock	NA	NA	3321.28
	07/11/07	3368.32	59.00	47.03	47.03	0.00	Sock	NA	NA	3321.29
	07/19/07	3368.32	59.00	47.13	47.13	0.00	Removed Sock	NA	NA	3321.19
	07/24/07	3368.32	59.00	47.19	47.19	0.00	No Sock	NA	NA	3321.13
	07/31/07	3368.32	59.01	47.21	47.21	0.00	Installed Sock	NA	NA	3321.11
	08/09/07	3368.32	59.01	47.30	47.30	0.00	Sock	NA	NA	3321.02
	08/16/07	3368.32	59.01	47.29	47.29	0.00	Sock	NA	NA	3321.03
	08/22/07	3368.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3321.14
	08/28/07	3368.32	59.01	47.30	47.30	0.00	Sock	NA	NA	3321.02
	09/07/07	3368.32	59.01	47.33	47.33	0.00	Sock	NA	NA	3320.99
	09/13/07	3368.32	59.01	47.30	47.30	0.00	Sock	NA	NA	3321.02
	09/18/07	3368.32	59.01	47.28	47.28	0.00	Sock	NA	NA	3321.04
	09/26/07	3368.32	59.01	47.33	47.33	0.00	Sock	NA	NA	3320.99
	10/04/07	3368.32	59.01	47.39	47.39	0.00	Sock	NA	NA	3320.93
	10/10/07	3368.32	59.01	47.33	47.33	0.00	Sock	NA	NA	3320.99
	10/17/07	3368.32	59.01	47.32	47.32	0.00	Sock	NA	NA	3321.00
	10/24/07	3368.32	59.01	47.42	47.42	0.00	Sock	NA	NA	3320.90
	10/31/07	3368.32	59.01	47.30	47.30	0.00	Sock	NA	NA	3321.02
	11/07/07	3368.32	59.01	47.33	47.33	0.00	Sock	NA	NA	3320.99
	11/13/07	3368.32	59.01	47.30	47.30	0.00	Sock	NA	NA	3321.02
	11/20/07	3368.32	59.01	47.35	47.35	0.00	Sock	NA	NA	3320.97
	11/27/07	3368.32	59.01	47.33	47.33	0.00	Sock	NA	NA	3320.99

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	12/05/07	3368.32	59.01	47.26	47.26	0.00	Sock	NA	NA	3321.06
	12/12/07	3368.32	59.01	47.21	47.21	0.00	Sock	NA	NA	3321.11
	12/18/07	3368.32	59.01	47.24	47.24	0.00	Sock	NA	NA	3321.08
	12/28/07	3368.32	59.01	47.21	47.21	0.00	Sock	NA	NA	3321.11
	01/03/08	3368.32	59.01	47.28	47.28	0.00	Sock	NA	NA	3321.04
	01/09/08	3368.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3321.14
	01/17/08	3368.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3321.17
	01/23/08	3368.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3321.17
	01/30/08	3368.32	59.01	47.00	47.00	0.00	New Sock	NA	NA	3321.32
	02/06/08	3368.32	59.01	47.12	47.12	0.00	Sock	NA	NA	3321.20
	02/13/08	3368.32	59.01	47.05	47.05	0.00	Sock	NA	NA	3321.27
	02/19/08	3368.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3321.15
	02/19/08	3368.32	59.01	48.73	48.73	0.00	Hand Bailed	0	10	3319.59
	02/27/08	3368.32	59.01	47.21	47.21	0.00	Sock	NA	NA	3321.11
	03/04/08	3368.32	59.01	47.46	47.46	0.00	Sock	NA	NA	3320.86
	03/12/08	3368.32	59.01	47.08	47.08	0.00	Sock	NA	NA	3321.24
	03/19/08	3368.32	59.01	47.09	47.09	0.00	Sock	NA	NA	3321.23
	03/26/08	3368.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3321.14
	04/02/08	3368.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3321.15
	04/09/08	3368.32	59.01	47.10	47.10	0.00	Sock	NA	NA	3321.22
	04/16/08	3368.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3321.17
	04/24/08	3368.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3321.14
	04/30/08	3368.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3321.15
	05/07/08	3368.32	59.01	47.22	47.22	0.00	Sock	NA	NA	3321.10
	05/14/08	3368.32	59.01	47.34	47.34	0.00	New Sock	NA	NA	3320.98
	05/20/08	3368.32	59.01	47.43	47.43	0.00	Sock	NA	NA	3320.89
	05/28/08	3368.32	59.01	47.48	47.48	0.00	Sock	NA	NA	3320.84
	06/04/08	3368.32	59.01	47.50	47.50	0.00	Sock	NA	NA	3320.82
	06/11/08	3368.32	59.01	47.54	47.54	0.00	Sock	NA	NA	3320.78
	06/18/08	3368.32	59.01	47.59	47.59	0.00	Sock	NA	NA	3320.73
	06/26/08	3368.32	59.01	47.53	47.53	0.00	Sock	NA	NA	3320.79
	07/02/08	3368.32	59.01	47.52	47.52	0.00	Sock	NA	NA	3320.80
	07/07/08	3368.32	59.01	47.55	47.55	0.00	Sock	NA	NA	3320.77
	07/16/08	3368.32	59.01	47.60	47.60	0.00	Sock	NA	NA	3320.72
	07/22/08	3368.32	59.01	47.63	47.63	0.00	Sock	NA	NA	3320.69
	07/29/08	3368.32	59.01	47.66	47.66	0.00	Sock	NA	NA	3320.66
	08/06/08	3368.32	59.01	47.72	47.72	0.00	Sock	NA	NA	3320.60
	08/13/08	3368.32	59.01	47.84	47.84	0.00	Flip Sock	NA	NA	3320.48
	08/20/08	3368.32	59.01	47.79	47.79	0.00	Sock	NA	NA	3320.53
	08/27/08	3368.32	59.01	47.81	47.81	0.00	Sock	NA	NA	3320.51
	09/02/08	3368.32	59.01	47.86	47.86	0.00	Sock	NA	NA	3320.46
	09/09/08	3368.32	59.01	47.90	47.90	0.00	Sock	NA	NA	3320.42
	09/17/08	3368.32	59.01	48.01	48.01	0.00	Sock	NA	NA	3320.31
	09/24/08	3368.32	59.01	48.15	48.15	0.00	Sock	NA	NA	3320.17
RW-2	10/01/08	3368.32	59.01	48.17	48.17	0.00	Sock	NA	NA	3320.15
	10/15/08	3368.32	59.01	47.87	47.87	0.00	Sock	NA	NA	3320.45
	10/22/08	3368.32	59.01	47.89	47.96	0.07	Pump	0.5	19.5	3320.42
	10/22/08	3368.32	59.01	48.37	48.38	0.01	NA	NA	NA	3319.95
	10/29/08	3368.32	59.01	47.92	48.05	0.13	Pump	0.5	10	3320.38
	10/29/08	3368.32	59.01	47.68	47.68	0.00	NA	NA	NA	3320.64
	11/05/08	3368.32	59.01	47.73	47.84	0.11	Pump	NA	20	3320.57
	11/05/08	3368.32	59.01	48.39	48.40	0.01	NA	NA	NA	3319.93
	11/12/08	3368.32	59.01	47.96	48.22	0.26	Pump	0.5	12.5	3320.32
	11/12/08	3368.32	59.01	48.02	48.02	0.00	NA	NA	NA	3320.30
	11/20/08	3368.32	59.01	48.01	48.51	0.50	Pump/New Sock	1.0 gal	9.0 gal	3320.24
	11/20/08	3368.32	59.01	48.89	48.89	0.00	NA	NA	NA	3319.43
	11/26/08	3368.32	59.01	48.04	48.04	0.00	Pump/New Sock	NA	10	3320.28
	11/26/08	3368.32	59.01	48.09	48.09	0.00	NA	NA	NA	3320.23
	12/03/08	3368.32	59.01	48.07	48.19	0.12	Pump	0.25	9.75	3320.23
	12/03/08	3368.32	59.01	48.22	48.22	0.00	NA	NA	NA	3320.10
	12/10/08	3368.32	59.01	48.12	48.12	0.00	Pump	0	10	3320.20
	12/10/08	3368.32	59.01	48.14	48.14	0.00	NA	NA	NA	3320.18
	12/17/08	3368.32	59.01	48.09	48.09	0.00	Pump	0	10	3320.23
	12/17/08	3368.32	59.01	48.82	48.82	0.00	NA	NA	NA	3319.50
	12/21/08	3368.32	59.01	48.36	48.60	0.24	Pump	0.25	10	3319.92
	12/21/08	3368.32	59.01	49.15	49.15	0.00	NA	NA	NA	3319.17
	12/31/08	3368.32	59.01	47.93	48.59	0.66	Pump	0.5	14.5	3320.29
	12/31/08	3368.32	59.01	48.43	48.43	0.00	NA	NA	NA	3319.89
	01/07/09	3368.32	58.98	47.84	48.50	0.66	Hand bail	2	8	3320.38
	01/07/09	3368.32	58.98	48.86	48.87	0.01	NA	NA	NA	3319.46
	01/15/09	3368.32	58.98	47.96	48.77	0.81	Pump	0.5	9.5	3320.24
	01/15/09	3368.32	58.98	48.33	48.33	0.00	NA	NA	NA	3319.99
	01/22/09	3368.32	58.98	47.81	48.53	0.72	Pump	0.5	14.5	3320.40
	01/22/09	3368.32	58.98	48.25	48.25	0.00	NA	NA	NA	3320.07
	01/28/09	3368.32	58.98	47.88	48.57	0.69	Pump	2	13	3320.34
	01/28/09	3368.32	58.98	48.29	48.29	0.00	NA	NA	NA	3320.03
	02/04/09	3368.32	58.98	47.96	48.67	0.71	Hand bail	0.25	9.75	3320.25
	02/04/09	3368.32	58.98	48.23	48.32	0.09	NA	NA	NA	3320.08
	02/11/09	3368.32	58.98	47.96	48.83	0.87	Hand bail	0.75	19.25	3320.23
	02/11/09	3368.32	58.98	48.24	48.24	0.00	NA	NA	NA	3320.08

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	02/18/09	3368.32	58.98	47.90	48.81	0.91	Pump	0.25	19.75	3320.28
	02/18/09	3368.32	58.98	49.33	49.33	0.00	NA	NA	NA	3318.99
	02/25/09	3368.32	58.98	47.82	48.60	0.78	Pump	0.5	22.5	3320.38
	02/25/09	3368.32	58.98	48.21	48.21	0.00	NA	NA	NA	3320.11
	03/04/09	3368.32	58.98	47.78	48.61	0.83	Pump	1	14	3320.42
	03/11/09	3368.32	58.98	47.90	48.81	0.91	NA	NA	NA	3320.28
	03/11/09	3368.32	58.98	47.63	47.64	0.01	Pump	1	16	3320.69
	03/18/09	3368.32	58.98	47.73	48.62	0.89	NA	NA	NA	3320.46
	03/18/09	3368.32	58.98	48.09	48.09	0.00	Pump	0.25	19.75	3320.23
	03/25/09	3368.32	58.98	47.68	48.54	0.86	NA	NA	NA	3320.51
	03/25/09	3368.32	58.98	48.33	48.34	0.01	Pump	3	19	3319.99
	04/01/09	3368.32	58.98	47.58	48.20	0.62	NA	NA	NA	3320.65
	04/08/09	3368.32	58.98	47.27	48.64	1.37	NA	NA	NA	3320.84
	04/08/09	3368.32	58.98	48.18	48.18	0.00	Pump	1	19	3320.14
	04/15/09	3368.32	58.98	47.63	48.42	0.79	NA	NA	NA	3320.57
	04/15/09	3368.32	58.98	49.78	49.78	0.00	Pump	1	19	3318.54
	04/22/09	3368.32	58.98	47.61	48.69	1.08	NA	NA	NA	3320.55
	04/22/09	3368.32	58.98	48.60	48.60	0.00	Pump	1	19	3319.72
	04/29/09	3368.32	58.98	47.66	48.42	0.76	NA	NA	NA	3320.55
	04/29/09	3368.32	58.98	48.14	48.14	0.00	Pump	1	19	3320.18
	05/06/09	3368.32	58.98	47.76	48.53	0.77	NA	NA	NA	3320.44
	05/06/09	3368.32	58.98	48.59	48.59	0.00	Pump	1	19	3319.73
	05/14/09	3368.32	58.98	47.90	48.76	0.86	NA	NA	NA	3320.29
	05/14/09	3368.32	58.98	48.87	48.87	0.00	Pump	1	19	3319.45
	05/20/09	3368.32	58.98	47.96	48.64	0.68	Pump	1	19	3320.26
	05/28/09	3368.32	58.98	47.92	48.73	0.81	NA	NA	NA	3320.28
	05/28/09	3368.32	58.98	48.79	48.79	0.00	Pump	1	19	3319.53
	06/03/09	3368.32	58.98	47.88	49.01	1.13	NA	NA	NA	3320.27
	06/03/09	3368.32	58.98	49.43	49.43	0.00	Pump	1	19	3318.89
	06/11/09	3368.32	58.98	47.85	48.93	1.08	NA	NA	NA	3320.31
	06/11/09	3368.32	58.98	48.90	48.90	0.00	Pump	1	19	3319.42
	06/17/09	3368.32	58.98	47.73	49.00	1.27	NA	NA	NA	3320.40
	06/17/09	3368.32	58.98	48.98	48.98	0.00	Pump	2	18	3319.34
	06/23/09	3368.32	58.98	47.82	48.62	0.80	NA	NA	NA	3320.38
	06/23/09	3368.32	58.98	48.88	48.88	0.00	Pump	1	9	3319.44
	07/01/09	3368.32	58.98	47.76	48.72	0.96	NA	NA	NA	3320.42
	07/01/09	3368.32	58.98	48.72	48.72	0.00	Pump	2	13	3319.60
	07/07/09	3368.32	58.98	47.72	48.47	0.75	NA	NA	NA	3320.49
	07/07/09	3368.32	58.98	49.50	49.50	0.00	NA	NA	NA	3318.82
	07/15/09	3368.32	58.98	47.68	48.76	1.08	Pump	2	8	3320.48
	07/15/09	3368.32	58.98	50.20	50.20	0.00	NA	NA	NA	3318.12
	07/29/09	3368.32	58.98	47.62	48.66	1.04	Pump	1	19	3320.54
	07/29/09	3368.32	58.98	49.10	49.10	0.00	NA	NA	NA	3319.22
RW-2	08/05/09	3368.32	58.98	47.69	48.46	0.77	Pump	1	14	3320.51
	08/05/09	3368.32	58.98	50.36	50.36	0.00	NA	NA	NA	3317.96
	08/12/09	3368.32	58.98	47.65	48.34	0.69	Pump	0.5	14.5	3320.57
	08/12/09	3368.32	58.98	48.71	48.71	0.00	NA	NA	NA	3319.61
	08/19/09	3368.32	58.98	47.61	48.07	0.46	Pump	0.5	14.5	3320.64
	08/19/09	3368.32	58.98	49.78	49.78	0.00	NA	NA	NA	3318.54
	08/27/09	3368.32	58.98	47.64	48.14	0.50	Pump	0.5	14.5	3320.61
	08/27/09	3368.32	58.98	48.91	48.91	0.00	NA	NA	NA	3319.41
	09/02/09	3368.32	58.98	47.65	48.16	0.51	Pump	1	14	3320.59
	09/02/09	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	09/09/09	3368.32	58.98	47.64	48.13	0.49	Pump	0.25	14.75	3320.61
	09/09/09	3368.32	58.98	48.23	48.23	0.00	NA	NA	NA	3320.09
	09/16/09	3368.32	58.98	47.69	48.28	0.59	Pump	0.5	14.5	3320.54
	09/16/09	3368.32	58.98	48.31	48.31	0.00	NA	NA	NA	3320.01
	09/23/09	3368.32	58.98	47.68	48.10	0.42	Pump	0.5	9.5	3320.58
	09/23/09	3368.32	58.98	49.44	49.44	0.00	NA	NA	NA	3318.88
	09/23/09	3368.32	58.98	47.71	47.72	0.01	Pump	0	10	3320.61
	09/23/09	3368.32	58.98	49.80	49.80	0.00	NA	NA	NA	3318.52
	09/30/09	3368.32	58.98	47.61	47.90	0.29	Pump	0.25	9.75	3320.67
	09/30/09	3368.32	58.98	48.52	48.52	0.00	NA	NA	NA	3319.80
	09/30/09	3368.32	58.98	47.58	47.62	0.04	Pump	0.25	9.75	3320.73
	09/30/09	3368.32	58.98	48.75	48.75	0.00	NA	NA	NA	3319.57
	10/07/09	3368.32	58.98	47.67	48.04	0.37	Pump	0.25	9.75	3320.59
	10/07/09	3368.32	58.98	48.72	48.72	0.00	NA	NA	NA	3319.60
	10/07/09	3368.32	58.98	47.63	47.65	0.02	Pump	Sheen	10	3320.69
	10/07/09	3368.32	58.98	49.14	49.14	0.00	NA	NA	NA	3319.18
	10/14/09	3368.32	58.98	47.65	47.95	0.30	Pump	0.5	9.5	3320.63
	10/14/09	3368.32	58.98	48.96	48.96	0.00	NA	NA	NA	3319.36
	10/14/09	3368.32	58.98	47.61	47.64	0.03	Pump	Sheen	10	3320.71
	10/14/09	3368.32	58.98	48.75	48.75	0.00	NA	NA	NA	3319.57
	10/21/09	3368.32	58.98	47.62	47.83	0.21	Pump	0.5	9.5	3320.67
	10/21/09	3368.32	58.98	48.62	48.62	0.00	NA	NA	NA	3319.70
	10/28/09	3368.32	58.98	47.55	47.73	0.18	Pump	0.25	19.75	3320.74
	10/28/09	3368.32	58.98	48.98	48.98	0.00	NA	NA	NA	3319.34
	11/04/09	3368.32	58.98	47.80	48.21	0.41	Pump	0.5	9.5	3320.46
	11/04/09	3368.32	58.98	48.33	48.33	0.00	am	NA	NA	3319.99
	11/04/09	3368.32	58.98	47.81	47.83	0.02	Pump	NA	10	3320.51

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-2	11/04/09	3368.32	58.98	48.86	48.86	0.00	pm	NA	NA	3319.46
	11/11/09	3368.32	58.98	47.79	48.18	0.39	Pump	0.5	9.5	3320.47
	11/11/09	3368.32	58.98	48.92	48.92	0.00	am	NA	NA	3319.40
	11/11/09	3368.32	58.98	47.76	47.80	0.04	Pump	Sheen	10	3320.55
	11/11/09	3368.32	58.98	48.60	48.60	0.00	pm	NA	NA	3319.72
	11/18/09	3368.32	58.98	47.65	47.85	0.20	Pump	0.25	20	3320.64
	11/18/09	3368.32	58.98	48.58	48.58	0.00	NA	NA	NA	3319.74
	11/25/09	3368.32	58.98	47.80	48.20	0.40	Pump	0.5	9.5	3320.46
	11/25/09	3368.32	58.98	48.38	48.38	0.00	NA	NA	NA	3319.94
	12/02/09	3368.32	58.98	47.77	48.17	0.40	Pump	0.25	19.75	3320.49
	12/02/09	3368.32	58.98	49.67	49.67	0.00	NA	NA	NA	3318.65
	12/09/09	3368.32	58.98	47.79	48.11	0.32	Pump	0.25	19.75	3320.48
	12/09/09	3368.32	58.98	49.19	49.19	0.00	NA	NA	NA	3319.13
	12/16/09	3368.32	58.98	47.75	48.10	0.35	Pump	Sheen	10	3320.52
	12/16/09	3368.32	58.98	48.90	48.90	0.00	NA	NA	NA	3319.42
	12/23/09	3368.32	58.98	47.58	47.66	0.08	Pump	0.25	14.75	3320.73
	12/23/09	3368.32	58.98	48.15	48.15	0.00	NA	NA	NA	3320.17
	12/30/09	3368.32	58.98	47.67	47.75	0.08	Pump	Sheen	15	3320.64
	12/30/09	3368.32	58.98	48.93	48.93	0.00	NA	NA	NA	3319.39
	01/06/10	3368.32	58.98	47.55	47.63	0.08	Pump	sheen	15	3320.76
	01/06/10	3368.32	58.98	48.36	48.36	0.00	NA	NA	NA	3319.96
	01/13/10	3368.32	58.98	47.58	47.66	0.08	Pump	sheen	20	3320.73
	01/13/10	3368.32	58.98	49.00	49.00	0.00	Pump	sheen	10	3319.32
	01/27/10	3368.32	58.98	47.54	47.57	0.03	NA	NA	NA	3320.78
	02/11/10	3368.32	58.98	47.46	47.56	0.10	Pump	sheen	10	3320.85
	02/11/10	3368.32	58.98	48.10	48.10	0.00	NA	NA	NA	3320.22
	02/17/10	3368.32	58.98	47.53	47.54	0.01	Pump	sheen	20	3320.79
	02/17/10	3368.32	58.98	48.40	48.40	0.00	NA	NA	NA	3319.92
	03/02/10	3368.32	58.98	47.48	47.49	0.01	Pump	sheen	15	3320.84
	03/02/10	3368.32	58.98	48.62	48.62	0.00	NA	NA	NA	3319.70
	03/10/10	3368.32	58.98	47.38	47.44	0.06	Pump	sheen	15	3320.93
	03/10/10	3368.32	58.98	48.05	48.05	0.00	NA	NA	NA	3320.27
	03/17/10	3368.32	58.98	47.53	47.55	0.02	Pump	sheen	15	3320.79
	03/17/10	3368.32	58.98	48.57	48.57	0.00	NA	NA	NA	3319.75
	03/24/10	3368.32	58.98	47.44	47.46	0.02	Pump	sheen	20	3320.88
	03/24/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	03/31/10	3368.32	58.98	47.39	47.44	0.05	Pump	sheen	15	3320.92
	03/31/10	3368.32	58.98	47.98	47.98	0.00	NA	NA	NA	3320.34
	04/07/10	3368.32	58.98	47.50	47.52	0.02	NA	NA	NA	3320.82
	04/14/10	3368.32	58.98	47.43	47.52	0.09	Pump	sheen	10	3320.88
	04/21/10	3368.32	58.98	47.33	47.41	0.08	Pump	0.25	24.75	3320.98
	04/21/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	04/28/10	3368.32	58.98	47.42	47.45	0.03	Pump	sheen	20	3320.90
	04/28/10	3368.32	58.98	48.05	48.05	0.00	NA	NA	NA	3320.27
	05/05/10	3368.32	58.98	47.45	47.46	0.01	NA	NA	NA	3320.87
	05/11/10	3368.32	58.98	47.40	47.46	0.06	Pump	sheen	24	3320.91
	05/11/10	3368.32	58.98	48.72	48.72	0.00	NA	NA	NA	3319.60
	05/19/10	3368.32	58.98	47.45	47.55	0.10	Pump	0.25	9.75	3320.86
	05/19/10	3368.32	58.98	48.33	48.33	0.00	NA	NA	NA	3319.99
	05/29/10	3368.32	58.98	47.48	47.58	0.10	Pump	0.25	14.75	3320.83
	05/29/10	3368.32	58.98	48.15	48.15	0.00	NA	NA	NA	3320.17
	06/02/10	3368.32	58.98	47.45	47.48	0.03	NA	NA	NA	3320.87
	06/12/10	3368.32	58.98	47.53	47.65	0.12	Pump	<0.25	10	3320.77
	06/12/10	3368.32	58.98	48.48	48.48	0.00	NA	NA	NA	3319.84
	06/15/10	3368.32	58.98	47.48	47.52	0.04	Pump	<0.25	10	3320.83
	06/15/10	3368.32	58.98	48.80	48.80	0.00	NA	NA	NA	3319.52
	06/25/10	3368.32	58.98	47.54	47.62	0.08	NA	NA	NA	3320.77
	06/30/10	3368.32	58.98	47.56	47.68	0.12	NA	NA	NA	3320.74
	07/07/10	3368.32	58.98	47.52	47.78	0.26	Pump	0.25	9.75	3320.76
	07/07/10	3368.32	58.98	48.41	48.41	0.00	NA	NA	NA	3319.91
	07/14/10	3368.32	58.98	47.53	47.57	0.04	Pump	sheen	15	3320.78
	07/14/10	3368.32	58.98	48.79	48.79	0.00	NA	NA	NA	3319.53
	07/21/10	3368.32	58.98	47.56	47.62	0.06	<0.25	sheen	20	3320.75
	07/21/10	3368.32	58.98	48.64	48.64	0.00	NA	NA	NA	3319.68
	07/28/10	3368.32	58.98	47.55	47.62	0.07	Pump	<0.25	15	3320.76
	07/28/10	3368.32	58.98	48.36	48.36	0.00	NA	NA	NA	3319.96
	08/03/10	3368.32	58.98	47.55	47.56	0.01	Pump	sheen	10	3320.77
	08/03/10	3368.32	58.98	48.20	48.20	0.00	NA	NA	NA	3320.12
	08/11/10	3368.32	58.98	47.42	47.48	0.06	Pump	sheen	15	3320.89
	08/11/10	3368.32	58.98	48.63	48.63	0.00	NA	NA	NA	3319.69
	08/18/10	3368.32	58.98	47.55	47.61	0.06	Pump	sheen	15	3320.76
	08/18/10	3368.32	58.98	49.07	49.07	0.00	NA	NA	NA	3319.25
	08/25/10	3368.32	58.98	47.63	47.69	0.06	Pump	sheen	20	3320.68
	08/25/10	3368.32	58.98	48.34	48.34	0.00	NA	NA	NA	3319.98
	09/01/10	3368.32	58.98	47.44	47.49	0.05	Pump	sheen	20	3320.87
	09/01/10	3368.32	58.98	48.35	48.35	0.00	NA	NA	NA	3319.97
	09/08/10	3368.32	58.98	47.47	47.51	0.04	Pump	sheen	15	3320.84
	09/08/10	3368.32	58.98	49.05	49.05	0.00	NA	NA	NA	3319.27
	09/15/10	3368.32	58.98	47.46	47.55	0.09	Pump	sheen	10	3320.85
	09/15/10	3368.32	58.98	48.96	48.96	0.00	NA	NA	NA	3319.36

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	09/21/10	3368.32	58.98	47.40	47.43	0.03	Pump	sheen	20	3320.92
	09/21/10	3368.32	58.98	48.44	48.44	0.00	NA	NA	NA	3319.88
	10/01/10	3368.32	58.98	47.47	47.51	0.04	Pump	sheen	15	3320.84
	10/01/10	3368.32	58.98	48.80	48.80	0.00	NA	NA	NA	3319.52
	10/06/10	3368.32	58.98	47.44	47.45	0.01	Pump	sheen	20	3320.88
	10/06/10	3368.32	58.98	49.22	49.22	0.00	NA	NA	NA	3319.10
	10/13/10	3368.32	58.98	47.51	47.53	0.02	Pump	sheen	15	3320.81
	10/13/10	3368.32	58.98	49.05	49.05	0.00	NA	NA	NA	3319.27
	10/22/10	3368.32	58.98	47.31	47.34	0.03	Pump	sheen	20	3321.01
	10/22/10	3368.32	58.98	48.55	48.55	0.00	NA	NA	NA	3319.77
	10/27/10	3368.32	58.98	47.33	47.35	0.02	Pump	sheen	15	3320.99
	10/27/10	3368.32	58.98	47.37	47.37	0.00	NA	NA	NA	3320.95
	11/03/10	3368.32	58.98	47.28	47.40	0.12	Pump	sheen	15	3321.02
	11/03/10	3368.32	58.98	48.98	48.98	0.00	NA	NA	NA	3319.34
	11/10/10	3368.32	58.98	47.13	47.15	0.02	Pump	sheen	15	3321.19
	11/10/10	3368.32	58.98	48.33	48.33	0.00	NA	NA	NA	3319.99
	11/16/10	3398.32	58.98	47.23	47.25	0.02	NA	NA	NA	3351.09
RW-2	11/24/10	3398.32	58.98	47.17	47.19	0.02	pump	sheen	15	3351.15
	11/24/10	3398.32	58.98	48.15	48.15	0.00	NA	NA	NA	3350.17
	12/01/10	3398.32	58.98	47.12	47.13	0.01	pump	sheen	15	3351.20
	12/01/10	3398.32	58.98	47.84	47.84	0.00	NA	NA	NA	3350.48
	12/08/10	3398.32	58.98	47.19	47.20	0.01	pump	sheen	10	3351.13
	12/08/10	3398.32	58.98	48.65	48.65	0.00	NA	NA	NA	3349.67
	12/15/10	3398.32	58.98	46.98	46.99	0.01	pump	sheen	15	3351.34
	12/15/10	3398.32	58.98	48.18	48.18	0.00	NA	NA	NA	3350.14
	12/21/10	3398.32	58.98	47.11	47.12	0.01	pump	sheen	10	3351.21
	12/21/10	3398.32	58.98	48.81	48.81	0.00	NA	NA	NA	3349.51
	12/21/05	3369.05	60.30	47.38	47.38	0.00	Installed Sock	NA	NA	3321.67
	12/29/05	3369.05	NG	47.16	47.16	0.00	Sock	NA	NA	3321.89
	01/05/06	3369.05	NG	47.43	47.43	0.00	Sock	NA	NA	3321.62
	02/09/06	3369.05	NG	47.16	47.16	0.00	Sock	NA	NA	3321.89
	02/22/06	3369.05	NG	47.15	47.15	0.00	Sock	NA	NA	3321.90
	03/28/06	3369.05	NG	47.41	47.41	0.00	Sock	Hvy Sheen	NA	3321.64
	04/13/06	3369.05	NG	47.44	47.44	0.00	Sock	Sheen	NA	3321.61
	04/25/06	3369.05	NG	47.62	47.62	0.00	Sock	Sheen	NA	3321.43
	05/11/06	3369.05	NG	47.61	47.61	0.00	Sock	Sheen	NA	3321.44
	05/24/06	3369.05	NG	47.64	47.64	0.00	Sock	Sheen	NA	3321.41
	06/07/06	3369.05	NG	47.75	47.75	0.00	Sock	Sheen	NA	3321.30
	06/07/06	3369.05	NG	47.90	47.90	0.00	Sock	Sheen	NA	3321.15
	06/15/06	3369.05	NG	47.69	47.69	0.00	Sock	Sheen	NA	3321.36
	06/29/06	3369.05	NG	47.97	47.97	0.00	Sock	Light	NA	3321.08
	07/11/06	3369.05	NG	47.98	47.98	0.00	Sock	Light	NA	3321.07
	07/25/06	3369.05	NG	48.04	48.04	0.00	Sock	Light	NA	3321.01
RW-3	08/09/06	3369.05	59.63	48.21	48.21	0.00	Sock	NA	NA	3320.84
	08/22/06	3369.05	NG	48.30	48.30	0.00	Hand Bailed	0	10	3320.75
	08/22/06	3369.05	NG	48.27	48.27	0.00	New Sock	Light	NA	3320.78
	09/12/06	3369.05	59.61	48.12	48.12	0.00	Sock	NA	NA	3320.93
	09/19/06	3369.05	NG	48.16	48.16	0.00	Hand Bailed	Trace	10	3320.89
	09/19/06	3369.05	NG	48.60	48.60	0.00	Sock	NA	NA	3320.45
	10/03/06	3369.05	NG	48.14	48.14	0.00	Hand Bailed	Sheen	10	3320.91
	10/03/06	3369.05	NG	48.75	48.75	0.00	Sock	NA	NA	3320.30
	10/17/06	3369.05	NG	48.02	48.02	0.00	Hand Bailed	Sheen	5	3321.03
	10/17/06	3369.05	NG	48.91	48.91	0.00	Sock	NA	NA	3320.14
	10/31/06	3369.05	NG	48.12	48.12	0.00	Hand Bailed	Sheen	5	3320.93
	10/31/06	3369.05	NG	48.42	48.42	0.00	Sock	NA	NA	3320.63
	11/15/06	3369.05	NG	48.12	48.12	0.00	NA	NA	NA	3320.93
	12/06/06	3369.05	NG	48.07	48.07	0.00	New Sock	NA	NA	3320.98
	12/13/06	3369.05	NG	48.11	48.11	0.00	Hand Bailed	Sheen	5	3320.94
	12/13/06	3369.05	NG	48.19	48.19	0.00	Sock	NA	NA	3320.86
	12/27/06	3369.05	NG	48.00	48.00	0.00	Sock	NA	NA	3321.05
	01/03/07	3369.05	NG	47.90	47.90	0.00	Sock	NA	NA	3321.15
	01/09/07	3369.05	NG	47.95	47.95	0.00	Sock	NA	NA	3321.10
	01/18/07	3369.05	NG	47.89	47.89	0.00	Sock	NA	NA	3321.16
	01/25/07	3369.05	NG	47.68	47.68	0.00	Removed Sock	NA	NA	3321.37
	01/31/07	3369.05	NG	47.47	47.50	0.03	Installed Sock	NA	NA	3321.58
	02/07/07	3369.05	NG	47.62	47.62	0.00	Sock	NA	NA	3321.43
	02/14/07	3369.05	NG	47.67	47.67	0.00	Sock	NA	NA	3321.38
	02/21/07	3369.05	NG	47.86	47.86	0.00	Sock	NA	NA	3321.19
	03/07/07	3369.05	NG	47.63	47.65	0.02	Hand Bailed	Sheen	10	3321.42
	03/07/07	3369.05	NG	48.55	48.55	0.00	Sock	NA	NA	3320.50
	03/14/07	3369.05	NG	47.84	47.84	0.00	New Sock	NA	NA	3321.21
	03/21/07	3369.05	NG	47.80	47.80	0.00	Sock	NA	NA	3321.25
	03/28/07	3369.05	NG	47.60	47.60	0.00	New Sock	NA	NA	3321.45
	04/04/07	3369.05	NG	47.90	47.90	0.00	Sock	NA	NA	3321.15
	04/10/07	3369.05	NG	47.75	47.75	0.00	New Sock	NA	NA	3321.30
	04/18/07	3369.05	NG	47.70	47.70	0.00	NA	NA	NA	3321.35
	04/24/07	3369.05	NG	47.70	47.70	0.00	Sock	NA	NA	3321.35
	05/03/07	3369.05	NG	47.80	47.80	0.00	Sock	NA	NA	3321.25
	05/03/07	3369.05	NG	48.05	48.05	0.00	New Sock	NA	NA	3321.00

TABLE 2
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Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	05/11/07	3369.05	NG	47.55	47.55	0.00	Sock	NA	NA	3321.50
	05/16/07	3369.05	NG	47.54	47.56	0.02	Hand Bailed	Sheen	10	3321.51
	05/16/07	3369.05	NG	48.45	48.45	0.00	Sock	NA	NA	3320.60
	05/23/07	3369.05	NG	47.38	47.38	0.00	Flip Sock	Sheen	10	3321.67
	05/23/07	3369.05	NG	47.75	47.75	0.00	NA	NA	NA	3321.30
	06/06/07	3369.05	59.51	47.41	47.41	0.00	Sock	NA	NA	3321.64
	06/13/07	3369.05	59.51	47.53	47.53	0.00	New Sock	NA	NA	3321.52
	06/19/07	3369.05	59.51	47.47	47.47	0.00	NA	NA	NA	3321.58
	06/19/07	3369.05	59.51	48.16	48.16	0.00	Sock	NA	NA	3320.89
	06/27/07	3369.05	59.51	47.56	47.56	0.00	Sock	NA	NA	3321.49
	07/05/07	3369.05	59.66	48.35	48.35	0.00	New Sock	NA	NA	3320.70
	07/11/07	3369.05	59.66	47.58	47.58	0.00	Sock	NA	NA	3321.47
	07/19/07	3369.05	59.66	47.72	47.72	0.00	Sock	NA	NA	3321.33
	07/19/07	3369.05	59.66	48.53	48.53	0.00	Sock	NA	NA	3320.52
	07/24/07	3369.05	59.66	47.78	47.78	0.00	Sock	NA	NA	3321.27
	07/31/07	3369.05	59.65	47.80	47.80	0.00	New Sock	NA	NA	3321.25
	08/09/07	3369.05	59.65	47.88	47.88	0.00	Sock	NA	NA	3321.17
	08/16/07	3369.05	59.65	47.89	47.89	0.00	Sock	NA	NA	3321.16
	08/22/07	3369.05	59.65	47.76	47.76	0.00	Sock	NA	NA	3321.29
	08/28/07	3369.05	59.65	47.93	47.93	0.00	Sock	NA	NA	3321.12
	09/07/07	3369.05	59.65	47.97	47.97	0.00	Sock	NA	NA	3321.08
	09/13/07	3369.05	59.65	47.98	47.98	0.00	Sock	NA	NA	3321.07
	09/18/07	3369.05	59.65	47.95	47.95	0.00	Sock	NA	NA	3321.10
	09/26/07	3369.05	59.65	47.99	47.99	0.00	Sock	NA	NA	3321.06
	10/04/07	3369.05	59.65	47.80	47.80	0.00	Sock	NA	NA	3321.25
	10/10/07	3369.05	59.65	47.85	47.85	0.00	Sock	NA	NA	3321.20
	10/17/07	3369.05	59.65	47.88	47.88	0.00	Sock	NA	NA	3321.17
	10/24/07	3369.05	59.65	48.02	48.02	0.00	Sock	NA	NA	3321.03
	10/31/07	3369.05	59.65	47.90	47.90	0.00	Sock	NA	NA	3321.15
	11/07/07	3369.05	59.65	47.92	47.92	0.00	Sock	NA	NA	3321.13
	11/13/07	3369.05	59.65	47.90	47.90	0.00	Flip Sock	NA	NA	3321.15
	11/20/07	3369.05	59.65	47.95	47.95	0.00	Sock	NA	NA	3321.10
	11/27/07	3369.05	59.65	47.92	47.92	0.00	Sock	NA	NA	3321.13
	12/05/07	3369.05	59.65	47.75	47.75	0.00	Sock	NA	NA	3321.30
	12/12/07	3369.05	59.65	47.73	47.73	0.00	Sock	NA	NA	3321.32
	12/18/07	3369.05	59.65	47.55	47.55	0.00	Sock	NA	NA	3321.50
	12/28/07	3369.05	59.65	47.51	47.51	0.00	Sock	NA	NA	3321.54
	01/03/08	3369.05	59.65	47.56	47.56	0.00	Sock	NA	NA	3321.49
	01/09/08	3369.05	59.65	47.58	47.58	0.00	New Sock	NA	NA	3321.47
	01/17/08	3369.05	59.65	47.58	47.60	0.02	New Sock	NA	NA	3321.47
	01/23/08	3369.05	59.65	47.61	47.61	0.00	Sock	NA	NA	3321.44
	01/30/08	3369.05	59.65	47.55	47.55	0.00	Sock	NA	NA	3321.50
RW-3	02/06/08	3369.05	59.65	47.74	47.74	0.00	Sock	NA	NA	3321.31
	02/13/08	3369.05	59.65	47.55	47.55	0.00	Sock	NA	NA	3321.50
	02/19/08	3369.05	59.65	47.63	47.63	0.00	Hand Bailed	0	10	3321.42
	02/19/08	3369.05	59.65	48.13	48.13	0.00	New Sock	NA	NA	3320.92
	02/27/08	3369.05	59.65	47.65	47.65	0.00	New Sock	NA	NA	3321.40
	03/04/08	3369.05	59.65	47.56	47.56	0.00	Sock	NA	NA	3321.49
	03/12/08	3369.05	59.65	47.48	47.48	0.00	Sock	NA	NA	3321.57
	03/19/08	3369.05	59.65	47.59	47.59	0.00	Sock	NA	NA	3321.46
	03/26/08	3369.05	59.65	47.66	47.66	0.00	Sock	NA	NA	3321.39
	04/02/08	3369.05	59.65	47.67	47.67	0.00	Sock	NA	NA	3321.38
	04/09/08	3369.05	59.65	47.62	47.62	0.00	Sock	NA	NA	3321.43
	04/16/08	3369.05	59.65	47.67	47.67	0.00	Sock	NA	NA	3321.38
	04/24/08	3369.05	59.65	47.62	47.70	0.08	New Sock	NA	NA	3321.42
	04/30/08	3369.05	59.65	47.67	47.67	0.00	Sock	NA	NA	3321.38
	05/07/08	3369.05	59.65	47.69	47.69	0.00	Sock	NA	NA	3321.36
	05/14/08	3369.05	59.65	47.92	47.92	0.00	New Sock	NA	NA	3321.13
	05/20/08	3369.05	59.65	47.97	47.97	0.00	Sock	NA	NA	3321.08
	05/22/08	3369.05	59.62	47.99	47.99	0.00	Sock	NA	NA	3321.06
	05/28/08	3369.05	59.62	48.01	48.01	0.00	Sock	NA	NA	3321.04
	06/04/08	3369.05	59.62	48.04	48.04	0.00	Sock	NA	NA	3321.01
	06/11/08	3369.05	59.62	48.07	48.07	0.00	Sock	NA	NA	3320.98
	06/18/08	3369.05	59.62	48.12	48.12	0.00	Sock	NA	NA	3320.93
	06/26/08	3369.05	59.62	48.18	48.18	0.00	Sock	NA	NA	3320.87
	07/02/08	3369.05	59.62	48.16	48.16	0.00	Sock	NA	NA	3320.89
	07/07/08	3369.05	59.62	48.04	48.04	0.00	Sock	NA	NA	3321.01
	07/16/08	3369.05	59.62	48.09	48.09	0.00	Sock	NA	NA	3320.96
	07/22/08	3369.05	59.62	48.13	48.13	0.00	Sock	NA	NA	3320.92
	07/29/08	3369.05	59.62	48.16	48.16	0.00	Sock	NA	NA	3320.89
	08/06/08	3369.05	59.62	48.18	48.18	0.00	Sock	NA	NA	3320.87
	08/13/08	3369.05	59.62	48.26	48.26	0.00	New Sock	NA	NA	3320.79
	08/20/08	3369.05	59.62	48.23	48.23	0.00	Sock	NA	NA	3320.82
	08/27/08	3369.05	59.62	48.25	48.25	0.00	Sock	NA	NA	3320.80
	09/02/08	3369.05	59.62	48.29	48.29	0.00	Sock	NA	NA	3320.76
	09/09/08	3369.05	59.62	48.34	48.34	0.00	Sock	NA	NA	3320.71
	09/17/08	3369.05	59.62	48.62	48.62	0.00	Sock	NA	NA	3320.43
	09/24/08	3369.05	59.62	48.45	48.50	0.05	Sock	NA	NA	3320.59
	10/01/08	3369.05	59.62	48.53	48.53	0.00	Sock	NA	NA	3320.52
	10/08/08	3369.05	59.62	48.40	48.40	0.00	Sock	NA	NA	3320.65

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery PSH (gallons)	Recovery Water (gallons)	Corrected Groundwater Elevation (ft)
	10/15/08	3369.05	59.62	48.39	48.39	0.00	Sock	NA	NA	3320.66
	10/22/08	3369.05	59.62	48.36	48.41	0.05	Pump	1	19	3320.68
	10/22/08	3369.05	59.62	48.39	48.41	0.02	Sock	NA	NA	3320.66
	10/29/08	3369.05	59.62	47.44	47.52	0.08	Pump	0.5	10	3321.60
	10/29/08	3369.05	59.62	49.20	49.20	0.00	NA	NA	NA	3319.85
	11/05/08	3369.05	59.62	48.34	48.39	0.05	Pump	0.5	19.5	3320.70
	11/05/08	3369.05	59.62	48.42	48.47	0.05	NA	NA	NA	3320.62
	11/12/08	3369.05	59.62	48.41	48.43	0.02	NA	NA	NA	3320.64
	11/20/08	3369.05	59.62	48.56	48.71	0.15	New Sock	NA	NA	3320.47
	11/26/08	3369.05	59.62	48.41	48.41	0.00	Pump/Flip Sock	NA	10	3320.64
	11/26/08	3369.05	59.62	48.56	48.56	0.00	NA	NA	NA	3320.49
	12/03/08	3369.05	59.62	48.51	48.51	0.00	Pump	NA	10	3320.54
	12/03/08	3369.05	59.62	48.73	48.73	0.00	New Sock	NA	NA	3320.32
	12/10/08	3369.05	59.62	48.51	48.51	0.00	Pump	NA	10	3320.54
	12/10/08	3369.05	59.62	48.53	48.53	0.00	NA	NA	NA	3320.52
	12/17/08	3369.05	59.62	48.54	48.54	0.00	Pump	NA	10	3320.51
	12/17/08	3369.05	59.62	48.71	48.71	0.00	Flip Sock	NA	NA	3320.34
	12/21/08	3369.05	59.62	48.67	48.67	0.00	Pump	NA	8	3320.38
	12/21/08	3369.05	59.62	48.63	48.63	0.00	Flip Sock	NA	NA	3320.42
	12/31/08	3369.05	59.62	48.53	48.53	0.00	NA	0	10	3320.52
	12/31/08	3369.05	59.62	48.97	48.97	0.00	NA	NA	NA	3320.08
	01/07/09	3369.05	59.60	48.47	48.47	0.00	Hand bail	0	10	3320.58
	01/07/09	3369.05	59.60	48.52	48.52	0.00	NA	NA	NA	3320.53
	01/15/09	3369.05	59.60	48.60	48.60	0.00	Pump	0	10	3320.45
	01/15/09	3369.05	59.60	48.79	48.79	0.00	NA	NA	NA	3320.26
	01/22/09	3369.05	59.60	48.43	48.43	0.00	Pump/New Sock	0	12	3320.62
	01/22/09	3369.05	59.60	48.49	48.49	0.00	NA	NA	NA	3320.56
	01/28/09	3369.05	59.60	48.51	48.51	0.00	Pump	0	10	3320.54
	01/28/09	3369.05	59.60	48.52	48.52	0.00	NA	NA	NA	3320.53
	02/04/09	3369.05	59.60	48.56	48.56	0.00	Pump	0	10	3320.49
	02/04/09	3369.05	59.60	48.61	48.61	0.00	NA	NA	NA	3320.44
RW-3	02/11/09	3369.05	59.60	48.58	48.58	0.00	Pump	0	20	3320.47
	02/11/09	3369.05	59.60	48.72	48.72	0.00	NA	NA	NA	3320.33
	02/18/09	3369.05	59.60	48.51	48.51	0.00	Pump/Sock	0	20	3320.54
	02/18/09	3369.05	59.60	49.71	49.71	0.00	NA	NA	NA	3319.34
	02/25/09	3369.05	59.60	48.42	48.42	0.00	Pump/Flip Sock	0	15	3320.63
	02/25/09	3369.05	59.60	48.56	48.56	0.00	NA	NA	NA	3320.49
	03/04/09	3369.05	59.57	48.41	48.41	0.00	New Sock	0	10	3320.64
	03/04/09	3369.05	59.57	48.42	48.42	0.00	NA	NA	NA	3320.63
	03/11/09	3369.05	59.57	48.54	48.54	0.00	Flip Sock	0	10	3320.51
	03/11/09	3369.05	59.57	48.79	48.79	0.00	NA	NA	NA	3320.26
	03/18/09	3369.05	59.57	48.35	48.35	0.00	Pump	0	10	3320.70
	03/18/09	3369.05	59.57	48.74	48.74	0.00	NA	NA	NA	3320.31
	03/25/09	3369.05	59.57	48.34	48.34	0.00	Pump	0	10	3320.71
	03/25/09	3369.05	59.57	48.45	48.45	0.00	NA	NA	NA	3320.60
	04/01/09	3369.05	59.57	48.15	48.15	0.00	NA	NA	NA	3320.90
	04/08/09	3369.05	59.57	48.24	48.24	0.00	Pump	0	10	3320.81
	04/08/09	3369.05	59.57	48.39	48.39	0.00	NA	NA	NA	3320.66
	04/15/09	3369.05	59.57	48.36	48.36	0.00	NA	NA	NA	3320.69
	04/22/09	3369.05	59.57	48.33	48.33	0.00	NA	NA	NA	3320.72
	04/29/09	3369.05	59.57	48.28	48.28	0.00	NA	NA	NA	3320.77
	05/06/09	3369.05	59.57	48.32	48.32	0.00	NA	NA	NA	3320.73
	05/14/09	3369.05	59.57	48.50	48.58	0.08	NA	NA	NA	3320.54
	05/14/09	3369.05	59.57	49.47	49.47	0.00	Pump	0.25	14.75	3319.58
	05/20/09	3369.05	59.57	48.57	48.57	0.00	Pump	0.25	14.75	3320.48
	05/28/09	3369.05	59.57	48.60	48.60	0.00	NA	NA	NA	3320.45
	06/03/09	3369.05	59.57	48.55	48.55	0.00	NA	NA	NA	3320.50
	06/03/09	3369.05	59.57	48.80	48.80	0.00	Pump	0	10	3320.25
	06/11/09	3369.05	59.57	48.51	48.51	0.00	NA	NA	NA	3320.54
	06/11/09	3369.05	59.57	48.72	48.72	0.00	Pump	0	10	3320.33
	06/17/09	3369.05	59.57	48.48	48.48	0.00	NA	NA	NA	3320.57
	06/23/09	3369.05	59.57	48.50	48.53	0.03	NA	NA	NA	3320.55
	06/23/09	3369.05	59.57	49.60	49.60	0.00	Pump	1	9	3319.45
	07/01/09	3369.05	59.57	48.51	48.51	0.00	NA	NA	NA	3320.54
	07/07/09	3369.05	59.57	48.35	48.35	0.00	New Sock	NA	NA	3320.70
	07/15/09	3369.05	59.57	48.45	48.45	0.00	NA	NA	NA	3320.60
	07/29/09	3369.05	59.57	48.30	48.30	0.00	NA	NA	NA	3320.75
	08/05/09	3369.05	59.57	48.36	48.36	0.00	New Sock	NA	NA	3320.69
	08/12/09	3369.05	59.57	48.26	48.26	0.00	Flip Sock	NA	NA	3320.79
	08/19/09	3369.05	59.57	48.12	48.12	0.00	New Sock	NA	NA	3320.93
	08/19/09	3369.05	59.57	48.61	48.61	0.00	Pump	0	10	3320.44
	08/27/09	3369.05	59.57	48.21	48.21	0.00	NA	NA	NA	3320.84
	09/02/09	3369.05	59.57	48.19	48.19	0.00	NA	NA	NA	3320.86
	09/09/09	3369.05	59.57	48.26	48.26	0.00	NA	NA	NA	3320.79
	09/16/09	3369.05	59.57	48.21	48.21	0.00	NA	NA	NA	3320.84
	09/23/09	3369.05	59.57	48.27	48.27	0.00	Pump	0	10	3320.78
	09/23/09	3369.05	59.57	49.25	49.25	0.00	NA	NA	NA	3319.80
	09/30/09	3369.05	59.57	48.12	48.12	0.00	NA	NA	NA	3320.93
	10/07/09	3369.05	59.57	48.25	48.25	0.00	NA	NA	NA	3320.80
	10/21/09	3369.05	59.57	48.10	48.10	0.00	NA	NA	NA	3320.95

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
	10/28/09	3369.05	59.57	48.12	48.12	0.00	NA	NA	NA	3320.93
	11/04/09	3369.05	59.57	48.29	48.30	0.01	Pump	0	10	3320.76
	11/04/09	3369.05	59.57	48.55	48.55	0.00	NA	NA	NA	3320.50
	11/11/09	3369.05	59.57	48.30	48.33	0.03	Pump	Sheen	10	3320.75
	11/11/09	3369.05	59.57	48.52	48.52	0.00	NA	NA	NA	3320.53
	11/18/09	3369.05	59.57	48.14	48.15	0.01	Pump	Sheen	15	3320.91
	11/18/09	3369.05	59.57	48.64	48.64	0.00	NA	NA	NA	3320.41
	11/25/09	3369.05	59.57	48.29	48.37	0.08	Pump	Sheen	10	3320.75
	11/25/09	3369.05	59.57	48.88	48.88	0.00	NA	NA	NA	3320.17
	12/02/09	3369.05	59.57	48.30	48.35	0.05	Pump	Sheen	10	3320.74
	12/09/09	3369.05	59.57	48.93	48.93	0.00	NA	NA	NA	3320.12
	12/09/09	3369.05	59.57	48.91	48.96	0.05	Pump	Sheen	10	3320.13
	12/09/09	3369.05	59.57	51.18	51.18	0.00	NA	NA	NA	3317.87
	12/16/09	3369.05	59.57	48.24	48.31	0.07	Pump	Sheen	15	3320.80
	12/16/09	3369.05	59.57	49.10	49.10	0.00	NA	NA	NA	3319.95
	12/23/09	3369.05	59.57	48.34	48.44	0.10	Pump	Sheen	10	3320.70
	12/23/09	3369.05	59.57	48.71	48.71	0.00	NA	NA	NA	3320.34
	12/30/09	3369.05	59.57	48.12	48.20	0.08	Pump	Sheen	10	3320.92
	12/30/09	3369.05	59.57	48.66	48.66	0.00	NA	NA	NA	3320.39
	01/06/10	3369.05	59.57	48.00	48.04	0.04	Pump	sheen	15	3321.04
	01/06/10	3369.05	59.57	48.60	48.60	0.00	NA	NA	NA	3320.45
	01/13/10	3369.05	59.57	48.05	48.11	0.06	Pump	sheen	10	3320.99
	01/13/10	3369.05	59.57	48.85	48.85	0.00	NA	NA	NA	3320.20
	01/27/10	3369.05	59.57	47.99	48.04	0.05	NA	NA	NA	3321.05
	02/11/10	3369.05	59.57	47.90	47.99	0.09	Pump	sheen	15	3321.14
	02/11/10	3369.05	59.57	48.52	48.52	0.00	NA	NA	NA	3320.53
	02/17/10	3369.05	59.57	47.97	48.04	0.07	Pump	sheen	15	3321.07
	02/17/10	3369.05	59.57	49.72	49.72	0.00	NA	NA	NA	3319.33
	03/02/10	3369.05	59.57	47.95	47.96	0.01	NA	NA	NA	3321.10
	03/10/10	3369.05	59.57	47.83	47.94	0.11	Pump	sheen	10	3321.20
	03/10/10	3369.05	59.57	48.42	48.42	0.00	NA	NA	NA	3320.63
	03/17/10	3369.05	59.57	47.96	48.02	0.06	Pump	sheen	15	3321.08
	03/17/10	3369.05	59.57	49.10	49.10	0.00	NA	NA	NA	3319.95
	03/24/10	3369.05	59.57	47.90	47.95	0.05	Pump	sheen	25	3321.14
	03/24/10	3369.05	59.57	48.58	48.58	0.00	NA	NA	NA	3320.47
	03/31/10	3369.05	59.57	47.86	47.89	0.03	NA	NA	NA	3321.19
	04/07/10	3369.05	59.57	47.97	48.03	0.06	Pump	sheen	10	3321.07
	04/07/10	3369.05	59.57	48.23	48.23	0.00	NA	NA	NA	3320.82
	04/14/10	3369.05	59.57	47.90	47.95	0.05	NA	NA	NA	3321.14
	04/21/10	3369.05	59.57	47.77	47.82	0.05	NA	NA	NA	3321.27
	04/28/10	3369.05	59.57	47.90	47.98	0.08	Hand Bailed	sheen	10	3321.14
	04/28/10	3369.05	59.57	48.50	48.50	0.00	NA	NA	NA	3320.55
	05/05/10	3369.05	59.57	47.92	47.96	0.04	NA	NA	NA	3321.12
	05/11/10	3369.05	59.57	47.88	47.94	0.06	Pump	sheen	23	3321.16
	05/11/10	3369.05	59.57	48.93	48.93	0.00	NA	NA	NA	3320.12
RW-3	05/19/10	3369.05	59.57	47.90	47.92	0.02	Pump	sheen	10	3321.15
	05/19/10	3369.05	59.57	48.48	48.48	0.00	NA	NA	NA	3320.57
	05/29/10	3369.05	59.57	47.96	47.98	0.02	Pump	sheen	15	3321.09
	05/29/10	3369.05	59.57	48.70	48.70	0.00	NA	NA	NA	3320.35
	06/02/10	3369.05	59.57	47.92	47.94	0.02	NA	NA	NA	3321.13
	06/12/10	3369.05	59.57	48.00	48.03	0.03	NA	NA	NA	3321.05
	06/15/10	3369.05	59.57	47.92	47.98	0.06	Pump	sheen	10	3321.12
	06/15/10	3369.05	59.57	49.13	49.13	0.00	NA	NA	NA	3319.92
	06/25/10	3369.05	59.57	48.00	48.04	0.04	NA	NA	NA	3321.04
	06/30/10	3369.05	59.57	48.03	48.09	0.06	NA	NA	NA	3321.01
	07/07/10	3369.05	59.57	48.02	48.06	0.04	NA	NA	NA	3321.02
	07/14/10	3369.05	59.57	47.96	48.06	0.10	NA	NA	NA	3321.08
	07/21/10	3369.05	59.57	48.00	48.10	0.10	NA	NA	NA	3321.04
	07/28/10	3369.05	59.57	48.01	48.11	0.10	NA	NA	NA	3321.03
	08/03/10	3369.05	59.57	47.99	48.12	0.13	Pump	sheen	10	3321.04
	08/03/10	3369.05	59.57	48.70	48.70	0.00	NA	NA	NA	3320.35
	08/11/10	3369.05	59.57	47.97	48.07	0.10	NA	NA	NA	3321.07
	08/18/10	3369.05	59.57	48.01	48.14	0.13	NA	NA	NA	3321.02
	08/25/10	3369.05	59.57	48.06	48.20	0.14	Pump	sheen	10	3320.97
	08/25/10	3369.05	59.57	48.52	48.52	0.00	NA	NA	NA	3320.53
	09/01/10	3369.05	59.57	47.88	47.94	0.06	Pump	sheen	10	3321.16
	09/01/10	3369.05	59.57	48.85	48.85	0.00	NA	NA	NA	3320.20
	09/08/10	3369.05	59.57	47.91	47.95	0.04	NA	NA	NA	3321.13
	09/15/10	3369.05	59.57	47.91	47.96	0.05	Pump	sheen	10	3321.13
	09/15/10	3369.05	59.57	49.10	49.10	0.00	NA	NA	NA	3319.95
	09/21/10	3369.05	59.57	47.87	47.88	0.01	NA	NA	NA	3321.18
	10/01/10	3369.05	59.57	47.92	47.96	0.04	NA	NA	NA	3321.12
	10/06/10	3369.05	59.57	47.88	47.91	0.03	NA	NA	NA	3321.17
	10/13/10	3369.05	59.57	47.93	47.98	0.05	Pump	sheen	20	3321.11
	10/13/10	3369.05	59.57	49.42	49.42	0.00	NA	NA	NA	3319.63
	10/22/10	3369.05	59.57	47.75	47.77	0.02	NA	NA	NA	3321.30
	10/27/10	3369.05	59.57	47.75	47.78	0.03	NA	NA	NA	3321.30
	11/03/10	3369.05	59.57	47.81	47.82	0.01	Pump	sheen	10	3321.24
	11/03/10	3369.05	59.57	48.41	48.41	0.00	NA	NA	NA	3320.64
	11/10/10	3369.05	59.57	47.59	47.60	0.01	NA	NA	NA	3321.46

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-3	11/16/10	3369.05	59.57	47.67	47.68	0.01	NA	NA	NA	3321.38
	11/24/10	3369.05	59.57	47.61	47.62	0.01	NA	NA	NA	3321.44
	12/01/10	3369.05	59.57	47.55	47.56	0.01	pump	sheen	10	3321.50
	12/01/10	3369.05	59.57	48.19	48.19	0.00	NA	NA	NA	3320.86
	12/08/10	3369.05	59.57	47.62	47.63	0.01	pump	sheen	10	3321.43
	12/08/10	3369.05	59.57	48.33	48.33	0.00	NA	NA	NA	3320.72
	12/15/10	3369.05	59.57	47.43	47.44	0.01	pump	sheen	10	3321.62
	12/15/10	3369.05	59.57	48.05	48.05	0.00	NA	NA	NA	3321.00
	12/21/10	3369.05	59.57	47.55	47.56	0.01	NA	NA	NA	3321.50
RW-4	01/27/10	Well not surveyed	57.63	46.69	46.85	0.16	NA	NA	24	Well not surveyed
	02/11/10		57.63	46.55	47.15	0.60	Pump	5.5	19.5	
	02/11/10		57.63	47.66	47.66	0.00	NA	NA	NA	
	02/17/10		57.63	46.73	46.73	0.00	Pump	sheen	25	
	02/17/10		57.63	48.13	48.13	0.00	NA	NA	NA	
	03/02/10		57.63	46.65	46.66	0.01	Pump	sheen	15	
	03/02/10		57.63	47.30	47.30	0.00	NA	NA	NA	
	03/10/10		57.63	47.56	47.56	0.00	Pump	0.25	19.75	
	03/10/10		57.63	47.91	47.91	0.00	NA	NA	NA	
	03/17/10		57.63	46.71	46.77	0.06	Pump	sheen	20	
	03/17/10		57.63	47.96	47.96	0.00	NA	NA	NA	
	03/24/10		57.63	46.63	46.64	0.01	Pump	sheen	20	
	03/24/10		57.63	48.02	48.02	0.00	NA	NA	NA	
	03/31/10		57.63	46.60	46.61	0.01	Pump	sheen	30	
	03/31/10		57.63	47.31	47.31	0.00	NA	NA	NA	
	04/07/10		57.63	46.70	46.70	0.00	Pump	sheen	20	
	04/07/10		57.63	47.98	47.98	0.00	NA	NA	NA	
	04/14/10		57.63	46.63	46.64	0.01	Pump	sheen	20	
	04/14/10		57.63	47.22	47.22	0.00	NA	NA	NA	
	04/21/10		57.63	46.48	46.48	0.00	Pump	sheen	15	
	04/21/10		57.63	48.50	48.50	0.00	NA	NA	NA	
	04/28/10		57.63	46.60	46.62	0.02	Pump	sheen	25	
	04/28/10		57.63	48.43	48.43	0.00	NA	NA	NA	
	05/05/10		57.63	46.61	46.62	0.01	NA	NA	NA	
	05/11/10		57.63	46.60	46.60	0.00	Pump	sheen	22	
	05/11/10		57.63	47.63	47.65	0.02	NA	NA	NA	
	05/19/10		57.63	46.61	46.65	0.04	Pump	sheen	20	
	05/19/10		57.63	47.23	47.23	0.00	NA	NA	NA	
	05/29/10		57.63	46.65	46.67	0.02	Pump	sheen	15	
	05/29/10		57.63	48.60	48.60	0.00	NA	NA	NA	
	06/02/10		57.63	47.62	47.62	0.00	Pump	sheen	20	
	06/02/10		57.63	49.10	49.10	0.00	NA	NA	NA	
	06/12/10		57.63	46.70	46.71	0.01	Pump	<0.25	20	
	06/12/10		57.63	47.81	47.81	0.00	NA	NA	NA	
	06/15/10		57.63	46.69	46.70	0.01	Pump	<0.25	20	
	06/15/10		57.63	49.20	49.20	0.00	NA	NA	NA	
	06/25/10		57.63	46.72	46.72	0.00	Pump	sheen	20	
	06/25/10		57.63	47.70	47.70	0.00	NA	NA	NA	
	06/30/10		57.63	46.76	46.76	0.00	NA	NA	NA	
	07/07/10		57.63	46.73	46.74	0.01	Pump	sheen	20	
	07/07/10		57.63	48.39	48.39	0.00	NA	NA	NA	
	07/14/10		57.63	46.70	46.70	0.00	NA	NA	NA	
	07/21/10		57.63	46.71	46.72	0.01	Pump	sheen	15	
	07/21/10		57.63	49.33	49.33	0.00	NA	NA	NA	
	07/28/10		57.63	46.71	46.71	0.00	NA	NA	NA	
	08/03/10		57.63	46.70	46.70	0.00	NA	NA	NA	
	08/11/10		57.63	46.72	46.72	0.00	Pump	sheen	20	
	08/11/10		57.63	47.64	47.64	0.00	NA	NA	NA	
	08/18/10		57.63	46.72	46.73	0.01	NA	NA	NA	
	08/25/10		57.63	46.78	46.79	0.01	Pump	sheen	20	
	08/25/10		57.63	46.72	46.73	0.01	NA	NA	NA	
	09/01/10		57.63	46.61	46.61	0.00	Pump	sheen	20	
	09/01/10		57.63	48.90	48.90	0.00	NA	NA	NA	
	09/08/10		57.63	46.64	46.65	0.01	Pump	sheen	20	
	09/08/10		57.63	48.20	48.20	0.00	NA	NA	NA	
	09/15/10		57.63	46.62	46.63	0.01	Pump	sheen	30	
	09/15/10		57.63	48.05	48.05	0.00	NA	NA	NA	
	09/21/10		57.63	46.56	46.57	0.01	Pump	sheen	20	
	09/21/10		57.63	47.95	47.95	0.00	NA	NA	NA	
	10/01/10		57.63	46.63	46.64	0.01	Pump	sheen	15	
	10/01/10		57.63	49.33	49.33	0.00	NA	NA	NA	
	10/06/10		57.63	46.60	46.60	0.00	Pump	sheen	10	
	10/06/10		57.63	48.10	48.10	0.00	NA	NA	NA	
	10/13/10		57.63	46.65	46.67	0.02	Pump	sheen	20	
	10/13/10		57.63	48.01	48.01	0.00	NA	NA	NA	
	10/22/10		57.63	46.46	46.47	0.01	NA	NA	NA	
	10/27/10		57.63	46.48	46.52	0.04	Pump	sheen	20	
	10/27/10		57.63	48.12	48.12	0.00	NA	NA	NA	
	11/03/10		57.63	46.52	46.53	0.01	Pump	sheen	10	
	11/03/10		57.63	47.30	47.30	0.00	NA	NA	NA	

TABLE 2
GROUNDWATER ELEVATION AND PSH RECOVERY DATA
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-4	11/10/10	Well not surveyed	57.63	46.31	46.31	0.00	NA	NA	NA	Well not surveyed
	11/16/10		57.63	46.39	46.39	0.00	pump	sheen	10	
	11/16/10		57.63	48.44	48.44	0.00	NA	NA	NA	
	11/24/10		57.63	46.33	46.34	0.01	pump	sheen	20	
	11/24/10		57.63	48.05	48.05	0.00	NA	NA	NA	
	12/01/10		57.63	46.26	46.26	0.00	NA	NA	NA	
	12/08/10		57.63	46.34	46.35	0.01	pump	sheen	10	
	12/08/10		57.63	48.16	48.16	0.00	NA	NA	NA	
	12/15/10		57.63	46.14	46.15	0.01	pump	sheen	10	
	12/15/10		57.63	47.85	47.85	0.00	NA	NA	NA	
	12/21/10		57.63	46.28	46.30	0.02	pump	sheen	15	
	12/21/10		57.63	48.04	48.04	0.00	NA	NA	NA	
RW-5	01/27/10	Well not surveyed	59.73	47.58	47.59	0.01	NA	NA	21.5	Well not surveyed
	02/11/10		59.73	47.50	47.56	0.06	Pump	sheen	10	
	02/11/10		59.73	50.80	50.80	0.00	NA	NA	NA	
	02/17/10		59.73	47.55	47.64	0.09	Pump	sheen	10	
	02/17/10		59.73	49.18	49.18	0.00	NA	NA	NA	
	03/02/10		59.73	47.50	47.51	0.01	Pump	sheen	10	
	03/02/10		59.73	49.36	49.36	0.00	NA	NA	NA	
	03/02/10		59.73	47.39	47.40	0.01	Pump	sheen	10	
	03/02/10		59.73	49.02	49.02	0.00	NA	NA	NA	
	03/17/10		59.73	47.52	47.65	0.13	Pump	sheen	15	
	03/17/10		59.73	49.62	49.62	0.00	NA	NA	NA	
	03/24/10		59.73	47.46	47.58	0.12	Pump	sheen	10	
	03/24/10		59.73	49.42	49.42	0.00	NA	NA	NA	
	03/31/10		59.73	47.40	47.50	0.10	Pump	sheen	15	
	03/31/10		59.73	49.13	49.13	0.00	NA	NA	NA	
	04/07/10		59.73	47.51	47.59	0.08	Pump	sheen	10	
	04/07/10		59.73	49.14	49.14	0.00	NA	NA	NA	
	04/14/10		59.73	47.35	47.59	0.24	Pump	sheen	10	
	04/14/10		59.73	49.30	49.30	0.00	NA	NA	NA	
	04/21/10		59.73	47.35	47.45	0.10	Pump	sheen	15	
	04/21/10		59.73	50.57	50.57	0.00	NA	NA	NA	
	04/28/10		59.73	47.46	47.56	0.10	Pump	sheen	10	
	04/28/10		59.73	48.76	48.76	0.00	NA	NA	NA	
	05/05/10		59.73	47.44	47.63	0.19	NA	NA	NA	
	05/11/10		59.73	47.38	47.68	0.30	Pump	sheen	24	
	05/11/10		59.73	51.75	51.75	0.00	NA	NA	NA	
	05/19/10		59.73	47.45	47.67	0.22	Pump	<0.25	9.75	
	05/19/10		59.73	49.09	49.09	0.00	NA	NA	NA	
	05/29/10		59.73	47.48	47.77	0.29	Pump	<0.25	9.75	
	05/29/10		59.73	50.00	50.00	0.00	NA	NA	NA	
	06/02/10		59.73	47.46	47.63	0.17	Pump	sheen	15	
	06/02/10		59.73	49.65	49.65	0.00	NA	NA	NA	
	06/12/10		59.73	47.52	47.63	0.11	Pump	<0.25	10	
	06/12/10		59.73	50.50	50.50	0.00	NA	NA	NA	
	06/15/10		59.73	47.48	47.68	0.20	Pump	<0.25	15	
	06/15/10		59.73	52.40	52.40	0.00	NA	NA	NA	
	06/25/10		59.73	47.52	47.83	0.31	Pump	sheen	20	
	06/25/10		59.73	49.94	49.94	0.00	NA	NA	NA	
	06/30/10		59.73	47.55	47.80	0.25	NA	NA	NA	
	07/07/10		59.73	47.53	47.92	0.39	Pump	<0.25	10	
	07/07/10		59.73	51.20	51.20	0.00	NA	NA	NA	
	07/14/10		59.73	47.52	47.80	0.28	Pump	sheen	10	
	07/14/10		59.73	49.44	49.44	0.00	NA	NA	NA	
	07/21/10		59.73	47.53	47.80	0.27	Pump	<0.25	10	
	07/21/10		59.73	49.45	49.45	0.00	NA	NA	NA	
	07/28/10		59.73	47.52	47.80	0.28	Pump	<0.25	10	
	07/28/10		59.73	50.16	50.16	0.00	NA	NA	NA	
	08/03/10		59.73	47.52	47.76	0.24	Pump	sheen	10	
	08/03/10		59.73	49.20	49.20	0.00	NA	NA	NA	
	08/11/10		59.73	48.59	48.89	0.30	Pump	sheen	10	
	08/11/10		59.73	50.08	50.08	0.00	NA	NA	NA	
	08/18/10		59.73	47.54	47.80	0.26	Pump	<0.25	10	
	08/18/10		59.73	51.48	51.48	0.00	NA	NA	NA	
	08/25/10		59.73	47.54	47.80	0.26	Pump	sheen	10	
	08/25/10		59.73	51.48	51.48	0.00	NA	NA	NA	
	09/01/10		59.73	47.43	47.63	0.20	Pump	<0.25	10	
	09/01/10		59.73	49.34	49.34	0.00	NA	NA	NA	
	09/08/10		59.73	47.46	47.67	0.21	Pump	sheen	10	
	09/08/10		59.73	49.61	49.61	0.00	NA	NA	NA	
	09/15/10		59.73	47.44	47.69	0.25	Pump	sheen	10	
	09/15/10		59.73	49.59	49.59	0.00	NA	NA	NA	
	09/21/10		59.73	47.40	47.57	0.17	Pump	sheen	20	
	09/21/10		59.73	49.30	49.30	0.00	NA	NA	NA	
	10/01/10		59.73	47.44	47.44	0.00	Pump	sheen	10	
	10/01/10		59.73	50.25	50.25	0.00	NA	NA	NA	
	10/06/10		59.73	47.45	47.45	0.00	Pump	sheen	10	
	10/06/10		59.73	49.60	49.60	0.00	NA	NA	NA	

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Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Date Measured	Top of Casing Elevation (ft)	Total Depth (ft)	Depth to Product (ft)	Depth to Water (ft)	PSH Thickness (ft)	Recovery Method	Recovery		Corrected Groundwater Elevation (ft)
								PSH (gallons)	Water (gallons)	
RW-5	10/13/10	Well not surveyed	59.73	47.48	47.71	0.23	Pump	sheen	10	Well not surveyed
	10/13/10		59.73	49.00	49.00	0.00	NA	NA	NA	
	10/22/10		59.73	47.29	47.47	0.18	Pump	sheen	15	
	10/22/10		59.73	49.81	49.81	0.00	NA	NA	NA	
	10/27/10		59.73	47.33	47.45	0.12	Pump	sheen	20	
	10/27/10		59.73	48.95	48.95	0.00	NA	NA	NA	
	11/03/10		59.73	47.35	47.58	0.23	Pump	sheen	10	
	11/03/10		59.73	49.21	49.21	0.00	NA	NA	NA	
	11/10/10		59.73	47.13	47.26	0.13	Pump	sheen	10	
	11/10/10		59.73	49.40	49.40	0.00	NA	NA	NA	
	11/16/10		59.73	47.23	47.33	0.10	pump	sheen	10	
	11/16/10		59.73	49.42	49.42	0.00	NA	NA	NA	
	11/24/10		59.73	47.16	47.28	0.12	pump	<.25	10	
	11/24/10		59.73	49.50	49.50	0.00	NA	NA	NA	
	12/01/10		59.73	47.11	47.20	0.09	pump	sheen	10	
	12/01/10		59.73	49.45	49.45	0.00	NA	NA	NA	
	12/08/10		59.73	47.18	47.30	0.12	pump	sheen	10	
	12/08/10		59.73	48.67	48.67	0.00	NA	NA	NA	
	12/15/10		59.73	46.99	47.08	0.09	pump	sheen	10	
	12/15/10		59.73	49.52	49.52	0.00	NA	NA	NA	
	12/21/10		59.73	47.10	47.18	0.08	pump	sheen	10	
	12/21/10		59.73	48.29	48.29	0.00	NA	NA	NA	

NA: Not Applicable
NG: Not Gauged

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01	0.75	0.75	0.62
MW-2	03/28/06	T13037-1	**0.243**	0.00750	0.04570	0.09390
MW-2	06/15/06	T13863-1	**0.333**	0.0033 J	0.01960	0.01040
MW-2	09/12/06	T14672-1	**0.178**	<0.00020	0.01780	0.00940
MW-2	12/06/06	T15622-1	**0.214**[a]	<0.00020	0.01850	0.00800
MW-2	02/28/07	T16496-1	**0.186**[a]	<0.00020	0.01410	0.00150
MW-2	05/30/07	T17641-1	**0.270**[a]	<0.00023	0.01880	0.00290
MW-2	09/07/07	T18808-1	0.00210	<0.00023	<0.00035	0.00680
MW-2	11/13/07	T19744-1	<0.0005	<0.0005	<0.0005	<0.001
MW-2	02/28/08	T21043-1	<0.00021	<0.00023	<0.00035	0.0015 J
MW-2	05/20/08	T22267-2	**0.278**[a]	<0.00023	0.03200	0.00069 J
MW-2	08/20/08	T23512-1	**0.01080**	<0.0005	<0.0005	<0.001
MW-2	11/20/08	180209	**0.176**	<0.00100	0.00630	<0.00100
MW-2	02/18/09	9021907	**0.117**	<0.00100	<0.00100	<0.00100
MW-2	05/20/09	9052216	**0.0357**	<0.000188	0.000500 J	<0.000163
MW-2	08/27/09	9083116	**0.0172**	<0.000188	0.0011	<0.000163
MW-2	11/18/09	215423	0.0007 J	<0.000332	<0.00023	<0.000143
MW-2	02/09/10	222042	<0.000371	<0.000400	0.0012	<0.000379
MW-2	05/12/10	1005477-02	<0.001	<0.001	0.0041	<0.003
MW-2	08/26/10	1008902-01	<0.001	<0.001	0.0033	<0.003
MW-2	11/18/10	1011750-01	<0.001	<0.001	0.0036	<0.003
MW-3	03/28/06	T13037-2	**0.501**	0.07580	0.05180	0.06270
MW-3	06/15/06	T13863-2	**0.432**	<0.0018	0.06030	0.04530
MW-3	09/12/06	T14672-2	**0.0612**	<0.00020	0.00490	<0.00036
MW-3	12/06/06	T15622-2	**0.190**[a]	0.00110	0.02470	0.00360
MW-3	02/28/07	T16496-2	**0.05830**	0.00054 J	0.00520	0.00360
MW-3	05/30/07	T17641-2	**0.05620**	<0.00023	0.00410	<0.00055
MW-3	09/07/07	T18808-2	<0.00021	<0.00023	0.00790	<0.00055
MW-3	11/13/07	T19744-2	<0.0005	<0.0005	<0.0005	<0.001
MW-3	02/28/08	T21043-2	<0.00021	<0.00023	<0.00035	<0.00055
MW-3	05/20/08	T22267-3	**0.748**[a]	0.0003 J	0.06190	0.00084 J
MW-3	08/20/08	T23512-2	**0.0459**	<0.0005	0.0021	<0.001
MW-3	11/20/08	180210	**0.0575**	0.0268	0.0152	0.0875
MW-3	02/18/09	9021907	0.0070	0.0025	<0.00100	<0.00100
MW-3	05/20/09	9052216	**0.1660**	0.1820	0.1050	0.2120
MW-3	08/27/09	9083116	0.0096	0.0248	0.0123	0.0189
MW-3	11/18/09	215424	0.0096	0.00700	0.0115	0.0184
MW-3	02/09/10	222043	<0.000371	<0.000400	0.0011	0.0007 J
MW-3	05/12/10	1005477-03	**0.0170**	<0.001	0.027	0.016
MW-3	08/26/10	1008902-02	0.0084	<0.001	0.0360	0.0250
MW-3	11/18/10	1011750-02	0.0030	<0.001	0.0046	0.00340
MW-4	03/28/06	T13037-3	<0.00038	<0.00036	<0.00035	<0.00072
MW-4	06/15/06	T13863-3	<0.00038	<0.00036	<0.00035	<0.00072
MW-4	09/12/06	T14672-3	<0.00035	<0.00020	<0.00033	<0.00036
MW-4	12/06/06	T15622-3	<0.00035	<0.00020	<0.00033	<0.00036
MW-4	02/28/07	T16496-3	<0.00035	<0.00020	<0.00033	<0.00036
MW-4	05/30/07	T17641-3	<0.00021	<0.00023	<0.00035	<0.00055
MW-4	09/07/07	T18808-3	<0.00021	<0.00023	<0.00035	<0.00055
MW-4	11/13/07	T19744-3	<0.0005	<0.0005	<0.0005	<0.001
MW-4	02/28/08	T21043-3	<0.00021	<0.00023	<0.00035	<0.00055
MW-4	05/20/08	T22267-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-4	08/20/08	T23512-3	<0.0005	<0.0005	<0.0005	<0.001
MW-4	11/20/08	180211	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	02/18/09	9021907	<0.00100	<0.00100	<0.00100	<0.00100
MW-4	05/20/09	9052216	<0.000149	<0.000188	<0.000178	<0.000163
MW-4	08/27/09	9083116	<0.000149	<0.000188	<0.000178	<0.000163

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01	0.75	0.75	0.62
MW-4	11/18/09	215425	<0.000160	<0.000332	<0.000230	<0.000143
MW-4	02/09/10	222044	<0.000371	<0.000400	<0.000430	<0.000379
MW-4	05/12/10	1005477-04	<0.001	<0.001	<0.001	<0.003
MW-4	08/26/10	1008902-03	<0.001	<0.001	<0.001	<0.003
MW-4	11/18/10	1011750-03	<0.001	<0.001	<0.001	<0.003
MW-5	03/28/06	T13037-4	<0.00038	<0.00036	<0.00035	<0.00072
MW-5	06/15/06	T13863-4	<0.00038	<0.00036	<0.00035	<0.00072
MW-5	09/12/06	T14672-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	12/06/06	T15622-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	02/28/07	T16496-4	<0.00035	<0.00020	<0.00033	<0.00036
MW-5	05/30/07	T17641-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	09/07/07	T18808-4	<0.00021	<0.00023	<0.00035	<0.00055
MW-5	11/13/07	T19744-4	<0.0005	<0.0005	<0.0005	<0.001
MW-5	02/28/08	T21043-4	<0.00021	<0.00023	0.00210	<0.00055
MW-5	05/20/08	T22267-5	0.00120	<0.00023	<0.00035	<0.00055
MW-5	08/20/08	T23512-4	<0.0005	<0.0005	<0.0005	<0.001
MW-5	11/20/08	180212	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	02/18/09	9021907	<0.00100	<0.00100	<0.00100	<0.00100
MW-5	05/20/09	9052216	<0.000149	<0.000188	<0.000178	<0.000163
MW-5	08/27/09	9083116	<0.000149	<0.000188	<0.000178	<0.000163
MW-5	11/18/09	215426	<0.000160	<0.000332	<0.000230	<0.000143
MW-5	02/09/10	222045	<0.000208	<0.000208	0.0010	0.0013
MW-5	05/12/10	1005477-05	<0.001	<0.001	0.0018	<0.003
MW-5	08/26/10	1008902-04	<0.001	<0.001	<0.001	<0.003
MW-5	11/18/10	1011750-04	<0.001	<0.001	<0.001	<0.003
MW-6	03/28/06	T13037-5	<0.00038	<0.00036	<0.00035	<0.00072
MW-6	06/15/06	T13863-5	<0.00038	<0.00036	<0.00035	<0.00072
MW-6	09/12/06	T14672-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	12/06/06	T15622-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	02/28/07	T16496-5	<0.00035	<0.00020	<0.00033	<0.00036
MW-6	05/30/07	T17641-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	09/07/07	T18808-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	11/13/07	T19744-5	<0.0005	<0.0005	<0.0005	<0.001
MW-6	02/28/08	T21043-5	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	05/20/08	T22267-8	<0.00021	<0.00023	<0.00035	<0.00055
MW-6	08/20/08	T23512-5	<0.0005	<0.0005	<0.0005	<0.001
MW-6	11/20/08	180213	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	02/18/09	9021907	<0.00100	<0.00100	<0.00100	<0.00100
MW-6	05/20/09	9052216	<0.000149	<0.000188	<0.000178	0.000200 J
MW-6	08/27/09	9083116	<0.000149	<0.000188	<0.000178	<0.000163
MW-6	11/18/09	215427	<0.000160	<0.000332	<0.000230	<0.000143
MW-6	02/09/10	222046	<0.000208	<0.000208	<0.000303	<0.000326
MW-6	05/12/10	1005477-06	<0.001	<0.001	<0.001	<0.003
MW-6	08/26/10	1008902-05	<0.001	<0.001	<0.001	<0.003
MW-6	11/18/10	1011750-05	<0.001	<0.001	<0.001	<0.003
MW-7	03/28/06	T13037-6	<0.00038	<0.00036	<0.00035	<0.00072
MW-7	06/15/06	T13863-6	<0.00038	<0.00036	<0.00035	<0.00072
MW-7	09/12/06	T14672-6	<0.00035	<0.00020	<0.00033	<0.00036
MW-7	12/06/06	T15622-6	<0.00035	<0.00020	<0.00033	<0.00036
MW-7	02/28/07	T16496-6	<0.00035	<0.00020	<0.00033	<0.00036
MW-7	05/30/07	T17641-6	<0.00021	<0.00023	<0.00035	<0.00055

TABLE 3
GROUNDWATER SAMPLE ANALYTICAL RESULTS
Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01	**0.75**	**0.75**	**0.62**
MW-7	09/07/07	T18808-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	11/13/07	T19744-6	<0.0005	<0.0005	<0.0005	<0.001
MW-7	02/28/08	T21043-6	<0.00021	<0.00023	<0.00035	<0.00055
MW-7	05/20/08	T22267-7	0.00650	<0.00023*	0.00060 J*	<0.00055*
MW-7	08/20/08	T23512-6	0.00110	<0.0005	<0.0005	<0.001
MW-7	11/20/08	180214	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	02/18/09	187838	<0.00100	<0.00100	<0.00100	<0.00100
MW-7	05/20/09	9052216	<0.000149	<0.000188	<0.000178	<0.000163
MW-7	08/27/09	9083116	<0.000149	<0.000188	<0.000178	<0.000163
MW-7	11/18/09	215428	<0.000160	<0.000332	<0.000230	<0.000143
MW-7	02/09/10	222047	<0.000208	<0.000208	<0.000303	<0.000326
MW-7	05/12/10	1005477-07	<0.001	<0.001	<0.001	<0.003
MW-7	08/26/10	1008902-06	<0.001	<0.001	<0.001	<0.003
MW-7	11/18/10	1011750-06	<0.001	<0.001	<0.001	<0.003
MW-8	05/12/10	1005477-08	<0.001	<0.001	<0.001	<0.003
MW-8	08/26/10	1008902-07	<0.001	<0.001	<0.001	<0.003
MW-8	11/18/10	1011750-07	<0.001	<0.001	<0.001	<0.003

< = Not Detected at the reporting limit.
J = Analyte detected below quantitation limit.
Bold indicates that analyte concentration above NMOCD Remediation C
[a] = Results from run 2; DF - 5
* Values reported from Run #2 as carry over was reported in Run #1.
NMOCD - New Mexico Oil Conservation Division

TABLE 4
BTEX GROUNDWATER SAMPLE ANALYTICAL RESULTS for wells with PSH/Sheen
Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well Number	Sample Date	Sample ID	SW 846-8021B			
			Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Total Xylenes (mg/L)
			NMOCD Remediation Criteria			
			0.01 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
MW-1	5/20/2008	T22267-1	**4.36**	**1.470**	**0.801**	**1.200**
MW-1	5/20/2009	9052216	**3.42**	0.0278 J	0.603	**0.642**
MW-1	5/12/2010	1005477-01	**2.80**	0.170	0.700	**1.000**
RW-1	5/20/2008	T22267-6	**1.2**	0.603	0.283	0.541
RW-1	5/20/2009	9052216	**0.263**	0.105	0.0636	0.143
RW-1	5/12/2010	1005477-09	**0.78**	**0.780**	0.5300	**1.100**
RW-2	5/20/2008	T22267-10	**0.0628**	0.0568	0.059	0.1120
RW-2	5/20/2009	9052216	**0.276**	0.0184	0.140	0.2500
RW-2	5/12/2010	1005477-10	**0.37**	0.2600	0.300	0.5500
RW-3	5/20/2008	T22267-9	**2.17**	0.2390	0.403	0.3450
RW-3	5/20/2009	9052216	**0.834**	0.0437	0.122	0.1420
RW-3	5/12/2010	1005477-11	**0.48**	0.0340	0.120	0.2100
RW-4	5/12/2010	1005477-12	**0.79**	**0.9300**	0.560	**1.2000**
RW-5	5/12/2010	1005477-13	**0.85**	0.3400	0.220	0.3500

Bold indicates that analyte concentration above NMOCD Remediation Criteria
J = Analyte detected below quantitation limit.
NMOCD - New Mexico Oil Conservation Division

TABLE 5
GROUNDWATER ANALYTICAL RESULTS for POLYNUCLEAR AROMATIC HYDROCARBONS (PAHs) from wells with PSH/Sheen

Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Monitoring Well	Sample Date	Laboratory ID	Naphthalene	Acenaphthylene	Acenaphthene	Flourene	Indeno(1,2,3-cd)pyrene	Phenanthrene	Anthracene	Fluoranthene	Pyrene	Benzo[a]-anthracene	Chrysene	Benzo[b]-fluoranthene	Benzo[a]-pyrene	Dibenzofuran	Dibenz[a,h]-anthracene	Benzo[g,h,i]-perylene	Benzo(k)fluoranthene	1-Methylnaphthalene	2-Methylnaphthalene	Total methylnaphthalene	TPH-GRO (C6-C10)	TPH (C10-C28)	TPH (C28-C30)
Units			(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)		(mg/L)	(mg/L)	(mg/L)
Other regulatory limits (Tap Water*)			***		365	243	0.91	1100	1830	1460	183	0.91	29.1	0.91	0.7**		0.091		9.1			***			
MW-1	5/20/2008	T22301-1	**150**	<16	<15	35.5 J	<24	39.7 J	<18	<16	<11	<14	<13	<15	<16	NA	<13	<25	<16	NA	28.5	28.5	41.5	137	NA
MW-1	5/20/2009	9052216	26	<0.0717	<0.133	2.02	<0.0812	2.68	<0.0819	<0.0892	<0.0465	<0.0307	<0.0926	<0.0640	<0.0513	3.03	<0.0566	<0.0637	<0.0776	24.4	20.1	**44.5**	6.82	17.8	NA
MW-1	5/12/2010	1005477-01	**42**	0.56	1.2	2.1	<0.2	4	<0.2	<0.2	<0.2	<0.2	0.5	<0.2	<0.2	3.7	<0.2	<0.2	<0.2	45	52	**97**	31	35	6.4
RW-1	5/20/2008	T22301-2	**34.5**	<1.6	<1.5	5.1	<2.4	4.1 J	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	NA	<1.3	<2.5	<1.6	NA	37.1	**37.1**	15.6	9.76	
RW-1	5/20/2009	9052216	**205a**	<0.756	<1.40	<0.560	<0.856	68.3	<0.863	<0.940	<0.490	<0.323	<0.975	<0.674	<0.541	51.9	<0.596	<0.671	<0.818	425	449a	**874**	2.22	60.8	
RW-1	5/12/2010	1005477-09	24	0.43	<0.2	2.3	<0.2	4	<0.2	<0.2	<0.2	<0.2	0.49	<0.2	<0.2	2.9	<0.2	<0.2	<0.2	36	37	**73**	80	120	21
RW-2	5/20/2008	T22301-3	4.8 J	<1.6	<1.5	<2.1	<2.4	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	NA	<1.3	<2.5	<1.6	NA	4.3 J	4.3 J	1.28	0.737	
RW-2	5/20/2009	9052216	25.7	<0.355	<0.657	<0.263	<0.402	8.6	<0.406	<0.442	<0.230	<0.152	<0.458	<0.317	<0.254	6.7	<0.280	<0.315	<0.384	43.7	44.2	**87.9**	2.81	56.5	
RW-2	5/12/2010	1005477-10	**38**	<0.2	1.1	1.9	<0.2	4.7	0.4	<0.2	<0.2	<0.2	0.49	<0.2	<0.2	3.4	<0.2	<0.2	<0.2	42	49	**91**	12	15	3.1
RW-3	5/20/2008	T22301-4	**23.1**	<1.6	<1.5	<2.1	<2.4	<1.6	<1.8	<1.6	<1.1	<1.4	<1.3	<1.5	<1.6	NA	<1.3	<2.5	<1.6	NA	20.1	**20.1**	15.5	2.92	
RW-3	5/20/2009	9052216	6.11	<0.0703	<0.130	0.63	<0.0797	0.77	<0.0803	<0.0875	<0.0456	<0.0301	<0.0908	<0.0627	<0.0503	0.877	<0.0555	<0.0624	<0.0761	6.41	4.23	10.64	1.56 J	<0.876	
RW-3	5/12/2010	1005477-11	15	<0.2	<0.2	0.89	<0.2	1.1	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.5	<0.2	<0.2	<0.2	18	17	**35**	3.9	3.1	<0.48
RW-4	5/12/2010	1005477-12	**43**	<0.2	0.4	2.1	<0.2	3.5	<0.2	<0.2	<0.2	<0.2	0.44	<0.2	<0.2	4	<0.2	<0.2	<0.2	46	45	**91**	40	48	7.8
RW-5	5/12/2010	1005477-13	9.6	<0.2	<0.2	0.74	<0.2	0.86	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	<0.2	1.4	<0.2	<0.2	<0.2	9.9	9.9	19.8	7.8	3.8	<0.47

< = Not Detected
J = Analyte detected below quantitation limit (Detected below MDL but above SDL.)
MDL = Method detection limit
SDL = Sample detection limit
Tap Water* = NMED Tap Water Soil screening levels for residential scenarios.
*** = NM Water Quality Standard for PAHs is 30µg/L for total naphthalenes plus monomethylnaphthalenes (total methylnaphthalenes)
** = NM Water Quality Standard
Bold indicates that analyte concentration above NMOCD Remediation Criteria
[a]Estimated concentration value greater than standard range.
[b]Estimated concentration value greater than standard range.
NA - Not requested for analysis
NMED - New Mexico Environment Department
NMOCD - New Mexico Oil Conservation Division

TABLE 6

2010 MONTHLY DISSOLVED PHASE GROUNDWATER RECOVERY DATA

Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Month	Volume of dissolved phase groundwater recovered in gallons	Quarterly Volume of dissolved phase groundwater recovered in gallons
January	154.50	707.00
February	163.50	
March	389.00	
April	308.00	832.00
May	296.00	
June	228.00	
July	184.25	709.25
August	220.00	
September	305.00	
October	285.00	623.00
November	160.00	
December	178.00	
Total	2871.25	2871.25

TABLE 7
2010 SOIL SAMPLE ANALYTICAL DATA
Plains Pipeline, L.P.
SRS No. 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

SAMPLE ID	LAB ID	SAMPLE DATE	Sample Depth (ft)	Mod. 8015B*	S 8015B	S 8021B			
				TPH DRO - New mg/kg	TPH GRO mg/kg	Benzene mg/kg	Toluene mg/kg	Ethyl benzene mg/kg	Xylene mg/kg
PRW-5-43-44	220236	1/20/2010	43-44	1410[1]	1630[1]	2.23	14	18.9	46.4
PRW-4-45-50	220237	1/19/2010	45-50	<5.86	20.8	<0.0041	<0.0031	0.0529	0.0826
MW-8-45	220238	1/19/2010	45	<5.86[1]	<0.396	<0.0041	<0.0031	<0.0024	<0.0065

1-High surrogate recovery reported due to peak interference.
TPH - Total petroleum hydrocarbons
DRO - Diesel Range Organics
GRO - Gasoline Range Organics

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
for WELLS INSTALLED in JANUARY 2010
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Analyte	Results			New Mexico Water Quality Standards	EPA Primary MCLs	EPA Secondary MCLs	Selected NM GW RBSL
	RW-4	RW-5	MW-8				
Sample Date	1/27/2010	1/27/2010	1/27/2010				
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Total Metals							
Dissolved Calcium	130	183	145				
Dissolved Potassium	8.56	10.4	9.23				
Dissolved Magnesium	68.8	106	77.3				
Dissolved Sodium	188	234	226				
Total Silver	<0.00131 U	<0.00131 U	<0.00131 U	0.05		0.1	
Total Arsenic	<0.00148 U	<0.00148 U	<0.00148 U	0.1	0.01		
Total Barium	0.154	0.154	0.15800	1	2		
Total Cadmium	<0.000303 U	<0.000303 U	<0.00030 U	0.01	0.005		
Total Chromium	0.017	0.004 J	0.00800	0.05	0.1		
Total Lead	<0.00494 U	<0.00494 U	<0.00494 U	0.05	0.015*		
Total Selenium	<0.00508 U	<0.00508 U	<0.00508 U	0.05	0.05		
Total Copper	0.008	<0.00205 U	0.003 J	1	1.3*	1	
Total Iron	**14.3**	**2.49**	**6.720**	1		0.3	
Total Manganese	0.142	0.081	0.091	0.2		0.05	
Total Zinc	0.048	0.008	0.026	10		5	
Total Aluminum	**21.5**	3.52	**9.170**	5		0.05 - 0.2	
Total Cobalt	0.005	0.002	<0.00082 U	0.05			
Total Molybdenum	<0.00356 U	<0.00356 U	<0.00356 U	1			
Total Nickel	0.013	0.004 J	0.006	0.2			
Total Mercury	0.00007 J	<0.0000388 U	<0.00004 U	0.002	0.002		
Alkalinity							
Carbonate Alkalinity	<1.00 U	<1.00 U	<1.00000 U				
Hydroxide Alkalinity	<1.00 U	<1.00 U	<1.00000 U				
Bicarbonate Alkalinity	282	414	293				
Total Alkalinity	282	414	293				
Inorganic Anions							
PO4-P	<0.365 U	<0.365 U	<0.365 U				
Chloride	**408**	**527**	**429**	250		250	
Fluoride	1.11	0.991 J	1.18000	1.6	4	2	
Nitrate-N	3.46	1.37	10	10	10		
Sulfate	179	172	239	600		250	
Semi Volatiles							
Pyridine	<0.000560 U	<0.000560 U	<0.000560 U				
N-Nitrosodimethylamine	<0.000509 U	<0.000509 U	<0.000509 U	Tox			
2-Picoline	<0.000376 U	<0.000376 U	<0.000376 U				
Methyl methanesulfonate	<0.000323 U	<0.000323 U	<0.000323 U				
Ethyl methanesulfonate	<0.000413 U	<0.000413 U	<0.000413 U				
Phenol	<0.000469 U	**0.00528**	<0.000469 U	0.005 (Tox)			
Aniline	<0.000637 U	<0.000637 U	<0.000637 U				
bis(2-chloroethyl)ether	<0.000406 U	<0.000406 U	<0.000406 U	Tox			
2-Chlorophenol	<0.000495 U	<0.000495 U	<0.000495 U				
1,2-Dichlorobenzene (ortho)	<0.000408 U	<0.000408 U	<0.000408 U	Tox	0.6		
1,3-Dichlorobenzene (meta)	<0.000407 U	<0.000407 U	<0.000407 U	Tox			
1,4-Dichlorobenzene (para)	<0.000406 U	<0.000406 U	<0.000406 U	Tox	0.075		
Benzyl alcohol	<0.000496 U	<0.000496 U	<0.000496 U				
2-Methylphenol	<0.000669 U	<0.000669 U	<0.000669 U				
bis(2-chloroisopropyl)ether	<0.000464 U	<0.000464 U	<0.000464 U	Tox			
4-Methylphenol / 3-Methylphenol	<0.000472 U	<0.000472 U	<0.000472 U				
N-Nitrosodi-n-propylamine	<0.000675 U	<0.000675 U	<0.000675 U				
Hexachloroethane	<0.000467 U	<0.000467 U	<0.000467 U	Tox			
Acetophenone	<0.000391 U	<0.000391 U	<0.000391 U				
Nitrobenzene	<0.000429 U	<0.000429 U	<0.000429 U	Tox			
N-Nitrosopiperidine	<0.000408 U	<0.000408 U	<0.000408 U				
Isophorone	<0.000571 U	<0.000571 U	<0.000571 U	Tox			
2-Nitrophenol	<0.000374 U	<0.000374 U	<0.000374 U				
2,4-Dimethylphenol	<0.000440 U	0.00175 J	<0.000440 U				
bis(2-chloroethoxy)methane	<0.000398 U	<0.000398 U	<0.000398 U				
2,4-Dichlorophenol	<0.000369 U	<0.000369 U	<0.000369 U	Tox			
1,2,4-Trichlorobenzene	<0.000372 U	<0.000372 U	<0.000372 U		0.07		
Benzoic acid	<0.00150 U	<0.00150 U	<0.00150 U				
Naphthalene	0.0298	0.0159	<0.000451 U	0.03			
a,a-Dimethylphenethylamine	<0.00119 U	<0.00119 U	<0.00119 U				
4-Chloroaniline	<0.000348 U	<0.000348 U	<0.000348 U				
2,6-Dichlorophenol	<0.000446 U	<0.000446 U	<0.000446 U				
Hexachlorobutadiene	<0.000477 U	<0.000477 U	<0.000477 U				

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
for WELLS INSTALLED in JANUARY 2010
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Analyte	Results			New Mexico Water Quality Standards	EPA Primary MCLs	EPA Secondary MCLs	Selected NM GW RBSL
	RW-4	RW-5	MW-8				
Sample Date	1/27/2010	1/27/2010	1/27/2010				
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Semi Volatiles (continued)							
N-Nitroso-di-n-butylamine	<0.000605 U	<0.000605 U	<0.000605 U	Tox			
4-Chloro-3-methylphenol	<0.000481 U	<0.000481 U	<0.000481 U				
2-Methylnaphthalene	0.0529	0.0217	<0.000390 U				
1-Methylnaphthalene	0.0582	0.0237	<0.000456 U				
1,2,4,5-Tetrachlorobenzene	<0.000564 U	<0.000564 U	<0.000564 U	Tox			
Hexachlorocyclopentadiene	<0.000514 U	<0.000514 U	<0.000514 U		0.05		
2,4,6-Trichlorophenol	<0.000732 U	<0.000732 U	<0.000732 U	Tox			
2,4,5-Trichlorophenol	<0.000769 U	<0.000769 U	<0.000769 U	Tox			
2-Chloronaphthalene	<0.000384 U	<0.000384 U	<0.000384 U				
1-Chloronaphthalene	<0.000439 U	<0.000439 U	<0.000439 U				
2-Nitroaniline	<0.000701 U	<0.000701 U	<0.000701 U				
Dimethylphthalate	<0.000593 U	<0.000593 U	<0.000593 U	Tox			
Acenaphthylene	<0.000540 U	<0.000540 U	<0.000540 U				
2,6-Dinitrotoluene	<0.000590 U	<0.000590 U	<0.000590 U				
3-Nitroaniline	<0.000665 U	<0.000665 U	<0.000665 U				
Acenaphthene	<0.000390 U	<0.000390 U	<0.000390 U				2.2
2,4-Dinitrophenol	<0.000203 U	<0.000203 U	<0.000203 U	Tox			
Dibenzofuran	0.007	0.00328 J	<0.000376 U				
Pentachlorobenzene	<0.000526 U	<0.000526 U	<0.000526 U	Tox			
4-Nitrophenol	<0.00170 U	<0.00170 U	<0.00170 U				
2,4-Dinitrotoluene	<0.000840 U	<0.000840 U	<0.000840 U	Tox			
1-Naphthylamine	<0.000634 U	<0.000634 U	<0.000634 U				
2,3,4,6-Tetrachlorophenol	<0.000521 U	<0.000521 U	<0.000521 U				
2-Naphthylamine	<0.000644 U	<0.000644 U	<0.000644 U				
Fluorene	0.00426 J	0.0016 J	<0.000597 U	Tox			1.46
4-Chlorophenyl-phenylether	<0.000571 U	<0.000571 U	<0.000571 U				
Diethylphthalate	<0.000763 U	<0.000763 U	<0.000763 U	Tox			
4-Nitroaniline	<0.000647 U	<0.000647 U	<0.000647 U				
Diphenylhydrazine	<0.000606 U	<0.000606 U	<0.000606 U	Tox			
4,6-Dinitro-2-methylphenol	<0.00182 U	<0.00182 U	<0.00182 U				
Diphenylamine	<0.000406 U	<0.000406 U	<0.000406 U				
4-Bromophenyl-phenylether	<0.000507 U	<0.000507 U	<0.000507 U				
Phenacetin	<0.000558 U	<0.000558 U	<0.000558 U				
Hexachlorobenzene	<0.000466 U	<0.000466 U	<0.000466 U	Tox	0.001		
4-Aminobiphenyl	<0.000486 U	<0.000486 U	<0.000486 U				
Pentachlorophenol	<0.000401 U	<0.000401 U	<0.000401 U	Tox	0.001		
Anthracene	<0.000395 U	<0.000395 U	<0.000395 U	Tox			11**
Pentachloronitrobenzene	<0.000376 U	<0.000376 U	<0.000376 U				
Pronamide	<0.000439 U	<0.000439 U	<0.000439 U				
Phenanthrene	0.00709	0.00176 J	<0.000505 U	Tox			1.1**
Di-n-butylphthalate	<0.000445 U	<0.000445 U	<0.000445 U	Tox			
Fluoranthene	<0.000583 U	<0.000583 U	<0.000583 U	Tox			1.46**
Benzidine	<0.00219 U	<0.00219 U	<0.00219 U	Tox			
Pyrene	<0.000667 U	<0.000667 U	<0.000667 U	Tox			1.1**
p-Dimethylaminoazobenzene	<0.000832 U	<0.000832 U	<0.000832 U				
Butylbenzylphthalate	<0.000410 U	<0.000410 U	<0.000410 U				
Benzo(a)anthracene	<0.000486 U	<0.000486 U	<0.000486 U				0.0012
3,3-Dichlorobenzidine	<0.00109 U	<0.00109 U	<0.00109 U				
Chrysene	0.00099 J[1]	<0.000588 U	<0.000588 U				0.117**
bis(2-ethylhexyl)phthalate	0.00241 J	0.00158 J	0.00375 J	Tox	0.006		
Di-n-octylphthalate	<0.00107 U	<0.00107 U	<0.00107 U				
Benzo(b)fluoranthene	<0.000810 U	<0.000810 U	<0.000810 U				0.0012
Benzo(k)fluoranthene	<0.000779 U	<0.000779 U	<0.000779 U	Tox			0.0012**
7,12-Dimethylbenz(a)anthracene	<0.000940 U	<0.000940 U	<0.000940 U				
Benzo(a)pyrene	<0.00154 U	<0.00154 U	<0.00154 U	0.0007	0.0002		
3-Methylcholanthrene	<0.000837 U	<0.000837 U	<0.000837 U				
Dibenzo(a,j)acridine	<0.00119 U	<0.00119 U	<0.00119 U				
Indeno(1,2,3-cd)pyrene	<0.000795 U	<0.000795 U	<0.000795 U				
Dibenzo(a,h)anthracene	<0.000746 U	<0.000746 U	<0.000746 U				0.00012
Benzo(g,h,i)perylene	<0.000875 U	<0.000875 U	<0.000875 U				
Volatiles							
Bromochloromethane	<0.074 U	<0.0037 U	<0.00037 U				
Dichlorodifluoromethane	<0.09 U	<0.0045 U	<0.00045 U	Tox			
Chloromethane (methyl chloride)	<0.118 U	<0.0059 U	<0.00059 U	Tox			
Vinyl Chloride	***<0.138*** U	***<0.0069*** U	<0.00069 U	0.001	0.002		

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
for WELLS INSTALLED in JANUARY 2010
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Analyte	Results			New Mexico Water Quality Standards	EPA Primary MCLs	EPA Secondary MCLs	Selected NM GW RBSL
	RW-4	RW-5	MW-8				
Sample Date	1/27/2010	1/27/2010	1/27/2010				
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Volatiles (continued)							
Bromomethane (methyl bromide)	<0.15 U	<0.0075 U	<0.00075 U	Tox			
Chloroethane	<0.114 U	<0.0057 U	<0.00057 U				
Trichlorofluoromethane	<0.094 U	<0.0047 U	<0.00047 U				
Acetone	<0.35 U	<0.0175 U	<0.00175 U				
Iodomethane (methyl iodide)	<0.064 U	<0.0032 U	<0.00032 U				
Carbon Disulfide	<0.05 U	<0.0025 U	<0.00025 U				
Acrylonitrile	<0.064 U	<0.0032 U	<0.00032 U	Tox			
2-Butanone (MEK)	<0.162 U	<0.0081 U	<0.00081 U				
4-Methyl-2-pentanone (MIBK)	<0.158 U	<0.0079 U	<0.00079 U				
2-Hexanone	<0.102 U	<0.0051 U	<0.00051 U				
trans 1,4-Dichloro-2-butene	<0.098 U	<0.0049 U	<0.00049 U				
1,1-Dichloroethene	***<0.08*** U	<0.004 U	<0.0004 U	0.005	0.007		
Methylene chloride	<0.09 U	0.0115 J	<0.00045 U	0.1	0.005		
MTBE	***<0.08*** U	<0.004 U	<0.0004 U	0.015			
trans-1,2-Dichloroethene	<0.066 U	<0.0033 U	<0.00033 U	Tox	0.1		
1,1-Dichloroethane	***<0.058*** U	<0.0029 U	<0.00029 U	0.025			
cis-1,2-Dichloroethene	<0.04 U	<0.002 U	<0.0002 U	Tox	0.07		
2,2-Dichloropropane	<0.084 U	<0.0042 U	<0.00042 U				
1,2-Dichloroethane (EDC)	***<0.07*** U	<0.0035 U	<0.00035 U	0.01	0.005		
Chloroform	<0.054 U	<0.0027 U	<0.00027 U	0.1			
1,1,1-Trichloroethane	<0.046 U	<0.0023 U	<0.00023 U	0.06	0.2		
1,1-Dichloropropene	<0.068 U	<0.0034 U	<0.00034 U				
Benzene	**0.803**	**0.747**	<0.00024 U	0.01	0.005		
Carbon Tetrachloride	***<0.06*** U	<0.003 U	<0.0003 U	0.01	0.005		
1,2-Dichloropropane	<0.072 U	<0.0036 U	<0.00036 U		0.005		
Trichloroethene (TCE)	<0.06 U	<0.003 U	<0.0003 U	0.1	0.005		
Dibromomethane (methylene bromide	<0.094 U	<0.0047 U	<0.00047 U				
Bromodichloromethane	<0.056 U	<0.0028 U	<0.00028 U	Tox			
2-Chloroethyl vinyl ether	<0.066 U	<0.0033 U	<0.00033 U				
cis-1,3-Dichloropropene	<0.066 U	<0.0033 U	<0.00033 U	Tox			
trans-1,3-Dichloropropene	<0.076 U	<0.0038 U	<0.00038 U	Tox			
Toluene	**1.04**	0.182	<0.00027 U	0.75	1		
1,1,2-Trichloroethane	***<0.056*** U	<0.0028 U	<0.00028 U	0.01	0.005		
1,3-Dichloropropane	<0.054 U	<0.0027 U	<0.00027 U				
Dibromochloromethane	<0.064 U	<0.0032 U	<0.00032 U				
1,2-Dibromoethane (EDB)	***<0.068*** U	***<0.0034*** U	***<0.00034*** U	0.0001	0.00005		
Tetrachloroethene (PCE)	***<0.056*** U	<0.0028 U	<0.00028 U	0.02			
Chlorobenzene	<0.052 U	<0.0026 U	<0.00026 U	Tox	0.1		
1,1,1,2-Tetrachloroethane	<0.044 U	<0.0022 U	<0.00022 U				
Ethylbenzene	0.456	0.146	<0.00026 U	0.75	0.7		
m,p-Xylene	**0.727**	0.256	<0.00054 U	0.62	10		
Bromoform	<0.046 U	<0.0023 U	<0.00023 U	Tox			
Styrene	<0.042 U	<0.0021 U	<0.00021 U		0.1		
o-Xylene	0.233	0.0655	<0.00026 U	0.62	10		
1,1,2,2-Tetrachloroethane	***<0.084*** U	<0.0042 U	<0.00042 U	0.01	0.005		
2-Chlorotoluene	<0.048 U	<0.0024 U	<0.00024 U				
1,2,3-Trichloropropane	<0.086 U	<0.0043 U	<0.00043 U				
Isopropylbenzene	0.0584 J	0.0319	<0.00026 U				
Bromobenzene	<0.052 U	<0.0026 U	<0.00026 U				
n-Propylbenzene	<0.062 U	0.0186	<0.00031 U				
1,3,5-Trimethylbenzene	0.066 J	0.0356	<0.00027 U				
tert-Butylbenzene	<0.06 U	<0.003 U	<0.0003 U				
1,2,4-Trimethylbenzene	0.187 J	0.159	<0.00029 U				
1,4-Dichlorobenzene (para)	<0.000406 U	<0.000406 U	<0.000406 U	Tox	0.075		
sec-Butylbenzene	<0.000056 U	0.00721 J	<0.00028 U				
1,3-Dichlorobenzene (meta)	<0.000407 U	<0.000407 U	<0.000407 U	Tox			
p-Isopropyltoluene	<0.066 U	0.00605 J	<0.00033 U				
4-Chlorotoluene	<0.058 U	<0.0029 U	<0.00029 U				
1,2-Dichlorobenzene (ortho)	<0.000408 U	<0.000408 U	<0.000408 U	Tox	0.6		
n-Butylbenzene	<0.06 U	0.00556 J	<0.0003 U				
1,2-Dibromo-3-chloropropane	<0.136 U	<0.0068 U	<0.00068 U		0.0002		
1,2,3-Trichlorobenzene	<0.066 U	<0.0033 U	<0.00033 U				
1,2,4-Trichlorobenzene	<0.000372 U	<0.000372 U	<0.000372 U		0.07		
Naphthalene	0.0298	0.0159	<0.000451 U	0.03			

TABLE 8
GROUNDWATER ANALYTICAL RESULTS
for WELLS INSTALLED in JANUARY 2010
Plains Pipeline, L.P.
SRS # 2003-00117
Vacuum to Jal Mainline #3
Lea County, New Mexico

Analyte	Results			New Mexico Water Quality Standards	EPA Primary MCLs	EPA Secondary MCLs	Selected NM GW RBSL
	RW-4	RW-5	MW-8				
Sample Date	1/27/2010	1/27/2010	1/27/2010				
Units	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L	mg/L
Volatiles (continued)							
Hexachlorobutadiene	<0.000477 U	<0.000477 U	<0.000477 U				
Total Xylene	0.96	0.3215	<0.00026 U	10			
PAHs							
Naphthalene	0.0298	0.0159	<0.000451 U				
2-Methylnaphthalene	0.0529	0.0217	<0.000390 U				
1-Methylnaphthalene	0.0582	0.0237	<0.000456 U				
Acenaphthylene	<0.000540 U	<0.000540 U	<0.000540 U				
Acenaphthene	<0.000390 U	<0.000390 U	<0.000390 U				
Dibenzofuran	0.007	0.00328 J	<0.000376 U				
Fluorene	0.00426 J	0.0016 J	<0.000597 U				
Anthracene	<0.000395 U	<0.000395 U	<0.000395 U				
Phenanthrene	0.00709	0.00176 J	<0.000505 U				
Fluoranthene	<0.000583 U	<0.000583 U	<0.000583 U				
Pyrene	<0.000667 U	<0.000667 U	<0.000667 U				
Benzo(a)anthracene	<0.000486 U	<0.000486 U	<0.000486 U				
Chrysene	0.00099 J	<0.000588 U	<0.000588 U				
Benzo(b)fluoranthene	<0.000810 U	<0.000810 U	<0.000810 U				
Benzo(k)fluoranthene	<0.000779 U	<0.000779 U	<0.000779 U				
Benzo(a)pyrene	<0.00154 U	<0.00154 U	<0.00154 U				
Indeno(1,2,3-cd)pyrene	<0.000795 U	<0.000795 U	<0.000795 U				
Dibenzo(a,h)anthracene	<0.000746 U	<0.000746 U	<0.000746 U				
Benzo(g,h,i)perylene	<0.000875 U	<0.000875 U	<0.000875 U				

RBSL - Risk Based Screening Levels, back calculated for adults using a target risk of 1x10-5 or a hazard quotient of 1, default Toxicity
*Treatment Technique Action level
**Values listed are above the pure component solubility in water
*** Methylene chloride was detected in the Method blank at a concentration of 0.00926 mg/L
Tox - A numerical standard has not been established, but the contaminant is listed in a narrative standard of "Toxic pollutant" defined in WQCC regulations
TRRP - Texas Risk Reduction Program
Yellow highlight indicates regulatory limits not found
Bold indicates results exceed the New Mexico (NM) Water Quality Standards used by NMOCD
Bold, italics indicate that the laboratory sample detection limit is higher than the NM Water Quality Standards due to dilution
Analytes in **red** indicate the constituents of primary concern at the site.
[1]-Spike analyte out of control limits. Results biased high.

APPENDIX C

2010 Analytical Laboratory Reports

(Available on CD attached to back cover)

1st Quarter 2010 Analytical Reports – 10021111

2nd Quarter 2010 Analytical Reports – 1005477

3rd Quarter 2010 Analytical Reports – 1008902

4th Quarter 2010 Analytical Reports – 1011750

January 2010 Investigation Reports

January 2010 – Soil analytical results – 10012112

January 2010 – Groundwater analytical Results – 10012803

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
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5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Chan Patel
Premier Environmental
4800 Sugar Grove Blvd.
Suite 420
Stafford, TX, 77477-2635

Report Date: February 15, 2010

Work Order: 10021111

Project Location: Lea Co., NM
Project Name: Vac. to Jal #3
Project Number: 205068
SRS#: 2003-00117

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
222042	MW-2	water	2010-02-09	12:35	2010-02-10
222043	MW-3	water	2010-02-09	12:55	2010-02-10
222044	MW-4	water	2010-02-09	12:45	2010-02-10
222045	MW-5	water	2010-02-09	13:10	2010-02-10
222046	MW-6	water	2010-02-09	13:00	2010-02-10
222047	MW-7	water	2010-02-09	13:05	2010-02-10

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

This report consists of a total of 10 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Notes:
For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

U - Not detected. The analyte is not detected above the SDL.

J - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.

B - The sample contains less than ten times the concentration found in the method blank.

JB - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.

Blair Leftwich

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Case Narrative

Samples for project Vac. to Jal #3 were received by TraceAnalysis, Inc. on 2010-02-10 and assigned to work order 10021111. Samples for work order 10021111 were received damaged without headspace and at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	57709	2010-02-11 at 11:50	67465	2010-02-11 at 11:50
BTEX	S 8021B	57729	2010-02-12 at 12:22	67496	2010-02-12 at 12:22

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10021111 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 222042 - MW-2

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | Sample Preparation: 2010-02-12 | Prepared By: ER

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000371	<0.00100	<0.000371	mg/L	1	0.000371	0.001	0.000371
Toluene	U	<0.000400	<0.00100	<0.000400	mg/L	1	0.000400	0.001	0.0004
Ethylbenzene		**0.00120**	**0.00120**	<0.000430	mg/L	1	0.000430	0.001	0.00043
Xylene	U	<0.000379	<0.00100	<0.000379	mg/L	1	0.000379	0.001	0.000379

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0974	mg/L	1	0.100	97	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.102	mg/L	1	0.100	102	82.5 - 109

Sample: 222043 - MW-3

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | Sample Preparation: 2010-02-12 | Prepared By: ER

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000371	<0.00100	<0.000371	mg/L	1	0.000371	0.001	0.000371
Toluene	U	<0.000400	<0.00100	<0.000400	mg/L	1	0.000400	0.001	0.0004
Ethylbenzene		**0.00110**	**0.00110**	<0.000430	mg/L	1	0.000430	0.001	0.00043
Xylene	J	**0.000700**	<0.00100	<0.000379	mg/L	1	0.000379	0.001	0.000379

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0892	mg/L	1	0.100	89	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.0922	mg/L	1	0.100	92	82.5 - 109

Sample: 222044 - MW-4

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | Sample Preparation: 2010-02-12 | Prepared By: ER

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000371	<0.00100	<0.000371	mg/L	1	0.000371	0.001	0.000371
Toluene	U	<0.000400	<0.00100	<0.000400	mg/L	1	0.000400	0.001	0.0004
Ethylbenzene	U	<0.000430	<0.00100	<0.000430	mg/L	1	0.000430	0.001	0.00043
Xylene	U	<0.000379	<0.00100	<0.000379	mg/L	1	0.000379	0.001	0.000379

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0934	mg/L	1	0.100	93	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.0968	mg/L	1	0.100	97	82.5 - 109

Sample: 222045 - MW-5

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | Sample Preparation: 2010-02-11 | Prepared By: MT

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Toluene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Ethylbenzene		**0.00100**	**0.00100**	<0.000303	mg/L	1	0.000303	0.001	0.000303
Xylene		**0.00130**	**0.00130**	<0.000326	mg/L	1	0.000326	0.001	0.000326

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0944	mg/L	1	0.100	94	77.8 - 103
4-Bromofluorobenzene (4-BFB)		0.0994	mg/L	1	0.100	99	72.3 - 112

Sample: 222046 - MW-6

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | Sample Preparation: 2010-02-11 | Prepared By: MT

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Toluene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Ethylbenzene	U	<0.000303	<0.00100	<0.000303	mg/L	1	0.000303	0.001	0.000303
Xylene	U	<0.000326	<0.00100	<0.000326	mg/L	1	0.000326	0.001	0.000326

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0977	mg/L	1	0.100	98	77.8 - 103
4-Bromofluorobenzene (4-BFB)		0.103	mg/L	1	0.100	103	72.3 - 112

Sample: 222047 - MW-7

Laboratory: Lubbock
Analysis: BTEX | Analytical Method: S 8021B | Prep Method: S 5030B
QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | Sample Preparation: 2010-02-11 | Prepared By: MT

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Toluene	U	<0.000208	<0.00100	<0.000208	mg/L	1	0.000208	0.001	0.000208
Ethylbenzene	U	<0.000303	<0.00100	<0.000303	mg/L	1	0.000303	0.001	0.000303
Xylene	U	<0.000326	<0.00100	<0.000326	mg/L	1	0.000326	0.001	0.000326

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0973	mg/L	1	0.100	97	77.8 - 103
4-Bromofluorobenzene (4-BFB)		0.104	mg/L	1	0.100	104	72.3 - 112

Method Blank (1)

QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | QC Preparation: 2010-02-11 | Prepared By: MT

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.000208	mg/L	0.000208
Toluene		<0.000208	mg/L	0.000208
Ethylbenzene		<0.000303	mg/L	0.000303
Xylene		<0.000326	mg/L	0.000326

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	77.8 - 103
4-Bromofluorobenzene (4-BFB)		0.0926	mg/L	1	0.100	93	72.3 - 112

Method Blank (1)

QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | QC Preparation: 2010-02-12 | Prepared By: ER

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.000371	mg/L	0.000371
Toluene		<0.000400	mg/L	0.0004
Ethylbenzene		<0.000430	mg/L	0.00043
Xylene		<0.000379	mg/L	0.000379

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0948	mg/L	1	0.100	95	79.8 - 104
4-Bromofluorobenzene (4-BFB)		0.0973	mg/L	1	0.100	97	82.5 - 109

Laboratory Control Spike (LCS-1)

QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | QC Preparation: 2010-02-11 | Prepared By: MT

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0983	mg/L	1	0.100	<0.000208	98	89 - 107
Toluene	0.0971	mg/L	1	0.100	<0.000208	97	87.7 - 106
Ethylbenzene	0.0992	mg/L	1	0.100	<0.000303	99	84.6 - 108
Xylene	0.306	mg/L	1	0.300	<0.000326	102	85.4 - 112

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.105	mg/L	1	0.100	<0.000208	105	89 - 107	7	20
Toluene	0.104	mg/L	1	0.100	<0.000208	104	87.7 - 106	7	20
Ethylbenzene	0.106	mg/L	1	0.100	<0.000303	106	84.6 - 108	7	20
Xylene	0.329	mg/L	1	0.300	<0.000326	110	85.4 - 112	7	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0980	0.0996	mg/L	1	0.100	98	100	81.6 - 112
4-Bromofluorobenzene (4-BFB)	0.0899	0.102	mg/L	1	0.100	90	102	79.4 - 119

Laboratory Control Spike (LCS-1)

QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | QC Preparation: 2010-02-12 | Prepared By: ER

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.104	mg/L	1	0.100	<0.000371	104	83.9 - 108

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	0.104	mg/L	1	0.100	<0.000400	104	83.5 - 109
Ethylbenzene	0.103	mg/L	1	0.100	<0.000430	103	80.9 - 114
Xylene	0.308	mg/L	1	0.300	<0.000379	103	79.5 - 116

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.103	mg/L	1	0.100	<0.000371	103	83.9 - 108	1	20
Toluene	0.103	mg/L	1	0.100	<0.000400	103	83.5 - 109	1	20
Ethylbenzene	0.103	mg/L	1	0.100	<0.000430	103	80.9 - 114	0	20
Xylene	0.306	mg/L	1	0.300	<0.000379	102	79.5 - 116	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.101	0.0918	mg/L	1	0.100	101	92	77.1 - 109
4-Bromofluorobenzene (4-BFB)	0.101	0.0924	mg/L	1	0.100	101	92	78.9 - 112

Matrix Spike (MS-1) Spiked Sample: 222012

QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT
Prep Batch: 57709 | QC Preparation: 2010-02-11 | Prepared By: MT

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.110	mg/L	1	0.100	0.0125	98	19.7 - 151
Toluene	0.0982	mg/L	1	0.100	0.0009	97	21.3 - 145
Ethylbenzene	0.0967	mg/L	1	0.100	0.0017	95	21.8 - 144
Xylene	0.303	mg/L	1	0.300	0.0079	98	21.5 - 147

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	[1]	0.0873	mg/L	1	0.100	0.0125	75	19.7 - 151	23	20
Toluene	[2]	0.0783	mg/L	1	0.100	0.0009	77	21.3 - 145	22	20
Ethylbenzene	[3]	0.0771	mg/L	1	0.100	0.0017	75	21.8 - 144	23	20
Xylene	[4]	0.244	mg/L	1	0.300	0.0079	79	21.5 - 147	22	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0971	0.0958	mg/L	1	0.1	97	96	75 - 120

continued ...

[1]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[2]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[3]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[4]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
4-Bromofluorobenzene (4-BFB)	0.104	0.101	mg/L	1	0.1	104	101	75.6 - 129

Matrix Spike (MS-1) Spiked Sample: 221991

QC Batch: 67496 | Date Analyzed: 2010-02-12 | Analyzed By: ER
Prep Batch: 57729 | QC Preparation: 2010-02-12 | Prepared By: ER

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.777	mg/L	5	0.500	0.272	101	15.5 - 142
Toluene	0.745	mg/L	5	0.500	0.227	104	20.2 - 138
Ethylbenzene	0.559	mg/L	5	0.500	0.0379	104	17.4 - 141
Xylene	1.99	mg/L	5	1.50	0.485	100	21.1 - 138

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.777	mg/L	5	0.500	0.272	101	15.5 - 142	0	20
Toluene	0.752	mg/L	5	0.500	0.227	105	20.2 - 138	1	20
Ethylbenzene	0.557	mg/L	5	0.500	0.0379	104	17.4 - 141	0	20
Xylene	2.00	mg/L	5	1.50	0.485	101	21.1 - 138	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.529	0.504	mg/L	5	0.5	106	101	74.2 - 116
4-Bromofluorobenzene (4-BFB)	0.491	0.470	mg/L	5	0.5	98	94	78.2 - 120

Standard (CCV-2)

QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0952	95	80 - 120	2010-02-11
Toluene		mg/L	0.100	0.0937	94	80 - 120	2010-02-11
Ethylbenzene		mg/L	0.100	0.0936	94	80 - 120	2010-02-11
Xylene		mg/L	0.300	0.289	96	80 - 120	2010-02-11

Standard (CCV-3)

QC Batch: 67465 | Date Analyzed: 2010-02-11 | Analyzed By: MT

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.104	104	80 - 120	2010-02-11
Toluene		mg/L	0.100	0.104	104	80 - 120	2010-02-11
Ethylbenzene		mg/L	0.100	0.105	105	80 - 120	2010-02-11
Xylene		mg/L	0.300	0.322	107	80 - 120	2010-02-11

Standard (CCV-2)

QC Batch: 67496 Date Analyzed: 2010-02-12 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.105	105	80 - 120	2010-02-12
Toluene		mg/L	0.100	0.106	106	80 - 120	2010-02-12
Ethylbenzene		mg/L	0.100	0.105	105	80 - 120	2010-02-12
Xylene		mg/L	0.300	0.312	104	80 - 120	2010-02-12

Standard (CCV-3)

QC Batch: 67496 Date Analyzed: 2010-02-12 Analyzed By: ER

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.100	100	80 - 120	2010-02-12
Toluene		mg/L	0.100	0.101	101	80 - 120	2010-02-12
Ethylbenzene		mg/L	0.100	0.0999	100	80 - 120	2010-02-12
Xylene		mg/L	0.300	0.298	99	80 - 120	2010-02-12

LAB Order ID # 10021111

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Premier Environmental Services
Phone #: (281) 240 5200
Address: (Street, City, Zip) 4800 Sugargrove Blvd. Stafford Tx 77477
Fax #: (281) 240 5201
Contact Person: Chan Patel
E-mail: cpatel@premiercorp-USA.com
Invoice to: (If different from above) Plains All American PL ENV Acct. Payable
Project #: 205068
Project Name: Vac to Jal #3 2003-00117
Project Location (including state): Lea Co. NM
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, SO4, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC	Turn Around Time if different from standard	Hold
222042	mw 2	3	40 ml	X				X				X		2-9	1235		X																		
043	mw 3														1255																					
044	mw 4	2													1245				one VOA recd broken. CF																	
045	mw 5	2													1310				one VOA recd broken. CF																	
046	mw 6														1300																					
047	mw 7	↓	↓	↓				↓				↓		↓	1305		↓																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Premier	2-10	1515		Trace	2/10/10	15:15	INST OBS 4.0 °C COR °C
	Trace	2/10/10	17:00					INST OBS °C COR °C
				Carol Fox	Trace LBK	2-11-10	11:55 AM	INST IR OBS 4.1 °C COR 4.5 °C

LAB USE ONLY CF 2-11-10
Intact (Y) N
Headspace Y (N) NA
Log-in-Review

REMARKS: Sample Dgre 2-9-10 mismarked on Containers
Please Send to Trace in Lubbock

- [x] Dry Weight Basis Required
- [ ] TRRP Report Required
- [ ] Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carrin (LS 25 2J572918)

ORIGINAL COPY

ALS Laboratory Group
ANALYTICAL CHEMISTRY & TESTING SERVICES

Environmental Division

16-Jun-2010

Chan Patel
Premier Environmental Services
4800 Sugar Grove Blvd.
Suite 390
Houston, TX 77477

Tel: (281) 240-5200
Fax: (281) 240-5201

Re: Vacuum to Jal#3 Work Order: **1005477**

Dear Chan,

ALS Laboratory Group received 14 samples on 17-May-2010 10:15 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Laboratory Group and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Laboratory Group. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 40.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Tiffany Van

JayLynn F Thibault
Project Manager

Certificate No: TX: T104704231-10-3

ALS Laboratory Group

Date: 16-Jun-10

Client: Premier Environmental Services
Project: Vacuum to Jal#3
Work Order: **1005477**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1005477-01	MW1	Water		5/12/2010 13:10	5/17/2010 10:15	☐
1005477-02	MW2	Water		5/12/2010 12:55	5/17/2010 10:15	☐
1005477-03	MW3	Water		5/12/2010 12:35	5/17/2010 10:15	☐
1005477-04	MW4	Water		5/12/2010 12:20	5/17/2010 10:15	☐
1005477-05	MW5	Water		5/12/2010 12:45	5/17/2010 10:15	☐
1005477-06	MW6	Water		5/12/2010 12:30	5/17/2010 10:15	☐
1005477-07	MW7	Water		5/12/2010 12:40	5/17/2010 10:15	☐
1005477-08	MW8	Water		5/12/2010 12:50	5/17/2010 10:15	☐
1005477-09	RW1	Water		5/12/2010 14:00	5/17/2010 10:15	☐
1005477-10	RW2	Water		5/12/2010 13:30	5/17/2010 10:15	☐
1005477-11	RW3	Water		5/12/2010 13:20	5/17/2010 10:15	☐
1005477-12	RW4	Water		5/12/2010 13:00	5/17/2010 10:15	☐
1005477-13	RW5	Water		5/12/2010 13:40	5/17/2010 10:15	☐
1005477-14	Trip Blank	Water		5/12/2010	5/17/2010 10:15	☐

ALS Laboratory Group

Date: 16-Jun-10

Client:	Premier Environmental Services
Project:	Vacuum to Jal#3
Work Order:	1005477

Case Narrative

Batch 43061, Low-Level PAHs, Sample 1005477-13C: Int stds chrysene-d12 and perylene-d12 have low area counts. Reanalysis confirms matrix interference

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW1 **Lab ID:** 1005477-01
Collection Date: 5/12/2010 01:10 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**31**		**0.47**	**mg/L**	1	5/19/2010 11:44 PM
>nC12 to nC28	**35**		**0.47**	**mg/L**	1	5/19/2010 11:44 PM
>nC28 to nC35	**6.4**		**0.47**	**mg/L**	1	5/19/2010 11:44 PM
Total Petroleum Hydrocarbon	**72.4**		**0.47**	**mg/L**	1	5/19/2010 11:44 PM
Surr: 2-Fluorobiphenyl	*129*		*70-130*	*%REC*	1	5/19/2010 11:44 PM
Surr: Trifluoromethyl benzene	*114*		*70-130*	*%REC*	1	5/19/2010 11:44 PM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**2.8**		**0.10**	**mg/L**	100	5/18/2010 08:44 PM
Toluene	**0.17**		**0.10**	**mg/L**	100	5/18/2010 08:44 PM
Ethylbenzene	**0.70**		**0.10**	**mg/L**	100	5/18/2010 08:44 PM
Xylenes, Total	**1.0**		**0.30**	**mg/L**	100	5/18/2010 08:44 PM
Surr: 4-Bromofluorobenzene	*98.4*		*77-129*	*%REC*	100	5/18/2010 08:44 PM
Surr: Trifluorotoluene	*96.9*		*75-130*	*%REC*	100	5/18/2010 08:44 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	**0.0012**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM
Acenaphthylene	**0.00056**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM
Anthracene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Chrysene	**0.00050**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Fluorene	**0.0021**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Naphthalene	**0.042**		**0.0010**	**mg/L**	5	5/25/2010 06:37 PM
Phenanthrene	**0.0040**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM
Pyrene	ND		0.00020	mg/L	1	5/22/2010 04:09 AM
Surr: 2-Fluorobiphenyl	*81.5*		*40-125*	*%REC*	5	5/25/2010 06:37 PM
Surr: 2-Fluorobiphenyl	*48.8*		*40-125*	*%REC*	1	5/22/2010 04:09 AM
Surr: 4-Terphenyl-d14	*76.5*		*40-135*	*%REC*	5	5/25/2010 06:37 PM
Surr: 4-Terphenyl-d14	*58.1*		*40-135*	*%REC*	1	5/22/2010 04:09 AM
Surr: Nitrobenzene-d5	*52.0*		*41-120*	*%REC*	1	5/22/2010 04:09 AM
Surr: Nitrobenzene-d5	*52.3*		*41-120*	*%REC*	5	5/25/2010 06:37 PM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW1 **Lab ID:** 1005477-01
Collection Date: 5/12/2010 01:10 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	**0.045**	n	**0.0020**	**mg/L**	10	6/15/2010 09:03 PM
2-Methylnaphthalene	**0.052**		**0.0020**	**mg/L**	10	6/15/2010 09:03 PM
Dibenzofuran	**0.0037**		**0.00020**	**mg/L**	1	5/22/2010 04:09 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW2 **Lab ID:** 1005477-02
Collection Date: 5/12/2010 12:55 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 02:39 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 02:39 AM
Ethylbenzene	**0.0041**		**0.0010**	**mg/L**	1	5/19/2010 02:39 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 02:39 AM
Surr: 4-Bromofluorobenzene	*97.6*		*77-129*	*%REC*	1	5/19/2010 02:39 AM
Surr: Trifluorotoluene	*96.1*		*75-130*	*%REC*	1	5/19/2010 02:39 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW3 **Lab ID:** 1005477-03
Collection Date: 5/12/2010 12:35 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.017**		**0.0010**	**mg/L**	1	5/19/2010 02:56 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 02:56 AM
Ethylbenzene	**0.027**		**0.0010**	**mg/L**	1	5/19/2010 02:56 AM
Xylenes, Total	**0.016**		**0.0030**	**mg/L**	1	5/19/2010 02:56 AM
Surr: 4-Bromofluorobenzene	*108*		*77-129*	*%REC*	1	5/19/2010 02:56 AM
Surr: Trifluorotoluene	*109*		*75-130*	*%REC*	1	5/19/2010 02:56 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW4 **Lab ID:** 1005477-04
Collection Date: 5/12/2010 12:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 03:12 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 03:12 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/19/2010 03:12 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 03:12 AM
Surr: 4-Bromofluorobenzene	*97.5*		*77-129*	*%REC*	1	5/19/2010 03:12 AM
Surr: Trifluorotoluene	*91.5*		*75-130*	*%REC*	1	5/19/2010 03:12 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW5 **Lab ID:** 1005477-05
Collection Date: 5/12/2010 12:45 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 03:29 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 03:29 AM
Ethylbenzene	**0.0018**		**0.0010**	**mg/L**	1	5/19/2010 03:29 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 03:29 AM
Surr: 4-Bromofluorobenzene	*97.0*		*77-129*	*%REC*	1	5/19/2010 03:29 AM
Surr: Trifluorotoluene	*102*		*75-130*	*%REC*	1	5/19/2010 03:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW6 **Lab ID:** 1005477-06
Collection Date: 5/12/2010 12:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 03:46 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 03:46 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/19/2010 03:46 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 03:46 AM
Surr: 4-Bromofluorobenzene	*96.2*		*77-129*	*%REC*	1	5/19/2010 03:46 AM
Surr: Trifluorotoluene	*100*		*75-130*	*%REC*	1	5/19/2010 03:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW7 **Lab ID:** 1005477-07
Collection Date: 5/12/2010 12:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 05:42 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 05:42 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/19/2010 05:42 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 05:42 AM
Surr: 4-Bromofluorobenzene	*97.4*		*77-129*	*%REC*	1	5/19/2010 05:42 AM
Surr: Trifluorotoluene	*93.7*		*75-130*	*%REC*	1	5/19/2010 05:42 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: MW8 **Lab ID:** 1005477-08
Collection Date: 5/12/2010 12:50 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	5/19/2010 05:58 AM
Toluene	ND		0.0010	mg/L	1	5/19/2010 05:58 AM
Ethylbenzene	ND		0.0010	mg/L	1	5/19/2010 05:58 AM
Xylenes, Total	ND		0.0030	mg/L	1	5/19/2010 05:58 AM
Surr: 4-Bromofluorobenzene	*96.8*		*77-129*	*%REC*	1	5/19/2010 05:58 AM
Surr: Trifluorotoluene	*97.3*		*75-130*	*%REC*	1	5/19/2010 05:58 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW1 **Lab ID:** 1005477-09
Collection Date: 5/12/2010 02:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**80**		**0.94**	**mg/L**	2	5/20/2010 01:41 PM
>nC12 to nC28	**120**		**0.94**	**mg/L**	2	5/20/2010 01:41 PM
>nC28 to nC35	**21**		**0.94**	**mg/L**	2	5/20/2010 01:41 PM
Total Petroleum Hydrocarbon	**221**		**0.94**	**mg/L**	2	5/20/2010 01:41 PM
Surr: 2-Fluorobiphenyl	*116*		*70-130*	*%REC*	2	5/20/2010 01:41 PM
Surr: Trifluoromethyl benzene	*113*		*70-130*	*%REC*	2	5/20/2010 01:41 PM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.78**		**0.10**	**mg/L**	100	5/18/2010 09:05 PM
Toluene	**0.78**		**0.10**	**mg/L**	100	5/18/2010 09:05 PM
Ethylbenzene	**0.53**		**0.10**	**mg/L**	100	5/18/2010 09:05 PM
Xylenes, Total	**1.1**		**0.30**	**mg/L**	100	5/18/2010 09:05 PM
Surr: 4-Bromofluorobenzene	*98.0*		*77-129*	*%REC*	100	5/18/2010 09:05 PM
Surr: Trifluorotoluene	*108*		*75-130*	*%REC*	100	5/18/2010 09:05 PM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Acenaphthylene	**0.00043**		**0.00020**	**mg/L**	1	5/22/2010 04:29 AM
Anthracene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Chrysene	**0.00049**		**0.00020**	**mg/L**	1	5/22/2010 04:29 AM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Fluorene	**0.0023**		**0.00020**	**mg/L**	1	5/22/2010 04:29 AM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Naphthalene	**0.024**		**0.0010**	**mg/L**	5	5/24/2010 11:05 PM
Phenanthrene	**0.0040**		**0.00020**	**mg/L**	1	5/22/2010 04:29 AM
Pyrene	ND		0.00020	mg/L	1	5/22/2010 04:29 AM
Surr: 2-Fluorobiphenyl	*78.5*		*40-125*	*%REC*	5	5/24/2010 11:05 PM
Surr: 2-Fluorobiphenyl	*44.2*		*40-125*	*%REC*	1	5/22/2010 04:29 AM
Surr: 4-Terphenyl-d14	*85.1*		*40-135*	*%REC*	5	5/24/2010 11:05 PM
Surr: 4-Terphenyl-d14	*61.6*		*40-135*	*%REC*	1	5/22/2010 04:29 AM
Surr: Nitrobenzene-d5	*83.4*		*41-120*	*%REC*	1	5/22/2010 04:29 AM
Surr: Nitrobenzene-d5	*104*		*41-120*	*%REC*	5	5/24/2010 11:05 PM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW1 **Lab ID:** 1005477-09
Collection Date: 5/12/2010 02:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	0.036	n	0.0010	mg/L	5	5/24/2010 11:05 PM
2-Methylnaphthalene	0.037		0.0010	mg/L	5	5/24/2010 11:05 PM
Dibenzofuran	0.0029		0.00020	mg/L	1	5/22/2010 04:29 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW2 **Lab ID:** 1005477-10
Collection Date: 5/12/2010 01:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**12**		**0.48**	**mg/L**	1	5/20/2010 03:20 AM
>nC12 to nC28	**15**		**0.48**	**mg/L**	1	5/20/2010 03:20 AM
>nC28 to nC35	**3.1**		**0.48**	**mg/L**	1	5/20/2010 03:20 AM
Total Petroleum Hydrocarbon	**30.1**		**0.48**	**mg/L**	1	5/20/2010 03:20 AM
Surr: 2-Fluorobiphenyl	*112*		*70-130*	*%REC*	1	5/20/2010 03:20 AM
Surr: Trifluoromethyl benzene	*101*		*70-130*	*%REC*	1	5/20/2010 03:20 AM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.37**		**0.050**	**mg/L**	50	5/19/2010 01:16 AM
Toluene	**0.26**		**0.050**	**mg/L**	50	5/19/2010 01:16 AM
Ethylbenzene	**0.30**		**0.050**	**mg/L**	50	5/19/2010 01:16 AM
Xylenes, Total	**0.55**		**0.15**	**mg/L**	50	5/19/2010 01:16 AM
Surr: 4-Bromofluorobenzene	*96.4*		*77-129*	*%REC*	50	5/19/2010 01:16 AM
Surr: Trifluorotoluene	*96.8*		*75-130*	*%REC*	50	5/19/2010 01:16 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	**0.0011**		**0.00020**	**mg/L**	1	5/22/2010 04:48 AM
Acenaphthylene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Anthracene	**0.00040**		**0.00020**	**mg/L**	1	5/22/2010 04:48 AM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Chrysene	**0.00049**		**0.00020**	**mg/L**	1	5/22/2010 04:48 AM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Fluoranthene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Fluorene	**0.0019**		**0.00020**	**mg/L**	1	5/22/2010 04:48 AM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Naphthalene	**0.038**		**0.0010**	**mg/L**	5	5/24/2010 11:26 PM
Phenanthrene	**0.0047**		**0.00020**	**mg/L**	1	5/22/2010 04:48 AM
Pyrene	ND		0.00020	mg/L	1	5/22/2010 04:48 AM
Surr: 2-Fluorobiphenyl	*82.0*		*40-125*	*%REC*	5	5/24/2010 11:26 PM
Surr: 2-Fluorobiphenyl	*44.9*		*40-125*	*%REC*	1	5/22/2010 04:48 AM
Surr: 4-Terphenyl-d14	*84.4*		*40-135*	*%REC*	5	5/24/2010 11:26 PM
Surr: 4-Terphenyl-d14	*62.3*		*40-135*	*%REC*	1	5/22/2010 04:48 AM
Surr: Nitrobenzene-d5	*97.8*		*41-120*	*%REC*	1	5/22/2010 04:48 AM
Surr: Nitrobenzene-d5	*99.1*		*41-120*	*%REC*	5	5/24/2010 11:26 PM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW2 **Lab ID:** 1005477-10
Collection Date: 5/12/2010 01:30 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	0.042	n	0.0020	mg/L	10	6/15/2010 09:24 PM
2-Methylnaphthalene	0.049		0.0020	mg/L	10	6/15/2010 09:24 PM
Dibenzofuran	0.0034		0.00020	mg/L	1	5/22/2010 04:48 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW3 **Lab ID:** 1005477-11
Collection Date: 5/12/2010 01:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**3.9**		**0.48**	**mg/L**	1	5/20/2010 03:51 AM
>nC12 to nC28	**3.1**		**0.48**	**mg/L**	1	5/20/2010 03:51 AM
>nC28 to nC35	ND		0.48	mg/L	1	5/20/2010 03:51 AM
Total Petroleum Hydrocarbon	**7.00**		**0.48**	**mg/L**	1	5/20/2010 03:51 AM
Surr: 2-Fluorobiphenyl	*113*		*70-130*	*%REC*	1	5/20/2010 03:51 AM
Surr: Trifluoromethyl benzene	*110*		*70-130*	*%REC*	1	5/20/2010 03:51 AM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.48**		**0.010**	**mg/L**	10	5/19/2010 11:13 AM
Toluene	**0.034**		**0.010**	**mg/L**	10	5/19/2010 11:13 AM
Ethylbenzene	**0.12**		**0.010**	**mg/L**	10	5/19/2010 11:13 AM
Xylenes, Total	**0.21**		**0.030**	**mg/L**	10	5/19/2010 11:13 AM
Surr: 4-Bromofluorobenzene	*97.5*		*77-129*	*%REC*	10	5/19/2010 11:13 AM
Surr: Trifluorotoluene	*112*		*75-130*	*%REC*	10	5/19/2010 11:13 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Acenaphthylene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Anthracene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Chrysene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Fluoranthene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Fluorene	**0.00089**		**0.00020**	**mg/L**	1	5/24/2010 11:46 PM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Naphthalene	**0.015**		**0.0010**	**mg/L**	5	5/25/2010 12:06 AM
Phenanthrene	**0.0011**		**0.00020**	**mg/L**	1	5/24/2010 11:46 PM
Pyrene	ND		0.00020	mg/L	1	5/24/2010 11:46 PM
Surr: 2-Fluorobiphenyl	*90.3*		*40-125*	*%REC*	5	5/25/2010 12:06 AM
Surr: 2-Fluorobiphenyl	*61.4*		*40-125*	*%REC*	1	5/24/2010 11:46 PM
Surr: 4-Terphenyl-d14	*89.3*		*40-135*	*%REC*	5	5/25/2010 12:06 AM
Surr: 4-Terphenyl-d14	*64.9*		*40-135*	*%REC*	1	5/24/2010 11:46 PM
Surr: Nitrobenzene-d5	*81.5*		*41-120*	*%REC*	1	5/24/2010 11:46 PM
Surr: Nitrobenzene-d5	*106*		*41-120*	*%REC*	5	5/25/2010 12:06 AM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW3 **Lab ID:** 1005477-11
Collection Date: 5/12/2010 01:20 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	0.018	n	0.0010	mg/L	5	5/25/2010 12:06 AM
2-Methylnaphthalene	0.017		0.0010	mg/L	5	5/25/2010 12:06 AM
Dibenzofuran	0.0015		0.00020	mg/L	1	5/24/2010 11:46 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3
Work Order: 1005477
Sample ID: RW4
Lab ID: 1005477-12
Collection Date: 5/12/2010 01:00 PM
Matrix: WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**40**		**0.48**	**mg/L**	1	5/20/2010 04:23 AM
>nC12 to nC28	**48**		**0.48**	**mg/L**	1	5/20/2010 04:23 AM
>nC28 to nC35	**7.8**		**0.48**	**mg/L**	1	5/20/2010 04:23 AM
Total Petroleum Hydrocarbon	**95.8**		**0.48**	**mg/L**	1	5/20/2010 04:23 AM
Surr: 2-Fluorobiphenyl	*129*		*70-130*	*%REC*	1	5/20/2010 04:23 AM
Surr: Trifluoromethyl benzene	*103*		*70-130*	*%REC*	1	5/20/2010 04:23 AM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.79**		**0.050**	**mg/L**	50	5/19/2010 01:33 AM
Toluene	**0.93**		**0.050**	**mg/L**	50	5/19/2010 01:33 AM
Ethylbenzene	**0.56**		**0.050**	**mg/L**	50	5/19/2010 01:33 AM
Xylenes, Total	**1.2**		**0.15**	**mg/L**	50	5/19/2010 01:33 AM
Surr: 4-Bromofluorobenzene	*96.4*		*77-129*	*%REC*	50	5/19/2010 01:33 AM
Surr: Trifluorotoluene	*102*		*75-130*	*%REC*	50	5/19/2010 01:33 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	**0.00040**		**0.00020**	**mg/L**	1	5/22/2010 05:28 AM
Acenaphthylene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Anthracene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Chrysene	**0.00044**		**0.00020**	**mg/L**	1	5/22/2010 05:28 AM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Fluoranthene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Fluorene	**0.0021**		**0.00020**	**mg/L**	1	5/22/2010 05:28 AM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Naphthalene	**0.043**		**0.0010**	**mg/L**	5	5/25/2010 12:26 AM
Phenanthrene	**0.0035**		**0.00020**	**mg/L**	1	5/22/2010 05:28 AM
Pyrene	ND		0.00020	mg/L	1	5/22/2010 05:28 AM
Surr: 2-Fluorobiphenyl	*77.1*		*40-125*	*%REC*	5	5/25/2010 12:26 AM
Surr: 2-Fluorobiphenyl	*51.2*		*40-125*	*%REC*	1	5/22/2010 05:28 AM
Surr: 4-Terphenyl-d14	*76.7*		*40-135*	*%REC*	5	5/25/2010 12:26 AM
Surr: 4-Terphenyl-d14	*61.5*		*40-135*	*%REC*	1	5/22/2010 05:28 AM
Surr: Nitrobenzene-d5	*81.3*		*41-120*	*%REC*	1	5/22/2010 05:28 AM
Surr: Nitrobenzene-d5	*107*		*41-120*	*%REC*	5	5/25/2010 12:26 AM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW4 **Lab ID:** 1005477-12
Collection Date: 5/12/2010 01:00 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
1-Methylnaphthalene	0.046	n	0.0010	mg/L	5	5/25/2010 12:26 AM
2-Methylnaphthalene	0.045		0.0010	mg/L	5	5/25/2010 12:26 AM
Dibenzofuran	0.0040		0.00020	mg/L	1	5/22/2010 05:28 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: *16-Jun-10*

Client: Premier Environmental Services
Project: Vacuum to Jal#3 **Work Order:** 1005477
Sample ID: RW5 **Lab ID:** 1005477-13
Collection Date: 5/12/2010 01:40 PM **Matrix:** WATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
LOW-LEVEL TEXAS TPH			**TX1005**		Prep Date: **5/17/2010**	Analyst: **KMB**
nC6 to nC12	**7.8**		**0.47**	**mg/L**	1	5/20/2010 04:54 AM
>nC12 to nC28	**3.8**		**0.47**	**mg/L**	1	5/20/2010 04:54 AM
>nC28 to nC35	ND		0.47	mg/L	1	5/20/2010 04:54 AM
Total Petroleum Hydrocarbon	**11.6**		**0.47**	**mg/L**	1	5/20/2010 04:54 AM
Surr: 2-Fluorobiphenyl	*123*		*70-130*	*%REC*	1	5/20/2010 04:54 AM
Surr: Trifluoromethyl benzene	*111*		*70-130*	*%REC*	1	5/20/2010 04:54 AM
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.85**		**0.050**	**mg/L**	50	5/19/2010 10:56 AM
Toluene	**0.34**		**0.050**	**mg/L**	50	5/19/2010 10:56 AM
Ethylbenzene	**0.22**		**0.050**	**mg/L**	50	5/19/2010 10:56 AM
Xylenes, Total	**0.35**		**0.15**	**mg/L**	50	5/19/2010 10:56 AM
Surr: 4-Bromofluorobenzene	*97.0*		*77-129*	*%REC*	50	5/19/2010 10:56 AM
Surr: Trifluorotoluene	*105*		*75-130*	*%REC*	50	5/19/2010 10:56 AM
LOW-LEVEL PAHS			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
Acenaphthene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Acenaphthylene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Anthracene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Benz(a)anthracene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Benzo(a)pyrene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Benzo(b)fluoranthene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Benzo(g,h,i)perylene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Benzo(k)fluoranthene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Chrysene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Dibenz(a,h)anthracene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Fluoranthene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Fluorene	**0.00074**		**0.00020**	**mg/L**	1	5/25/2010 12:46 AM
Indeno(1,2,3-cd)pyrene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Naphthalene	**0.0096**		**0.00020**	**mg/L**	1	5/25/2010 12:46 AM
Phenanthrene	**0.00086**		**0.00020**	**mg/L**	1	5/25/2010 12:46 AM
Pyrene	ND		0.00020	mg/L	1	5/25/2010 12:46 AM
Surr: 2-Fluorobiphenyl	*58.5*		*40-125*	*%REC*	1	5/25/2010 12:46 AM
Surr: 4-Terphenyl-d14	*60.3*		*40-135*	*%REC*	1	5/25/2010 12:46 AM
Surr: Nitrobenzene-d5	*60.1*		*41-120*	*%REC*	1	5/25/2010 12:46 AM
LOW-LEVEL SEMIVOLATILES			**SW8270**		Prep Date: **5/19/2010**	Analyst: **LG**
1-Methylnaphthalene	**0.0099**	n	**0.00020**	**mg/L**	1	5/25/2010 12:46 AM
2-Methylnaphthalene	**0.0099**		**0.00020**	**mg/L**	1	5/25/2010 12:46 AM
Dibenzofuran	**0.0014**		**0.00020**	**mg/L**	1	5/25/2010 12:46 AM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Laboratory Group

Date: 16-Jun-10

WorkOrder: 1005477
Test Code: 8270_LL_PAH_W
Test Number: SW8270
Test Name: Low-Level PAHs

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	Acenaphthene	83-32-9	0.00009	0.0002
A	Acenaphthylene	208-96-8	0.00007	0.0002
A	Anthracene	120-12-7	0.00007	0.0002
A	Benz(a)anthracene	56-55-3	0.00007	0.0002
A	Benzo(a)pyrene	50-32-8	0.00008	0.0002
A	Benzo(b)fluoranthene	205-99-2	0.00009	0.0002
A	Benzo(g,h,i)perylene	191-24-2	0.00009	0.0002
A	Benzo(k)fluoranthene	207-08-9	0.0001	0.0002
A	Chrysene	218-01-9	0.00007	0.0002
A	Dibenz(a,h)anthracene	53-70-3	0.00008	0.0002
A	Fluoranthene	206-44-0	0.00007	0.0002
A	Fluorene	86-73-7	0.00007	0.0002
A	Indeno(1,2,3-cd)pyrene	193-39-5	0.0001	0.0002
A	Naphthalene	91-20-3	0.0001	0.0002
A	Phenanthrene	85-01-8	0.00007	0.0002
A	Pyrene	129-00-0	0.00007	0.0002
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0.0002
S	Surr: 4-Terphenyl-d14	1718-51-0	0	0.0002
S	Surr: Nitrobenzene-d5	4165-60-0	0	0.0002

WorkOrder: 1005477
Test Code: 8270_LOW_W
Test Number: SW8270
Test Name: Low-Level Semivolatiles

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	1-Methylnaphthalene	90-12-0	0.00009	0.0002
A	2-Methylnaphthalene	91-57-6	0.00007	0.0002
A	Dibenzofuran	132-64-9	0.00008	0.0002

WorkOrder: 1005477
Test Code: BTEX_W
Test Number: SW8021B
Test Name: BTEX

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	Benzene	71-43-2	0.0002	0.001
A	Ethylbenzene	100-41-4	0.0002	0.001
A	Toluene	108-88-3	0.0002	0.001
M	Xylenes, Total	1330-20-7	0.0007	0.003
S	Surr: 4-Bromofluorobenzene	460-00-4	0.0002	0.001
S	Surr: Trifluorotoluene	98-08-8	0.0002	0.001

ALS Laboratory Group

Date: 16-Jun-10

WorkOrder: 1005477
Test Code: TX1005_W_Low
Test Number: TX1005
Test Name: Low-level Texas TPH

METHOD DETECTION / REPORTING LIMITS

Matrix: Aqueous **Units:** mg/L

Type	Analyte	CAS	MDL	PQL
A	>nC12 to nC28	TPHDRO	0.2	0.5
A	>nC28 to nC35	10W40MOTO	0.2	0.5
A	nC6 to nC12	TPHGRO	0.2	0.5
M	Total Petroleum Hydrocarbon	TPH	0.2	0.5
S	Surr: 2-Fluorobiphenyl	321-60-8	0	0
S	Surr: Trifluoromethyl benzene	98-08-8	0	0

ALS Laboratory Group

Date: 16-Jun-10

Client: Premier Environmental Services

Work Order: 1005477

Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43012** Instrument ID **FID-10** Method: **TX1005**

MBLK Sample ID: **FBLKW1-100517-43012** Units: **mg/L** Analysis Date: **5/19/2010 10:11 PM**

Client ID: Run ID: **FID-10_100517A** SeqNo: **1965022** Prep Date: **5/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	ND	0.50								
>nC12 to nC28	ND	0.50								
>nC28 to nC35	ND	0.50								
Total Petroleum Hydrocarbon	ND	0.50								
Surr: 2-Fluorobiphenyl	*3.198*	0	*2.5*	0	*128*	*70-130*	0			
Surr: Trifluoromethyl benzene	*3.22*	0	*2.5*	0	*129*	*70-130*	0			

LCS Sample ID: **FLCSW1-100517-43012** Units: **mg/L** Analysis Date: **5/19/2010 10:42 PM**

Client ID: Run ID: **FID-10_100517A** SeqNo: **1965023** Prep Date: **5/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	28.52	0.50	25	0	114	75-125	0			
>nC12 to nC28	29.83	0.50	25	0	119	75-125	0			
Surr: 2-Fluorobiphenyl	*3.182*	0	*2.5*	0	*127*	*70-130*	0			
Surr: Trifluoromethyl benzene	*2.922*	0	*2.5*	0	*117*	*70-130*	0			

LCSD Sample ID: **FLCSDW1-100517-43012** Units: **mg/L** Analysis Date: **5/19/2010 11:13 PM**

Client ID: Run ID: **FID-10_100517A** SeqNo: **1965024** Prep Date: **5/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	29.59	0.50	25	0	118	75-125	28.52	3.69	20	
>nC12 to nC28	30.95	0.50	25	0	124	75-125	29.83	3.68	20	
Surr: 2-Fluorobiphenyl	*3.073*	0	*2.5*	0	*123*	*70-130*	3.182	*3.48*	*20*	
Surr: Trifluoromethyl benzene	*3.081*	0	*2.5*	0	*123*	*70-130*	2.922	*5.3*	*20*	

MS Sample ID: **1005477-01BMS** Units: **mg/L** Analysis Date: **5/20/2010 12:14 AM**

Client ID: **MW1** Run ID: **FID-10_100517A** SeqNo: **1965026** Prep Date: **5/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	50.99	0.47	23.47	30.55	87	75-125	0			
>nC12 to nC28	63.3	0.47	23.47	35.36	119	75-125	0			
Surr: 2-Fluorobiphenyl	*2.845*	0	*2.347*	0	*121*	*70-130*	0			
Surr: Trifluoromethyl benzene	*2.311*	0	*2.347*	0	*98.4*	*70-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43012** Instrument ID **FID-10** Method: **TX1005**

MSD Sample ID: **1005477-01BMSD** Units: **mg/L** Analysis Date: **5/20/2010 12:45 AM**
Client ID: **MW1** Run ID: **FID-10_100517A** SeqNo: **1965027** Prep Date: **5/17/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
nC6 to nC12	52.67	0.47	23.34	30.55	94.8	75-125	50.99	3.24	20	
>nC12 to nC28	59.24	0.47	23.34	35.36	102	75-125	63.3	6.62	20	
Surr: 2-Fluorobiphenyl	*3.032*	0	*2.334*	0	*130*	*70-130*	2.845	*6.34*	*20*	
Surr: Trifluoromethyl benzene	*2.497*	0	*2.334*	0	*107*	*70-130*	2.311	*7.74*	*20*	

The following samples were analyzed in this batch:

1005477-01B	1005477-09B	1005477-10B
1005477-11B	1005477-12B	1005477-13B

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **R91206** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW1-051810-R91206** Units: **µg/L** Analysis Date: **5/18/2010 07:06 PM**
Client ID: Run ID: **BTEX1_100518A** SeqNo: **1964503** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*26.87*	1.0	*30*	0	*89.6*	*77-129*	0			
Surr: Trifluorotoluene	*26.28*	1.0	*30*	0	*87.6*	*75-130*	0			

MBLK Sample ID: **BBLKW1-051810-R91206** Units: **µg/L** Analysis Date: **5/18/2010 07:23 PM**
Client ID: Run ID: **BTEX1_100518A** SeqNo: **1964504** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*28.78*	1.0	*30*	0	*95.9*	*77-129*	0			
Surr: Trifluorotoluene	*25.7*	1.0	*30*	0	*85.7*	*75-130*	0			

LCS Sample ID: **BLCSW1-051810-R91206** Units: **µg/L** Analysis Date: **5/18/2010 06:39 PM**
Client ID: Run ID: **BTEX1_100518A** SeqNo: **1964502** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.19	1.0	20	0	101	77-126	0			
Toluene	18.73	1.0	20	0	93.6	80-124	0			
Ethylbenzene	18.94	1.0	20	0	94.7	76-125	0			
Xylenes, Total	55.48	3.0	60	0	92.5	79-124	0			
Surr: 4-Bromofluorobenzene	*27.45*	1.0	*30*	0	*91.5*	*77-129*	0			
Surr: Trifluorotoluene	*26.95*	1.0	*30*	0	*89.8*	*75-130*	0			

MS Sample ID: **1005532-01AMS** Units: **µg/L** Analysis Date: **5/18/2010 11:19 PM**
Client ID: Run ID: **BTEX1_100518A** SeqNo: **1964514** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.76	1.0	20	0.4682	116	77-126	0			
Toluene	21.98	1.0	20	0	110	80-124	0			
Ethylbenzene	22.01	1.0	20	0	110	76-125	0			
Xylenes, Total	64.8	3.0	60	0	108	79-124	0			
Surr: 4-Bromofluorobenzene	*29.63*	1.0	*30*	0	*98.8*	*77-129*	0			
Surr: Trifluorotoluene	*28.57*	1.0	*30*	0	*95.2*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **R91206** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1005532-01AMSD** Units: **µg/L** Analysis Date: **5/18/2010 11:36 PM**
Client ID: Run ID: **BTEX1_100518A** SeqNo: **1964515** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	23.81	1.0	20	0.4682	117	77-126	23.76	0.222	20	
Toluene	22.34	1.0	20	0	112	80-124	21.98	1.64	20	
Ethylbenzene	22.06	1.0	20	0	110	76-125	22.01	0.25	20	
Xylenes, Total	64.34	3.0	60	0	107	79-124	64.8	0.716	20	
Surr: 4-Bromofluorobenzene	*28.87*	1.0	*30*	0	*96.2*	*77-129*	29.63	*2.6*	*20*	
Surr: Trifluorotoluene	*28.15*	1.0	*30*	0	*93.8*	*75-130*	28.57	*1.47*	*20*	

The following samples were analyzed in this batch:

1005477-01A	1005477-02A	1005477-03A
1005477-04A	1005477-05A	1005477-06A
1005477-09A	1005477-10A	1005477-12A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **R91207** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW1-051910-R91207** Units: **µg/L** Analysis Date: **5/19/2010 04:52 AM**
Client ID: Run ID: **BTEX1_100518B** SeqNo: **1964535** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*28.33*	1.0	*30*	0	*94.4*	*77-129*	0			
Surr: Trifluorotoluene	*26.7*	1.0	*30*	0	*89*	*75-130*	0			

MBLK Sample ID: **BBLKW1-051910-R91207** Units: **µg/L** Analysis Date: **5/19/2010 05:09 AM**
Client ID: Run ID: **BTEX1_100518B** SeqNo: **1964536** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*28.95*	1.0	*30*	0	*96.5*	*77-129*	0			
Surr: Trifluorotoluene	*26.39*	1.0	*30*	0	*88*	*75-130*	0			

LCS Sample ID: **BLCSW1-051910-R91207** Units: **µg/L** Analysis Date: **5/19/2010 04:35 AM**
Client ID: Run ID: **BTEX1_100518B** SeqNo: **1964534** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	21.46	1.0	20	0	107	77-126	0			
Toluene	19.35	1.0	20	0	96.7	80-124	0			
Ethylbenzene	19.13	1.0	20	0	95.6	76-125	0			
Xylenes, Total	57.13	3.0	60	0	95.2	79-124	0			
Surr: 4-Bromofluorobenzene	*29.22*	1.0	*30*	0	*97.4*	*77-129*	0			
Surr: Trifluorotoluene	*29.27*	1.0	*30*	0	*97.6*	*75-130*	0			

MS Sample ID: **1005411-06AMS** Units: **µg/L** Analysis Date: **5/19/2010 12:08 PM**
Client ID: Run ID: **BTEX1_100518B** SeqNo: **1964568** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.6	1.0	20	0	103	77-126	0			
Toluene	19.48	1.0	20	0	97.4	80-124	0			
Ethylbenzene	18.38	1.0	20	0	91.9	76-125	0			
Xylenes, Total	55.08	3.0	60	0	91.8	79-124	0			
Surr: 4-Bromofluorobenzene	*28.74*	1.0	*30*	0	*95.8*	*77-129*	0			
Surr: Trifluorotoluene	*29.07*	1.0	*30*	0	*96.9*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **R91207** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1005411-06AMSD** Units: **µg/L** Analysis Date: **5/19/2010 12:29 PM**

Client ID: Run ID: **BTEX1_100518B** SeqNo: **1964569** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	19.5	1.0	20	0	97.5	77-126	20.6	5.5	20	
Toluene	17.49	1.0	20	0	87.5	80-124	19.48	10.8	20	
Ethylbenzene	17.55	1.0	20	0	87.8	76-125	18.38	4.59	20	
Xylenes, Total	53.05	3.0	60	0	88.4	79-124	55.08	3.75	20	
Surr: 4-Bromofluorobenzene	*29.5*	1.0	*30*	0	*98.3*	*77-129*	28.74	*2.61*	*20*	
Surr: Trifluorotoluene	*28.33*	1.0	*30*	0	*94.4*	*75-130*	29.07	*2.6*	*20*	

The following samples were analyzed in this batch: 1005477-07A 1005477-08A 1005477-11A 1005477-13A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43061** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 12:41 PM**

Client ID: Run ID: **SV-4_100521B** SeqNo: **1969782** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Chrysene	ND	0.20								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Naphthalene	ND	0.20								
Phenanthrene	ND	0.20								
Pyrene	ND	0.20								
Surr: 2-Fluorobiphenyl	*3.745*	0.20	*5*	0	*74.9*	*40-125*	0			
Surr: 4-Terphenyl-d14	*4.042*	0.20	*5*	0	*80.8*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.69*	0.20	*5*	0	*73.8*	*41-120*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43061** Instrument ID **SV-4** Method: **SW8270**

MBLK Sample ID: **SBLKW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 12:41 PM**

Client ID: Run ID: **SV-4_100521B** SeqNo: **1994756** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	ND	0.20								
2-Methylnaphthalene	ND	0.20								
Acenaphthene	ND	0.20								
Acenaphthylene	ND	0.20								
Anthracene	ND	0.20								
Benz(a)anthracene	ND	0.20								
Benzo(a)pyrene	ND	0.20								
Benzo(b)fluoranthene	ND	0.20								
Benzo(g,h,i)perylene	ND	0.20								
Benzo(k)fluoranthene	ND	0.20								
Chrysene	ND	0.20								
Dibenz(a,h)anthracene	ND	0.20								
Dibenzofuran	ND	0.20								
Fluoranthene	ND	0.20								
Fluorene	ND	0.20								
Indeno(1,2,3-cd)pyrene	ND	0.20								
Naphthalene	ND	0.20								
Phenanthrene	ND	0.20								
Pyrene	ND	0.20								
Surr: 2-Fluorobiphenyl	*ND*	0.20								
Surr: 4-Terphenyl-d14	*ND*	0.20								
Surr: Nitrobenzene-d5	*ND*	0.20								

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43061** Instrument ID **SV-4** Method: **SW8270**

LCS Sample ID: **SLCSW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 01:02 PM**
Client ID: Run ID: **SV-4_100521B** SeqNo: **1969783** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	3.876	0.20	5	0	77.5	45-120	0			
Acenaphthylene	4.126	0.20	5	0	82.5	47-120	0			
Anthracene	4.12	0.20	5	0	82.4	45-120	0			
Benz(a)anthracene	4.258	0.20	5	0	85.2	40-120	0			
Benzo(a)pyrene	4.246	0.20	5	0	84.9	45-120	0			
Benzo(b)fluoranthene	4.441	0.20	5	0	88.8	50-120	0			
Benzo(g,h,i)perylene	4.198	0.20	5	0	84	42-127	0			
Benzo(k)fluoranthene	4.083	0.20	5	0	81.7	45-127	0			
Chrysene	4.108	0.20	5	0	82.2	43-120	0			
Dibenz(a,h)anthracene	4.043	0.20	5	0	80.9	45-125	0			
Fluoranthene	4.39	0.20	5	0	87.8	45-125	0			
Fluorene	4.162	0.20	5	0	83.2	49-120	0			
Indeno(1,2,3-cd)pyrene	4.483	0.20	5	0	89.7	41-128	0			
Naphthalene	3.91	0.20	5	0	78.2	45-120	0			
Phenanthrene	4.067	0.20	5	0	81.3	45-121	0			
Pyrene	4.063	0.20	5	0	81.3	40-130	0			
Surr: 2-Fluorobiphenyl	*4.013*	0.20	*5*	0	*80.3*	*40-125*	0			
Surr: 4-Terphenyl-d14	*3.793*	0.20	*5*	0	*75.9*	*40-135*	0			
Surr: Nitrobenzene-d5	*3.807*	0.20	*5*	0	*76.1*	*41-120*	0			

LCS Sample ID: **SLCSW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 01:02 PM**
Client ID: Run ID: **SV-4_100521B** SeqNo: **1994757** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	3.975	0.20	5	0	79.5	45-120	0			
2-Methylnaphthalene	3.879	0.20	5	0	77.6	50-120	0			
Dibenzofuran	4.11	0.20	5	0	82.2	50-120	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1005477
Project: Vacuum to Jal#3

QC BATCH REPORT

Batch ID: **43061** Instrument ID **SV-4** Method: **SW8270**

LCSD Sample ID: **SLCSDW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 01:22 PM**
Client ID: Run ID: **SV-4_100521B** SeqNo: **1969784** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Acenaphthene	3.968	0.20	5	0	79.4	45-120	3.876	2.33	20	
Acenaphthylene	4.236	0.20	5	0	84.7	47-120	4.126	2.64	20	
Anthracene	4.37	0.20	5	0	87.4	45-120	4.12	5.89	20	
Benz(a)anthracene	4.391	0.20	5	0	87.8	40-120	4.258	3.06	20	
Benzo(a)pyrene	4.498	0.20	5	0	90	45-120	4.246	5.76	20	
Benzo(b)fluoranthene	4.441	0.20	5	0	88.8	50-120	4.441	0.00572	20	
Benzo(g,h,i)perylene	4.278	0.20	5	0	85.6	42-127	4.198	1.89	20	
Benzo(k)fluoranthene	3.953	0.20	5	0	79.1	45-127	4.083	3.22	20	
Chrysene	4.407	0.20	5	0	88.1	43-120	4.108	7.01	20	
Dibenz(a,h)anthracene	4.216	0.20	5	0	84.3	45-125	4.043	4.18	20	
Fluoranthene	4.519	0.20	5	0	90.4	45-125	4.39	2.88	20	
Fluorene	4.248	0.20	5	0	85	49-120	4.162	2.06	20	
Indeno(1,2,3-cd)pyrene	4.628	0.20	5	0	92.6	41-128	4.483	3.18	20	
Naphthalene	3.898	0.20	5	0	78	45-120	3.91	0.301	20	
Phenanthrene	4.239	0.20	5	0	84.8	45-121	4.067	4.14	20	
Pyrene	4.261	0.20	5	0	85.2	40-130	4.063	4.75	20	
Surr: 2-Fluorobiphenyl	*4.041*	0.20	*5*	0	*80.8*	*40-125*	4.013	*0.706*	*20*	
Surr: 4-Terphenyl-d14	*4.065*	0.20	*5*	0	*81.3*	*40-135*	3.793	*6.92*	*20*	
Surr: Nitrobenzene-d5	*3.838*	0.20	*5*	0	*76.8*	*41-120*	3.807	*0.82*	*20*	

LCSD Sample ID: **SLCSDW2-100519-43061** Units: **µg/L** Analysis Date: **5/21/2010 01:22 PM**
Client ID: Run ID: **SV-4_100521B** SeqNo: **1994758** Prep Date: **5/19/2010** DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
1-Methylnaphthalene	4.1	0.20	5	0	82	45-120	3.975	3.1	20	
2-Methylnaphthalene	3.91	0.20	5	0	78.2	50-120	3.879	0.792	20	
Dibenzofuran	4.155	0.20	5	0	83.1	50-120	4.11	1.1	20	

The following samples were analyzed in this batch:

1005477-01C	1005477-09C	1005477-10C
1005477-11C	1005477-12C	1005477-13C

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Laboratory Group

Date: 16-Jun-10

Client: Premier Environmental Services
Project: Vacuum to Jal#3
WorkOrder: 1005477

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitaion Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

☐ ALS Laboratory Group
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Houston, Texas 77099
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Fax. +1 281 530 5887

Chain of Custody Form

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: (KLS4)

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Vacuum to Jal#3	A	BTEX (8021)
Work Order		Project Number		B	TPH (TX1005)
Company Name	Premier Environmental Services	Bill To Company	Plains All America, LP	C	PAHs (8270) Regular
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	4000 Sugar Grove Blvd. Suite 420	Address	c/o ENV. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Stafford, TX 77477	City/State/Zip	Houston, TX 77002	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw 1	5-12	1310	Gw	HCl	8	X	X	X								
2	mw 2		1255			3											
3	mw 3		1235			3											
4	mw 4		1220			3											
5	mw 5		1245			3											
6	mw 6		1230			3											
7	mw 7		1240			3											
8	mw 8		1250			3											
9	RW 1		1400			8		X	X								
10	RW 2		1330			8		X	X								

Sampler(s) Please Print & Sign: SHANE DILLER

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) ☐ Other ☐ Std 10 WK Days ☑ 5 WK Days ☐ 2 WK Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
	5-13	1800	
Relinquished by:	Date:	Time:	Received by (Laboratory):
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 5 Work Days TAT.

Cooler ID	Cooler Temp

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other
- ☐ TRRP CheckList
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

☐ ALS Laboratory Group
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Chain of Custody Form

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1030?

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Vacuum to Jal#3	A	BTEX (8021)
Work Order		Project Number		B	TPH (TX1005)
Company Name	Premier Environmental Services	Bill To Company	Plains All America, LP	C	PAHs (8270) Regular
Send Report To	Kathleen Buxton	Invoice Attn		D	
Address	4800 Sugar Grove Blvd. Suite 420	Address	c/o ENV. Accounts Payable P.O. Box 4648	E F	
City/State/Zip	Stafford, TX 77477	City/State/Zip	Houston, TX 77002	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	RW 3	5-12	1320	GW	HCl	8	X	X	X								
2	RW 4	↓	1300	↓	↓	8	↓	↓	↓								
3	RW 5	↓	1340	↓	↓	8	↓	↓	↓								
4																	
5																	
6																	
7																	
8																	
9																	
10																	

Sampler(s) Please Print & Sign: SHANE A. DILLER

Shipment Method: FED EX

Required Turnaround Time: (Check Box) ☐ Std. 10 W/K Days ☑ 5 W/K Days ☐ 2 W/K Days ☐ Other ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
S.A. Diller	5-13	1800	
Relinquished by:	Date:	Time:	Received by (Laboratory): 5-17-10 1035
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 5 Work Days TAT.

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
☑ Level II Std QC
☐ Level III Std QC/Raw Data
☐ Level IV SW846/CLP
☐ Other
☐ TRRP Checklist
☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Laboratory Group

Sample Receipt Checklist

Client Name: **PREMIER ENV** Date/Time Received: **17-May-10 10:15**

Work Order: **1005477** Received by: **RSZ**

Checklist completed by Richard Sanchez (eSignature) 17-May-10 (Date) Reviewed by: (eSignature) (Date)

Matrices: water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 ☐	
Temperature(s)/Thermometer(s):	2.5c	002	
Cooler(s)/Kit(s):	179		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:			

Login Notes: Trip blank not on COC--logged in without analysis.

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

100547

1 This portion can be removed for Recipient's records.

FedEx Tracking Number 872096813959

der's ne SHANE DILLER Phone 432 230 3244

Company

ddress 30 W. Industrial Loop I

Dept/Floor/Suite/Room

MIDLAND State TX ZIP 79701

r Internal Billing Reference 209068 VECTOR TAC 3

ALS Environmental

31-Aug-2010

Chan Patel
Premier Environmental Services
4800 Sugar Grove Blvd.
Suite 390
Houston, TX 77477

Tel: (281) 240-5200
Fax: (281) 240-5201

Re: Vacuum to Jal #3 Work Order: **1008902**

Dear Chan,

ALS Environmental received 8 samples on 28-Aug-2010 09:20 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 17.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac
Certificate No: TX: T104704231-10-3

ALS Environmental

Date: 31-Aug-10

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: **1008902**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1008902-01	MW2	Water		8/26/2010 16:39	8/28/2010 09:20	☐
1008902-02	MW3	Water		8/26/2010 16:42	8/28/2010 09:20	☐
1008902-03	MW4	Water		8/26/2010 16:46	8/28/2010 09:20	☐
1008902-04	MW5	Water		8/26/2010 16:49	8/28/2010 09:20	☐
1008902-05	MW6	Water		8/26/2010 16:51	8/28/2010 09:20	☐
1008902-06	MW7	Water		8/26/2010 16:55	8/28/2010 09:20	☐
1008902-07	MW8	Water		8/26/2010 16:57	8/28/2010 09:20	☐
1008902-08	Trip Blank	Water		8/26/2010	8/28/2010 09:20	☐

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW2
Collection Date: 8/26/2010 04:39 PM

Work Order: 1008902
Lab ID: 1008902-01
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/30/2010 23:57
Toluene	ND		0.00020	0.0010	mg/L	1	8/30/2010 23:57
Ethylbenzene	**0.0033**		**0.00020**	**0.0010**	**mg/L**	1	8/30/2010 23:57
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/30/2010 23:57
Surr: 4-Bromofluorobenzene	*96.3*			*77-129*	*%REC*	1	8/30/2010 23:57
Surr: Trifluorotoluene	*94.3*			*75-130*	*%REC*	1	8/30/2010 23:57

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW3
Collection Date: 8/26/2010 04:42 PM

Work Order: 1008902
Lab ID: 1008902-02
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			Method: **SW8021B**				Analyst: **IGF**
Benzene	**0.0084**		**0.00020**	**0.0010**	**mg/L**	1	8/31/2010 00:16
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:16
Ethylbenzene	**0.036**		**0.00020**	**0.0010**	**mg/L**	1	8/31/2010 00:16
Xylenes, Total	**0.025**		**0.00070**	**0.0030**	**mg/L**	1	8/31/2010 00:16
Surr: 4-Bromofluorobenzene	*94.6*			*77-129*	*%REC*	1	8/31/2010 00:16
Surr: Trifluorotoluene	*96.2*			*75-130*	*%REC*	1	8/31/2010 00:16

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW4
Collection Date: 8/26/2010 04:46 PM

Work Order: 1008902
Lab ID: 1008902-03
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:35
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:35
Ethylbenzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:35
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/31/2010 00:35
Surr: 4-Bromofluorobenzene	*92.4*			*77-129*	*%REC*	1	8/31/2010 00:35
Surr: Trifluorotoluene	*93.5*			*75-130*	*%REC*	1	8/31/2010 00:35

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW5
Collection Date: 8/26/2010 04:49 PM

Work Order: 1008902
Lab ID: 1008902-04
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:54
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:54
Ethylbenzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 00:54
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/31/2010 00:54
Surr: 4-Bromofluorobenzene	*92.5*			*77-129*	*%REC*	1	8/31/2010 00:54
Surr: Trifluorotoluene	*94.4*			*75-130*	*%REC*	1	8/31/2010 00:54

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW6
Collection Date: 8/26/2010 04:51 PM

Work Order: 1008902
Lab ID: 1008902-05
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 01:13
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 01:13
Ethylbenzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 01:13
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/31/2010 01:13
Surr: 4-Bromofluorobenzene	*91.5*			*77-129*	*%REC*	1	8/31/2010 01:13
Surr: Trifluorotoluene	*93.6*			*75-130*	*%REC*	1	8/31/2010 01:13

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW7
Collection Date: 8/26/2010 04:55 PM

Work Order: 1008902
Lab ID: 1008902-06
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 11:48
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 11:48
Ethylbenzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 11:48
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/31/2010 11:48
Surr: 4-Bromofluorobenzene	*92.2*			*77-129*	*%REC*	1	8/31/2010 11:48
Surr: Trifluorotoluene	*95.2*			*75-130*	*%REC*	1	8/31/2010 11:48

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *31-Aug-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Sample ID: MW8
Collection Date: 8/26/2010 04:57 PM

Work Order: 1008902
Lab ID: 1008902-07
Matrix: WATER

Analyses	Result	Qual	MDL	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX		Method: **SW8021B**					Analyst: **IGF**
Benzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 02:29
Toluene	ND		0.00020	0.0010	mg/L	1	8/31/2010 02:29
Ethylbenzene	ND		0.00020	0.0010	mg/L	1	8/31/2010 02:29
Xylenes, Total	ND		0.00070	0.0030	mg/L	1	8/31/2010 02:29
Surr: 4-Bromofluorobenzene	*93.2*			*77-129*	*%REC*	1	8/31/2010 02:29
Surr: Trifluorotoluene	*93.5*			*75-130*	*%REC*	1	8/31/2010 02:29

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 31-Aug-10

Client: Premier Environmental Services

Work Order: 1008902

Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R96438** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW2-083010-R96438** Units: **µg/L** Analysis Date: **8/30/2010 07:51 PM**

Client ID: Run ID: **BTEX1_100830B** SeqNo: **2077149** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*28.25*	1.0	*30*	0	*94.2*	*77-129*	0			
Surr: Trifluorotoluene	*30.44*	1.0	*30*	0	*101*	*75-130*	0			

MBLK Sample ID: **BBLKW2-083010-R96438** Units: **µg/L** Analysis Date: **8/30/2010 08:10 PM**

Client ID: Run ID: **BTEX1_100830B** SeqNo: **2077150** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*27.28*	1.0	*30*	0	*90.9*	*77-129*	0			
Surr: Trifluorotoluene	*28.7*	1.0	*30*	0	*95.7*	*75-130*	0			

LCS Sample ID: **BLCSW2-083010-R96438** Units: **µg/L** Analysis Date: **8/30/2010 07:32 PM**

Client ID: Run ID: **BTEX1_100830B** SeqNo: **2077148** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	16.49	1.0	20	0	82.5	77-126	0			
Toluene	17.5	1.0	20	0	87.5	80-124	0			
Ethylbenzene	17.54	1.0	20	0	87.7	76-125	0			
Xylenes, Total	53.43	3.0	60	0	89	79-124	0			
Surr: 4-Bromofluorobenzene	*28.42*	1.0	*30*	0	*94.7*	*77-129*	0			
Surr: Trifluorotoluene	*28.52*	1.0	*30*	0	*95.1*	*75-130*	0			

MS Sample ID: **1008821-01AMS** Units: **µg/L** Analysis Date: **8/30/2010 09:44 PM**

Client ID: Run ID: **BTEX1_100830B** SeqNo: **2077155** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.6	1.0	20	0	93	77-126	0			
Toluene	19.13	1.0	20	0	95.6	80-124	0			
Ethylbenzene	19.62	1.0	20	0	98.1	76-125	0			
Xylenes, Total	53.37	3.0	60	0	88.9	79-124	0			
Surr: 4-Bromofluorobenzene	*28.9*	1.0	*30*	0	*96.3*	*77-129*	0			
Surr: Trifluorotoluene	*29.3*	1.0	*30*	0	*97.7*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1008902
Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R96438** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1008821-01AMSD** Units: **µg/L** Analysis Date: **8/30/2010 10:03 PM**
Client ID: Run ID: **BTEX1_100830B** SeqNo: **2077156** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.74	1.0	20	0	93.7	77-126	18.6	0.779	20	
Toluene	19.33	1.0	20	0	96.6	80-124	19.13	1.03	20	
Ethylbenzene	19.98	1.0	20	0	99.9	76-125	19.62	1.83	20	
Xylenes, Total	53.73	3.0	60	0	89.6	79-124	53.37	0.684	20	
Surr: 4-Bromofluorobenzene	*29.28*	1.0	*30*	0	*97.6*	*77-129*	28.9	*1.31*	*20*	
Surr: Trifluorotoluene	*29.31*	1.0	*30*	0	*97.7*	*75-130*	29.3	*0.0595*	*20*	

The following samples were analyzed in this batch: 1008902-01A 1008902-02A 1008902-03A 1008902-04A 1008902-05A 1008902-07A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1008902
Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R96454** Instrument ID **BTEX1** Method: **SW8021B**

MBLK Sample ID: **MEOHW1-083110-R96454** Units: **µg/L** Analysis Date: **8/31/2010 10:51 AM**
Client ID: Run ID: **BTEX1_100831A** SeqNo: **2077391** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*29.1*	1.0	*30*	0	*97*	*77-129*	0			
Surr: Trifluorotoluene	*30.94*	1.0	*30*	0	*103*	*75-130*	0			

MBLK Sample ID: **BBLKW1-083110-R96454** Units: **µg/L** Analysis Date: **8/31/2010 11:10 AM**
Client ID: Run ID: **BTEX1_100831A** SeqNo: **2077392** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*29.28*	1.0	*30*	0	*97.6*	*77-129*	0			
Surr: Trifluorotoluene	*29.86*	1.0	*30*	0	*99.5*	*75-130*	0			

LCS Sample ID: **BLCSW1-083110-R96454** Units: **µg/L** Analysis Date: **8/31/2010 11:29 AM**
Client ID: Run ID: **BTEX1_100831A** SeqNo: **2077394** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	17.39	1.0	20	0	86.9	77-126	0			
Toluene	18.25	1.0	20	0	91.2	80-124	0			
Ethylbenzene	18.45	1.0	20	0	92.2	76-125	0			
Xylenes, Total	56.45	3.0	60	0	94.1	79-124	0			
Surr: 4-Bromofluorobenzene	*29.45*	1.0	*30*	0	*98.2*	*77-129*	0			
Surr: Trifluorotoluene	*29.42*	1.0	*30*	0	*98.1*	*75-130*	0			

MS Sample ID: **1008902-06AMS** Units: **µg/L** Analysis Date: **8/31/2010 12:07 PM**
Client ID: **MW7** Run ID: **BTEX1_100831A** SeqNo: **2077396** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.72	1.0	20	0	93.6	77-126	0			
Toluene	19.61	1.0	20	0	98.1	80-124	0			
Ethylbenzene	19.95	1.0	20	0	99.7	76-125	0			
Xylenes, Total	60.99	3.0	60	0	102	79-124	0			
Surr: 4-Bromofluorobenzene	*28.86*	1.0	*30*	0	*96.2*	*77-129*	0			
Surr: Trifluorotoluene	*28.77*	1.0	*30*	0	*95.9*	*75-130*	0			

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1008902
Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R96454** Instrument ID **BTEX1** Method: **SW8021B**

MSD Sample ID: **1008902-06AMSD** Units: **µg/L** Analysis Date: **8/31/2010 12:26 PM**

Client ID: **MW7** Run ID: **BTEX1_100831A** SeqNo: **2077397** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	18.76	1.0	20	0	93.8	77-126	18.72	0.212	20	
Toluene	19.67	1.0	20	0	98.4	80-124	19.61	0.314	20	
Ethylbenzene	20.01	1.0	20	0	100	76-125	19.95	0.283	20	
Xylenes, Total	61.14	3.0	60	0	102	79-124	60.99	0.25	20	
Surr: 4-Bromofluorobenzene	*29.08*	1.0	*30*	0	*96.9*	*77-129*	28.86	*0.742*	*20*	
Surr: Trifluorotoluene	*28.98*	1.0	*30*	0	*96.6*	*75-130*	28.77	*0.735*	*20*	

The following samples were analyzed in this batch: 1008902-06A

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Project: Vacuum to Jal #3
WorkOrder: 1008902

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1058902

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Vacuum to Jal #3	A	BTEX (8021)
Work Order		Project Number		B	TPH (TX 1005)
Company Name	Premier Environmental Services	Bill To Company	Plains All American, LP	C	PAH (8270) Regular
Send Report To	~~Kathleen Dillon~~ Chris Pace 1	Invoice Attn		D	
Address	4000 Sugar Grove Blvd, Suite 420	Address	c/o ENV. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Stafford, TX 77477	City/State/Zip	Houston, TX 77002	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	mw 2	8-26	1639	W	HCl	3	X										
2	mw 3		1642														
3	mw 4		1646														
4	mw 5		1649														
5	mw 6		1651														
6	mw 7		1655														
7	mw 8	8-26	1657	W	~~HCl~~ HRD	~~3~~ HRD	X										
8																	
9																	
10																	

Sampler(s) Please Print & Sign: SHANE A. DIXLER

Shipment Method: FEDEX

Required Turnaround Time: (Check Box) Std. 10 WK DAYS | 5 DAY | 3 DAY | 2 DAY | 1 DAY

Results Due Date:

Relinquished by: S.A. Dixler	Date: 8-27	Time: 1630	Received by:	Notes: 5 Day TAT	
Relinquished by: K-W	Date: 8-28-10	Time: 0920	Received by (Laboratory): ACS	Cooler ID	Cooler Temp.
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):		

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV Std QC/Raw Data/CLP
- ☐ Other / EDD
- ☐ TRRP (Check Lvl)
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

ALS Environmental

Sample Receipt Checklist

Client Name: **PREMIER ENV** Date/Time Received: **28-Aug-10 09:20**

Work Order: **1008902** Received by: **LOT**

Checklist completed by RaymoN Garlan (eSignature) 30-Aug-10 (Date) Reviewed by: (eSignature) (Date)

Matrices: Water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 ☐	
Temperature(s)/Thermometer(s):	2.1c	002	
Cooler(s)/Kit(s):	3402		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	N/A ☑
pH adjusted?	Yes ☐	No ☐	N/A ☑
pH adjusted by:			

Login Notes: Trip blank not on COC--logged in without analysis.

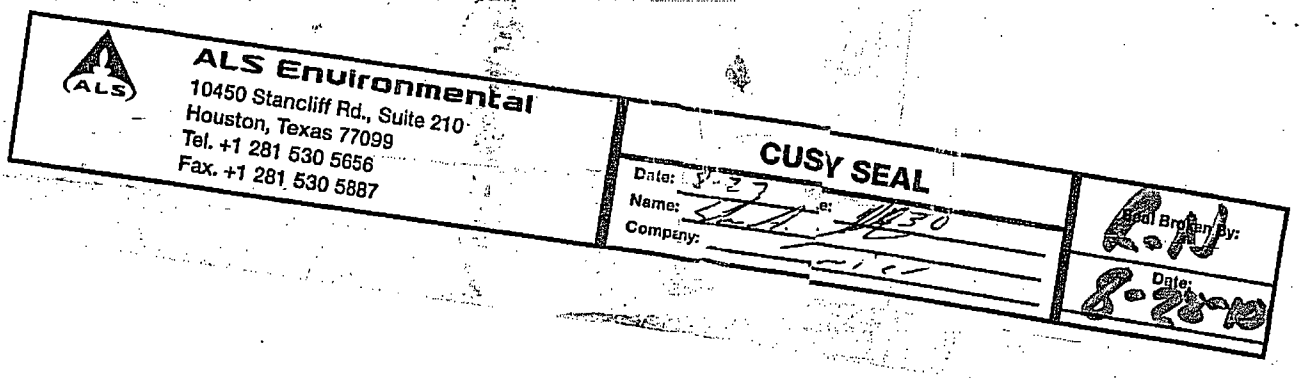
Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

W.O.# 1608902



ALS Environmental
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSY SEAL
Date: 8-27
Name: [illegible]
Company: [illegible]
Seal Broken By:
Date: 8-28-10

m This portion can be removed for Recipient's records.

to 8-27-10 FedEx Tracking Number 2 8731635876 62

der's me SHANE DILLER Phone 432 230-3544

Company Permian

Address 30 W. Industrial Loop E

Dept./Floor/Suite/Room

MIDLAND State TX ZIP 79701

ur Internal Billing Reference 205048 = IWTS 205071 = IWSH
205069 = IWTS 207032 = IH.4

ALS Environmental

29-Nov-2010

Chan Patel
Premier Environmental Services
4800 Sugar Grove Blvd.
Suite 390
Houston, TX 77477

Tel: (281) 240-5200
Fax: (770) 973-7395

Re: Vacuum to Jal #3 Work Order: **1011750**

Dear Chan,

ALS Environmental received 8 samples on 19-Nov-2010 09:10 AM for the analyses presented in the following report.

The analytical data provided relates directly to the samples received by ALS Environmental and for only the analyses requested. Results are expressed as "as received" unless otherwise noted.

QC sample results for this data met EPA or laboratory specifications except as noted in the Case Narrative or as noted with qualifiers in the QC batch information. Should this laboratory report need to be reproduced, it should be reproduced in full unless written approval has been obtained by ALS Environmental. Samples will be disposed in 30 days unless storage arrangements are made.

The total number of pages in this report is 15.

If you have any questions regarding this report, please feel free to call me.

Sincerely,

JayLynn F Thibault

Electronically approved by: Glenda H. Ramos

JayLynn F Thibault
Project Manager

ACCREDITED IN ACCORDANCE WITH nelac
Certificate No: TX: T104704231-10-3

ALS Environmental

Date: 29-Nov-10

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: **1011750**

Work Order Sample Summary

Lab Samp ID	Client Sample ID	Matrix	Tag Number	Collection Date	Date Received	Hold
1011750-01	MW2	Groundwater		11/18/2010 13:20	11/19/2010 09:10	☐
1011750-02	MW3	Groundwater		11/18/2010 13:25	11/19/2010 09:10	☐
1011750-03	MW4	Groundwater		11/18/2010 13:30	11/19/2010 09:10	☐
1011750-04	MW5	Groundwater		11/18/2010 13:35	11/19/2010 09:10	☐
1011750-05	MW6	Groundwater		11/18/2010 13:45	11/19/2010 09:10	☐
1011750-06	MW7	Groundwater		11/18/2010 13:50	11/19/2010 09:10	☐
1011750-07	MW8	Groundwater		11/18/2010 13:55	11/19/2010 09:10	☐
1011750-08	Trip Blank	Water		11/19/2010	11/19/2010 09:10	☐

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3 **Work Order:** 1011750
Sample ID: MW2 **Lab ID:** 1011750-01
Collection Date: 11/18/2010 01:20 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 05:35 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 05:35 PM
Ethylbenzene	**0.0036**		**0.0010**	**mg/L**	1	11/25/2010 05:35 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 05:35 PM
Surr: 4-Bromofluorobenzene	*91.6*		*77-129*	*%REC*	1	11/25/2010 05:35 PM
Surr: Trifluorotoluene	*92.6*		*75-130*	*%REC*	1	11/25/2010 05:35 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: 1011750
Sample ID: MW3
Lab ID: 1011750-02
Collection Date: 11/18/2010 01:25 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	**0.0030**		**0.0010**	**mg/L**	1	11/25/2010 05:55 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 05:55 PM
Ethylbenzene	**0.0046**		**0.0010**	**mg/L**	1	11/25/2010 05:55 PM
Xylenes, Total	**0.0034**		**0.0030**	**mg/L**	1	11/25/2010 05:55 PM
Surr: 4-Bromofluorobenzene	*92.0*		*77-129*	*%REC*	1	11/25/2010 05:55 PM
Surr: Trifluorotoluene	*91.4*		*75-130*	*%REC*	1	11/25/2010 05:55 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: 1011750
Sample ID: MW4
Lab ID: 1011750-03
Collection Date: 11/18/2010 01:30 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 06:14 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 06:14 PM
Ethylbenzene	ND		0.0010	mg/L	1	11/25/2010 06:14 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 06:14 PM
Surr: 4-Bromofluorobenzene	*88.0*		*77-129*	*%REC*	1	11/25/2010 06:14 PM
Surr: Trifluorotoluene	*91.4*		*75-130*	*%REC*	1	11/25/2010 06:14 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: 1011750
Sample ID: MW5
Lab ID: 1011750-04
Collection Date: 11/18/2010 01:35 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 06:34 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 06:34 PM
Ethylbenzene	ND		0.0010	mg/L	1	11/25/2010 06:34 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 06:34 PM
Surr: 4-Bromofluorobenzene	*87.0*		*77-129*	*%REC*	1	11/25/2010 06:34 PM
Surr: Trifluorotoluene	*91.1*		*75-130*	*%REC*	1	11/25/2010 06:34 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3 **Work Order:** 1011750
Sample ID: MW6 **Lab ID:** 1011750-05
Collection Date: 11/18/2010 01:45 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 06:53 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 06:53 PM
Ethylbenzene	ND		0.0010	mg/L	1	11/25/2010 06:53 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 06:53 PM
Surr: 4-Bromofluorobenzene	*86.3*		*77-129*	*%REC*	1	11/25/2010 06:53 PM
Surr: Trifluorotoluene	*91.0*		*75-130*	*%REC*	1	11/25/2010 06:53 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3 **Work Order:** 1011750
Sample ID: MW7 **Lab ID:** 1011750-06
Collection Date: 11/18/2010 01:50 PM **Matrix:** GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 07:13 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 07:13 PM
Ethylbenzene	ND		0.0010	mg/L	1	11/25/2010 07:13 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 07:13 PM
Surr: 4-Bromofluorobenzene	*86.3*		*77-129*	*%REC*	1	11/25/2010 07:13 PM
Surr: Trifluorotoluene	*91.6*		*75-130*	*%REC*	1	11/25/2010 07:13 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: *29-Nov-10*

Client: Premier Environmental Services
Project: Vacuum to Jal #3
Work Order: 1011750
Sample ID: MW8
Lab ID: 1011750-07
Collection Date: 11/18/2010 01:55 PM
Matrix: GROUNDWATER

Analyses	Result	Qual	Report Limit	Units	Dilution Factor	Date Analyzed
BTEX			**SW8021B**			Analyst: **KKP**
Benzene	ND		0.0010	mg/L	1	11/25/2010 07:32 PM
Toluene	ND		0.0010	mg/L	1	11/25/2010 07:32 PM
Ethylbenzene	ND		0.0010	mg/L	1	11/25/2010 07:32 PM
Xylenes, Total	ND		0.0030	mg/L	1	11/25/2010 07:32 PM
Surr: 4-Bromofluorobenzene	*85.7*		*77-129*	*%REC*	1	11/25/2010 07:32 PM
Surr: Trifluorotoluene	*91.1*		*75-130*	*%REC*	1	11/25/2010 07:32 PM

Note: See Qualifiers Page for a list of qualifiers and their explanation.

ALS Environmental

Date: 29-Nov-10

Client: Premier Environmental Services

Work Order: 1011750

Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R101583** Instrument ID **BTEX3** Method: **SW8021B**

MBLK Sample ID: **BBLKW-112510-R101583** Units: **µg/L** Analysis Date: **11/25/2010 02:00 PM**

Client ID: Run ID: **BTEX3_101125A** SeqNo: **2189118** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	ND	1.0								
Toluene	ND	1.0								
Ethylbenzene	ND	1.0								
Xylenes, Total	ND	3.0								
Surr: 4-Bromofluorobenzene	*26.52*	1.0	*30*	0	*88.4*	*77-129*	0			
Surr: Trifluorotoluene	*27.39*	1.0	*30*	0	*91.3*	*75-130*	0			

LCS Sample ID: **BLCSW-112510-R101583** Units: **µg/L** Analysis Date: **11/25/2010 01:01 PM**

Client ID: Run ID: **BTEX3_101125A** SeqNo: **2189115** Prep Date: DF: **1**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	20.79	1.0	20	0	104	77-126	0			
Toluene	20.64	1.0	20	0	103	80-124	0			
Ethylbenzene	19.77	1.0	20	0	98.9	76-125	0			
Xylenes, Total	59.67	3.0	60	0	99.5	79-124	0			
Surr: 4-Bromofluorobenzene	*26.45*	1.0	*30*	0	*88.2*	*77-129*	0			
Surr: Trifluorotoluene	*27.61*	1.0	*30*	0	*92*	*75-130*	0			

MS Sample ID: **1011638-02AMS** Units: **µg/L** Analysis Date: **11/25/2010 03:57 PM**

Client ID: Run ID: **BTEX3_101125A** SeqNo: **2189127** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	202.1	5.0	100	98.02	104	77-126	0			
Toluene	111.5	5.0	100	11.31	100	80-124	0			
Ethylbenzene	97.47	5.0	100	2.035	95.4	76-125	0			
Xylenes, Total	301.9	15	300	12.02	96.6	79-124	0			
Surr: 4-Bromofluorobenzene	*139.8*	5.0	*150*	0	*93.2*	*77-129*	0			
Surr: Trifluorotoluene	*144*	5.0	*150*	0	*96*	*75-130*	0			

MSD Sample ID: **1011638-02AMSD** Units: **µg/L** Analysis Date: **11/25/2010 04:17 PM**

Client ID: Run ID: **BTEX3_101125A** SeqNo: **2189129** Prep Date: DF: **5**

Analyte	Result	PQL	SPK Val	SPK Ref Value	%REC	Control Limit	RPD Ref Value	%RPD	RPD Limit	Qual
Benzene	205.1	5.0	100	98.02	107	77-126	202.1	1.51	20	
Toluene	114.2	5.0	100	11.31	103	80-124	111.5	2.37	20	
Ethylbenzene	98.92	5.0	100	2.035	96.9	76-125	97.47	1.47	20	
Xylenes, Total	306.2	15	300	12.02	98.1	79-124	301.9	1.43	20	
Surr: 4-Bromofluorobenzene	*139.8*	5.0	*150*	0	*93.2*	*77-129*	139.8	*0.0125*	*20*	
Surr: Trifluorotoluene	*142*	5.0	*150*	0	*94.7*	*75-130*	144	*1.38*	*20*	

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

Client: Premier Environmental Services
Work Order: 1011750
Project: Vacuum to Jal #3

QC BATCH REPORT

Batch ID: **R101583** Instrument ID **BTEX3** Method: **SW8021B**

The following samples were analyzed in this batch:

1011750-01A	1011750-02A	1011750-03A
1011750-04A	1011750-05A	1011750-06A
1011750-07A		

Note: See Qualifiers Page for a list of Qualifiers and their explanation.

ALS Environmental

Date: 29-Nov-10

Client: Premier Environmental Services
Project: Vacuum to Jal #3
WorkOrder: 1011750

QUALIFIERS, ACRONYMS, UNITS

Qualifier	Description
*	Value exceeds Regulatory Limit
a	Not accredited
B	Analyte detected in the associated Method Blank above the Reporting Limit
E	Value above quantitation range
H	Analyzed outside of Holding Time
J	Analyte detected below quantitation limit
M	Manually integrated, see raw data for justification
n	Not offered for accreditation
ND	Not Detected at the Reporting Limit
O	Sample amount is > 4 times amount spiked
P	Dual Column results percent difference > 40%
R	RPD above laboratory control limit
S	Spike Recovery outside laboratory control limits
U	Analyzed but not detected above the MDL

Acronym	Description
DCS	Detectability Check Study
DUP	Method Duplicate
LCS	Laboratory Control Sample
LCSD	Laboratory Control Sample Duplicate
MBLK	Method Blank
MDL	Method Detection Limit
MQL	Method Quantitation Limit
MS	Matrix Spike
MSD	Matrix Spike Duplicate
PDS	Post Digestion Spike
PQL	Practical Quantitation Limit
SD	Serial Dilution
SDL	Sample Detection Limit
TRRP	Texas Risk Reduction Program

Units Reported	Description
mg/L	Milligrams per Liter

☐ ALS Laboratory Group
10450 Stancliff Rd., Suite 210
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

Chain of Custody Form

Page 1 of 1

☐ ALS Laboratory Group
3352 128th Ave.
Holland, MI 49424-9263
Tel: +1 616 399 6070
Fax: +1 616 399 6185

ALS Project Manager: | ALS Work Order #: 1011750

Customer Information		Project Information		Parameter/Method Request for Analysis	
Purchase Order		Project Name	Vacuum to Jal #3	A	BTEX (8021)
Work Order		Project Number		B	~~TPH (TX 1005)~~
Company Name	Premier Environmental Services	Bill To Company	Plains All America, LP	C	~~PAHs (8270) Regular~~
Send Report To	~~Kathleen Bruton~~ Chan Foley	Invoice Attn		D	
Address	4800 Sugar Grove Blvd. Suite 390	Address	c/o ENV. Accounts Payable P.O. Box 4648	E	
				F	
City/State/Zip	Houston, TX 77477	City/State/Zip	Houston, TX 77210-4648	G	
Phone	(281) 240-5200	Phone	(713) 646-4610	H	
Fax	(281) 240-5201	Fax	(713) 646-4199	I	
e-Mail Address		e-Mail Address		J	

No.	Sample Description	Date	Time	Matrix	Pres.	# Bottles	A	B	C	D	E	F	G	H	I	J	Hold
1	MW 2	11/18/10	13:20	GW	HCL	3	X										
2	MW 3		13:25														
3	MW 4		13:30														
4	MW 5		13:35														
5	MW 6		13:45														
6	MW 7		13:50														
7	MW 8		13:55														
8																	
9																	
10																	

Sampler(s) Please Print & Sign: Matt Gibbs

Shipment Method:

Required Turnaround Time: (Check Box) ☐ Std 10 WK Days ☑ 5 WK Days ☐ Other ☐ 2 Wk Days ☐ 24 Hour

Results Due Date:

Relinquished by:	Date:	Time:	Received by:
Matt Gibbs	11/19/10	17:30	FEDEX
Relinquished by:	Date: 11-19-10	Time: 0910	Received by (Laboratory): RN ALS
Logged by (Laboratory):	Date:	Time:	Checked by (Laboratory):

Notes: 5 Day TAT.

Cooler ID	Cooler Temp.

QC Package: (Check One Box Below)
- ☑ Level II Std QC
- ☐ Level III Std QC/Raw Data
- ☐ Level IV SW846/CLP
- ☐ Other / EDD _____
- ☐ TRRP Checklist
- ☐ TRRP Level IV

Preservative Key: 1-HCl 2-HNO_3 3-H_2SO_4 4-NaOH 5-$Na_2S_2O_3$ 6-$NaHSO_4$ 7-Other 8-4°C 9-5035

Note: 1. Any changes must be made in writing once samples and COC Form have been submitted to ALS Laboratory Group.
2. Unless otherwise agreed in a formal contract, services provided by ALS Laboratory Group are expressly limited to the terms and conditions stated on the reverse.
3. The Chain of Custody is a legal document. All information must be completed accurately.

WO# 101750

ALS Environmental
10450 Stancliff Rd., Suite 2
Houston, Texas 77099
Tel. +1 281 530 5656
Fax. +1 281 530 5887

CUSTODY SEAL

Date: 11-18-10 Time: 1730
Name:
Company:

Seal Broken By:
Date: 11/19/10

This portion can be removed for Recipient's records.

FedEx Tracking Number 8735 3048 3641

Sender's Name
Phone
Company
Address
Dept/Floor/Suite/Room
City
State TX ZIP
Your Internal Billing Reference

ALS Environmental

Sample Receipt Checklist

Client Name: **PREMIER ENV** Date/Time Received: **19-Nov-10 09:10**

Work Order: **1011750** Received by: **RNG**

Checklist completed by Albert Valle (eSignature) 19-Nov-10 (Date) Reviewed by: Jay Lynn F Thibault (eSignature) 21-Nov-10 (Date)

Matrices: water
Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping 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 ☐	
Temperature(s)/Thermometer(s):	4.3c	T002	
Cooler(s)/Kit(s):	3773		
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☑	No ☐	N/A ☐
pH adjusted?	Yes ☐	No ☑	N/A ☐
pH adjusted by:	-		

Login Notes:

Client Contacted: Date Contacted: Person Contacted:

Contacted By: Regarding:

Comments:

CorrectiveAction:

TRACEANALYSIS, INC.

6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 800•378•1296 806•794•1296 FAX 806•794•1298
200 East Sunset Road, Suite E El Paso, Texas 79922 888•588•3443 915•585•3443 FAX 915•585•4944
5002 Basin Street, Suite A1 Midland, Texas 79703 432•689•6301 FAX 432•689•6313
6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132 817•201•5260
E-Mail: lab@traceanalysis.com

Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Chan Patel
Premier Environmental
4800 Sugar Grove Blvd.
Suite 420
Stafford, TX, 77477-2635

Report Date: February 10, 2010

Work Order: 10012803

Project Location: Lea Co., NM
Project Name: Vac. to Jal #3
Project Number: 205068
SRS#: 2003-00117

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220902	RW4	water	2010-01-27	16:35	2010-01-28
220903	RW5	water	2010-01-27	17:00	2010-01-28
220904	MW8	water	2010-01-27	17:30	2010-01-28

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc.

Notes:
For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

U - Not detected. The analyte is not detected above the SDL.

J - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.

B - The sample contains less than ten times the concentration found in the method blank.

JB - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Case Narrative

Samples for project Vac. to Jal #3 were received by TraceAnalysis, Inc. on 2010-01-28 and assigned to work order 10012803. Samples for work order 10012803 were received intact without headspace and at a temperature of 4.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
Ag, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Alkalinity	SM 2320B	57387	2010-01-28 at 12:42	67108	2010-01-28 at 15:43
Al, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
As, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Ba, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Ca, Dissolved	S 6010B	57630	2010-02-08 at 15:59	67424	2010-02-10 at 14:29
Cd, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Chloride (IC)	E 300.0	57382	2010-01-28 at 10:32	67125	2010-01-28 at 16:18
Co, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Cr, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Cu, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Fe, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Fluoride (IC)	E 300.0	57382	2010-01-28 at 10:32	67125	2010-01-28 at 16:18
Hg, Total	S 7470A	57555	2010-02-04 at 10:55	67315	2010-02-04 at 15:25
K, Dissolved	S 6010B	57630	2010-02-08 at 15:59	67424	2010-02-10 at 14:29
Mg, Dissolved	S 6010B	57630	2010-02-08 at 15:59	67424	2010-02-10 at 14:29
Mn, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Mo, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
Na, Dissolved	S 6010B	57630	2010-02-08 at 15:59	67424	2010-02-10 at 14:29
Ni, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
NO3 (IC)	E 300.0	57382	2010-01-28 at 10:32	67125	2010-01-28 at 16:18
Pb, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
PO4 (IC)	E 300.0	57382	2010-01-28 at 10:32	67125	2010-01-28 at 16:18
Semivolatiles	S 8270C	57567	2010-02-01 at 15:00	67319	2010-02-04 at 16:10
Se, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17
SO4 (IC)	E 300.0	57382	2010-01-28 at 10:32	67125	2010-01-28 at 16:18
Volatiles	S 8260B	57444	2010-01-29 at 12:00	67170	2010-01-29 at 12:00
Volatiles	S 8260B	57515	2010-02-02 at 12:00	67250	2010-02-02 at 12:00
Zn, Total	S 6010B	57443	2010-02-01 at 09:46	67189	2010-02-01 at 13:17

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10012803 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Al, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Aluminum		**21.5**	**21.5**	<0.00404	mg/L	1	0.00404	0.05	0.00404

Sample: 220902 - RW4

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	67108	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57387	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Hydroxide Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Carbonate Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Bicarbonate Alkalinity		**282**	**282**	<4.00	mg/L as CaCo3	1	4.00	4	4
Total Alkalinity		**282**	**282**	<4.00	mg/L as CaCo3	1	4.00	4	4

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Ca, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	67424	Date Analyzed:	2010-02-10	Analyzed By:	TP
Prep Batch:	57630	Sample Preparation:	2010-02-08	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Calcium		**130**	**130**	<0.117	mg/L	1	0.117	1	0.117

Sample: 220902 - RW4

Laboratory:	Midland				
Analysis:	Chloride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	67125	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57382	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		**408**	**408**	<4.75	mg/L	10	4.75	0.5	0.475

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Co, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Cobalt		**0.00500**	**0.00500**	<0.000822	mg/L	1	0.000822	0.002	0.000822

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Cu, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper		**0.00800**	**0.00800**	<0.00205	mg/L	1	0.00205	0.005	0.00205

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Fe, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		**14.3**	**14.3**	<0.00300	mg/L	1	0.00300	0.01	0.003

Sample: 220902 - RW4

Laboratory:	Midland				
Analysis:	Fluoride (IC)	Analytical Method:	E 300.0	Prep Method:	N/A

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Fluoride		**1.11**	**1.11**	<0.370	mg/L	5	0.370	0.2	0.074

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: K, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Potassium		**8.56**	**8.56**	<0.172	mg/L	1	0.172	1	0.172

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Mg, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Magnesium		**68.8**	**68.8**	<0.160	mg/L	1	0.160	1	0.16

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Mn, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Manganese		**0.142**	**0.142**	<0.00170	mg/L	1	0.00170	0.0025	0.0017

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Mo, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Molybdenum	U	<0.00356	<0.0100	<0.00356	mg/L	1	0.00356	0.01	0.00356

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Na, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Sodium		**188**	**188**	<0.0500	mg/L	1	0.0500	1	0.05

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Ni, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Nickel		**0.0130**	**0.0130**	<0.00274	mg/L	1	0.00274	0.005	0.00274

Sample: 220902 - RW4

Laboratory: Midland
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		**3.46**	**3.46**	<0.0900	mg/L	5	0.0900	0.2	0.018

Sample: 220902 - RW4

Laboratory:	Midland				
Analysis:	PO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	67125	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57382	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
PO4-P	U	<0.365	<2.50	<0.365	mg/L	5	0.365	0.5	0.073

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	67319	Date Analyzed:	2010-02-04	Analyzed By:	MN
Prep Batch:	57567	Sample Preparation:	2010-02-01	Prepared By:	MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.000560	<0.00461	<0.000560	mg/L	0.922	0.000560	0.005	0.000608
N-Nitrosodimethylamine	U	<0.000509	<0.00461	<0.000509	mg/L	0.922	0.000509	0.005	0.000552
2-Picoline	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Methyl methanesulfonate	U	<0.000323	<0.00461	<0.000323	mg/L	0.922	0.000323	0.005	0.00035
Ethyl methanesulfonate	U	<0.000413	<0.00461	<0.000413	mg/L	0.922	0.000413	0.005	0.000448
Phenol	U	<0.000469	<0.00461	<0.000469	mg/L	0.922	0.000469	0.005	0.000509
Aniline	U	<0.000637	<0.00461	<0.000637	mg/L	0.922	0.000637	0.005	0.000691
bis(2-chloroethyl)ether	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
2-Chlorophenol	U	<0.000495	<0.00461	<0.000495	mg/L	0.922	0.000495	0.005	0.000537
1,3-Dichlorobenzene (meta)	U	<0.000407	<0.00461	<0.000407	mg/L	0.922	0.000407	0.005	0.000441
1,4-Dichlorobenzene (para)	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
Benzyl alcohol	U	<0.000496	<0.00461	<0.000496	mg/L	0.922	0.000496	0.005	0.000538
1,2-Dichlorobenzene (ortho)	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
2-Methylphenol	U	<0.000669	<0.00461	<0.000669	mg/L	0.922	0.000669	0.005	0.000726
bis(2-chloroisopropyl)ether	U	<0.000464	<0.00461	<0.000464	mg/L	0.922	0.000464	0.005	0.000503
4-Methylphenol / 3-Methylphenol	U	<0.000472	<0.00461	<0.000472	mg/L	0.922	0.000472	0.005	0.000512
N-Nitrosodi-n-propylamine	U	<0.000675	<0.00461	<0.000675	mg/L	0.922	0.000675	0.005	0.000732
Hexachloroethane	U	<0.000467	<0.00461	<0.000467	mg/L	0.922	0.000467	0.005	0.000507
Acetophenone	U	<0.000391	<0.00461	<0.000391	mg/L	0.922	0.000391	0.005	0.000424
Nitrobenzene	U	<0.000429	<0.00461	<0.000429	mg/L	0.922	0.000429	0.005	0.000465
N-Nitrosopiperidine	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
Isophorone	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
2-Nitrophenol	U	<0.000374	<0.00461	<0.000374	mg/L	0.922	0.000374	0.005	0.000406
2,4-Dimethylphenol	U	<0.000440	<0.00461	<0.000440	mg/L	0.922	0.000440	0.005	0.000477
bis(2-chloroethoxy)methane	U	<0.000398	<0.00461	<0.000398	mg/L	0.922	0.000398	0.005	0.000432
2,4-Dichlorophenol	U	<0.000369	<0.00461	<0.000369	mg/L	0.922	0.000369	0.005	0.0004
1,2,4-Trichlorobenzene	U	<0.000372	<0.00461	<0.000372	mg/L	0.922	0.000372	0.005	0.000404

continued ...

sample 220902 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzoic acid	U	<0.00150	<0.00461	<0.00150	mg/L	0.922	0.00150	0.005	0.00163
Naphthalene		**0.0298**	**0.0298**	<0.000451	mg/L	0.922	0.000451	0.005	0.000489
a,a-Dimethylphenethylamine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
4-Chloroaniline	U	<0.000348	<0.00461	<0.000348	mg/L	0.922	0.000348	0.005	0.000378
2,6-Dichlorophenol	U	<0.000446	<0.00922	<0.000446	mg/L	0.922	0.000446	0.01	0.000484
Hexachlorobutadiene	U	<0.000477	<0.00461	<0.000477	mg/L	0.922	0.000477	0.005	0.000517
N-Nitroso-di-n-butylamine	U	<0.000605	<0.00461	<0.000605	mg/L	0.922	0.000605	0.005	0.000656
4-Chloro-3-methylphenol	U	<0.000481	<0.00461	<0.000481	mg/L	0.922	0.000481	0.005	0.000522
2-Methylnaphthalene		**0.0529**	**0.0529**	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
1-Methylnaphthalene		**0.0582**	**0.0582**	<0.000456	mg/L	0.922	0.000456	0.005	0.000495
1,2,4,5-Tetrachlorobenzene	U	<0.000564	<0.00461	<0.000564	mg/L	0.922	0.000564	0.005	0.000612
Hexachlorocyclopentadiene	U	<0.000514	<0.00461	<0.000514	mg/L	0.922	0.000514	0.005	0.000558
2,4,6-Trichlorophenol	U	<0.000732	<0.00922	<0.000732	mg/L	0.922	0.000732	0.01	0.000794
2,4,5-Trichlorophenol	U	<0.000769	<0.00461	<0.000769	mg/L	0.922	0.000769	0.005	0.000834
2-Chloronaphthalene	U	<0.000384	<0.00461	<0.000384	mg/L	0.922	0.000384	0.005	0.000416
1-Chloronaphthalene	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476
2-Nitroaniline	U	<0.000701	<0.00461	<0.000701	mg/L	0.922	0.000701	0.005	0.00076
Dimethylphthalate	U	<0.000593	<0.00461	<0.000593	mg/L	0.922	0.000593	0.005	0.000643
Acenaphthylene	U	<0.000540	<0.00461	<0.000540	mg/L	0.922	0.000540	0.005	0.000586
2,6-Dinitrotoluene	U	<0.000590	<0.00461	<0.000590	mg/L	0.922	0.000590	0.005	0.00064
3-Nitroaniline	U	<0.000665	<0.00461	<0.000665	mg/L	0.922	0.000665	0.005	0.000721
Acenaphthene	U	<0.000390	<0.00461	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
2,4-Dinitrophenol	U	<0.000203	<0.00461	<0.000203	mg/L	0.922	0.000203	0.005	0.00022
Dibenzofuran		**0.00700**	**0.00700**	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pentachlorobenzene	U	<0.000526	<0.00461	<0.000526	mg/L	0.922	0.000526	0.005	0.000571
4-Nitrophenol	U	<0.00170	<0.0230	<0.00170	mg/L	0.922	0.00170	0.025	0.00185
2,4-Dinitrotoluene	U	<0.000840	<0.00461	<0.000840	mg/L	0.922	0.000840	0.005	0.000911
1-Naphthylamine	U	<0.000634	<0.00461	<0.000634	mg/L	0.922	0.000634	0.005	0.000688
2,3,4,6-Tetrachlorophenol	U	<0.000521	<0.00922	<0.000521	mg/L	0.922	0.000521	0.01	0.000565
2-Naphthylamine	U	<0.000644	<0.00461	<0.000644	mg/L	0.922	0.000644	0.005	0.000699
Fluorene	J	**0.00426**	<0.00461	<0.000597	mg/L	0.922	0.000597	0.005	0.000648
4-Chlorophenyl-phenylether	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
Diethylphthalate	U	<0.000763	<0.00461	<0.000763	mg/L	0.922	0.000763	0.005	0.000828
4-Nitroaniline	U	<0.000647	<0.00461	<0.000647	mg/L	0.922	0.000647	0.005	0.000702
Diphenylhydrazine	U	<0.000606	<0.00461	<0.000606	mg/L	0.922	0.000606	0.005	0.000657
4,6-Dinitro-2-methylphenol	U	<0.00182	<0.00461	<0.00182	mg/L	0.922	0.00182	0.005	0.00198
Diphenylamine	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
4-Bromophenyl-phenylether	U	<0.000507	<0.00461	<0.000507	mg/L	0.922	0.000507	0.005	0.00055
Phenacetin	U	<0.000558	<0.00461	<0.000558	mg/L	0.922	0.000558	0.005	0.000605
Hexachlorobenzene	U	<0.000466	<0.00461	<0.000466	mg/L	0.922	0.000466	0.005	0.000506
4-Aminobiphenyl	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
Pentachlorophenol	U	<0.000401	<0.00922	<0.000401	mg/L	0.922	0.000401	0.01	0.000435
Anthracene	U	<0.000395	<0.00461	<0.000395	mg/L	0.922	0.000395	0.005	0.000428
Pentachloronitrobenzene	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pronamide	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476

continued ...

sample 220902 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Phenanthrene		**0.00709**	**0.00709**	<0.000505	mg/L	0.922	0.000505	0.005	0.000548
Di-n-butylphthalate	U	<0.000445	<0.00461	0.000544	mg/L	0.922	0.000445	0.005	0.000483
Fluoranthene	U	<0.000583	<0.00461	<0.000583	mg/L	0.922	0.000583	0.005	0.000632
Benzidine	U	<0.00219	<0.0230	<0.00219	mg/L	0.922	0.00219	0.025	0.00238
Pyrene	U	<0.000667	<0.00461	<0.000667	mg/L	0.922	0.000667	0.005	0.000723
p-Dimethylaminoazobenzene	U	<0.000832	<0.00461	<0.000832	mg/L	0.922	0.000832	0.005	0.000902
Butylbenzylphthalate	U	<0.000410	<0.00461	0.000452	mg/L	0.922	0.000410	0.005	0.000445
Benzo(a)anthracene	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
3,3-Dichlorobenzidine	U	<0.00109	<0.00461	<0.00109	mg/L	0.922	0.00109	0.005	0.00118
Chrysene	J	**0.000990**	<0.00461	<0.000588	mg/L	0.922	0.000588	0.005	0.000638
bis(2-ethylhexyl)phthalate	J	**0.00241**	<0.00461	<0.000517	mg/L	0.922	0.000517	0.005	0.000561
Di-n-octylphthalate	U	<0.00107	<0.00461	<0.00107	mg/L	0.922	0.00107	0.005	0.00116
Benzo(b)fluoranthene	U	<0.000810	<0.00461	<0.000810	mg/L	0.922	0.000810	0.005	0.000879
Benzo(k)fluoranthene	U	<0.000779	<0.00461	<0.000779	mg/L	0.922	0.000779	0.005	0.000845
7,12-Dimethylbenz(a)anthracene	U	<0.000940	<0.00461	<0.000940	mg/L	0.922	0.000940	0.005	0.00102
Benzo(a)pyrene	U	<0.00154	<0.00461	<0.00154	mg/L	0.922	0.00154	0.005	0.00167
3-Methylcholanthrene	U	<0.000837	<0.00461	<0.000837	mg/L	0.922	0.000837	0.005	0.000908
Dibenzo(a,j)acridine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
Indeno(1,2,3-cd)pyrene	U	<0.000795	<0.00461	<0.000795	mg/L	0.922	0.000795	0.005	0.000862
Dibenzo(a,h)anthracene	U	<0.000746	<0.00461	<0.000746	mg/L	0.922	0.000746	0.005	0.000809
Benzo(g,h,i)perylene	U	<0.000875	<0.00461	<0.000875	mg/L	0.922	0.000875	0.005	0.000949

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0297	mg/L	0.922	0.0800	37	10 - 53.1
Phenol-d5		0.0185	mg/L	0.922	0.0800	23	10 - 36.9
Nitrobenzene-d5		0.0451	mg/L	0.922	0.0800	56	23.8 - 108
2-Fluorobiphenyl		0.0443	mg/L	0.922	0.0800	55	15.9 - 127
2,4,6-Tribromophenol		0.0510	mg/L	0.922	0.0800	64	10 - 123
Terphenyl-d14		0.0497	mg/L	0.922	0.0800	62	17.2 - 160

Sample: 220902 - RW4

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	67125	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57382	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		**179**	**179**	<2.17	mg/L	10	2.17	0.5	0.217

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	67315	Date Analyzed:	2010-02-04	Analyzed By:	TP
Prep Batch:	57555	Sample Preparation:	2010-02-04	Prepared By:	TP

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.00131	<0.00500	<0.00131	mg/L	1	0.00131	0.005	0.00131
Total Arsenic	U	<0.00148	<0.0100	<0.00148	mg/L	1	0.00148	0.01	0.00148
Total Barium		**0.154**	**0.154**	<0.00730	mg/L	1	0.00730	0.01	0.0073
Total Cadmium	U	<0.000303	<0.00200	<0.000303	mg/L	1	0.000303	0.002	0.000303
Total Chromium		**0.0170**	**0.0170**	<0.000873	mg/L	1	0.000873	0.005	0.000873
Total Mercury	J	**0.0000700**	<0.000200	<0.0000388	mg/L	1	0.0000388	0.0002	3.88e-05
Total Lead	U	<0.00494	<0.00500	<0.00494	mg/L	1	0.00494	0.005	0.00494
Total Selenium	U	<0.00508	<0.0200	<0.00508	mg/L	1	0.00508	0.02	0.00508

Sample: 220902 - RW4

Laboratory:	Lubbock				
Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	67170	Date Analyzed:	2010-01-29	Analyzed By:	KB
Prep Batch:	57444	Sample Preparation:	2010-01-29	Prepared By:	KB

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Bromochloromethane	U	<74.0	<200	<74.0	µg/L	200	74.0	1	0.37
Dichlorodifluoromethane	U	<90.0	<200	<90.0	µg/L	200	90.0	1	0.45
Chloromethane (methyl chloride)	U	<118	<200	<118	µg/L	200	118	1	0.59
Vinyl Chloride	U	<138	<200	<138	µg/L	200	138	1	0.69
Bromomethane (methyl bromide)	U	<150	<1000	<150	µg/L	200	150	5	0.75
Chloroethane	U	<114	<200	<114	µg/L	200	114	1	0.57
Trichlorofluoromethane	U	<94.0	<200	<94.0	µg/L	200	94.0	1	0.47
Acetone	U	<350	<2000	<350	µg/L	200	350	10	1.75
Iodomethane (methyl iodide)	U	<64.0	<1000	<64.0	µg/L	200	64.0	5	0.32
Carbon Disulfide	U	<50.0	<200	<50.0	µg/L	200	50.0	1	0.25
Acrylonitrile	U	<64.0	<200	<64.0	µg/L	200	64.0	1	0.32
2-Butanone (MEK)	U	<162	<1000	<162	µg/L	200	162	5	0.81
4-Methyl-2-pentanone (MIBK)	U	<158	<1000	<158	µg/L	200	158	5	0.79
2-Hexanone	U	<102	<1000	<102	µg/L	200	102	5	0.51
trans 1,4-Dichloro-2-butene	U	<98.0	<2000	<98.0	µg/L	200	98.0	10	0.49
1,1-Dichloroethene	U	<80.0	<200	<80.0	µg/L	200	80.0	1	0.4

continued ...

sample 220902 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Methylene chloride	U	<90.0	<1000	110	µg/L	200	90.0	5	0.45
MTBE	U	<80.0	<200	<80.0	µg/L	200	80.0	1	0.4
trans-1,2-Dichloroethene	U	<66.0	<200	<66.0	µg/L	200	66.0	1	0.33
1,1-Dichloroethane	U	<58.0	<200	<58.0	µg/L	200	58.0	1	0.29
cis-1,2-Dichloroethene	U	<40.0	<200	<40.0	µg/L	200	40.0	1	0.2
2,2-Dichloropropane	U	<84.0	<200	<84.0	µg/L	200	84.0	1	0.42
1,2-Dichloroethane (EDC)	U	<70.0	<200	<70.0	µg/L	200	70.0	1	0.35
Chloroform	U	<54.0	<200	<54.0	µg/L	200	54.0	1	0.27
1,1,1-Trichloroethane	U	<46.0	<200	<46.0	µg/L	200	46.0	1	0.23
1,1-Dichloropropene	U	<68.0	<200	<68.0	µg/L	200	68.0	1	0.34
Benzene		**803**	**803**	<48.0	µg/L	200	48.0	1	0.24
Carbon Tetrachloride	U	<60.0	<200	<60.0	µg/L	200	60.0	1	0.3
1,2-Dichloropropane	U	<72.0	<200	<72.0	µg/L	200	72.0	1	0.36
Trichloroethene (TCE)	U	<60.0	<200	<60.0	µg/L	200	60.0	1	0.3
Dibromomethane (methylene bromide)	U	<94.0	<200	<94.0	µg/L	200	94.0	1	0.47
Bromodichloromethane	U	<56.0	<200	<56.0	µg/L	200	56.0	1	0.28
2-Chloroethyl vinyl ether	U	<66.0	<1000	<66.0	µg/L	200	66.0	5	0.33
cis-1,3-Dichloropropene	U	<66.0	<200	<66.0	µg/L	200	66.0	1	0.33
trans-1,3-Dichloropropene	U	<76.0	<200	<76.0	µg/L	200	76.0	1	0.38
Toluene		**1040**	**1040**	<54.0	µg/L	200	54.0	1	0.27
1,1,2-Trichloroethane	U	<56.0	<200	<56.0	µg/L	200	56.0	1	0.28
1,3-Dichloropropane	U	<54.0	<200	<54.0	µg/L	200	54.0	1	0.27
Dibromochloromethane	U	<64.0	<200	<64.0	µg/L	200	64.0	1	0.32
1,2-Dibromoethane (EDB)	U	<68.0	<200	<68.0	µg/L	200	68.0	1	0.34
Tetrachloroethene (PCE)	[1] U	<56.0	<200	<56.0	µg/L	200	56.0	1	0.28
Chlorobenzene	U	<52.0	<200	<52.0	µg/L	200	52.0	1	0.26
1,1,1,2-Tetrachloroethane	U	<44.0	<200	<44.0	µg/L	200	44.0	1	0.22
Ethylbenzene		**456**	**456**	<52.0	µg/L	200	52.0	1	0.26
m,p-Xylene		**727**	**727**	<108	µg/L	200	108	1	0.54
Bromoform	U	<46.0	<200	<46.0	µg/L	200	46.0	1	0.23
Styrene	U	<42.0	<200	<42.0	µg/L	200	42.0	1	0.21
o-Xylene		**233**	**233**	<52.0	µg/L	200	52.0	1	0.26
1,1,2,2-Tetrachloroethane	U	<84.0	<200	<84.0	µg/L	200	84.0	1	0.42
2-Chlorotoluene	U	<48.0	<200	<48.0	µg/L	200	48.0	1	0.24
1,2,3-Trichloropropane	U	<86.0	<200	<86.0	µg/L	200	86.0	1	0.43
Isopropylbenzene	J	**58.4**	<200	<52.0	µg/L	200	52.0	1	0.26
Bromobenzene	U	<52.0	<200	<52.0	µg/L	200	52.0	1	0.26
n-Propylbenzene	U	<62.0	<200	<62.0	µg/L	200	62.0	1	0.31
1,3,5-Trimethylbenzene	J	**66.0**	<200	<54.0	µg/L	200	54.0	1	0.27
tert-Butylbenzene	U	<60.0	<200	<60.0	µg/L	200	60.0	1	0.3
1,2,4-Trimethylbenzene	J	**187**	<200	<58.0	µg/L	200	58.0	1	0.29
1,4-Dichlorobenzene (para)	U	<48.0	<200	<48.0	µg/L	200	48.0	1	0.24
sec-Butylbenzene	U	<56.0	<200	<56.0	µg/L	200	56.0	1	0.28
1,3-Dichlorobenzene (meta)	U	<62.0	<200	<62.0	µg/L	200	62.0	1	0.31

continued ...

[1] Concentration biased low.

sample 220902 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
p-Isopropyltoluene	U	<66.0	<200	<66.0	µg/L	200	66.0	1	0.33
4-Chlorotoluene	U	<58.0	<200	<58.0	µg/L	200	58.0	1	0.29
1,2-Dichlorobenzene (ortho)	U	<54.0	<200	<54.0	µg/L	200	54.0	1	0.27
n-Butylbenzene	U	<60.0	<200	<60.0	µg/L	200	60.0	1	0.3
1,2-Dibromo-3-chloropropane	U	<136	<1000	<136	µg/L	200	136	5	0.68
1,2,3-Trichlorobenzene	U	<66.0	<1000	<66.0	µg/L	200	66.0	5	0.33
1,2,4-Trichlorobenzene	U	<68.0	<1000	<68.0	µg/L	200	68.0	5	0.34
Naphthalene	U	<56.0	<1000	<56.0	µg/L	200	56.0	5	0.28
Hexachlorobutadiene	U	<108	<1000	160	µg/L	200	108	5	0.54

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		10900	µg/L	200	10000	109	88.3 - 117
Toluene-d8		10100	µg/L	200	10000	101	87.7 - 112
4-Bromofluorobenzene (4-BFB)		10200	µg/L	200	10000	102	84.6 - 114

Sample: 220902 - RW4

Laboratory: Lubbock
Analysis: Zn, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		**0.0480**	**0.0480**	<0.000465	mg/L	1	0.000465	0.005	0.000465

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Al, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Aluminum		**3.52**	**3.52**	<0.00404	mg/L	1	0.00404	0.05	0.00404

Sample: 220903 - RW5

Laboratory: Midland
Analysis: Alkalinity | Analytical Method: SM 2320B | Prep Method: N/A
QC Batch: 67108 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57387 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Hydroxide Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Carbonate Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Bicarbonate Alkalinity		**414**	**414**	<4.00	mg/L as CaCo3	1	4.00	4	4
Total Alkalinity		**414**	**414**	<4.00	mg/L as CaCo3	1	4.00	4	4

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Ca, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Calcium		**183**	**183**	<0.117	mg/L	1	0.117	1	0.117

Sample: 220903 - RW5

Laboratory: Midland
Analysis: Chloride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		**527**	**527**	<23.8	mg/L	50	23.8	0.5	0.475

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Co, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Cobalt		**0.00200**	**0.00200**	<0.000822	mg/L	1	0.000822	0.002	0.000822

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Cu, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper	U	<0.00205	<0.00500	<0.00205	mg/L	1	0.00205	0.005	0.00205

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Fe, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		**2.49**	**2.49**	<0.00300	mg/L	1	0.00300	0.01	0.003

Sample: 220903 - RW5

Laboratory: Midland
Analysis: Fluoride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — Sample Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Fluoride	J	**0.991**	<1.00	<0.370	mg/L	5	0.370	0.2	0.074

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: K, Dissolved — Analytical Method: S 6010B — Prep Method: S 3005A

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Potassium		**10.4**	**10.4**	<0.172	mg/L	1	0.172	1	0.172

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Mg, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Magnesium		**106**	**106**	<0.160	mg/L	1	0.160	1	0.16

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Mn, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Manganese		**0.0810**	**0.0810**	<0.00170	mg/L	1	0.00170	0.0025	0.0017

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Mo, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Molybdenum	U	<0.00356	<0.0100	<0.00356	mg/L	1	0.00356	0.01	0.00356

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Na, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Sodium		**234**	**234**	<0.0500	mg/L	1	0.0500	1	0.05

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Ni, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Nickel	J	**0.00400**	<0.00500	<0.00274	mg/L	1	0.00274	0.005	0.00274

Sample: 220903 - RW5

Laboratory: Midland
Analysis: NO3 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		**1.37**	**1.37**	<0.0900	mg/L	5	0.0900	0.2	0.018

Sample: 220903 - RW5

Laboratory: Midland
Analysis: PO4 (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
PO4-P	U	<0.365	<2.50	<0.365	mg/L	5	0.365	0.5	0.073

Sample: 220903 - RW5

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	67319	Date Analyzed:	2010-02-04	Analyzed By:	MN
Prep Batch:	57567	Sample Preparation:	2010-02-01	Prepared By:	MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.000560	<0.00461	<0.000560	mg/L	0.922	0.000560	0.005	0.000608
N-Nitrosodimethylamine	U	<0.000509	<0.00461	<0.000509	mg/L	0.922	0.000509	0.005	0.000552
2-Picoline	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Methyl methanesulfonate	U	<0.000323	<0.00461	<0.000323	mg/L	0.922	0.000323	0.005	0.00035
Ethyl methanesulfonate	U	<0.000413	<0.00461	<0.000413	mg/L	0.922	0.000413	0.005	0.000448
Phenol		**0.00528**	**0.00528**	<0.000469	mg/L	0.922	0.000469	0.005	0.000509
Aniline	U	<0.000637	<0.00461	<0.000637	mg/L	0.922	0.000637	0.005	0.000691
bis(2-chloroethyl)ether	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
2-Chlorophenol	U	<0.000495	<0.00461	<0.000495	mg/L	0.922	0.000495	0.005	0.000537
1,3-Dichlorobenzene (meta)	U	<0.000407	<0.00461	<0.000407	mg/L	0.922	0.000407	0.005	0.000441
1,4-Dichlorobenzene (para)	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
Benzyl alcohol	U	<0.000496	<0.00461	<0.000496	mg/L	0.922	0.000496	0.005	0.000538
1,2-Dichlorobenzene (ortho)	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
2-Methylphenol	U	<0.000669	<0.00461	<0.000669	mg/L	0.922	0.000669	0.005	0.000726
bis(2-chloroisopropyl)ether	U	<0.000464	<0.00461	<0.000464	mg/L	0.922	0.000464	0.005	0.000503
4-Methylphenol / 3-Methylphenol	U	<0.000472	<0.00461	<0.000472	mg/L	0.922	0.000472	0.005	0.000512
N-Nitrosodi-n-propylamine	U	<0.000675	<0.00461	<0.000675	mg/L	0.922	0.000675	0.005	0.000732
Hexachloroethane	U	<0.000467	<0.00461	<0.000467	mg/L	0.922	0.000467	0.005	0.000507
Acetophenone	U	<0.000391	<0.00461	<0.000391	mg/L	0.922	0.000391	0.005	0.000424
Nitrobenzene	U	<0.000429	<0.00461	<0.000429	mg/L	0.922	0.000429	0.005	0.000465
N-Nitrosopiperidine	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
Isophorone	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
2-Nitrophenol	U	<0.000374	<0.00461	<0.000374	mg/L	0.922	0.000374	0.005	0.000406
2,4-Dimethylphenol	J	**0.00175**	<0.00461	<0.000440	mg/L	0.922	0.000440	0.005	0.000477
bis(2-chloroethoxy)methane	U	<0.000398	<0.00461	<0.000398	mg/L	0.922	0.000398	0.005	0.000432
2,4-Dichlorophenol	U	<0.000369	<0.00461	<0.000369	mg/L	0.922	0.000369	0.005	0.0004
1,2,4-Trichlorobenzene	U	<0.000372	<0.00461	<0.000372	mg/L	0.922	0.000372	0.005	0.000404
Benzoic acid	U	<0.00150	<0.00461	<0.00150	mg/L	0.922	0.00150	0.005	0.00163
Naphthalene		**0.0159**	**0.0159**	<0.000451	mg/L	0.922	0.000451	0.005	0.000489
a,a-Dimethylphenethylamine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
4-Chloroaniline	U	<0.000348	<0.00461	<0.000348	mg/L	0.922	0.000348	0.005	0.000378
2,6-Dichlorophenol	U	<0.000446	<0.00922	<0.000446	mg/L	0.922	0.000446	0.01	0.000484
Hexachlorobutadiene	U	<0.000477	<0.00461	<0.000477	mg/L	0.922	0.000477	0.005	0.000517
N-Nitroso-di-n-butylamine	U	<0.000605	<0.00461	<0.000605	mg/L	0.922	0.000605	0.005	0.000656
4-Chloro-3-methylphenol	U	<0.000481	<0.00461	<0.000481	mg/L	0.922	0.000481	0.005	0.000522
2-Methylnaphthalene		**0.0217**	**0.0217**	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
1-Methylnaphthalene		**0.0237**	**0.0237**	<0.000456	mg/L	0.922	0.000456	0.005	0.000495
1,2,4,5-Tetrachlorobenzene	U	<0.000564	<0.00461	<0.000564	mg/L	0.922	0.000564	0.005	0.000612
Hexachlorocyclopentadiene	U	<0.000514	<0.00461	<0.000514	mg/L	0.922	0.000514	0.005	0.000558
2,4,6-Trichlorophenol	U	<0.000732	<0.00922	<0.000732	mg/L	0.922	0.000732	0.01	0.000794

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sample 220903 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
2,4,5-Trichlorophenol	U	<0.000769	<0.00461	<0.000769	mg/L	0.922	0.000769	0.005	0.000834
2-Chloronaphthalene	U	<0.000384	<0.00461	<0.000384	mg/L	0.922	0.000384	0.005	0.000416
1-Chloronaphthalene	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476
2-Nitroaniline	U	<0.000701	<0.00461	<0.000701	mg/L	0.922	0.000701	0.005	0.00076
Dimethylphthalate	U	<0.000593	<0.00461	<0.000593	mg/L	0.922	0.000593	0.005	0.000643
Acenaphthylene	U	<0.000540	<0.00461	<0.000540	mg/L	0.922	0.000540	0.005	0.000586
2,6-Dinitrotoluene	U	<0.000590	<0.00461	<0.000590	mg/L	0.922	0.000590	0.005	0.00064
3-Nitroaniline	U	<0.000665	<0.00461	<0.000665	mg/L	0.922	0.000665	0.005	0.000721
Acenaphthene	U	<0.000390	<0.00461	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
2,4-Dinitrophenol	U	<0.000203	<0.00461	<0.000203	mg/L	0.922	0.000203	0.005	0.00022
Dibenzofuran	J	**0.00328**	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pentachlorobenzene	U	<0.000526	<0.00461	<0.000526	mg/L	0.922	0.000526	0.005	0.000571
4-Nitrophenol	U	<0.00170	<0.0230	<0.00170	mg/L	0.922	0.00170	0.025	0.00185
2,4-Dinitrotoluene	U	<0.000840	<0.00461	<0.000840	mg/L	0.922	0.000840	0.005	0.000911
1-Naphthylamine	U	<0.000634	<0.00461	<0.000634	mg/L	0.922	0.000634	0.005	0.000688
2,3,4,6-Tetrachlorophenol	U	<0.000521	<0.00922	<0.000521	mg/L	0.922	0.000521	0.01	0.000565
2-Naphthylamine	U	<0.000644	<0.00461	<0.000644	mg/L	0.922	0.000644	0.005	0.000699
Fluorene	J	**0.00160**	<0.00461	<0.000597	mg/L	0.922	0.000597	0.005	0.000648
4-Chlorophenyl-phenylether	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
Diethylphthalate	U	<0.000763	<0.00461	<0.000763	mg/L	0.922	0.000763	0.005	0.000828
4-Nitroaniline	U	<0.000647	<0.00461	<0.000647	mg/L	0.922	0.000647	0.005	0.000702
Diphenylhydrazine	U	<0.000606	<0.00461	<0.000606	mg/L	0.922	0.000606	0.005	0.000657
4,6-Dinitro-2-methylphenol	U	<0.00182	<0.00461	<0.00182	mg/L	0.922	0.00182	0.005	0.00198
Diphenylamine	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
4-Bromophenyl-phenylether	U	<0.000507	<0.00461	<0.000507	mg/L	0.922	0.000507	0.005	0.00055
Phenacetin	U	<0.000558	<0.00461	<0.000558	mg/L	0.922	0.000558	0.005	0.000605
Hexachlorobenzene	U	<0.000466	<0.00461	<0.000466	mg/L	0.922	0.000466	0.005	0.000506
4-Aminobiphenyl	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
Pentachlorophenol	U	<0.000401	<0.00922	<0.000401	mg/L	0.922	0.000401	0.01	0.000435
Anthracene	U	<0.000395	<0.00461	<0.000395	mg/L	0.922	0.000395	0.005	0.000428
Pentachloronitrobenzene	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pronamide	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476
Phenanthrene	J	**0.00176**	<0.00461	<0.000505	mg/L	0.922	0.000505	0.005	0.000548
Di-n-butylphthalate	U	<0.000445	<0.00461	0.000544	mg/L	0.922	0.000445	0.005	0.000483
Fluoranthene	U	<0.000583	<0.00461	<0.000583	mg/L	0.922	0.000583	0.005	0.000632
Benzidine	U	<0.00219	<0.0230	<0.00219	mg/L	0.922	0.00219	0.025	0.00238
Pyrene	U	<0.000667	<0.00461	<0.000667	mg/L	0.922	0.000667	0.005	0.000723
p-Dimethylaminoazobenzene	U	<0.000832	<0.00461	<0.000832	mg/L	0.922	0.000832	0.005	0.000902
Butylbenzylphthalate	U	<0.000410	<0.00461	0.000452	mg/L	0.922	0.000410	0.005	0.000445
Benzo(a)anthracene	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
3,3-Dichlorobenzidine	U	<0.00109	<0.00461	<0.00109	mg/L	0.922	0.00109	0.005	0.00118
Chrysene	U	<0.000588	<0.00461	<0.000588	mg/L	0.922	0.000588	0.005	0.000638
bis(2-ethylhexyl)phthalate	J	**0.00158**	<0.00461	<0.000517	mg/L	0.922	0.000517	0.005	0.000561
Di-n-octylphthalate	U	<0.00107	<0.00461	<0.00107	mg/L	0.922	0.00107	0.005	0.00116
Benzo(b)fluoranthene	U	<0.000810	<0.00461	<0.000810	mg/L	0.922	0.000810	0.005	0.000879

continued ...

sample 220903 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzo(k)fluoranthene	U	<0.000779	<0.00461	<0.000779	mg/L	0.922	0.000779	0.005	0.000845
7,12-Dimethylbenz(a)anthracene	U	<0.000940	<0.00461	<0.000940	mg/L	0.922	0.000940	0.005	0.00102
Benzo(a)pyrene	U	<0.00154	<0.00461	<0.00154	mg/L	0.922	0.00154	0.005	0.00167
3-Methylcholanthrene	U	<0.000837	<0.00461	<0.000837	mg/L	0.922	0.000837	0.005	0.000908
Dibenzo(a,j)acridine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
Indeno(1,2,3-cd)pyrene	U	<0.000795	<0.00461	<0.000795	mg/L	0.922	0.000795	0.005	0.000862
Dibenzo(a,h)anthracene	U	<0.000746	<0.00461	<0.000746	mg/L	0.922	0.000746	0.005	0.000809
Benzo(g,h,i)perylene	U	<0.000875	<0.00461	<0.000875	mg/L	0.922	0.000875	0.005	0.000949

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0267	mg/L	0.922	0.0800	33	10 - 53.1
Phenol-d5		0.0174	mg/L	0.922	0.0800	22	10 - 36.9
Nitrobenzene-d5		0.0506	mg/L	0.922	0.0800	63	23.8 - 108
2-Fluorobiphenyl		0.0461	mg/L	0.922	0.0800	58	15.9 - 127
2,4,6-Tribromophenol		0.0810	mg/L	0.922	0.0800	101	10 - 123
Terphenyl-d14		0.0641	mg/L	0.922	0.0800	80	17.2 - 160

Sample: 220903 - RW5

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	67125	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57382	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		**172**	**172**	<1.08	mg/L	5	1.08	0.5	0.217

Sample: 220903 - RW5

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	67315	Date Analyzed:	2010-02-04	Analyzed By:	TP
Prep Batch:	57555	Sample Preparation:	2010-02-04	Prepared By:	TP

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.00131	<0.00500	<0.00131	mg/L	1	0.00131	0.005	0.00131
Total Arsenic	U	<0.00148	<0.0100	<0.00148	mg/L	1	0.00148	0.01	0.00148
Total Barium		**0.154**	**0.154**	<0.00730	mg/L	1	0.00730	0.01	0.0073
Total Cadmium	U	<0.000303	<0.00200	<0.000303	mg/L	1	0.000303	0.002	0.000303
Total Chromium	J	**0.00400**	<0.00500	<0.000873	mg/L	1	0.000873	0.005	0.000873
Total Mercury	U	<0.0000388	<0.000200	<0.0000388	mg/L	1	0.0000388	0.0002	3.88e-05
Total Lead	U	<0.00494	<0.00500	<0.00494	mg/L	1	0.00494	0.005	0.00494
Total Selenium	U	<0.00508	<0.0200	<0.00508	mg/L	1	0.00508	0.02	0.00508

Sample: 220903 - RW5

Laboratory: Lubbock
Analysis: Volatiles | Analytical Method: S 8260B | Prep Method: S 5030B
QC Batch: 67250 | Date Analyzed: 2010-02-02 | Analyzed By: KB
Prep Batch: 57515 | Sample Preparation: 2010-02-02 | Prepared By: KB

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Bromochloromethane	U	<3.70	<10.0	<3.70	µg/L	10	3.70	1	0.37
Dichlorodifluoromethane	U	<4.50	<10.0	<4.50	µg/L	10	4.50	1	0.45
Chloromethane (methyl chloride)	U	<5.90	<10.0	<5.90	µg/L	10	5.90	1	0.59
Vinyl Chloride	U	<6.90	<10.0	<6.90	µg/L	10	6.90	1	0.69
Bromomethane (methyl bromide)	U	<7.50	<50.0	<7.50	µg/L	10	7.50	5	0.75
Chloroethane	U	<5.70	<10.0	<5.70	µg/L	10	5.70	1	0.57
Trichlorofluoromethane	U	<4.70	<10.0	<4.70	µg/L	10	4.70	1	0.47
Acetone	U	<17.5	<100	<17.5	µg/L	10	17.5	10	1.75
Iodomethane (methyl iodide)	U	<3.20	<50.0	<3.20	µg/L	10	3.20	5	0.32
Carbon Disulfide	U	<2.50	<10.0	<2.50	µg/L	10	2.50	1	0.25
Acrylonitrile	U	<3.20	<10.0	<3.20	µg/L	10	3.20	1	0.32
2-Butanone (MEK)	[2] U	<8.10	<50.0	<8.10	µg/L	10	8.10	5	0.81
4-Methyl-2-pentanone (MIBK)	U	<7.90	<50.0	<7.90	µg/L	10	7.90	5	0.79
2-Hexanone	U	<5.10	<50.0	<5.10	µg/L	10	5.10	5	0.51
trans 1,4-Dichloro-2-butene	U	<4.90	<100	<4.90	µg/L	10	4.90	10	0.49
1,1-Dichloroethene	U	<4.00	<10.0	<4.00	µg/L	10	4.00	1	0.4
Methylene chloride	JB	**11.5**	<50.0	11.4	µg/L	10	4.50	5	0.45
MTBE	U	<4.00	<10.0	<4.00	µg/L	10	4.00	1	0.4
trans-1,2-Dichloroethene	U	<3.30	<10.0	<3.30	µg/L	10	3.30	1	0.33
1,1-Dichloroethane	U	<2.90	<10.0	<2.90	µg/L	10	2.90	1	0.29
cis-1,2-Dichloroethene	U	<2.00	<10.0	<2.00	µg/L	10	2.00	1	0.2
2,2-Dichloropropane	U	<4.20	<10.0	<4.20	µg/L	10	4.20	1	0.42
1,2-Dichloroethane (EDC)	U	<3.50	<10.0	<3.50	µg/L	10	3.50	1	0.35
Chloroform	U	<2.70	<10.0	<2.70	µg/L	10	2.70	1	0.27
1,1,1-Trichloroethane	U	<2.30	<10.0	<2.30	µg/L	10	2.30	1	0.23

continued . . .

[2] Concentration biased low.

sample 220903 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
1,1-Dichloropropene	U	<3.40	<10.0	<3.40	µg/L	10	3.40	1	0.34
Benzene		**747**	**747**	<2.40	µg/L	10	2.40	1	0.24
Carbon Tetrachloride	U	<3.00	<10.0	<3.00	µg/L	10	3.00	1	0.3
1,2-Dichloropropane	U	<3.60	<10.0	<3.60	µg/L	10	3.60	1	0.36
Trichloroethene (TCE)	U	<3.00	<10.0	<3.00	µg/L	10	3.00	1	0.3
Dibromomethane (methylene bromide)	U	<4.70	<10.0	<4.70	µg/L	10	4.70	1	0.47
Bromodichloromethane	U	<2.80	<10.0	<2.80	µg/L	10	2.80	1	0.28
2-Chloroethyl vinyl ether	[3] U	<3.30	<50.0	<3.30	µg/L	10	3.30	5	0.33
cis-1,3-Dichloropropene	U	<3.30	<10.0	<3.30	µg/L	10	3.30	1	0.33
trans-1,3-Dichloropropene	U	<3.80	<10.0	<3.80	µg/L	10	3.80	1	0.38
Toluene		**182**	**182**	<2.70	µg/L	10	2.70	1	0.27
1,1,2-Trichloroethane	[4] U	<2.80	<10.0	<2.80	µg/L	10	2.80	1	0.28
1,3-Dichloropropane	[5] U	<2.70	<10.0	<2.70	µg/L	10	2.70	1	0.27
Dibromochloromethane	U	<3.20	<10.0	<3.20	µg/L	10	3.20	1	0.32
1,2-Dibromoethane (EDB)	U	<3.40	<10.0	<3.40	µg/L	10	3.40	1	0.34
Tetrachloroethene (PCE)	[6] U	<2.80	<10.0	<2.80	µg/L	10	2.80	1	0.28
Chlorobenzene	U	<2.60	<10.0	<2.60	µg/L	10	2.60	1	0.26
1,1,1,2-Tetrachloroethane	U	<2.20	<10.0	<2.20	µg/L	10	2.20	1	0.22
Ethylbenzene		**146**	**146**	<2.60	µg/L	10	2.60	1	0.26
m,p-Xylene		**256**	**256**	<5.40	µg/L	10	5.40	1	0.54
Bromoform	U	<2.30	<10.0	<2.30	µg/L	10	2.30	1	0.23
Styrene	U	<2.10	<10.0	<2.10	µg/L	10	2.10	1	0.21
o-Xylene		**65.5**	**65.5**	<2.60	µg/L	10	2.60	1	0.26
1,1,2,2-Tetrachloroethane	U	<4.20	<10.0	<4.20	µg/L	10	4.20	1	0.42
2-Chlorotoluene	U	<2.40	<10.0	<2.40	µg/L	10	2.40	1	0.24
1,2,3-Trichloropropane	U	<4.30	<10.0	<4.30	µg/L	10	4.30	1	0.43
Isopropylbenzene		**31.9**	**31.9**	<2.60	µg/L	10	2.60	1	0.26
Bromobenzene	U	<2.60	<10.0	<2.60	µg/L	10	2.60	1	0.26
n-Propylbenzene		**18.6**	**18.6**	<3.10	µg/L	10	3.10	1	0.31
1,3,5-Trimethylbenzene		**35.6**	**35.6**	<2.70	µg/L	10	2.70	1	0.27
tert-Butylbenzene	U	<3.00	<10.0	<3.00	µg/L	10	3.00	1	0.3
1,2,4-Trimethylbenzene		**159**	**159**	<2.90	µg/L	10	2.90	1	0.29
1,4-Dichlorobenzene (para)	U	<2.40	<10.0	<2.40	µg/L	10	2.40	1	0.24
sec-Butylbenzene	J	**7.21**	<10.0	<2.80	µg/L	10	2.80	1	0.28
1,3-Dichlorobenzene (meta)	U	<3.10	<10.0	<3.10	µg/L	10	3.10	1	0.31
p-Isopropyltoluene	J	**6.05**	<10.0	<3.30	µg/L	10	3.30	1	0.33
4-Chlorotoluene	U	<2.90	<10.0	<2.90	µg/L	10	2.90	1	0.29
1,2-Dichlorobenzene (ortho)	U	<2.70	<10.0	<2.70	µg/L	10	2.70	1	0.27
n-Butylbenzene	J	**5.56**	<10.0	<3.00	µg/L	10	3.00	1	0.3
1,2-Dibromo-3-chloropropane	U	<6.80	<50.0	<6.80	µg/L	10	6.80	5	0.68
1,2,3-Trichlorobenzene	U	<3.30	<50.0	<3.30	µg/L	10	3.30	5	0.33

continued ...

[3] Concentration biased low.
[4] Concentration biased low.
[5] Concentration biased low.
[6] Concentration biased low.

sample 220903 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
1,2,4-Trichlorobenzene	U	<3.40	<50.0	<3.40	µg/L	10	3.40	5	0.34
Naphthalene	J	**14.6**	<50.0	<2.80	µg/L	10	2.80	5	0.28
Hexachlorobutadiene	U	<5.40	<50.0	<5.40	µg/L	10	5.40	5	0.54

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		562	µg/L	10	500	112	88.3 - 117
Toluene-d8		489	µg/L	10	500	98	87.7 - 112
4-Bromofluorobenzene (4-BFB)		528	µg/L	10	500	106	84.6 - 114

Sample: 220903 - RW5

Laboratory:	Lubbock				
Analysis:	Zn, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		**0.00800**	**0.00800**	<0.000465	mg/L	1	0.000465	0.005	0.000465

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Al, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Aluminum		**9.17**	**9.17**	<0.00404	mg/L	1	0.00404	0.05	0.00404

Sample: 220904 - MW8

Laboratory:	Midland				
Analysis:	Alkalinity	Analytical Method:	SM 2320B	Prep Method:	N/A
QC Batch:	67108	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57387	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Hydroxide Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Carbonate Alkalinity	U	<1.00	<1.00	<1.00	mg/L as CaCo3	1	1.00	1	1
Bicarbonate Alkalinity		**293**	**293**	<4.00	mg/L as CaCo3	1	4.00	4	4
Total Alkalinity		**293**	**293**	<4.00	mg/L as CaCo3	1	4.00	4	4

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Ca, Dissolved — Analytical Method: S 6010B — Prep Method: S 3005A
QC Batch: 67424 — Date Analyzed: 2010-02-10 — Analyzed By: TP
Prep Batch: 57630 — Sample Preparation: 2010-02-08 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Calcium		**145**	**145**	<0.117	mg/L	1	0.117	1	0.117

Sample: 220904 - MW8

Laboratory: Midland
Analysis: Chloride (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — Sample Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Chloride		**429**	**429**	<23.8	mg/L	50	23.8	0.5	0.475

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Co, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Cobalt	U	<0.000822	<0.00200	<0.000822	mg/L	1	0.000822	0.002	0.000822

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Cu, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Copper	J	**0.00300**	<0.00500	<0.00205	mg/L	1	0.00205	0.005	0.00205

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Fe, Total | Analytical Method: S 6010B | Prep Method: S 3010A
QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | Sample Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Iron		**6.72**	**6.72**	<0.00300	mg/L	1	0.00300	0.01	0.003

Sample: 220904 - MW8

Laboratory: Midland
Analysis: Fluoride (IC) | Analytical Method: E 300.0 | Prep Method: N/A
QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | Sample Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Fluoride		**1.18**	**1.18**	<0.370	mg/L	5	0.370	0.2	0.074

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: K, Dissolved | Analytical Method: S 6010B | Prep Method: S 3005A
QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | Sample Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Potassium		**9.23**	**9.23**	<0.172	mg/L	1	0.172	1	0.172

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Mg, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	67424	Date Analyzed:	2010-02-10	Analyzed By:	TP
Prep Batch:	57630	Sample Preparation:	2010-02-08	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Magnesium		**77.3**	**77.3**	<0.160	mg/L	1	0.160	1	0.16

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Mn, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Manganese		**0.0910**	**0.0910**	<0.00170	mg/L	1	0.00170	0.0025	0.0017

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Mo, Total	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Molybdenum	U	<0.00356	<0.0100	<0.00356	mg/L	1	0.00356	0.01	0.00356

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Na, Dissolved	Analytical Method:	S 6010B	Prep Method:	S 3005A
QC Batch:	67424	Date Analyzed:	2010-02-10	Analyzed By:	TP
Prep Batch:	57630	Sample Preparation:	2010-02-08	Prepared By:	KV

continued ...

sample 220904 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Dissolved Sodium		**226**	**226**	<0.0500	mg/L	1	0.0500	1	0.05

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Ni, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Nickel		**0.00600**	**0.00600**	<0.00274	mg/L	1	0.00274	0.005	0.00274

Sample: 220904 - MW8

Laboratory: Midland
Analysis: NO3 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — Sample Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Nitrate-N		**10.0**	**10.0**	<0.0900	mg/L	5	0.0900	0.2	0.018

Sample: 220904 - MW8

Laboratory: Midland
Analysis: PO4 (IC) — Analytical Method: E 300.0 — Prep Method: N/A
QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — Sample Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
PO4-P	U	<0.365	<2.50	<0.365	mg/L	5	0.365	0.5	0.073

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Semivolatiles	Analytical Method:	S 8270C	Prep Method:	S 3510C
QC Batch:	67319	Date Analyzed:	2010-02-04	Analyzed By:	MN
Prep Batch:	57567	Sample Preparation:	2010-02-01	Prepared By:	MN

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Pyridine	U	<0.000560	<0.00461	<0.000560	mg/L	0.922	0.000560	0.005	0.000608
N-Nitrosodimethylamine	U	<0.000509	<0.00461	<0.000509	mg/L	0.922	0.000509	0.005	0.000552
2-Picoline	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Methyl methanesulfonate	U	<0.000323	<0.00461	<0.000323	mg/L	0.922	0.000323	0.005	0.00035
Ethyl methanesulfonate	U	<0.000413	<0.00461	<0.000413	mg/L	0.922	0.000413	0.005	0.000448
Phenol	U	<0.000469	<0.00461	<0.000469	mg/L	0.922	0.000469	0.005	0.000509
Aniline	U	<0.000637	<0.00461	<0.000637	mg/L	0.922	0.000637	0.005	0.000691
bis(2-chloroethyl)ether	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
2-Chlorophenol	U	<0.000495	<0.00461	<0.000495	mg/L	0.922	0.000495	0.005	0.000537
1,3-Dichlorobenzene (meta)	U	<0.000407	<0.00461	<0.000407	mg/L	0.922	0.000407	0.005	0.000441
1,4-Dichlorobenzene (para)	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
Benzyl alcohol	U	<0.000496	<0.00461	<0.000496	mg/L	0.922	0.000496	0.005	0.000538
1,2-Dichlorobenzene (ortho)	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
2-Methylphenol	U	<0.000669	<0.00461	<0.000669	mg/L	0.922	0.000669	0.005	0.000726
bis(2-chloroisopropyl)ether	U	<0.000464	<0.00461	<0.000464	mg/L	0.922	0.000464	0.005	0.000503
4-Methylphenol / 3-Methylphenol	U	<0.000472	<0.00461	<0.000472	mg/L	0.922	0.000472	0.005	0.000512
N-Nitrosodi-n-propylamine	U	<0.000675	<0.00461	<0.000675	mg/L	0.922	0.000675	0.005	0.000732
Hexachloroethane	U	<0.000467	<0.00461	<0.000467	mg/L	0.922	0.000467	0.005	0.000507
Acetophenone	U	<0.000391	<0.00461	<0.000391	mg/L	0.922	0.000391	0.005	0.000424
Nitrobenzene	U	<0.000429	<0.00461	<0.000429	mg/L	0.922	0.000429	0.005	0.000465
N-Nitrosopiperidine	U	<0.000408	<0.00461	<0.000408	mg/L	0.922	0.000408	0.005	0.000443
Isophorone	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
2-Nitrophenol	U	<0.000374	<0.00461	<0.000374	mg/L	0.922	0.000374	0.005	0.000406
2,4-Dimethylphenol	U	<0.000440	<0.00461	<0.000440	mg/L	0.922	0.000440	0.005	0.000477
bis(2-chloroethoxy)methane	U	<0.000398	<0.00461	<0.000398	mg/L	0.922	0.000398	0.005	0.000432
2,4-Dichlorophenol	U	<0.000369	<0.00461	<0.000369	mg/L	0.922	0.000369	0.005	0.0004
1,2,4-Trichlorobenzene	U	<0.000372	<0.00461	<0.000372	mg/L	0.922	0.000372	0.005	0.000404
Benzoic acid	U	<0.00150	<0.00461	<0.00150	mg/L	0.922	0.00150	0.005	0.00163
Naphthalene	U	<0.000451	<0.00461	<0.000451	mg/L	0.922	0.000451	0.005	0.000489
a,a-Dimethylphenethylamine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
4-Chloroaniline	U	<0.000348	<0.00461	<0.000348	mg/L	0.922	0.000348	0.005	0.000378
2,6-Dichlorophenol	U	<0.000446	<0.00922	<0.000446	mg/L	0.922	0.000446	0.01	0.000484
Hexachlorobutadiene	U	<0.000477	<0.00461	<0.000477	mg/L	0.922	0.000477	0.005	0.000517
N-Nitroso-di-n-butylamine	U	<0.000605	<0.00461	<0.000605	mg/L	0.922	0.000605	0.005	0.000656
4-Chloro-3-methylphenol	U	<0.000481	<0.00461	<0.000481	mg/L	0.922	0.000481	0.005	0.000522
2-Methylnaphthalene	U	<0.000390	<0.00461	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
1-Methylnaphthalene	U	<0.000456	<0.00461	<0.000456	mg/L	0.922	0.000456	0.005	0.000495
1,2,4,5-Tetrachlorobenzene	U	<0.000564	<0.00461	<0.000564	mg/L	0.922	0.000564	0.005	0.000612
Hexachlorocyclopentadiene	U	<0.000514	<0.00461	<0.000514	mg/L	0.922	0.000514	0.005	0.000558
2,4,6-Trichlorophenol	U	<0.000732	<0.00922	<0.000732	mg/L	0.922	0.000732	0.01	0.000794

continued ...

sample 220904 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
2,4,5-Trichlorophenol	U	<0.000769	<0.00461	<0.000769	mg/L	0.922	0.000769	0.005	0.000834
2-Chloronaphthalene	U	<0.000384	<0.00461	<0.000384	mg/L	0.922	0.000384	0.005	0.000416
1-Chloronaphthalene	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476
2-Nitroaniline	U	<0.000701	<0.00461	<0.000701	mg/L	0.922	0.000701	0.005	0.00076
Dimethylphthalate	U	<0.000593	<0.00461	<0.000593	mg/L	0.922	0.000593	0.005	0.000643
Acenaphthylene	U	<0.000540	<0.00461	<0.000540	mg/L	0.922	0.000540	0.005	0.000586
2,6-Dinitrotoluene	U	<0.000590	<0.00461	<0.000590	mg/L	0.922	0.000590	0.005	0.00064
3-Nitroaniline	U	<0.000665	<0.00461	<0.000665	mg/L	0.922	0.000665	0.005	0.000721
Acenaphthene	U	<0.000390	<0.00461	<0.000390	mg/L	0.922	0.000390	0.005	0.000423
2,4-Dinitrophenol	U	<0.000203	<0.00461	<0.000203	mg/L	0.922	0.000203	0.005	0.00022
Dibenzofuran	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pentachlorobenzene	U	<0.000526	<0.00461	<0.000526	mg/L	0.922	0.000526	0.005	0.000571
4-Nitrophenol	U	<0.00170	<0.0230	<0.00170	mg/L	0.922	0.00170	0.025	0.00185
2,4-Dinitrotoluene	U	<0.000840	<0.00461	<0.000840	mg/L	0.922	0.000840	0.005	0.000911
1-Naphthylamine	U	<0.000634	<0.00461	<0.000634	mg/L	0.922	0.000634	0.005	0.000688
2,3,4,6-Tetrachlorophenol	U	<0.000521	<0.00922	<0.000521	mg/L	0.922	0.000521	0.01	0.000565
2-Naphthylamine	U	<0.000644	<0.00461	<0.000644	mg/L	0.922	0.000644	0.005	0.000699
Fluorene	U	<0.000597	<0.00461	<0.000597	mg/L	0.922	0.000597	0.005	0.000648
4-Chlorophenyl-phenylether	U	<0.000571	<0.00461	<0.000571	mg/L	0.922	0.000571	0.005	0.000619
Diethylphthalate	U	<0.000763	<0.00461	<0.000763	mg/L	0.922	0.000763	0.005	0.000828
4-Nitroaniline	U	<0.000647	<0.00461	<0.000647	mg/L	0.922	0.000647	0.005	0.000702
Diphenylhydrazine	U	<0.000606	<0.00461	<0.000606	mg/L	0.922	0.000606	0.005	0.000657
4,6-Dinitro-2-methylphenol	U	<0.00182	<0.00461	<0.00182	mg/L	0.922	0.00182	0.005	0.00198
Diphenylamine	U	<0.000406	<0.00461	<0.000406	mg/L	0.922	0.000406	0.005	0.00044
4-Bromophenyl-phenylether	U	<0.000507	<0.00461	<0.000507	mg/L	0.922	0.000507	0.005	0.00055
Phenacetin	U	<0.000558	<0.00461	<0.000558	mg/L	0.922	0.000558	0.005	0.000605
Hexachlorobenzene	U	<0.000466	<0.00461	<0.000466	mg/L	0.922	0.000466	0.005	0.000506
4-Aminobiphenyl	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
Pentachlorophenol	U	<0.000401	<0.00922	<0.000401	mg/L	0.922	0.000401	0.01	0.000435
Anthracene	U	<0.000395	<0.00461	<0.000395	mg/L	0.922	0.000395	0.005	0.000428
Pentachloronitrobenzene	U	<0.000376	<0.00461	<0.000376	mg/L	0.922	0.000376	0.005	0.000408
Pronamide	U	<0.000439	<0.00461	<0.000439	mg/L	0.922	0.000439	0.005	0.000476
Phenanthrene	U	<0.000505	<0.00461	<0.000505	mg/L	0.922	0.000505	0.005	0.000548
Di-n-butylphthalate	U	<0.000445	<0.00461	0.000544	mg/L	0.922	0.000445	0.005	0.000483
Fluoranthene	U	<0.000583	<0.00461	<0.000583	mg/L	0.922	0.000583	0.005	0.000632
Benzidine	U	<0.00219	<0.0230	<0.00219	mg/L	0.922	0.00219	0.025	0.00238
Pyrene	U	<0.000667	<0.00461	<0.000667	mg/L	0.922	0.000667	0.005	0.000723
p-Dimethylaminoazobenzene	U	<0.000832	<0.00461	<0.000832	mg/L	0.922	0.000832	0.005	0.000902
Butylbenzylphthalate	U	<0.000410	<0.00461	0.000452	mg/L	0.922	0.000410	0.005	0.000445
Benzo(a)anthracene	U	<0.000486	<0.00461	<0.000486	mg/L	0.922	0.000486	0.005	0.000527
3,3-Dichlorobenzidine	U	<0.00109	<0.00461	<0.00109	mg/L	0.922	0.00109	0.005	0.00118
Chrysene	U	<0.000588	<0.00461	<0.000588	mg/L	0.922	0.000588	0.005	0.000638
bis(2-ethylhexyl)phthalate	J	**0.00375**	<0.00461	<0.000517	mg/L	0.922	0.000517	0.005	0.000561
Di-n-octylphthalate	U	<0.00107	<0.00461	<0.00107	mg/L	0.922	0.00107	0.005	0.00116
Benzo(b)fluoranthene	U	<0.000810	<0.00461	<0.000810	mg/L	0.922	0.000810	0.005	0.000879

continued ...

sample 220904 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzo(k)fluoranthene	U	<0.000779	<0.00461	<0.000779	mg/L	0.922	0.000779	0.005	0.000845
7,12-Dimethylbenz(a)anthracene	U	<0.000940	<0.00461	<0.000940	mg/L	0.922	0.000940	0.005	0.00102
Benzo(a)pyrene	U	<0.00154	<0.00461	<0.00154	mg/L	0.922	0.00154	0.005	0.00167
3-Methylcholanthrene	U	<0.000837	<0.00461	<0.000837	mg/L	0.922	0.000837	0.005	0.000908
Dibenzo(a,j)acridine	U	<0.00119	<0.00461	<0.00119	mg/L	0.922	0.00119	0.005	0.00129
Indeno(1,2,3-cd)pyrene	U	<0.000795	<0.00461	<0.000795	mg/L	0.922	0.000795	0.005	0.000862
Dibenzo(a,h)anthracene	U	<0.000746	<0.00461	<0.000746	mg/L	0.922	0.000746	0.005	0.000809
Benzo(g,h,i)perylene	U	<0.000875	<0.00461	<0.000875	mg/L	0.922	0.000875	0.005	0.000949

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0183	mg/L	0.922	0.0800	23	10 - 53.1
Phenol-d5		0.0139	mg/L	0.922	0.0800	17	10 - 36.9
Nitrobenzene-d5		0.0364	mg/L	0.922	0.0800	46	23.8 - 108
2-Fluorobiphenyl		0.0400	mg/L	0.922	0.0800	50	15.9 - 127
2,4,6-Tribromophenol		0.0570	mg/L	0.922	0.0800	71	10 - 123
Terphenyl-d14		0.0601	mg/L	0.922	0.0800	75	17.2 - 160

Sample: 220904 - MW8

Laboratory:	Midland				
Analysis:	SO4 (IC)	Analytical Method:	E 300.0	Prep Method:	N/A
QC Batch:	67125	Date Analyzed:	2010-01-28	Analyzed By:	AR
Prep Batch:	57382	Sample Preparation:	2010-01-28	Prepared By:	AR

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Sulfate		**239**	**239**	<1.08	mg/L	5	1.08	0.5	0.217

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 6010B	Prep Method:	S 3010A
QC Batch:	67189	Date Analyzed:	2010-02-01	Analyzed By:	RR
Prep Batch:	57443	Sample Preparation:	2010-02-01	Prepared By:	KV
Laboratory:	Lubbock				
Analysis:	Total 8 Metals	Analytical Method:	S 7470A	Prep Method:	N/A
QC Batch:	67315	Date Analyzed:	2010-02-04	Analyzed By:	TP
Prep Batch:	57555	Sample Preparation:	2010-02-04	Prepared By:	TP

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Silver	U	<0.00131	<0.00500	<0.00131	mg/L	1	0.00131	0.005	0.00131
Total Arsenic	U	<0.00148	<0.0100	<0.00148	mg/L	1	0.00148	0.01	0.00148
Total Barium		**0.158**	**0.158**	<0.00730	mg/L	1	0.00730	0.01	0.0073
Total Cadmium	U	<0.000303	<0.00200	<0.000303	mg/L	1	0.000303	0.002	0.000303
Total Chromium		**0.00800**	**0.00800**	<0.000873	mg/L	1	0.000873	0.005	0.000873
Total Mercury	U	<0.0000388	<0.000200	<0.0000388	mg/L	1	0.0000388	0.0002	3.88e-05
Total Lead	U	<0.00494	<0.00500	<0.00494	mg/L	1	0.00494	0.005	0.00494
Total Selenium	U	<0.00508	<0.0200	<0.00508	mg/L	1	0.00508	0.02	0.00508

Sample: 220904 - MW8

Laboratory:	Lubbock				
Analysis:	Volatiles	Analytical Method:	S 8260B	Prep Method:	S 5030B
QC Batch:	67170	Date Analyzed:	2010-01-29	Analyzed By:	KB
Prep Batch:	57444	Sample Preparation:	2010-01-29	Prepared By:	KB

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Bromochloromethane	U	<0.370	<1.00	<0.370	µg/L	1	0.370	1	0.37
Dichlorodifluoromethane	U	<0.450	<1.00	<0.450	µg/L	1	0.450	1	0.45
Chloromethane (methyl chloride)	U	<0.590	<1.00	<0.590	µg/L	1	0.590	1	0.59
Vinyl Chloride	U	<0.690	<1.00	<0.690	µg/L	1	0.690	1	0.69
Bromomethane (methyl bromide)	U	<0.750	<5.00	<0.750	µg/L	1	0.750	5	0.75
Chloroethane	U	<0.570	<1.00	<0.570	µg/L	1	0.570	1	0.57
Trichlorofluoromethane	U	<0.470	<1.00	<0.470	µg/L	1	0.470	1	0.47
Acetone	U	<1.75	<10.0	<1.75	µg/L	1	1.75	10	1.75
Iodomethane (methyl iodide)	U	<0.320	<5.00	<0.320	µg/L	1	0.320	5	0.32
Carbon Disulfide	U	<0.250	<1.00	<0.250	µg/L	1	0.250	1	0.25
Acrylonitrile	U	<0.320	<1.00	<0.320	µg/L	1	0.320	1	0.32
2-Butanone (MEK)	U	<0.810	<5.00	<0.810	µg/L	1	0.810	5	0.81
4-Methyl-2-pentanone (MIBK)	U	<0.790	<5.00	<0.790	µg/L	1	0.790	5	0.79
2-Hexanone	U	<0.510	<5.00	<0.510	µg/L	1	0.510	5	0.51
trans 1,4-Dichloro-2-butene	U	<0.490	<10.0	<0.490	µg/L	1	0.490	10	0.49
1,1-Dichloroethene	U	<0.400	<1.00	<0.400	µg/L	1	0.400	1	0.4
Methylene chloride	U	<0.450	<5.00	0.550	µg/L	1	0.450	5	0.45
MTBE	U	<0.400	<1.00	<0.400	µg/L	1	0.400	1	0.4
trans-1,2-Dichloroethene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
1,1-Dichloroethane	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
cis-1,2-Dichloroethene	U	<0.200	<1.00	<0.200	µg/L	1	0.200	1	0.2
2,2-Dichloropropane	U	<0.420	<1.00	<0.420	µg/L	1	0.420	1	0.42
1,2-Dichloroethane (EDC)	U	<0.350	<1.00	<0.350	µg/L	1	0.350	1	0.35
Chloroform	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
1,1,1-Trichloroethane	U	<0.230	<1.00	<0.230	µg/L	1	0.230	1	0.23
1,1-Dichloropropene	U	<0.340	<1.00	<0.340	µg/L	1	0.340	1	0.34

continued ...

sample 220904 continued ...

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
Carbon Tetrachloride	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2-Dichloropropane	U	<0.360	<1.00	<0.360	µg/L	1	0.360	1	0.36
Trichloroethene (TCE)	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
Dibromomethane (methylene bromide)	U	<0.470	<1.00	<0.470	µg/L	1	0.470	1	0.47
Bromodichloromethane	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
2-Chloroethyl vinyl ether	U	<0.330	<5.00	<0.330	µg/L	1	0.330	5	0.33
cis-1,3-Dichloropropene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
trans-1,3-Dichloropropene	U	<0.380	<1.00	<0.380	µg/L	1	0.380	1	0.38
Toluene	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
1,1,2-Trichloroethane	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
1,3-Dichloropropane	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
Dibromochloromethane	U	<0.320	<1.00	<0.320	µg/L	1	0.320	1	0.32
1,2-Dibromoethane (EDB)	U	<0.340	<1.00	<0.340	µg/L	1	0.340	1	0.34
Tetrachloroethene (PCE)	[7] U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
Chlorobenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
1,1,1,2-Tetrachloroethane	U	<0.220	<1.00	<0.220	µg/L	1	0.220	1	0.22
Ethylbenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
m,p-Xylene	U	<0.540	<1.00	<0.540	µg/L	1	0.540	1	0.54
Bromoform	U	<0.230	<1.00	<0.230	µg/L	1	0.230	1	0.23
Styrene	U	<0.210	<1.00	<0.210	µg/L	1	0.210	1	0.21
o-Xylene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
1,1,2,2-Tetrachloroethane	U	<0.420	<1.00	<0.420	µg/L	1	0.420	1	0.42
2-Chlorotoluene	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
1,2,3-Trichloropropane	U	<0.430	<1.00	<0.430	µg/L	1	0.430	1	0.43
Isopropylbenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
Bromobenzene	U	<0.260	<1.00	<0.260	µg/L	1	0.260	1	0.26
n-Propylbenzene	U	<0.310	<1.00	<0.310	µg/L	1	0.310	1	0.31
1,3,5-Trimethylbenzene	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
tert-Butylbenzene	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2,4-Trimethylbenzene	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
1,4-Dichlorobenzene (para)	U	<0.240	<1.00	<0.240	µg/L	1	0.240	1	0.24
sec-Butylbenzene	U	<0.280	<1.00	<0.280	µg/L	1	0.280	1	0.28
1,3-Dichlorobenzene (meta)	U	<0.310	<1.00	<0.310	µg/L	1	0.310	1	0.31
p-Isopropyltoluene	U	<0.330	<1.00	<0.330	µg/L	1	0.330	1	0.33
4-Chlorotoluene	U	<0.290	<1.00	<0.290	µg/L	1	0.290	1	0.29
1,2-Dichlorobenzene (ortho)	U	<0.270	<1.00	<0.270	µg/L	1	0.270	1	0.27
n-Butylbenzene	U	<0.300	<1.00	<0.300	µg/L	1	0.300	1	0.3
1,2-Dibromo-3-chloropropane	U	<0.680	<5.00	<0.680	µg/L	1	0.680	5	0.68
1,2,3-Trichlorobenzene	U	<0.330	<5.00	<0.330	µg/L	1	0.330	5	0.33
1,2,4-Trichlorobenzene	U	<0.340	<5.00	<0.340	µg/L	1	0.340	5	0.34
Naphthalene	U	<0.280	<5.00	<0.280	µg/L	1	0.280	5	0.28
Hexachlorobutadiene	U	<0.540	<5.00	0.800	µg/L	1	0.540	5	0.54

[7] Concentration biased low.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		55.5	µg/L	1	50.0	111	88.3 - 117
Toluene-d8		51.3	µg/L	1	50.0	103	87.7 - 112
4-Bromofluorobenzene (4-BFB)		51.2	µg/L	1	50.0	102	84.6 - 114

Sample: 220904 - MW8

Laboratory: Lubbock
Analysis: Zn, Total — Analytical Method: S 6010B — Prep Method: S 3010A
QC Batch: 67189 — Date Analyzed: 2010-02-01 — Analyzed By: RR
Prep Batch: 57443 — Sample Preparation: 2010-02-01 — Prepared By: KV

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Total Zinc		**0.0260**	**0.0260**	<0.000465	mg/L	1	0.000465	0.005	0.000465

Method Blank (1)

QC Batch: 67108 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57387 — QC Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Hydroxide Alkalinity		<1.00	mg/L as CaCo3	1
Carbonate Alkalinity		<1.00	mg/L as CaCo3	1
Bicarbonate Alkalinity		<4.00	mg/L as CaCo3	4
Total Alkalinity		<4.00	mg/L as CaCo3	4

Method Blank (1)

QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — QC Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Chloride		<0.475	mg/L	0.475

Method Blank (1)

QC Batch: 67125 — Date Analyzed: 2010-01-28 — Analyzed By: AR
Prep Batch: 57382 — QC Preparation: 2010-01-28 — Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Fluoride		<0.0740	mg/L	0.074

Method Blank (1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Nitrate-N		<0.0180	mg/L	0.018

Method Blank (1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
Sulfate		<0.217	mg/L	0.217

Method Blank (1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Parameter	Flag	Result	Units	Reporting Limits
PO4-P		<0.0730	mg/L	0.073

Method Blank (1)

QC Batch: 67170 | Date Analyzed: 2010-01-29 | Analyzed By: KB
Prep Batch: 57444 | QC Preparation: 2010-01-29 | Prepared By: KB

Parameter	Flag	Result	Units	Reporting Limits
Bromochloromethane		<0.370	µg/L	0.37
Dichlorodifluoromethane		<0.450	µg/L	0.45
Chloromethane (methyl chloride)		<0.590	µg/L	0.59

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
Vinyl Chloride		<0.690	µg/L	0.69
Bromomethane (methyl bromide)		<0.750	µg/L	0.75
Chloroethane		<0.570	µg/L	0.57
Trichlorofluoromethane		<0.470	µg/L	0.47
Acetone		<1.75	µg/L	1.75
Iodomethane (methyl iodide)		<0.320	µg/L	0.32
Carbon Disulfide		<0.250	µg/L	0.25
Acrylonitrile		<0.320	µg/L	0.32
2-Butanone (MEK)		<0.810	µg/L	0.81
4-Methyl-2-pentanone (MIBK)		<0.790	µg/L	0.79
2-Hexanone		<0.510	µg/L	0.51
trans 1,4-Dichloro-2-butene		<0.490	µg/L	0.49
1,1-Dichloroethene		<0.400	µg/L	0.4
Methylene chloride		0.550	µg/L	0.45
MTBE		<0.400	µg/L	0.4
trans-1,2-Dichloroethene		<0.330	µg/L	0.33
1,1-Dichloroethane		<0.290	µg/L	0.29
cis-1,2-Dichloroethene		<0.200	µg/L	0.2
2,2-Dichloropropane		<0.420	µg/L	0.42
1,2-Dichloroethane (EDC)		<0.350	µg/L	0.35
Chloroform		<0.270	µg/L	0.27
1,1,1-Trichloroethane		<0.230	µg/L	0.23
1,1-Dichloropropene		<0.340	µg/L	0.34
Benzene		<0.240	µg/L	0.24
Carbon Tetrachloride		<0.300	µg/L	0.3
1,2-Dichloropropane		<0.360	µg/L	0.36
Trichloroethene (TCE)		<0.300	µg/L	0.3
Dibromomethane (methylene bromide)		<0.470	µg/L	0.47
Bromodichloromethane		<0.280	µg/L	0.28
2-Chloroethyl vinyl ether		<0.330	µg/L	0.33
cis-1,3-Dichloropropene		<0.330	µg/L	0.33
trans-1,3-Dichloropropene		<0.380	µg/L	0.38
Toluene		<0.270	µg/L	0.27
1,1,2-Trichloroethane		<0.280	µg/L	0.28
1,3-Dichloropropane		<0.270	µg/L	0.27
Dibromochloromethane		<0.320	µg/L	0.32
1,2-Dibromoethane (EDB)		<0.340	µg/L	0.34
Tetrachloroethene (PCE)		<0.280	µg/L	0.28
Chlorobenzene		<0.260	µg/L	0.26
1,1,1,2-Tetrachloroethane		<0.220	µg/L	0.22
Ethylbenzene		<0.260	µg/L	0.26
m,p-Xylene		<0.540	µg/L	0.54
Bromoform		<0.230	µg/L	0.23
Styrene		<0.210	µg/L	0.21
o-Xylene		<0.260	µg/L	0.26
1,1,2,2-Tetrachloroethane		<0.420	µg/L	0.42
2-Chlorotoluene		<0.240	µg/L	0.24

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
1,2,3-Trichloropropane		<0.430	µg/L	0.43
Isopropylbenzene		<0.260	µg/L	0.26
Bromobenzene		<0.260	µg/L	0.26
n-Propylbenzene		<0.310	µg/L	0.31
1,3,5-Trimethylbenzene		<0.270	µg/L	0.27
tert-Butylbenzene		<0.300	µg/L	0.3
1,2,4-Trimethylbenzene		<0.290	µg/L	0.29
1,4-Dichlorobenzene (para)		<0.240	µg/L	0.24
sec-Butylbenzene		<0.280	µg/L	0.28
1,3-Dichlorobenzene (meta)		<0.310	µg/L	0.31
p-Isopropyltoluene		<0.330	µg/L	0.33
4-Chlorotoluene		<0.290	µg/L	0.29
1,2-Dichlorobenzene (ortho)		<0.270	µg/L	0.27
n-Butylbenzene		<0.300	µg/L	0.3
1,2-Dibromo-3-chloropropane		<0.680	µg/L	0.68
1,2,3-Trichlorobenzene		<0.330	µg/L	0.33
1,2,4-Trichlorobenzene		<0.340	µg/L	0.34
Naphthalene		<0.280	µg/L	0.28
Hexachlorobutadiene		0.800	µg/L	0.54

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		54.9	µg/L	1	50.0	110	88.3 - 117
Toluene-d8		51.8	µg/L	1	50.0	104	87.7 - 112
4-Bromofluorobenzene (4-BFB)		51.3	µg/L	1	50.0	103	84.6 - 114

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Aluminum		<0.00404	mg/L	0.00404

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Cobalt		<0.000822	mg/L	0.000822

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Copper		<0.00205	mg/L	0.00205

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Iron		<0.00300	mg/L	0.003

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Manganese		<0.00170	mg/L	0.0017

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Molybdenum		<0.00356	mg/L	0.00356

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Nickel		<0.00274	mg/L	0.00274

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Zinc		<0.000465	mg/L	0.000465

Method Blank (1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Total Silver		<0.00131	mg/L	0.00131
Total Arsenic		<0.00148	mg/L	0.00148
Total Barium		<0.00730	mg/L	0.0073
Total Cadmium		<0.000303	mg/L	0.000303
Total Chromium		<0.000873	mg/L	0.000873
Total Lead		<0.00494	mg/L	0.00494
Total Selenium		<0.00508	mg/L	0.00508

Method Blank (1)

QC Batch: 67250 | Date Analyzed: 2010-02-02 | Analyzed By: KB
Prep Batch: 57515 | QC Preparation: 2010-02-02 | Prepared By: KB

Parameter	Flag	Result	Units	Reporting Limits
Bromochloromethane		<0.370	µg/L	0.37
Dichlorodifluoromethane		<0.450	µg/L	0.45
Chloromethane (methyl chloride)		<0.590	µg/L	0.59
Vinyl Chloride		<0.690	µg/L	0.69
Bromomethane (methyl bromide)		<0.750	µg/L	0.75
Chloroethane		<0.570	µg/L	0.57
Trichlorofluoromethane		<0.470	µg/L	0.47
Acetone		<1.75	µg/L	1.75
Iodomethane (methyl iodide)		<0.320	µg/L	0.32
Carbon Disulfide		<0.250	µg/L	0.25
Acrylonitrile		<0.320	µg/L	0.32
2-Butanone (MEK)		<0.810	µg/L	0.81
4-Methyl-2-pentanone (MIBK)		<0.790	µg/L	0.79
2-Hexanone		<0.510	µg/L	0.51
trans 1,4-Dichloro-2-butene		<0.490	µg/L	0.49
1,1-Dichloroethene		<0.400	µg/L	0.4
Methylene chloride		1.14	µg/L	0.45

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
MTBE		<0.400	µg/L	0.4
trans-1,2-Dichloroethene		<0.330	µg/L	0.33
1,1-Dichloroethane		<0.290	µg/L	0.29
cis-1,2-Dichloroethene		<0.200	µg/L	0.2
2,2-Dichloropropane		<0.420	µg/L	0.42
1,2-Dichloroethane (EDC)		<0.350	µg/L	0.35
Chloroform		<0.270	µg/L	0.27
1,1,1-Trichloroethane		<0.230	µg/L	0.23
1,1-Dichloropropene		<0.340	µg/L	0.34
Benzene		<0.240	µg/L	0.24
Carbon Tetrachloride		<0.300	µg/L	0.3
1,2-Dichloropropane		<0.360	µg/L	0.36
Trichloroethene (TCE)		<0.300	µg/L	0.3
Dibromomethane (methylene bromide)		<0.470	µg/L	0.47
Bromodichloromethane		<0.280	µg/L	0.28
2-Chloroethyl vinyl ether		<0.330	µg/L	0.33
cis-1,3-Dichloropropene		<0.330	µg/L	0.33
trans-1,3-Dichloropropene		<0.380	µg/L	0.38
Toluene		<0.270	µg/L	0.27
1,1,2-Trichloroethane		<0.280	µg/L	0.28
1,3-Dichloropropane		<0.270	µg/L	0.27
Dibromochloromethane		<0.320	µg/L	0.32
1,2-Dibromoethane (EDB)		<0.340	µg/L	0.34
Tetrachloroethene (PCE)		<0.280	µg/L	0.28
Chlorobenzene		<0.260	µg/L	0.26
1,1,1,2-Tetrachloroethane		<0.220	µg/L	0.22
Ethylbenzene		<0.260	µg/L	0.26
m,p-Xylene		<0.540	µg/L	0.54
Bromoform		<0.230	µg/L	0.23
Styrene		<0.210	µg/L	0.21
o-Xylene		<0.260	µg/L	0.26
1,1,2,2-Tetrachloroethane		<0.420	µg/L	0.42
2-Chlorotoluene		<0.240	µg/L	0.24
1,2,3-Trichloropropane		<0.430	µg/L	0.43
Isopropylbenzene		<0.260	µg/L	0.26
Bromobenzene		<0.260	µg/L	0.26
n-Propylbenzene		<0.310	µg/L	0.31
1,3,5-Trimethylbenzene		<0.270	µg/L	0.27
tert-Butylbenzene		<0.300	µg/L	0.3
1,2,4-Trimethylbenzene		<0.290	µg/L	0.29
1,4-Dichlorobenzene (para)		<0.240	µg/L	0.24
sec-Butylbenzene		<0.280	µg/L	0.28
1,3-Dichlorobenzene (meta)		<0.310	µg/L	0.31
p-Isopropyltoluene		<0.330	µg/L	0.33
4-Chlorotoluene		<0.290	µg/L	0.29
1,2-Dichlorobenzene (ortho)		<0.270	µg/L	0.27
n-Butylbenzene		<0.300	µg/L	0.3

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
1,2-Dibromo-3-chloropropane		<0.680	µg/L	0.68
1,2,3-Trichlorobenzene		<0.330	µg/L	0.33
1,2,4-Trichlorobenzene		<0.340	µg/L	0.34
Naphthalene		<0.280	µg/L	0.28
Hexachlorobutadiene		<0.540	µg/L	0.54

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Dibromofluoromethane		56.4	µg/L	1	50.0	113	88.3 - 117
Toluene-d8		50.8	µg/L	1	50.0	102	87.7 - 112
4-Bromofluorobenzene (4-BFB)		52.9	µg/L	1	50.0	106	84.6 - 114

Method Blank (1)

QC Batch: 67315 | Date Analyzed: 2010-02-04 | Analyzed By: TP
Prep Batch: 57555 | QC Preparation: 2010-02-04 | Prepared By: TP

Parameter	Flag	Result	Units	Reporting Limits
Total Mercury		<0.0000388	mg/L	3.88e-05

Method Blank (1)

QC Batch: 67319 | Date Analyzed: 2010-02-04 | Analyzed By: MN
Prep Batch: 57567 | QC Preparation: 2010-02-01 | Prepared By: MN

Parameter	Flag	Result	Units	Reporting Limits
Pyridine		<0.000608	mg/L	0.000608
N-Nitrosodimethylamine		<0.000552	mg/L	0.000552
2-Picoline		<0.000408	mg/L	0.000408
Methyl methanesulfonate		<0.000350	mg/L	0.00035
Ethyl methanesulfonate		<0.000448	mg/L	0.000448
Phenol		<0.000509	mg/L	0.000509
Aniline		<0.000691	mg/L	0.000691
bis(2-chloroethyl)ether		<0.000440	mg/L	0.00044
2-Chlorophenol		<0.000537	mg/L	0.000537
1,3-Dichlorobenzene (meta)		<0.000441	mg/L	0.000441
1,4-Dichlorobenzene (para)		<0.000440	mg/L	0.00044
Benzyl alcohol		<0.000538	mg/L	0.000538
1,2-Dichlorobenzene (ortho)		<0.000443	mg/L	0.000443
2-Methylphenol		<0.000726	mg/L	0.000726
bis(2-chloroisopropyl)ether		<0.000503	mg/L	0.000503
4-Methylphenol / 3-Methylphenol		<0.000512	mg/L	0.000512

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
N-Nitrosodi-n-propylamine		<0.000732	mg/L	0.000732
Hexachloroethane		<0.000507	mg/L	0.000507
Acetophenone		<0.000424	mg/L	0.000424
Nitrobenzene		<0.000465	mg/L	0.000465
N-Nitrosopiperidine		<0.000443	mg/L	0.000443
Isophorone		<0.000619	mg/L	0.000619
2-Nitrophenol		<0.000406	mg/L	0.000406
2,4-Dimethylphenol		<0.000477	mg/L	0.000477
bis(2-chloroethoxy)methane		<0.000432	mg/L	0.000432
2,4-Dichlorophenol		<0.000400	mg/L	0.0004
1,2,4-Trichlorobenzene		<0.000404	mg/L	0.000404
Benzoic acid		<0.00163	mg/L	0.00163
Naphthalene		<0.000489	mg/L	0.000489
a,a-Dimethylphenethylamine		<0.00129	mg/L	0.00129
4-Chloroaniline		<0.000378	mg/L	0.000378
2,6-Dichlorophenol		<0.000484	mg/L	0.000484
Hexachlorobutadiene		<0.000517	mg/L	0.000517
N-Nitroso-di-n-butylamine		<0.000656	mg/L	0.000656
4-Chloro-3-methylphenol		<0.000522	mg/L	0.000522
2-Methylnaphthalene		<0.000423	mg/L	0.000423
1-Methylnaphthalene		<0.000495	mg/L	0.000495
1,2,4,5-Tetrachlorobenzene		<0.000612	mg/L	0.000612
Hexachlorocyclopentadiene		<0.000558	mg/L	0.000558
2,4,6-Trichlorophenol		<0.000794	mg/L	0.000794
2,4,5-Trichlorophenol		<0.000834	mg/L	0.000834
2-Chloronaphthalene		<0.000416	mg/L	0.000416
1-Chloronaphthalene		<0.000476	mg/L	0.000476
2-Nitroaniline		<0.000760	mg/L	0.00076
Dimethylphthalate		<0.000643	mg/L	0.000643
Acenaphthylene		<0.000586	mg/L	0.000586
2,6-Dinitrotoluene		<0.000640	mg/L	0.00064
3-Nitroaniline		<0.000721	mg/L	0.000721
Acenaphthene		<0.000423	mg/L	0.000423
2,4-Dinitrophenol		<0.000220	mg/L	0.00022
Dibenzofuran		<0.000408	mg/L	0.000408
Pentachlorobenzene		<0.000571	mg/L	0.000571
4-Nitrophenol		<0.00185	mg/L	0.00185
2,4-Dinitrotoluene		<0.000911	mg/L	0.000911
1-Naphthylamine		<0.000688	mg/L	0.000688
2,3,4,6-Tetrachlorophenol		<0.000565	mg/L	0.000565
2-Naphthylamine		<0.000699	mg/L	0.000699
Fluorene		<0.000648	mg/L	0.000648
4-Chlorophenyl-phenylether		<0.000619	mg/L	0.000619
Diethylphthalate		<0.000828	mg/L	0.000828
4-Nitroaniline		<0.000702	mg/L	0.000702
Diphenylhydrazine		<0.000657	mg/L	0.000657
4,6-Dinitro-2-methylphenol		<0.00198	mg/L	0.00198

continued ...

method blank continued ...

Parameter	Flag	Result	Units	Reporting Limits
Diphenylamine		<0.000440	mg/L	0.00044
4-Bromophenyl-phenylether		<0.000550	mg/L	0.00055
Phenacetin		<0.000605	mg/L	0.000605
Hexachlorobenzene		<0.000506	mg/L	0.000506
4-Aminobiphenyl		<0.000527	mg/L	0.000527
Pentachlorophenol		<0.000435	mg/L	0.000435
Anthracene		<0.000428	mg/L	0.000428
Pentachloronitrobenzene		<0.000408	mg/L	0.000408
Pronamide		<0.000476	mg/L	0.000476
Phenanthrene		<0.000548	mg/L	0.000548
Di-n-butylphthalate		0.000590	mg/L	0.000483
Fluoranthene		<0.000632	mg/L	0.000632
Benzidine		<0.00238	mg/L	0.00238
Pyrene		<0.000723	mg/L	0.000723
p-Dimethylaminoazobenzene		<0.000902	mg/L	0.000902
Butylbenzylphthalate		0.000490	mg/L	0.000445
Benzo(a)anthracene		<0.000527	mg/L	0.000527
3,3-Dichlorobenzidine		<0.00118	mg/L	0.00118
Chrysene		<0.000638	mg/L	0.000638
bis(2-ethylhexyl)phthalate		<0.000561	mg/L	0.000561
Di-n-octylphthalate		<0.00116	mg/L	0.00116
Benzo(b)fluoranthene		<0.000879	mg/L	0.000879
Benzo(k)fluoranthene		<0.000845	mg/L	0.000845
7,12-Dimethylbenz(a)anthracene		<0.00102	mg/L	0.00102
Benzo(a)pyrene		<0.00167	mg/L	0.00167
3-Methylcholanthrene		<0.000908	mg/L	0.000908
Dibenzo(a,j)acridine		<0.00129	mg/L	0.00129
Indeno(1,2,3-cd)pyrene		<0.000862	mg/L	0.000862
Dibenzo(a,h)anthracene		<0.000809	mg/L	0.000809
Benzo(g,h,i)perylene		<0.000949	mg/L	0.000949

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
2-Fluorophenol		0.0259	mg/L	1	0.0800	32	10 - 53.1
Phenol-d5		0.0170	mg/L	1	0.0800	21	10 - 36.9
Nitrobenzene-d5		0.0410	mg/L	1	0.0800	51	23.8 - 108
2-Fluorobiphenyl		0.0438	mg/L	1	0.0800	55	15.9 - 127
2,4,6-Tribromophenol		0.0594	mg/L	1	0.0800	74	10 - 123
Terphenyl-d14		0.0656	mg/L	1	0.0800	82	17.2 - 160

Method Blank (1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Dissolved Calcium		<0.117	mg/L	0.117

Method Blank (1)

QC Batch: 67424 Date Analyzed: 2010-02-10 Analyzed By: TP
Prep Batch: 57630 QC Preparation: 2010-02-08 Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Dissolved Potassium		<0.172	mg/L	0.172

Method Blank (1)

QC Batch: 67424 Date Analyzed: 2010-02-10 Analyzed By: TP
Prep Batch: 57630 QC Preparation: 2010-02-08 Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Dissolved Magnesium		<0.160	mg/L	0.16

Method Blank (1)

QC Batch: 67424 Date Analyzed: 2010-02-10 Analyzed By: TP
Prep Batch: 57630 QC Preparation: 2010-02-08 Prepared By: KV

Parameter	Flag	Result	Units	Reporting Limits
Dissolved Sodium		<0.0500	mg/L	0.05

Duplicate (1) Duplicated Sample: 220904

QC Batch: 67108 Date Analyzed: 2010-01-28 Analyzed By: AR
Prep Batch: 57387 QC Preparation: 2010-01-28 Prepared By: AR

Param	Duplicate Result	Sample Result	Units	Dilution	RPD	RPD Limit
Hydroxide Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Carbonate Alkalinity	<1.00	<1.00	mg/L as CaCo3	1	0	20
Bicarbonate Alkalinity	283	293	mg/L as CaCo3	1	4	20
Total Alkalinity	283	293	mg/L as CaCo3	1	4	20

Laboratory Control Spike (LCS-1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride	23.7	mg/L	1	25.0	<0.475	95	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride	23.8	mg/L	1	25.0	<0.475	95	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride	4.61	mg/L	1	5.00	<0.0740	92	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride	4.62	mg/L	1	5.00	<0.0740	92	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	4.55	mg/L	1	5.00	<0.0180	91	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N	4.52	mg/L	1	5.00	<0.0180	90	90 - 110	1	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	25.4	mg/L	1	25.0	<0.217	102	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	25.0	mg/L	1	25.0	<0.217	100	90 - 110	2	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
PO4-P	22.8	mg/L	1	25.0	<0.0730	91	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
PO4-P	22.7	mg/L	1	25.0	<0.0730	91	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67170 | Date Analyzed: 2010-01-29 | Analyzed By: KB
Prep Batch: 57444 | QC Preparation: 2010-01-29 | Prepared By: KB

Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane		52.4	µg/L	1	50.0	<0.370	105	72.8 - 128
Dichlorodifluoromethane	[8]	81.8	µg/L	1	50.0	<0.450	164	50.7 - 144
Chloromethane (methyl chloride)		63.6	µg/L	1	50.0	<0.590	127	55.1 - 143
Vinyl Chloride		59.4	µg/L	1	50.0	<0.690	119	52 - 144
Bromomethane (methyl bromide)		61.8	µg/L	1	50.0	<0.750	124	57.9 - 150
Chloroethane		57.7	µg/L	1	50.0	<0.570	115	55 - 149
Trichlorofluoromethane		72.4	µg/L	1	50.0	<0.470	145	48.5 - 162
Acetone		53.8	µg/L	1	50.0	<1.75	108	32.3 - 196

continued ...

[8]Spike recovery outside control limits. Concentration biased high. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Iodomethane (methyl iodide) [9]	69.9	µg/L	1	50.0	<0.320	140	72.6 - 134
Carbon Disulfide	61.0	µg/L	1	50.0	<0.250	122	65.6 - 135
Acrylonitrile	49.1	µg/L	1	50.0	<0.320	98	68.4 - 134
2-Butanone (MEK)	42.1	µg/L	1	50.0	<0.810	84	61.8 - 133
4-Methyl-2-pentanone (MIBK)	50.2	µg/L	1	50.0	<0.790	100	68.4 - 132
2-Hexanone	53.0	µg/L	1	50.0	<0.510	106	47.4 - 154
trans 1,4-Dichloro-2-butene	60.7	µg/L	1	50.0	<0.490	121	52.9 - 152
1,1-Dichloroethene	52.3	µg/L	1	50.0	<0.400	105	70.3 - 130
Methylene chloride	49.4	µg/L	1	50.0	0.55	99	72.4 - 132
MTBE	52.1	µg/L	1	50.0	<0.400	104	77.3 - 124
trans-1,2-Dichloroethene	51.8	µg/L	1	50.0	<0.330	104	71 - 128
1,1-Dichloroethane	51.8	µg/L	1	50.0	<0.290	104	73.2 - 128
cis-1,2-Dichloroethene	50.7	µg/L	1	50.0	<0.200	101	71.6 - 129
2,2-Dichloropropane	61.7	µg/L	1	50.0	<0.420	123	65.4 - 134
1,2-Dichloroethane (EDC)	56.1	µg/L	1	50.0	<0.350	112	70 - 134
Chloroform	53.8	µg/L	1	50.0	<0.270	108	75.8 - 126
1,1,1-Trichloroethane	59.3	µg/L	1	50.0	<0.230	119	74.4 - 133
1,1-Dichloropropene	53.8	µg/L	1	50.0	<0.340	108	78.4 - 123
Benzene	51.3	µg/L	1	50.0	<0.240	103	77.3 - 121
Carbon Tetrachloride	64.9	µg/L	1	50.0	<0.300	130	56.8 - 168
1,2-Dichloropropane	52.6	µg/L	1	50.0	<0.360	105	75 - 126
Trichloroethene (TCE)	53.9	µg/L	1	50.0	<0.300	108	72.5 - 130
Dibromomethane (methylene bromide)	54.8	µg/L	1	50.0	<0.470	110	80.2 - 120
Bromodichloromethane	58.8	µg/L	1	50.0	<0.280	118	76.5 - 131
2-Chloroethyl vinyl ether	48.3	µg/L	1	50.0	<0.330	97	60 - 130
cis-1,3-Dichloropropene	58.1	µg/L	1	50.0	<0.330	116	81.2 - 124
trans-1,3-Dichloropropene	60.9	µg/L	1	50.0	<0.380	122	75.9 - 129
Toluene	55.7	µg/L	1	50.0	<0.270	111	79.1 - 122
1,1,2-Trichloroethane	46.5	µg/L	1	50.0	<0.280	93	82.2 - 115
1,3-Dichloropropane	48.2	µg/L	1	50.0	<0.270	96	82.1 - 116
Dibromochloromethane	54.9	µg/L	1	50.0	<0.320	110	80.6 - 131
1,2-Dibromoethane (EDB)	51.0	µg/L	1	50.0	<0.340	102	82.8 - 117
Tetrachloroethene (PCE)	42.1	µg/L	1	50.0	<0.280	84	20.1 - 178
Chlorobenzene	51.9	µg/L	1	50.0	<0.260	104	79.8 - 120
1,1,1,2-Tetrachloroethane	56.9	µg/L	1	50.0	<0.220	114	81.5 - 125
Ethylbenzene	54.0	µg/L	1	50.0	<0.260	108	82.4 - 121
m,p-Xylene	109	µg/L	1	100	<0.540	109	80.9 - 123
Bromoform	56.4	µg/L	1	50.0	<0.230	113	73.7 - 135
Styrene	52.2	µg/L	1	50.0	<0.210	104	82.6 - 122
o-Xylene	51.6	µg/L	1	50.0	<0.260	103	82.2 - 123
1,1,2,2-Tetrachloroethane	49.4	µg/L	1	50.0	<0.420	99	63.8 - 132
2-Chlorotoluene	53.6	µg/L	1	50.0	<0.240	107	83.2 - 116
1,2,3-Trichloropropane	49.8	µg/L	1	50.0	<0.430	100	81 - 113
Isopropylbenzene	52.3	µg/L	1	50.0	<0.260	105	82.3 - 120
Bromobenzene	52.5	µg/L	1	50.0	<0.260	105	80.6 - 116
n-Propylbenzene	54.2	µg/L	1	50.0	<0.310	108	82.4 - 117

continued ...

[9]Spike recovery outside control limits. Concentration biased high. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,3,5-Trimethylbenzene	53.6	µg/L	1	50.0	<0.270	107	83.3 - 118
tert-Butylbenzene	54.7	µg/L	1	50.0	<0.300	109	81.8 - 120
1,2,4-Trimethylbenzene	53.8	µg/L	1	50.0	<0.290	108	83.7 - 118
1,4-Dichlorobenzene (para)	52.0	µg/L	1	50.0	<0.240	104	76.8 - 117
sec-Butylbenzene	53.8	µg/L	1	50.0	<0.280	108	81.2 - 120
1,3-Dichlorobenzene (meta)	52.5	µg/L	1	50.0	<0.310	105	77.7 - 117
p-Isopropyltoluene	54.4	µg/L	1	50.0	<0.330	109	83 - 120
4-Chlorotoluene	54.4	µg/L	1	50.0	<0.290	109	83.8 - 116
1,2-Dichlorobenzene (ortho)	51.9	µg/L	1	50.0	<0.270	104	77.9 - 119
n-Butylbenzene	53.4	µg/L	1	50.0	<0.300	107	81.2 - 118
1,2-Dibromo-3-chloropropane	43.9	µg/L	1	50.0	<0.680	88	70.4 - 125
1,2,3-Trichlorobenzene	48.3	µg/L	1	50.0	<0.330	97	64.8 - 132
1,2,4-Trichlorobenzene	50.3	µg/L	1	50.0	<0.340	101	73.8 - 121
Naphthalene	45.5	µg/L	1	50.0	<0.280	91	67.2 - 128
Hexachlorobutadiene	56.0	µg/L	1	50.0	0.8	112	71.7 - 133

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane		49.9	µg/L	1	50.0	<0.370	100	72.8 - 128	5	20
Dichlorodifluoromethane		71.9	µg/L	1	50.0	<0.450	144	50.7 - 144	13	20
Chloromethane (methyl chloride)		57.6	µg/L	1	50.0	<0.590	115	55.1 - 143	10	20
Vinyl Chloride		54.8	µg/L	1	50.0	<0.690	110	52 - 144	8	20
Bromomethane (methyl bromide)	[10]	50.1	µg/L	1	50.0	<0.750	100	57.9 - 150	21	20
Chloroethane	[11]	46.4	µg/L	1	50.0	<0.570	93	55 - 149	22	20
Trichlorofluoromethane		64.9	µg/L	1	50.0	<0.470	130	48.5 - 162	11	20
Acetone		51.6	µg/L	1	50.0	<1.75	103	32.3 - 196	4	20
Iodomethane (methyl iodide)		62.7	µg/L	1	50.0	<0.320	125	72.6 - 134	11	20
Carbon Disulfide		56.1	µg/L	1	50.0	<0.250	112	65.6 - 135	8	20
Acrylonitrile		46.2	µg/L	1	50.0	<0.320	92	68.4 - 134	6	20
2-Butanone (MEK)		41.3	µg/L	1	50.0	<0.810	83	61.8 - 133	2	20
4-Methyl-2-pentanone (MIBK)		46.6	µg/L	1	50.0	<0.790	93	68.4 - 132	7	20
2-Hexanone		48.3	µg/L	1	50.0	<0.510	97	47.4 - 154	9	20
trans 1,4-Dichloro-2-butene		53.0	µg/L	1	50.0	<0.490	106	52.9 - 152	14	20
1,1-Dichloroethene		49.2	µg/L	1	50.0	<0.400	98	70.3 - 130	6	20
Methylene chloride		46.7	µg/L	1	50.0	0.55	93	72.4 - 132	6	20
MTBE		48.3	µg/L	1	50.0	<0.400	97	77.3 - 124	8	20
trans-1,2-Dichloroethene		48.2	µg/L	1	50.0	<0.330	96	71 - 128	7	20
1,1-Dichloroethane		49.2	µg/L	1	50.0	<0.290	98	73.2 - 128	5	20
cis-1,2-Dichloroethene		48.5	µg/L	1	50.0	<0.200	97	71.6 - 129	4	20
2,2-Dichloropropane		57.3	µg/L	1	50.0	<0.420	115	65.4 - 134	7	20
1,2-Dichloroethane (EDC)		53.7	µg/L	1	50.0	<0.350	107	70 - 134	4	20
Chloroform		51.6	µg/L	1	50.0	<0.270	103	75.8 - 126	4	20
1,1,1-Trichloroethane		54.9	µg/L	1	50.0	<0.230	110	74.4 - 133	8	20
1,1-Dichloropropene		52.5	µg/L	1	50.0	<0.340	105	78.4 - 123	2	20

continued ...

[10] RPD outside RPD limits. •
[11] RPD outside RPD limits. •

control spikes continued ...

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	49.8	µg/L	1	50.0	<0.240	100	77.3 - 121	3	20
Carbon Tetrachloride	61.3	µg/L	1	50.0	<0.300	123	56.8 - 168	6	20
1,2-Dichloropropane	50.7	µg/L	1	50.0	<0.360	101	75 - 126	4	20
Trichloroethene (TCE)	52.8	µg/L	1	50.0	<0.300	106	72.5 - 130	2	20
Dibromomethane (methylene bromide)	52.9	µg/L	1	50.0	<0.470	106	80.2 - 120	4	20
Bromodichloromethane	56.6	µg/L	1	50.0	<0.280	113	76.5 - 131	4	20
2-Chloroethyl vinyl ether	46.0	µg/L	1	50.0	<0.330	92	60 - 130	5	20
cis-1,3-Dichloropropene	53.4	µg/L	1	50.0	<0.330	107	81.2 - 124	8	20
trans-1,3-Dichloropropene	54.8	µg/L	1	50.0	<0.380	110	75.9 - 129	10	20
Toluene	51.5	µg/L	1	50.0	<0.270	103	79.1 - 122	8	20
1,1,2-Trichloroethane	48.4	µg/L	1	50.0	<0.280	97	82.2 - 115	4	20
1,3-Dichloropropane	49.8	µg/L	1	50.0	<0.270	100	82.1 - 116	3	20
Dibromochloromethane	56.8	µg/L	1	50.0	<0.320	114	80.6 - 131	3	20
1,2-Dibromoethane (EDB)	55.9	µg/L	1	50.0	<0.340	112	82.8 - 117	9	20
Tetrachloroethene (PCE)	47.2	µg/L	1	50.0	<0.280	94	20.1 - 178	11	20
Chlorobenzene	50.2	µg/L	1	50.0	<0.260	100	79.8 - 120	3	20
1,1,1,2-Tetrachloroethane	56.9	µg/L	1	50.0	<0.220	114	81.5 - 125	0	20
Ethylbenzene	51.3	µg/L	1	50.0	<0.260	103	82.4 - 121	5	20
m,p-Xylene	105	µg/L	1	100	<0.540	105	80.9 - 123	4	20
Bromoform	59.5	µg/L	1	50.0	<0.230	119	73.7 - 135	5	20
Styrene	55.2	µg/L	1	50.0	<0.210	110	82.6 - 122	6	20
o-Xylene	54.7	µg/L	1	50.0	<0.260	109	82.2 - 123	6	20
1,1,2,2-Tetrachloroethane	48.3	µg/L	1	50.0	<0.420	97	63.8 - 132	2	20
2-Chlorotoluene	50.9	µg/L	1	50.0	<0.240	102	83.2 - 116	5	20
1,2,3-Trichloropropane	48.9	µg/L	1	50.0	<0.430	98	81 - 113	2	20
Isopropylbenzene	51.5	µg/L	1	50.0	<0.260	103	82.3 - 120	2	20
Bromobenzene	49.9	µg/L	1	50.0	<0.260	100	80.6 - 116	5	20
n-Propylbenzene	55.9	µg/L	1	50.0	<0.310	112	82.4 - 117	3	20
1,3,5-Trimethylbenzene	52.2	µg/L	1	50.0	<0.270	104	83.3 - 118	3	20
tert-Butylbenzene	53.2	µg/L	1	50.0	<0.300	106	81.8 - 120	3	20
1,2,4-Trimethylbenzene	56.0	µg/L	1	50.0	<0.290	112	83.7 - 118	4	20
1,4-Dichlorobenzene (para)	50.5	µg/L	1	50.0	<0.240	101	76.8 - 117	3	20
sec-Butylbenzene	51.8	µg/L	1	50.0	<0.280	104	81.2 - 120	4	20
1,3-Dichlorobenzene (meta)	51.3	µg/L	1	50.0	<0.310	103	77.7 - 117	2	20
p-Isopropyltoluene	52.8	µg/L	1	50.0	<0.330	106	83 - 120	3	20
4-Chlorotoluene	51.1	µg/L	1	50.0	<0.290	102	83.8 - 116	6	20
1,2-Dichlorobenzene (ortho)	51.0	µg/L	1	50.0	<0.270	102	77.9 - 119	2	20
n-Butylbenzene	50.7	µg/L	1	50.0	<0.300	101	81.2 - 118	5	20
1,2-Dibromo-3-chloropropane	44.6	µg/L	1	50.0	<0.680	89	70.4 - 125	2	20
1,2,3-Trichlorobenzene	47.2	µg/L	1	50.0	<0.330	94	64.8 - 132	2	20
1,2,4-Trichlorobenzene	49.6	µg/L	1	50.0	<0.340	99	73.8 - 121	1	20
Naphthalene	44.9	µg/L	1	50.0	<0.280	90	67.2 - 128	1	20
Hexachlorobutadiene	57.2	µg/L	1	50.0	0.8	114	71.7 - 133	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

continued ...

control spikes continued ...

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane	53.8	52.5	µg/L	1	50.0	108	105	87.7 - 114
Toluene-d8	48.3	50.9	µg/L	1	50.0	97	102	89.7 - 112
4-Bromofluorobenzene (4-BFB)	52.0	56.5	µg/L	1	50.0	104	113	86.7 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	0.911	mg/L	1	1.00	<0.00404	91	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum	0.956	mg/L	1	1.00	<0.00404	96	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt	0.244	mg/L	1	0.250	<0.000822	98	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cobalt	0.256	mg/L	1	0.250	<0.000822	102	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.119	mg/L	1	0.125	<0.00205	95	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper	0.126	mg/L	1	0.125	<0.00205	101	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.480	mg/L	1	0.500	<0.00300	96	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	0.501	mg/L	1	0.500	<0.00300	100	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.238	mg/L	1	0.250	<0.00170	95	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.245	mg/L	1	0.250	<0.00170	98	85 - 115	3	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum	0.461	mg/L	1	0.500	<0.00356	92	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Molybdenum	0.488	mg/L	1	0.500	<0.00356	98	85 - 115	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel	0.236	mg/L	1	0.250	<0.00274	94	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Nickel	0.248	mg/L	1	0.250	<0.00274	99	85 - 115	5	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.236	mg/L	1	0.250	<0.000465	94	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	0.245	mg/L	1	0.250	<0.000465	98	85 - 115	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.118	mg/L	1	0.125	<0.00131	94	85 - 115
Total Arsenic	0.466	mg/L	1	0.500	<0.00148	93	85 - 115
Total Barium	0.926	mg/L	1	1.00	<0.00730	93	85 - 115
Total Cadmium	0.242	mg/L	1	0.250	<0.000303	97	85 - 115
Total Chromium	0.0950	mg/L	1	0.100	<0.000873	95	85 - 115
Total Lead	0.464	mg/L	1	0.500	<0.00494	93	85 - 115
Total Selenium	0.444	mg/L	1	0.500	<0.00508	89	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.121	mg/L	1	0.125	<0.00131	97	85 - 115	2	20
Total Arsenic	0.487	mg/L	1	0.500	<0.00148	97	85 - 115	4	20
Total Barium	0.974	mg/L	1	1.00	<0.00730	97	85 - 115	5	20
Total Cadmium	0.254	mg/L	1	0.250	<0.000303	102	85 - 115	5	20
Total Chromium	0.0980	mg/L	1	0.100	<0.000873	98	85 - 115	3	20
Total Lead	0.487	mg/L	1	0.500	<0.00494	97	85 - 115	5	20
Total Selenium	0.446	mg/L	1	0.500	<0.00508	89	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67250 | Date Analyzed: 2010-02-02 | Analyzed By: KB
Prep Batch: 57515 | QC Preparation: 2010-02-02 | Prepared By: KB

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	49.3	µg/L	1	50.0	<0.370	99	72.8 - 128
Dichlorodifluoromethane	70.6	µg/L	1	50.0	<0.450	141	50.7 - 144
Chloromethane (methyl chloride)	60.6	µg/L	1	50.0	<0.590	121	55.1 - 143
Vinyl Chloride	57.4	µg/L	1	50.0	<0.690	115	52 - 144
Bromomethane (methyl bromide)	55.1	µg/L	1	50.0	<0.750	110	57.9 - 150
Chloroethane	54.0	µg/L	1	50.0	<0.570	108	55 - 149
Trichlorofluoromethane	71.3	µg/L	1	50.0	<0.470	143	48.5 - 162
Acetone	46.4	µg/L	1	50.0	<1.75	93	32.3 - 196
Iodomethane (methyl iodide)	63.7	µg/L	1	50.0	<0.320	127	72.6 - 134
Carbon Disulfide	54.5	µg/L	1	50.0	<0.250	109	65.6 - 135
Acrylonitrile	45.5	µg/L	1	50.0	<0.320	91	68.4 - 134
2-Butanone (MEK)	33.7	µg/L	1	50.0	<0.810	67	61.8 - 133
4-Methyl-2-pentanone (MIBK)	44.5	µg/L	1	50.0	<0.790	89	68.4 - 132
2-Hexanone	41.9	µg/L	1	50.0	<0.510	84	47.4 - 154
trans 1,4-Dichloro-2-butene	64.8	µg/L	1	50.0	<0.490	130	52.9 - 152
1,1-Dichloroethene	52.6	µg/L	1	50.0	<0.400	105	70.3 - 130
Methylene chloride	45.4	µg/L	1	50.0	1.14	91	72.4 - 132
MTBE	48.6	µg/L	1	50.0	<0.400	97	77.3 - 124
trans-1,2-Dichloroethene	46.5	µg/L	1	50.0	<0.330	93	71 - 128

continued ...

control spikes continued ...

Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1-Dichloroethane		48.2	µg/L	1	50.0	<0.290	96	73.2 - 128
cis-1,2-Dichloroethene		46.2	µg/L	1	50.0	<0.200	92	71.6 - 129
2,2-Dichloropropane		59.5	µg/L	1	50.0	<0.420	119	65.4 - 134
1,2-Dichloroethane (EDC)		54.9	µg/L	1	50.0	<0.350	110	70 - 134
Chloroform		51.3	µg/L	1	50.0	<0.270	103	75.8 - 126
1,1,1-Trichloroethane		58.1	µg/L	1	50.0	<0.230	116	74.4 - 133
1,1-Dichloropropene		50.1	µg/L	1	50.0	<0.340	100	78.4 - 123
Benzene		46.0	µg/L	1	50.0	<0.240	92	77.3 - 121
Carbon Tetrachloride		63.1	µg/L	1	50.0	<0.300	126	56.8 - 168
1,2-Dichloropropane		46.8	µg/L	1	50.0	<0.360	94	75 - 126
Trichloroethene (TCE)		49.2	µg/L	1	50.0	<0.300	98	72.5 - 130
Dibromomethane (methylene bromide)		50.0	µg/L	1	50.0	<0.470	100	80.2 - 120
Bromodichloromethane		55.2	µg/L	1	50.0	<0.280	110	76.5 - 131
2-Chloroethyl vinyl ether		37.5	µg/L	1	50.0	<0.330	75	60 - 130
cis-1,3-Dichloropropene		51.0	µg/L	1	50.0	<0.330	102	81.2 - 124
trans-1,3-Dichloropropene		53.6	µg/L	1	50.0	<0.380	107	75.9 - 129
Toluene		48.6	µg/L	1	50.0	<0.270	97	79.1 - 122
1,1,2-Trichloroethane	[12]	38.7	µg/L	1	50.0	<0.280	77	82.2 - 115
1,3-Dichloropropane	[13]	40.4	µg/L	1	50.0	<0.270	81	82.1 - 116
Dibromochloromethane		55.0	µg/L	1	50.0	<0.320	110	80.6 - 131
1,2-Dibromoethane (EDB)		48.6	µg/L	1	50.0	<0.340	97	82.8 - 117
Tetrachloroethene (PCE)		29.4	µg/L	1	50.0	<0.280	59	20.1 - 178
Chlorobenzene		49.9	µg/L	1	50.0	<0.260	100	79.8 - 120
1,1,1,2-Tetrachloroethane		55.3	µg/L	1	50.0	<0.220	111	81.5 - 125
Ethylbenzene		51.5	µg/L	1	50.0	<0.260	103	82.4 - 121
m,p-Xylene		102	µg/L	1	100	<0.540	102	80.9 - 123
Bromoform		57.1	µg/L	1	50.0	<0.230	114	73.7 - 135
Styrene		52.6	µg/L	1	50.0	<0.210	105	82.6 - 122
o-Xylene		52.4	µg/L	1	50.0	<0.260	105	82.2 - 123
1,1,2,2-Tetrachloroethane		48.9	µg/L	1	50.0	<0.420	98	63.8 - 132
2-Chlorotoluene		49.2	µg/L	1	50.0	<0.240	98	83.2 - 116
1,2,3-Trichloropropane		46.8	µg/L	1	50.0	<0.430	94	81 - 113
Isopropylbenzene		49.3	µg/L	1	50.0	<0.260	99	82.3 - 120
Bromobenzene		46.8	µg/L	1	50.0	<0.260	94	80.6 - 116
n-Propylbenzene		49.0	µg/L	1	50.0	<0.310	98	82.4 - 117
1,3,5-Trimethylbenzene		49.6	µg/L	1	50.0	<0.270	99	83.3 - 118
tert-Butylbenzene		50.2	µg/L	1	50.0	<0.300	100	81.8 - 120
1,2,4-Trimethylbenzene		48.9	µg/L	1	50.0	<0.290	98	83.7 - 118
1,4-Dichlorobenzene (para)		47.7	µg/L	1	50.0	<0.240	95	76.8 - 117
sec-Butylbenzene		49.9	µg/L	1	50.0	<0.280	100	81.2 - 120
1,3-Dichlorobenzene (meta)		48.6	µg/L	1	50.0	<0.310	97	77.7 - 117
p-Isopropyltoluene		50.5	µg/L	1	50.0	<0.330	101	83 - 120
4-Chlorotoluene		49.3	µg/L	1	50.0	<0.290	99	83.8 - 116
1,2-Dichlorobenzene (ortho)		47.9	µg/L	1	50.0	<0.270	96	77.9 - 119
n-Butylbenzene		51.2	µg/L	1	50.0	<0.300	102	81.2 - 118

continued ...

[12]Spike recovery outside control limits. Concentration biased low.
[13]Spike recovery outside control limits. Concentration biased low. •

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,2-Dibromo-3-chloropropane	43.8	µg/L	1	50.0	<0.680	88	70.4 - 125
1,2,3-Trichlorobenzene	43.9	µg/L	1	50.0	<0.330	88	64.8 - 132
1,2,4-Trichlorobenzene	45.9	µg/L	1	50.0	<0.340	92	73.8 - 121
Naphthalene	40.4	µg/L	1	50.0	<0.280	81	67.2 - 128
Hexachlorobutadiene	50.0	µg/L	1	50.0	<0.540	100	71.7 - 133

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	53.0	µg/L	1	50.0	<0.370	106	72.8 - 128	7	20
Dichlorodifluoromethane	68.5	µg/L	1	50.0	<0.450	137	50.7 - 144	3	20
Chloromethane (methyl chloride)	56.5	µg/L	1	50.0	<0.590	113	55.1 - 143	7	20
Vinyl Chloride	52.4	µg/L	1	50.0	<0.690	105	52 - 144	9	20
Bromomethane (methyl bromide)	50.4	µg/L	1	50.0	<0.750	101	57.9 - 150	9	20
Chloroethane	49.6	µg/L	1	50.0	<0.570	99	55 - 149	8	20
Trichlorofluoromethane	63.0	µg/L	1	50.0	<0.470	126	48.5 - 162	12	20
Acetone	42.2	µg/L	1	50.0	<1.75	84	32.3 - 196	10	20
Iodomethane (methyl iodide)	59.3	µg/L	1	50.0	<0.320	119	72.6 - 134	7	20
Carbon Disulfide	64.1	µg/L	1	50.0	<0.250	128	65.6 - 135	16	20
Acrylonitrile	53.5	µg/L	1	50.0	<0.320	107	68.4 - 134	16	20
2-Butanone (MEK)	39.4	µg/L	1	50.0	<0.810	79	61.8 - 133	16	20
4-Methyl-2-pentanone (MIBK)	50.7	µg/L	1	50.0	<0.790	101	68.4 - 132	13	20
2-Hexanone	48.0	µg/L	1	50.0	<0.510	96	47.4 - 154	14	20
trans 1,4-Dichloro-2-butene	58.8	µg/L	1	50.0	<0.490	118	52.9 - 152	10	20
1,1-Dichloroethene	49.1	µg/L	1	50.0	<0.400	98	70.3 - 130	7	20
Methylene chloride	54.1	µg/L	1	50.0	1.14	108	72.4 - 132	18	20
MTBE	54.9	µg/L	1	50.0	<0.400	110	77.3 - 124	12	20
trans-1,2-Dichloroethene	53.6	µg/L	1	50.0	<0.330	107	71 - 128	14	20
1,1-Dichloroethane	56.0	µg/L	1	50.0	<0.290	112	73.2 - 128	15	20
cis-1,2-Dichloroethene	53.6	µg/L	1	50.0	<0.200	107	71.6 - 129	15	20
2,2-Dichloropropane	61.1	µg/L	1	50.0	<0.420	122	65.4 - 134	3	20
1,2-Dichloroethane (EDC)	57.5	µg/L	1	50.0	<0.350	115	70 - 134	5	20
Chloroform	55.0	µg/L	1	50.0	<0.270	110	75.8 - 126	7	20
1,1,1-Trichloroethane	56.9	µg/L	1	50.0	<0.230	114	74.4 - 133	2	20
1,1-Dichloropropene	55.2	µg/L	1	50.0	<0.340	110	78.4 - 123	10	20
Benzene	53.8	µg/L	1	50.0	<0.240	108	77.3 - 121	16	20
Carbon Tetrachloride	58.9	µg/L	1	50.0	<0.300	118	56.8 - 168	7	20
1,2-Dichloropropane	55.2	µg/L	1	50.0	<0.360	110	75 - 126	16	20
Trichloroethene (TCE)	50.7	µg/L	1	50.0	<0.300	101	72.5 - 130	3	20
Dibromomethane (methylene bromide)	53.5	µg/L	1	50.0	<0.470	107	80.2 - 120	7	20
Bromodichloromethane	56.2	µg/L	1	50.0	<0.280	112	76.5 - 131	2	20
2-Chloroethyl vinyl ether	44.0	µg/L	1	50.0	<0.330	88	60 - 130	16	20
cis-1,3-Dichloropropene	56.5	µg/L	1	50.0	<0.330	113	81.2 - 124	10	20
trans-1,3-Dichloropropene	57.3	µg/L	1	50.0	<0.380	115	75.9 - 129	7	20
Toluene	53.1	µg/L	1	50.0	<0.270	106	79.1 - 122	9	20
1,1,2-Trichloroethane [14]	50.1	µg/L	1	50.0	<0.280	100	82.2 - 115	26	20

continued ...

[14]RPD outside RPD limits. •

control spikes continued ...

Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,3-Dichloropropane	[15]	51.7	µg/L	1	50.0	<0.270	103	82.1 - 116	24	20
Dibromochloromethane		52.5	µg/L	1	50.0	<0.320	105	80.6 - 131	5	20
1,2-Dibromoethane (EDB)		49.3	µg/L	1	50.0	<0.340	99	82.8 - 117	1	20
Tetrachloroethene (PCE)		32.9	µg/L	1	50.0	<0.280	66	20.1 - 178	11	20
Chlorobenzene		48.6	µg/L	1	50.0	<0.260	97	79.8 - 120	3	20
1,1,1,2-Tetrachloroethane		53.6	µg/L	1	50.0	<0.220	107	81.5 - 125	3	20
Ethylbenzene		51.6	µg/L	1	50.0	<0.260	103	82.4 - 121	0	20
m,p-Xylene		104	µg/L	1	100	<0.540	104	80.9 - 123	2	20
Bromoform		54.5	µg/L	1	50.0	<0.230	109	73.7 - 135	5	20
Styrene		52.0	µg/L	1	50.0	<0.210	104	82.6 - 122	1	20
o-Xylene		51.8	µg/L	1	50.0	<0.260	104	82.2 - 123	1	20
1,1,2,2-Tetrachloroethane		48.8	µg/L	1	50.0	<0.420	98	63.8 - 132	0	20
2-Chlorotoluene		52.0	µg/L	1	50.0	<0.240	104	83.2 - 116	6	20
1,2,3-Trichloropropane		50.8	µg/L	1	50.0	<0.430	102	81 - 113	8	20
Isopropylbenzene		51.2	µg/L	1	50.0	<0.260	102	82.3 - 120	4	20
Bromobenzene		50.9	µg/L	1	50.0	<0.260	102	80.6 - 116	8	20
n-Propylbenzene		52.2	µg/L	1	50.0	<0.310	104	82.4 - 117	6	20
1,3,5-Trimethylbenzene		51.6	µg/L	1	50.0	<0.270	103	83.3 - 118	4	20
tert-Butylbenzene		51.8	µg/L	1	50.0	<0.300	104	81.8 - 120	3	20
1,2,4-Trimethylbenzene		51.2	µg/L	1	50.0	<0.290	102	83.7 - 118	5	20
1,4-Dichlorobenzene (para)		48.5	µg/L	1	50.0	<0.240	97	76.8 - 117	2	20
sec-Butylbenzene		51.9	µg/L	1	50.0	<0.280	104	81.2 - 120	4	20
1,3-Dichlorobenzene (meta)		49.5	µg/L	1	50.0	<0.310	99	77.7 - 117	2	20
p-Isopropyltoluene		51.4	µg/L	1	50.0	<0.330	103	83 - 120	2	20
4-Chlorotoluene		51.5	µg/L	1	50.0	<0.290	103	83.8 - 116	4	20
1,2-Dichlorobenzene (ortho)		49.0	µg/L	1	50.0	<0.270	98	77.9 - 119	2	20
n-Butylbenzene		52.2	µg/L	1	50.0	<0.300	104	81.2 - 118	2	20
1,2-Dibromo-3-chloropropane		46.5	µg/L	1	50.0	<0.680	93	70.4 - 125	6	20
1,2,3-Trichlorobenzene		45.7	µg/L	1	50.0	<0.330	91	64.8 - 132	4	20
1,2,4-Trichlorobenzene		47.5	µg/L	1	50.0	<0.340	95	73.8 - 121	3	20
Naphthalene		44.7	µg/L	1	50.0	<0.280	89	67.2 - 128	10	20
Hexachlorobutadiene		51.8	µg/L	1	50.0	<0.540	104	71.7 - 133	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate		LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Dibromofluoromethane		53.0	55.9	µg/L	1	50.0	106	112	87.7 - 114
Toluene-d8	[16]	42.1	51.4	µg/L	1	50.0	84	103	89.7 - 112
4-Bromofluorobenzene (4-BFB)		54.6	53.6	µg/L	1	50.0	109	107	86.7 - 116

Laboratory Control Spike (LCS-1)

QC Batch: 67315 | Date Analyzed: 2010-02-04 | Analyzed By: TP
Prep Batch: 57555 | QC Preparation: 2010-02-04 | Prepared By: TP

[15]RPD outside RPD limits. •
[16]8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00413	mg/L	1	0.00400	<0.0000388	103	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.00411	mg/L	1	0.00400	<0.0000388	103	85 - 115	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67319 | Date Analyzed: 2010-02-04 | Analyzed By: MN
Prep Batch: 57567 | QC Preparation: 2010-02-01 | Prepared By: MN

Param		LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Phenol		0.0159	mg/L	1	0.0800	<0.000509	20	10 - 66.5
2-Chlorophenol		0.0411	mg/L	1	0.0800	<0.000537	51	11.2 - 108
1,4-Dichlorobenzene (para)		0.0396	mg/L	1	0.0800	<0.000440	50	16 - 101
N-Nitrosodi-n-propylamine		0.0526	mg/L	1	0.0800	<0.000732	66	10 - 142
1,2,4-Trichlorobenzene		0.0438	mg/L	1	0.0800	<0.000404	55	18 - 118
Naphthalene		0.0442	mg/L	1	0.0800	<0.000489	55	20.2 - 114
4-Chloro-3-methylphenol		0.0423	mg/L	1	0.0800	<0.000522	53	21.5 - 125
Acenaphthylene		0.0578	mg/L	1	0.0800	<0.000586	72	25.8 - 121
Acenaphthene		0.0570	mg/L	1	0.0800	<0.000423	71	33.5 - 122
4-Nitrophenol		0.0163	mg/L	1	0.0800	<0.00185	20	10 - 125
2,4-Dinitrotoluene		0.0528	mg/L	1	0.0800	<0.000911	66	53 - 130
Fluorene		0.0638	mg/L	1	0.0800	<0.000648	80	44.6 - 117
Pentachlorophenol		0.0712	mg/L	1	0.0800	<0.000435	89	10 - 139
Anthracene		0.0640	mg/L	1	0.0800	<0.000428	80	57.5 - 115
Phenanthrene		0.0670	mg/L	1	0.0800	<0.000548	84	55.5 - 118
Fluoranthene		0.0711	mg/L	1	0.0800	<0.000632	89	57 - 122
Pyrene		0.0716	mg/L	1	0.0800	<0.000723	90	58.5 - 130
Benzo(a)anthracene		0.0761	mg/L	1	0.0800	<0.000527	95	63.4 - 109
Chrysene	[17]	0.0955	mg/L	1	0.0800	<0.000638	119	54.7 - 114
Benzo(b)fluoranthene		0.0551	mg/L	1	0.0800	<0.000879	69	64.8 - 120
Benzo(k)fluoranthene	[18]	0.0555	mg/L	1	0.0800	<0.000845	69	70.3 - 114
Benzo(a)pyrene		0.0558	mg/L	1	0.0800	<0.00167	70	63.7 - 120
Indeno(1,2,3-cd)pyrene		0.0549	mg/L	1	0.0800	<0.000862	69	65.4 - 119
Dibenzo(a,h)anthracene	[19]	0.0548	mg/L	1	0.0800	<0.000809	68	68.7 - 117
Benzo(g,h,i)perylene		0.0606	mg/L	1	0.0800	<0.000949	76	57.2 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[17]Spike analyte out of control limits. Results biased high. •
[18]Spike analyte out of control limits. Results biased low. •
[19]Spike analyte out of control limits. Results biased low. •

Param		LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Phenol		0.0143	mg/L	1	0.0800	<0.000509	18	10 - 66.5	11	20
2-Chlorophenol		0.0362	mg/L	1	0.0800	<0.000537	45	11.2 - 108	13	20
1,4-Dichlorobenzene (para)		0.0345	mg/L	1	0.0800	<0.000440	43	16 - 101	14	20
N-Nitrosodi-n-propylamine		0.0463	mg/L	1	0.0800	<0.000732	58	10 - 142	13	20
1,2,4-Trichlorobenzene		0.0390	mg/L	1	0.0800	<0.000404	49	18 - 118	12	20
Naphthalene		0.0395	mg/L	1	0.0800	<0.000489	49	20.2 - 114	11	20
4-Chloro-3-methylphenol		0.0377	mg/L	1	0.0800	<0.000522	47	21.5 - 125	12	20
Acenaphthylene		0.0510	mg/L	1	0.0800	<0.000586	64	25.8 - 121	12	20
Acenaphthene		0.0502	mg/L	1	0.0800	<0.000423	63	33.5 - 122	13	20
4-Nitrophenol		0.0160	mg/L	1	0.0800	<0.00185	20	10 - 125	2	20
2,4-Dinitrotoluene		0.0493	mg/L	1	0.0800	<0.000911	62	53 - 130	7	20
Fluorene		0.0561	mg/L	1	0.0800	<0.000648	70	44:6 - 117	13	20
Pentachlorophenol		0.0694	mg/L	1	0.0800	<0.000435	87	10 - 139	3	20
Anthracene		0.0569	mg/L	1	0.0800	<0.000428	71	57.5 - 115	12	20
Phenanthrene		0.0594	mg/L	1	0.0800	<0.000548	74	55.5 - 118	12	20
Fluoranthene		0.0632	mg/L	1	0.0800	<0.000632	79	57 - 122	12	20
Pyrene		0.0628	mg/L	1	0.0800	<0.000723	78	58.5 - 130	13	20
Benzo(a)anthracene		0.0668	mg/L	1	0.0800	<0.000527	84	63.4 - 109	13	20
Chrysene		0.0845	mg/L	1	0.0800	<0.000638	106	54.7 - 114	12	20
Benzo(b)fluoranthene	[20]	0.0488	mg/L	1	0.0800	<0.000879	61	64.8 - 120	12	20
Benzo(k)fluoranthene	[21]	0.0488	mg/L	1	0.0800	<0.000845	61	70.3 - 114	13	20
Benzo(a)pyrene	[22]	0.0496	mg/L	1	0.0800	<0.00167	62	63.7 - 120	12	20
Indeno(1,2,3-cd)pyrene	[23]	0.0488	mg/L	1	0.0800	<0.000862	61	65.4 - 119	12	20
Dibenzo(a,h)anthracene	[24]	0.0486	mg/L	1	0.0800	<0.000809	61	68.7 - 117	12	20
Benzo(g,h,i)perylene		0.0535	mg/L	1	0.0800	<0.000949	67	57.2 - 125	12	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
2-Fluorophenol	0.0267	0.0238	mg/L	1	0.0800	33	30	10 - 53.1
Phenol-d5	0.0179	0.0159	mg/L	1	0.0800	22	20	10 - 36.9
Nitrobenzene-d5	0.0428	0.0383	mg/L	1	0.0800	54	48	23.8 - 108
2-Fluorobiphenyl	0.0491	0.0436	mg/L	1	0.0800	61	54	15.9 - 127
2,4,6-Tribromophenol	0.0693	0.0613	mg/L	1	0.0800	87	77	10 - 123
Terphenyl-d14	0.0695	0.0609	mg/L	1	0.0800	87	76	17.2 - 160

Laboratory Control Spike (LCS-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

[20]Spike analyte out of control limits. Results biased low. •
[21]Spike analyte out of control limits. Results biased low. •
[22]Spike analyte out of control limits. Results biased low. •
[23]Spike analyte out of control limits. Results biased low. •
[24]Spike analyte out of control limits. Results biased low. •

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	54.2	mg/L	1	50.0	<0.117	108	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	53.2	mg/L	1	50.0	<0.117	106	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Potassium	51.3	mg/L	1	50.0	<0.172	103	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Potassium	50.4	mg/L	1	50.0	<0.172	101	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Magnesium	52.6	mg/L	1	50.0	<0.160	105	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Magnesium	51.7	mg/L	1	50.0	<0.160	103	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Laboratory Control Spike (LCS-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	52.8	mg/L	1	50.0	<0.0500	106	85 - 115

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	52.0	mg/L	1	50.0	<0.0500	104	85 - 115	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Chloride [25]	567	mg/L	5	138	483	61	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Chloride [26]	567	mg/L	5	138	483	61	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Fluoride [27]	20.2	mg/L	5	27.5	1.18	69	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Fluoride [28]	20.3	mg/L	5	27.5	1.18	70	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[25] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[26] MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[27] Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[28] MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Nitrate-N	[29]	28.9	mg/L	5	27.5	10	69	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Nitrate-N	[30]	29.0	mg/L	5	27.5	10	69	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Sulfate	[31]	328	mg/L	5	138	239	65	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Sulfate	[32]	329	mg/L	5	138	239	65	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67125 | Date Analyzed: 2010-01-28 | Analyzed By: AR
Prep Batch: 57382 | QC Preparation: 2010-01-28 | Prepared By: AR

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
PO4-P	[33]	110	mg/L	5	138	<0.365	80	90 - 110

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[29]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[30]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[31]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[32]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.
[33]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
PO4-P	[34]	110	mg/L	5	138	<0.365	80	90 - 110	0	

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220904

QC Batch: 67170 | Date Analyzed: 2010-01-29 | Analyzed By: KB
Prep Batch: 57444 | QC Preparation: 2010-01-29 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	50.6	µg/L	1	50.0	<0.370	101	64 - 140
Dichlorodifluoromethane	54.1	µg/L	1	50.0	<0.450	108	13.9 - 166
Chloromethane (methyl chloride)	52.6	µg/L	1	50.0	<0.590	105	40.4 - 153
Vinyl Chloride	47.7	µg/L	1	50.0	<0.690	95	51.8 - 130
Bromomethane (methyl bromide)	43.7	µg/L	1	50.0	<0.750	87	52.6 - 138
Chloroethane	42.8	µg/L	1	50.0	<0.570	86	52.2 - 138
Trichlorofluoromethane	58.6	µg/L	1	50.0	<0.470	117	34.2 - 137
Acetone	37.9	µg/L	1	50.0	<1.75	76	17.1 - 143
Iodomethane (methyl iodide)	64.0	µg/L	1	50.0	<0.320	128	66.8 - 136
Carbon Disulfide	66.2	µg/L	1	50.0	<0.250	132	62 - 144
Acrylonitrile	52.2	µg/L	1	50.0	<0.320	104	55.7 - 150
2-Butanone (MEK)	33.7	µg/L	1	50.0	<0.810	67	46.8 - 128
4-Methyl-2-pentanone (MIBK)	45.4	µg/L	1	50.0	<0.790	91	52.3 - 149
2-Hexanone	47.9	µg/L	1	50.0	<0.510	96	44.3 - 157
trans 1,4-Dichloro-2-butene	50.3	µg/L	1	50.0	<0.490	101	24.8 - 159
1,1-Dichloroethene	54.9	µg/L	1	50.0	<0.400	110	64.5 - 133
Methylene chloride	54.7	µg/L	1	50.0	<0.450	109	65.4 - 138
MTBE	54.4	µg/L	1	50.0	<0.400	109	62.9 - 135
trans-1,2-Dichloroethene	55.1	µg/L	1	50.0	<0.330	110	63.6 - 137
1,1-Dichloroethane	49.6	µg/L	1	50.0	<0.290	99	65.5 - 138
cis-1,2-Dichloroethene	48.4	µg/L	1	50.0	<0.200	97	63.1 - 139
2,2-Dichloropropane	51.5	µg/L	1	50.0	<0.420	103	31.5 - 132
1,2-Dichloroethane (EDC)	54.3	µg/L	1	50.0	<0.350	109	64 - 146
Chloroform	52.3	µg/L	1	50.0	<0.270	105	66.9 - 135
1,1,1-Trichloroethane	55.4	µg/L	1	50.0	<0.230	111	62.5 - 144
1,1-Dichloropropene	52.4	µg/L	1	50.0	<0.340	105	69.3 - 131
Benzene	50.0	µg/L	1	50.0	<0.240	100	68.2 - 129
Carbon Tetrachloride	60.1	µg/L	1	50.0	<0.300	120	55.4 - 155
1,2-Dichloropropane	50.1	µg/L	1	50.0	<0.360	100	65.8 - 134
Trichloroethene (TCE)	51.0	µg/L	1	50.0	<0.300	102	65.7 - 128
Dibromomethane (methylene bromide)	52.5	µg/L	1	50.0	<0.470	105	70.3 - 132
Bromodichloromethane	58.2	µg/L	1	50.0	<0.280	116	67 - 139
2-Chloroethyl vinyl ether	<0.330	µg/L	1	50.0	<0.330	0	0 - 24.7
cis-1,3-Dichloropropene	51.5	µg/L	1	50.0	<0.330	103	63.6 - 130
trans-1,3-Dichloropropene	59.9	µg/L	1	50.0	<0.380	120	63.4 - 133

continued ...

[34]MSD analyte out of range. MS/MSD has a RPD within limits. Therfore, MS shows extraction occured properly.

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Toluene	57.6	µg/L	1	50.0	<0.270	115	77.4 - 122
1,1,2-Trichloroethane	50.2	µg/L	1	50.0	<0.280	100	69.2 - 128
1,3-Dichloropropane	52.5	µg/L	1	50.0	<0.270	105	70.5 - 129
Dibromochloromethane	52.9	µg/L	1	50.0	<0.320	106	65.6 - 142
1,2-Dibromoethane (EDB)	50.1	µg/L	1	50.0	<0.340	100	69.1 - 128
Tetrachloroethene (PCE)	33.5	µg/L	1	50.0	<0.280	67	23.4 - 117
Chlorobenzene	49.5	µg/L	1	50.0	<0.260	99	68.4 - 128
1,1,1,2-Tetrachloroethane	53.9	µg/L	1	50.0	<0.220	108	77.4 - 129
Ethylbenzene	52.0	µg/L	1	50.0	<0.260	104	80.8 - 118
m,p-Xylene	104	µg/L	1	100	<0.540	104	80.5 - 118
Bromoform	54.2	µg/L	1	50.0	<0.230	108	57.3 - 141
Styrene	14.8	µg/L	1	50.0	<0.210	30	10 - 191
o-Xylene	53.0	µg/L	1	50.0	<0.260	106	81.8 - 120
1,1,2,2-Tetrachloroethane	49.3	µg/L	1	50.0	<0.420	99	65.7 - 140
2-Chlorotoluene	51.8	µg/L	1	50.0	<0.240	104	70 - 123
1,2,3-Trichloropropane	54.2	µg/L	1	50.0	<0.430	108	72.3 - 126
Isopropylbenzene	50.9	µg/L	1	50.0	<0.260	102	68 - 125
Bromobenzene	53.1	µg/L	1	50.0	<0.260	106	69.1 - 126
n-Propylbenzene	51.3	µg/L	1	50.0	<0.310	103	67.6 - 123
1,3,5-Trimethylbenzene	50.9	µg/L	1	50.0	<0.270	102	67.1 - 124
tert-Butylbenzene	50.6	µg/L	1	50.0	<0.300	101	66.6 - 126
1,2,4-Trimethylbenzene	50.6	µg/L	1	50.0	<0.290	101	68.1 - 126
1,4-Dichlorobenzene (para)	49.2	µg/L	1	50.0	<0.240	98	66.7 - 121
sec-Butylbenzene	50.6	µg/L	1	50.0	<0.280	101	64.9 - 126
1,3-Dichlorobenzene (meta)	49.6	µg/L	1	50.0	<0.310	99	67.4 - 123
p-Isopropyltoluene	50.2	µg/L	1	50.0	<0.330	100	65.1 - 126
4-Chlorotoluene	51.4	µg/L	1	50.0	<0.290	103	70.7 - 123
1,2-Dichlorobenzene (ortho)	50.0	µg/L	1	50.0	<0.270	100	66.6 - 125
n-Butylbenzene	49.7	µg/L	1	50.0	<0.300	99	63.4 - 124
1,2-Dibromo-3-chloropropane	44.2	µg/L	1	50.0	<0.680	88	59.8 - 136
1,2,3-Trichlorobenzene	42.8	µg/L	1	50.0	<0.330	86	51.8 - 133
1,2,4-Trichlorobenzene	45.5	µg/L	1	50.0	<0.340	91	59.8 - 125
Naphthalene	42.9	µg/L	1	50.0	<0.280	86	53.1 - 139
Hexachlorobutadiene	47.4	µg/L	1	50.0	<0.540	95	58.1 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane	51.1	µg/L	1	50.0	<0.370	102	64 - 140	1	20
Dichlorodifluoromethane	56.3	µg/L	1	50.0	<0.450	113	13.9 - 166	4	20
Chloromethane (methyl chloride)	54.4	µg/L	1	50.0	<0.590	109	40.4 - 153	3	20
Vinyl Chloride	48.8	µg/L	1	50.0	<0.690	98	51.8 - 130	2	20
Bromomethane (methyl bromide)	45.4	µg/L	1	50.0	<0.750	91	52.6 - 138	4	20
Chloroethane	44.0	µg/L	1	50.0	<0.570	88	52.2 - 138	3	20
Trichlorofluoromethane	57.2	µg/L	1	50.0	<0.470	114	34.2 - 137	2	20
Acetone [35]	29.7	µg/L	1	50.0	<1.75	59	17.1 - 143	24	20

continued ...

[35] MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Iodomethane (methyl iodide)	63.4	µg/L	1	50.0	<0.320	127	66.8 - 136	1	20
Carbon Disulfide	65.1	µg/L	1	50.0	<0.250	130	62 - 144	2	20
Acrylonitrile	54.6	µg/L	1	50.0	<0.320	109	55.7 - 150	4	20
2-Butanone (MEK)	35.1	µg/L	1	50.0	<0.810	70	46.8 - 128	4	20
4-Methyl-2-pentanone (MIBK)	47.1	µg/L	1	50.0	<0.790	94	52.3 - 149	4	20
2-Hexanone	49.4	µg/L	1	50.0	<0.510	99	44.3 - 157	3	20
trans 1,4-Dichloro-2-butene	52.5	µg/L	1	50.0	<0.490	105	24.8 - 159	4	20
1,1-Dichloroethene	48.9	µg/L	1	50.0	<0.400	98	64.5 - 133	12	20
Methylene chloride	53.4	µg/L	1	50.0	<0.450	107	65.4 - 138	2	20
MTBE	55.5	µg/L	1	50.0	<0.400	111	62.9 - 135	2	20
trans-1,2-Dichloroethene	54.8	µg/L	1	50.0	<0.330	110	63.6 - 137	0	20
1,1-Dichloroethane	54.2	µg/L	1	50.0	<0.290	108	65.5 - 138	9	20
cis-1,2-Dichloroethene	48.2	µg/L	1	50.0	<0.200	96	63.1 - 139	0	20
2,2-Dichloropropane	49.8	µg/L	1	50.0	<0.420	100	31.5 - 132	3	20
1,2-Dichloroethane (EDC)	58.4	µg/L	1	50.0	<0.350	117	64 - 146	7	20
Chloroform	51.9	µg/L	1	50.0	<0.270	104	66.9 - 135	1	20
1,1,1-Trichloroethane	55.1	µg/L	1	50.0	<0.230	110	62.5 - 144	0	20
1,1-Dichloropropene	50.8	µg/L	1	50.0	<0.340	102	69.3 - 131	3	20
Benzene	55.4	µg/L	1	50.0	<0.240	111	68.2 - 129	10	20
Carbon Tetrachloride	59.0	µg/L	1	50.0	<0.300	118	55.4 - 155	2	20
1,2-Dichloropropane	49.3	µg/L	1	50.0	<0.360	99	65.8 - 134	2	20
Trichloroethene (TCE)	49.9	µg/L	1	50.0	<0.300	100	65.7 - 128	2	20
Dibromomethane (methylene bromide)	52.4	µg/L	1	50.0	<0.470	105	70.3 - 132	0	20
Bromodichloromethane	55.7	µg/L	1	50.0	<0.280	111	67 - 139	4	20
2-Chloroethyl vinyl ether	<0.330	µg/L	1	50.0	<0.330	0	0 - 24.7	0	20
cis-1,3-Dichloropropene	51.3	µg/L	1	50.0	<0.330	103	63.6 - 130	0	20
trans-1,3-Dichloropropene	58.4	µg/L	1	50.0	<0.380	117	63.4 - 133	2	20
Toluene	49.9	µg/L	1	50.0	<0.270	100	77.4 - 122	14	20
1,1,2-Trichloroethane	48.6	µg/L	1	50.0	<0.280	97	69.2 - 128	3	20
1,3-Dichloropropane	51.8	µg/L	1	50.0	<0.270	104	70.5 - 129	1	20
Dibromochloromethane	53.0	µg/L	1	50.0	<0.320	106	65.6 - 142	0	20
1,2-Dibromoethane (EDB)	50.3	µg/L	1	50.0	<0.340	101	69.1 - 128	0	20
Tetrachloroethene (PCE)	33.2	µg/L	1	50.0	<0.280	66	23.4 - 117	1	20
Chlorobenzene	48.8	µg/L	1	50.0	<0.260	98	68.4 - 128	1	20
1,1,1,2-Tetrachloroethane	53.5	µg/L	1	50.0	<0.220	107	77.4 - 129	1	20
Ethylbenzene	51.0	µg/L	1	50.0	<0.260	102	80.8 - 118	2	20
m,p-Xylene	102	µg/L	1	100	<0.540	102	80.5 - 118	2	20
Bromoform	54.7	µg/L	1	50.0	<0.230	109	57.3 - 141	1	20
Styrene	12.1	µg/L	1	50.0	<0.210	24	10 - 191	20	20
o-Xylene	51.8	µg/L	1	50.0	<0.260	104	81.8 - 120	2	20
1,1,2,2-Tetrachloroethane	50.0	µg/L	1	50.0	<0.420	100	65.7 - 140	1	20
2-Chlorotoluene	51.6	µg/L	1	50.0	<0.240	103	70 - 123	0	20
1,2,3-Trichloropropane	53.0	µg/L	1	50.0	<0.430	106	72.3 - 126	2	20
Isopropylbenzene	50.6	µg/L	1	50.0	<0.260	101	68 - 125	1	20
Bromobenzene	53.2	µg/L	1	50.0	<0.260	106	69.1 - 126	0	20
n-Propylbenzene	51.3	µg/L	1	50.0	<0.310	103	67.6 - 123	0	20
1,3,5-Trimethylbenzene	50.9	µg/L	1	50.0	<0.270	102	67.1 - 124	0	20

continued ...

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
tert-Butylbenzene	50.8	µg/L	1	50.0	<0.300	102	66.6 - 126	0	20
1,2,4-Trimethylbenzene	50.5	µg/L	1	50.0	<0.290	101	68.1 - 126	0	20
1,4-Dichlorobenzene (para)	49.3	µg/L	1	50.0	<0.240	99	66.7 - 121	0	20
sec-Butylbenzene	50.4	µg/L	1	50.0	<0.280	101	64.9 - 126	0	20
1,3-Dichlorobenzene (meta)	50.0	µg/L	1	50.0	<0.310	100	67.4 - 123	1	20
p-Isopropyltoluene	50.4	µg/L	1	50.0	<0.330	101	65.1 - 126	0	20
4-Chlorotoluene	51.4	µg/L	1	50.0	<0.290	103	70.7 - 123	0	20
1,2-Dichlorobenzene (ortho)	49.6	µg/L	1	50.0	<0.270	99	66.6 - 125	1	20
n-Butylbenzene	49.4	µg/L	1	50.0	<0.300	99	63.4 - 124	1	20
1,2-Dibromo-3-chloropropane	45.6	µg/L	1	50.0	<0.680	91	59.8 - 136	3	20
1,2,3-Trichlorobenzene	45.5	µg/L	1	50.0	<0.330	91	51.8 - 133	6	20
1,2,4-Trichlorobenzene	47.0	µg/L	1	50.0	<0.340	94	59.8 - 125	3	20
Naphthalene	45.3	µg/L	1	50.0	<0.280	91	53.1 - 139	5	20
Hexachlorobutadiene	48.1	µg/L	1	50.0	<0.540	96	58.1 - 119	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	53.6	54.1	µg/L	1	50	107	108	89.8 - 118
Toluene-d8	50.8	46.2	µg/L	1	50	102	92	89.9 - 110
4-Bromofluorobenzene (4-BFB)	52.5	52.2	µg/L	1	50	105	104	86.4 - 117

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Aluminum	1.01	mg/L	1	1.00	<0.00404	101	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Aluminum	1.05	mg/L	1	1.00	<0.00404	105	75 - 125	4	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Cobalt	0.254	mg/L	1	0.250	<0.000822	102	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Cobalt	0.253	mg/L	1	0.250	<0.000822	101	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Copper	0.130	mg/L	1	0.125	<0.00205	104	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Copper	0.130	mg/L	1	0.125	<0.00205	104	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR
Prep Batch: 57443 QC Preparation: 2010-02-01 Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Iron	0.475	mg/L	1	0.500	<0.00300	95	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Iron	0.474	mg/L	1	0.500	<0.00300	95	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Manganese	0.251	mg/L	1	0.250	<0.00170	100	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Manganese	0.252	mg/L	1	0.250	<0.00170	101	75 - 125	0	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Molybdenum	0.500	mg/L	1	0.500	<0.00356	100	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Molybdenum	0.496	mg/L	1	0.500	<0.00356	99	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Nickel	0.246	mg/L	1	0.250	<0.00274	98	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Nickel	0.244	mg/L	1	0.250	<0.00274	98	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Zinc	0.253	mg/L	1	0.250	<0.000465	101	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Zinc	0.251	mg/L	1	0.250	<0.000465	100	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 220927

QC Batch: 67189 | Date Analyzed: 2010-02-01 | Analyzed By: RR
Prep Batch: 57443 | QC Preparation: 2010-02-01 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Silver	0.126	mg/L	1	0.125	<0.00131	101	75 - 125
Total Arsenic	0.503	mg/L	1	0.500	<0.00148	101	75 - 125
Total Barium	1.08	mg/L	1	1.00	<0.00730	108	75 - 125
Total Cadmium	0.252	mg/L	1	0.250	<0.000303	101	75 - 125
Total Chromium	0.0990	mg/L	1	0.100	<0.000873	99	75 - 125
Total Lead	0.484	mg/L	1	0.500	<0.00494	97	75 - 125
Total Selenium	0.474	mg/L	1	0.500	<0.00508	95	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Silver	0.124	mg/L	1	0.125	<0.00131	99	75 - 125	2	20
Total Arsenic	0.512	mg/L	1	0.500	<0.00148	102	75 - 125	2	20
Total Barium	1.09	mg/L	1	1.00	<0.00730	109	75 - 125	1	20
Total Cadmium	0.250	mg/L	1	0.250	<0.000303	100	75 - 125	1	20
Total Chromium	0.0980	mg/L	1	0.100	<0.000873	98	75 - 125	1	20
Total Lead	0.481	mg/L	1	0.500	<0.00494	96	75 - 125	1	20
Total Selenium	0.467	mg/L	1	0.500	<0.00508	93	75 - 125	2	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 221337

QC Batch: 67250 | Date Analyzed: 2010-02-02 | Analyzed By: KB
Prep Batch: 57515 | QC Preparation: 2010-02-02 | Prepared By: KB

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Bromochloromethane	47.6	µg/L	1	50.0	<0.370	95	64 - 140
Dichlorodifluoromethane	45.8	µg/L	1	50.0	<0.450	92	13.9 - 166
Chloromethane (methyl chloride)	46.7	µg/L	1	50.0	<0.590	93	40.4 - 153
Vinyl Chloride	40.4	µg/L	1	50.0	<0.690	81	51.8 - 130
Bromomethane (methyl bromide)	35.2	µg/L	1	50.0	<0.750	70	52.6 - 138
Chloroethane	35.4	µg/L	1	50.0	<0.570	71	52.2 - 138
Trichlorofluoromethane	48.2	µg/L	1	50.0	<0.470	96	34.2 - 137
Acetone	37.3	µg/L	1	50.0	<1.75	75	17.1 - 143
Iodomethane (methyl iodide)	52.4	µg/L	1	50.0	<0.320	105	66.8 - 136
Carbon Disulfide	53.3	µg/L	1	50.0	<0.250	107	62 - 144
Acrylonitrile	46.7	µg/L	1	50.0	<0.320	93	55.7 - 150
2-Butanone (MEK)	30.8	µg/L	1	50.0	<0.810	62	46.8 - 128
4-Methyl-2-pentanone (MIBK)	44.2	µg/L	1	50.0	<0.790	88	52.3 - 149
2-Hexanone	43.6	µg/L	1	50.0	<0.510	87	44.3 - 157
trans 1,4-Dichloro-2-butene	51.9	µg/L	1	50.0	<0.490	104	24.8 - 159
1,1-Dichloroethene	54.8	µg/L	1	50.0	<0.400	110	64.5 - 133
Methylene chloride	43.6	µg/L	1	50.0	<0.450	87	65.4 - 138
MTBE	47.9	µg/L	1	50.0	<0.400	96	62.9 - 135
trans-1,2-Dichloroethene	45.9	µg/L	1	50.0	<0.330	92	63.6 - 137
1,1-Dichloroethane	46.6	µg/L	1	50.0	<0.290	93	65.5 - 138
cis-1,2-Dichloroethene	44.8	µg/L	1	50.0	<0.200	90	63.1 - 139
2,2-Dichloropropane	46.0	µg/L	1	50.0	<0.420	92	31.5 - 132
1,2-Dichloroethane (EDC)	54.4	µg/L	1	50.0	<0.350	109	64 - 146
Chloroform	50.5	µg/L	1	50.0	<0.270	101	66.9 - 135
1,1,1-Trichloroethane	54.5	µg/L	1	50.0	<0.230	109	62.5 - 144
1,1-Dichloropropene	48.8	µg/L	1	50.0	<0.340	98	69.3 - 131
Benzene	45.0	µg/L	1	50.0	<0.240	90	68.2 - 129
Carbon Tetrachloride	58.8	µg/L	1	50.0	<0.300	118	55.4 - 155
1,2-Dichloropropane	45.8	µg/L	1	50.0	<0.360	92	65.8 - 134
Trichloroethene (TCE)	46.9	µg/L	1	50.0	<0.300	94	65.7 - 128
Dibromomethane (methylene bromide)	50.2	µg/L	1	50.0	<0.470	100	70.3 - 132
Bromodichloromethane	53.0	µg/L	1	50.0	<0.280	106	67 - 139
2-Chloroethyl vinyl ether	<0.330	µg/L	1	50.0	<0.330	0	0 - 24.7
cis-1,3-Dichloropropene	46.8	µg/L	1	50.0	<0.330	94	63.6 - 130
trans-1,3-Dichloropropene	50.2	µg/L	1	50.0	<0.380	100	63.4 - 133
Toluene	46.8	µg/L	1	50.0	<0.270	94	77.4 - 122
1,1,2-Trichloroethane	44.7	µg/L	1	50.0	<0.280	89	69.2 - 128
1,3-Dichloropropane	46.5	µg/L	1	50.0	<0.270	93	70.5 - 129
Dibromochloromethane	52.7	µg/L	1	50.0	<0.320	105	65.6 - 142
1,2-Dibromoethane (EDB)	47.2	µg/L	1	50.0	<0.340	94	69.1 - 128
Tetrachloroethene (PCE)	31.9	µg/L	1	50.0	<0.280	64	23.4 - 117
Chlorobenzene	45.7	µg/L	1	50.0	<0.260	91	68.4 - 128
1,1,1,2-Tetrachloroethane	53.2	µg/L	1	50.0	<0.220	106	77.4 - 129
Ethylbenzene	47.1	µg/L	1	50.0	<0.260	94	80.8 - 118
m,p-Xylene	96.3	µg/L	1	100	<0.540	96	80.5 - 118
Bromoform	56.0	µg/L	1	50.0	<0.230	112	57.3 - 141
Styrene	46.7	µg/L	1	50.0	<0.210	93	10 - 191
o-Xylene	48.4	µg/L	1	50.0	<0.260	97	81.8 - 120

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
1,1,2,2-Tetrachloroethane	45.1	µg/L	1	50.0	<0.420	90	65.7 - 140
2-Chlorotoluene	44.9	µg/L	1	50.0	<0.240	90	70 - 123
1,2,3-Trichloropropane	46.8	µg/L	1	50.0	<0.430	94	72.3 - 126
Isopropylbenzene	44.1	µg/L	1	50.0	<0.260	88	68 - 125
Bromobenzene	45.8	µg/L	1	50.0	<0.260	92	69.1 - 126
n-Propylbenzene	45.2	µg/L	1	50.0	<0.310	90	67.6 - 123
1,3,5-Trimethylbenzene	44.6	µg/L	1	50.0	<0.270	89	67.1 - 124
tert-Butylbenzene	46.0	µg/L	1	50.0	<0.300	92	66.6 - 126
1,2,4-Trimethylbenzene	44.8	µg/L	1	50.0	<0.290	90	68.1 - 126
1,4-Dichlorobenzene (para)	44.5	µg/L	1	50.0	<0.240	89	66.7 - 121
sec-Butylbenzene	45.1	µg/L	1	50.0	<0.280	90	64.9 - 126
1,3-Dichlorobenzene (meta)	46.1	µg/L	1	50.0	<0.310	92	67.4 - 123
p-Isopropyltoluene	48.4	µg/L	1	50.0	<0.330	97	65.1 - 126
4-Chlorotoluene	45.7	µg/L	1	50.0	<0.290	91	70.7 - 123
1,2-Dichlorobenzene (ortho)	48.6	µg/L	1	50.0	<0.270	97	66.6 - 125
n-Butylbenzene	42.1	µg/L	1	50.0	<0.300	84	63.4 - 124
1,2-Dibromo-3-chloropropane	43.6	µg/L	1	50.0	<0.680	87	59.8 - 136
1,2,3-Trichlorobenzene	42.0	µg/L	1	50.0	<0.330	84	51.8 - 133
1,2,4-Trichlorobenzene	46.2	µg/L	1	50.0	<0.340	92	59.8 - 125
Naphthalene	46.7	µg/L	1	50.0	<0.280	93	53.1 - 139
Hexachlorobutadiene	46.4	µg/L	1	50.0	<0.540	93	58.1 - 119

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param		MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Bromochloromethane		49.7	µg/L	1	50.0	<0.370	99	64 - 140	4	20
Dichlorodifluoromethane		53.7	µg/L	1	50.0	<0.450	107	13.9 - 166	16	20
Chloromethane (methyl chloride)		49.5	µg/L	1	50.0	<0.590	99	40.4 - 153	6	20
Vinyl Chloride		45.2	µg/L	1	50.0	<0.690	90	51.8 - 130	11	20
Bromomethane (methyl bromide)	[36]	46.0	µg/L	1	50.0	<0.750	92	52.6 - 138	27	20
Chloroethane	[37]	43.9	µg/L	1	50.0	<0.570	88	52.2 - 138	21	20
Trichlorofluoromethane		55.8	µg/L	1	50.0	<0.470	112	34.2 - 137	15	20
Acetone		33.0	µg/L	1	50.0	<1.75	66	17.1 - 143	12	20
Iodomethane (methyl iodide)	[38]	66.0	µg/L	1	50.0	<0.320	132	66.8 - 136	23	20
Carbon Disulfide		53.3	µg/L	1	50.0	<0.250	107	62 - 144	0	20
Acrylonitrile		47.6	µg/L	1	50.0	<0.320	95	55.7 - 150	2	20
2-Butanone (MEK)		30.6	µg/L	1	50.0	<0.810	61	46.8 - 128	1	20
4-Methyl-2-pentanone (MIBK)		48.9	µg/L	1	50.0	<0.790	98	52.3 - 149	10	20
2-Hexanone		44.9	µg/L	1	50.0	<0.510	90	44.3 - 157	3	20
trans 1,4-Dichloro-2-butene		60.4	µg/L	1	50.0	<0.490	121	24.8 - 159	15	20
1,1-Dichloroethene		51.0	µg/L	1	50.0	<0.400	102	64.5 - 133	7	20
Methylene chloride		45.3	µg/L	1	50.0	<0.450	91	65.4 - 138	4	20
MTBE		49.9	µg/L	1	50.0	<0.400	100	62.9 - 135	4	20
trans-1,2-Dichloroethene		46.6	µg/L	1	50.0	<0.330	93	63.6 - 137	2	20

continued ...

[36]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[37]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.
[38]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,1-Dichloroethane	48.4	µg/L	1	50.0	<0.290	97	65.5 - 138	4	20
cis-1,2-Dichloroethene	46.8	µg/L	1	50.0	<0.200	94	63.1 - 139	4	20
2,2-Dichloropropane	47.6	µg/L	1	50.0	<0.420	95	31.5 - 132	3	20
1,2-Dichloroethane (EDC)	56.8	µg/L	1	50.0	<0.350	114	64 - 146	4	20
Chloroform	52.1	µg/L	1	50.0	<0.270	104	66.9 - 135	3	20
1,1,1-Trichloroethane	57.5	µg/L	1	50.0	<0.230	115	62.5 - 144	5	20
1,1-Dichloropropene	51.0	µg/L	1	50.0	<0.340	102	69.3 - 131	4	20
Benzene	47.9	µg/L	1	50.0	<0.240	96	68.2 - 129	6	20
Carbon Tetrachloride	64.5	µg/L	1	50.0	<0.300	129	55.4 - 155	9	20
1,2-Dichloropropane	48.4	µg/L	1	50.0	<0.360	97	65.8 - 134	6	20
Trichloroethene (TCE)	49.1	µg/L	1	50.0	<0.300	98	65.7 - 128	5	20
Dibromomethane (methylene bromide)	54.6	µg/L	1	50.0	<0.470	109	70.3 - 132	8	20
Bromodichloromethane	56.5	µg/L	1	50.0	<0.280	113	67 - 139	6	20
2-Chloroethyl vinyl ether	<0.330	µg/L	1	50.0	<0.330	0	0 - 24.7	0	20
cis-1,3-Dichloropropene	50.0	µg/L	1	50.0	<0.330	100	63.6 - 130	7	20
trans-1,3-Dichloropropene	53.5	µg/L	1	50.0	<0.380	107	63.4 - 133	6	20
Toluene	49.5	µg/L	1	50.0	<0.270	99	77.4 - 122	6	20
1,1,2-Trichloroethane	49.3	µg/L	1	50.0	<0.280	99	69.2 - 128	10	20
1,3-Dichloropropane	47.1	µg/L	1	50.0	<0.270	94	70.5 - 129	1	20
Dibromochloromethane	55.2	µg/L	1	50.0	<0.320	110	65.6 - 142	5	20
1,2-Dibromoethane (EDB)	49.8	µg/L	1	50.0	<0.340	100	69.1 - 128	5	20
Tetrachloroethene (PCE)	32.3	µg/L	1	50.0	<0.280	65	23.4 - 117	1	20
Chlorobenzene	46.9	µg/L	1	50.0	<0.260	94	68.4 - 128	3	20
1,1,1,2-Tetrachloroethane	54.2	µg/L	1	50.0	<0.220	108	77.4 - 129	2	20
Ethylbenzene	47.9	µg/L	1	50.0	<0.260	96	80.8 - 118	2	20
m,p-Xylene	96.7	µg/L	1	100	<0.540	97	80.5 - 118	0	20
Bromoform	57.4	µg/L	1	50.0	<0.230	115	57.3 - 141	2	20
Styrene	49.8	µg/L	1	50.0	<0.210	100	10 - 191	6	20
o-Xylene	50.3	µg/L	1	50.0	<0.260	101	81.8 - 120	4	20
1,1,2,2-Tetrachloroethane [39]	56.4	µg/L	1	50.0	<0.420	113	65.7 - 140	22	20
2-Chlorotoluene	42.4	µg/L	1	50.0	<0.240	85	70 - 123	6	20
1,2,3-Trichloropropane	47.1	µg/L	1	50.0	<0.430	94	72.3 - 126	1	20
Isopropylbenzene	46.4	µg/L	1	50.0	<0.260	93	68 - 125	5	20
Bromobenzene	48.2	µg/L	1	50.0	<0.260	96	69.1 - 126	5	20
n-Propylbenzene	43.8	µg/L	1	50.0	<0.310	88	67.6 - 123	3	20
1,3,5-Trimethylbenzene	42.6	µg/L	1	50.0	<0.270	85	67.1 - 124	5	20
tert-Butylbenzene	43.9	µg/L	1	50.0	<0.300	88	66.6 - 126	5	20
1,2,4-Trimethylbenzene	42.6	µg/L	1	50.0	<0.290	85	68.1 - 126	5	20
1,4-Dichlorobenzene (para)	46.8	µg/L	1	50.0	<0.240	94	66.7 - 121	5	20
sec-Butylbenzene	42.6	µg/L	1	50.0	<0.280	85	64.9 - 126	6	20
1,3-Dichlorobenzene (meta)	47.3	µg/L	1	50.0	<0.310	95	67.4 - 123	3	20
p-Isopropyltoluene	48.8	µg/L	1	50.0	<0.330	98	65.1 - 126	1	20
4-Chlorotoluene	43.8	µg/L	1	50.0	<0.290	88	70.7 - 123	4	20
1,2-Dichlorobenzene (ortho)	48.6	µg/L	1	50.0	<0.270	97	66.6 - 125	0	20
n-Butylbenzene	46.3	µg/L	1	50.0	<0.300	93	63.4 - 124	10	20
1,2-Dibromo-3-chloropropane	47.4	µg/L	1	50.0	<0.680	95	59.8 - 136	8	20

continued ...

[39]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

matrix spikes continued ...

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
1,2,3-Trichlorobenzene	46.3	µg/L	1	50.0	<0.330	93	51.8 - 133	10	20
1,2,4-Trichlorobenzene	45.6	µg/L	1	50.0	<0.340	91	59.8 - 125	1	20
Naphthalene	45.8	µg/L	1	50.0	<0.280	92	53.1 - 139	2	20
Hexachlorobutadiene	46.0	µg/L	1	50.0	<0.540	92	58.1 - 119	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Dibromofluoromethane	54.1	55.0	µg/L	1	50	108	110	89.8 - 118
Toluene-d8	51.2	48.3	µg/L	1	50	102	97	89.9 - 110
4-Bromofluorobenzene (4-BFB) [40]	55.3	61.3	µg/L	1	50	111	123	86.4 - 117

Matrix Spike (xMS-1) Spiked Sample:

QC Batch: 67315 | Date Analyzed: 2010-02-04 | Analyzed By: TP
Prep Batch: 57555 | QC Preparation: 2010-02-04 | Prepared By: TP

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Total Mercury	0.00411	mg/L	1	0.00400	<0.0000388	103	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Total Mercury	0.00408	mg/L	1	0.00400	<0.0000388	102	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 221053

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Calcium	366	mg/L	3	50.0	319	94	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Calcium	369	mg/L	3	50.0	319	100	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

[40] 8260 Only - One surrogate is out of control limits. The other two surrogates show the sample preparation was performed properly.

Matrix Spike (MS-1) Spiked Sample: 221053

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Potassium	60.7	mg/L	1	50.0	10.8	100	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Potassium	60.3	mg/L	1	50.0	10.8	99	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 221053

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Magnesium	153	mg/L	1	50.0	108	90	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Magnesium	152	mg/L	1	50.0	108	88	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Matrix Spike (MS-1) Spiked Sample: 221053

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP
Prep Batch: 57630 | QC Preparation: 2010-02-08 | Prepared By: KV

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Dissolved Sodium	249	mg/L	1	50.0	198	102	75 - 125

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Dissolved Sodium	246	mg/L	1	50.0	198	96	75 - 125	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Standard (ICV-1)

QC Batch: 67108 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2010-01-28
Carbonate Alkalinity		mg/L as CaCo3	0.00	246		0 - 200	2010-01-28
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	20.0		0 - 200	2010-01-28
Total Alkalinity		mg/L as CaCo3	250	266	106	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67108 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Hydroxide Alkalinity		mg/L as CaCo3	0.00	<1.00		0 - 200	2010-01-28
Carbonate Alkalinity		mg/L as CaCo3	0.00	172		0 - 200	2010-01-28
Bicarbonate Alkalinity		mg/L as CaCo3	0.00	87.0		0 - 200	2010-01-28
Total Alkalinity		mg/L as CaCo3	250	259	104	90 - 110	2010-01-28

Standard (ICV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	25.0	23.2	93	90 - 110	2010-01-28

Standard (ICV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	5.00	4.67	93	90 - 110	2010-01-28

Standard (ICV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	5.00	4.49	90	90 - 110	2010-01-28

Standard (ICV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	25.0	24.8	99	90 - 110	2010-01-28

Standard (ICV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
PO4-P		mg/L	25.0	24.8	99	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Chloride		mg/L	25.0	23.1	92	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Fluoride		mg/L	5.00	4.75	95	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Nitrate-N		mg/L	5.00	4.67	93	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Sulfate		mg/L	25.0	24.6	98	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67125 Date Analyzed: 2010-01-28 Analyzed By: AR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
PO4-P		mg/L	25.0	24.6	98	90 - 110	2010-01-28

Standard (CCV-1)

QC Batch: 67170 Date Analyzed: 2010-01-29 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	49.0	98	80 - 120	2010-01-29
Dichlorodifluoromethane	[41]	µg/L	50.0	75.4	151	80 - 120	2010-01-29
Chloromethane (methyl chloride)	[42]	µg/L	50.0	63.2	126	80 - 120	2010-01-29
Vinyl Chloride	[43]	µg/L	50.0	60.4	121	80 - 120	2010-01-29
Bromomethane (methyl bromide)		µg/L	50.0	56.2	112	80 - 120	2010-01-29
Chloroethane		µg/L	50.0	55.2	110	80 - 120	2010-01-29
Trichlorofluoromethane	[44]	µg/L	50.0	72.0	144	80 - 120	2010-01-29
Acetone		µg/L	50.0	49.5	99	80 - 120	2010-01-29
Iodomethane (methyl iodide)		µg/L	50.0	54.8	110	80 - 120	2010-01-29
Carbon Disulfide		µg/L	50.0	49.2	98	80 - 120	2010-01-29
Acrylonitrile		µg/L	50.0	47.0	94	80 - 120	2010-01-29
2-Butanone (MEK)		µg/L	50.0	41.4	83	80 - 120	2010-01-29
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	40.2	80	80 - 120	2010-01-29
2-Hexanone		µg/L	50.0	43.5	87	80 - 120	2010-01-29
trans 1,4-Dichloro-2-butene		µg/L	50.0	47.8	96	80 - 120	2010-01-29

continued ...

[41] Analyte recovery outside CCV limits. Concentration biased high. •
[42] Analyte recovery outside CCV limits. Concentration biased high. •
[43] Analyte recovery outside CCV limits. Concentration biased high. •
[44] Analyte recovery outside CCV limits. Concentration biased high. •

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
1,1-Dichloroethene		µg/L	50.0	50.9	102	80 - 120	2010-01-29
Methylene chloride		µg/L	50.0	40.4	81	80 - 120	2010-01-29
MTBE		µg/L	50.0	49.7	99	80 - 120	2010-01-29
trans-1,2-Dichloroethene		µg/L	50.0	51.1	102	80 - 120	2010-01-29
1,1-Dichloroethane		µg/L	50.0	49.6	99	80 - 120	2010-01-29
cis-1,2-Dichloroethene		µg/L	50.0	47.6	95	80 - 120	2010-01-29
2,2-Dichloropropane		µg/L	50.0	53.7	107	80 - 120	2010-01-29
1,2-Dichloroethane (EDC)		µg/L	50.0	51.8	104	80 - 120	2010-01-29
Chloroform		µg/L	50.0	50.5	101	80 - 120	2010-01-29
1,1,1-Trichloroethane		µg/L	50.0	53.2	106	80 - 120	2010-01-29
1,1-Dichloropropene		µg/L	50.0	51.5	103	80 - 120	2010-01-29
Benzene		µg/L	50.0	47.9	96	80 - 120	2010-01-29
Carbon Tetrachloride		µg/L	50.0	59.1	118	80 - 120	2010-01-29
1,2-Dichloropropane		µg/L	50.0	47.8	96	80 - 120	2010-01-29
Trichloroethene (TCE)		µg/L	50.0	48.2	96	80 - 120	2010-01-29
Dibromomethane (methylene bromide)		µg/L	50.0	49.1	98	80 - 120	2010-01-29
Bromodichloromethane		µg/L	50.0	54.2	108	80 - 120	2010-01-29
2-Chloroethyl vinyl ether		µg/L	50.0	41.5	83	80 - 120	2010-01-29
cis-1,3-Dichloropropene		µg/L	50.0	49.9	100	80 - 120	2010-01-29
trans-1,3-Dichloropropene		µg/L	50.0	50.6	101	80 - 120	2010-01-29
Toluene		µg/L	50.0	47.9	96	80 - 120	2010-01-29
1,1,2-Trichloroethane		µg/L	50.0	44.1	88	80 - 120	2010-01-29
1,3-Dichloropropane		µg/L	50.0	47.1	94	80 - 120	2010-01-29
Dibromochloromethane		µg/L	50.0	51.0	102	80 - 120	2010-01-29
1,2-Dibromoethane (EDB)		µg/L	50.0	45.2	90	80 - 120	2010-01-29
Tetrachloroethene (PCE)	[45]	µg/L	50.0	37.2	74	80 - 120	2010-01-29
Chlorobenzene		µg/L	50.0	46.6	93	80 - 120	2010-01-29
1,1,1,2-Tetrachloroethane		µg/L	50.0	53.2	106	80 - 120	2010-01-29
Ethylbenzene		µg/L	50.0	47.8	96	80 - 120	2010-01-29
m,p-Xylene		µg/L	100	97.2	97	80 - 120	2010-01-29
Bromoform		µg/L	50.0	53.6	107	80 - 120	2010-01-29
Styrene		µg/L	50.0	48.4	97	80 - 120	2010-01-29
o-Xylene		µg/L	50.0	49.3	99	80 - 120	2010-01-29
1,1,2,2-Tetrachloroethane		µg/L	50.0	42.9	86	80 - 120	2010-01-29
2-Chlorotoluene		µg/L	50.0	48.4	97	80 - 120	2010-01-29
1,2,3-Trichloropropane		µg/L	50.0	43.3	87	80 - 120	2010-01-29
Isopropylbenzene		µg/L	50.0	49.2	98	80 - 120	2010-01-29
Bromobenzene		µg/L	50.0	46.7	93	80 - 120	2010-01-29
n-Propylbenzene		µg/L	50.0	51.3	103	80 - 120	2010-01-29
1,3,5-Trimethylbenzene		µg/L	50.0	50.0	100	80 - 120	2010-01-29
tert-Butylbenzene		µg/L	50.0	52.6	105	80 - 120	2010-01-29
1,2,4-Trimethylbenzene		µg/L	50.0	50.1	100	80 - 120	2010-01-29
1,4-Dichlorobenzene (para)		µg/L	50.0	48.2	96	80 - 120	2010-01-29
sec-Butylbenzene		µg/L	50.0	50.5	101	80 - 120	2010-01-29
1,3-Dichlorobenzene (meta)		µg/L	50.0	48.5	97	80 - 120	2010-01-29

continued ...

[45] Analyte recovery outside CCV limits. Concentration biased low. •

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
p-Isopropyltoluene		µg/L	50.0	51.4	103	80 - 120	2010-01-29
4-Chlorotoluene		µg/L	50.0	48.5	97	80 - 120	2010-01-29
1,2-Dichlorobenzene (ortho)		µg/L	50.0	47.8	96	80 - 120	2010-01-29
n-Butylbenzene		µg/L	50.0	51.3	103	80 - 120	2010-01-29
1,2-Dibromo-3-chloropropane		µg/L	50.0	42.6	85	80 - 120	2010-01-29
1,2,3-Trichlorobenzene		µg/L	50.0	43.4	87	80 - 120	2010-01-29
1,2,4-Trichlorobenzene		µg/L	50.0	48.6	97	80 - 120	2010-01-29
Naphthalene		µg/L	50.0	40.6	81	80 - 120	2010-01-29
Hexachlorobutadiene		µg/L	50.0	55.8	112	80 - 120	2010-01-29

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	1.02	102	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt		mg/L	1.00	0.997	100	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.988	99	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.956	96	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.02	102	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		mg/L	1.00	1.01	101	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		mg/L	1.00	1.04	104	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	0.989	99	90 - 110	2010-02-01

Standard (ICV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.250	0.247	99	90 - 110	2010-02-01
Total Arsenic		mg/L	2.00	2.00	100	90 - 110	2010-02-01
Total Barium		mg/L	1.00	0.994	99	90 - 110	2010-02-01
Total Cadmium		mg/L	1.00	0.985	98	90 - 110	2010-02-01
Total Chromium		mg/L	1.00	0.993	99	90 - 110	2010-02-01
Total Lead		mg/L	2.00	2.00	100	90 - 110	2010-02-01
Total Selenium		mg/L	1.00	0.981	98	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Aluminum		mg/L	1.00	0.993	99	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Cobalt		mg/L	1.00	1.03	103	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Copper		mg/L	1.00	0.978	98	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Iron		mg/L	1.00	0.998	100	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Manganese		mg/L	1.00	1.04	104	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Molybdenum		mg/L	1.00	1.01	101	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Nickel		mg/L	1.00	1.05	105	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Zinc		mg/L	1.00	1.03	103	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67189 Date Analyzed: 2010-02-01 Analyzed By: RR

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Silver		mg/L	0.125	0.126	101	90 - 110	2010-02-01
Total Arsenic		mg/L	1.00	1.02	102	90 - 110	2010-02-01
Total Barium		mg/L	1.00	0.986	99	90 - 110	2010-02-01
Total Cadmium		mg/L	1.00	1.01	101	90 - 110	2010-02-01
Total Chromium		mg/L	1.00	0.995	100	90 - 110	2010-02-01

continued ...

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Lead		mg/L	1.00	1.03	103	90 - 110	2010-02-01
Total Selenium		mg/L	1.00	1.02	102	90 - 110	2010-02-01

Standard (CCV-1)

QC Batch: 67250 Date Analyzed: 2010-02-02 Analyzed By: KB

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	46.4	93	80 - 120	2010-02-02
Dichlorodifluoromethane	[46]	µg/L	50.0	68.4	137	80 - 120	2010-02-02
Chloromethane (methyl chloride)	[47]	µg/L	50.0	64.2	128	80 - 120	2010-02-02
Vinyl Chloride	[48]	µg/L	50.0	61.6	123	80 - 120	2010-02-02
Bromomethane (methyl bromide)		µg/L	50.0	49.9	100	80 - 120	2010-02-02
Chloroethane		µg/L	50.0	51.0	102	80 - 120	2010-02-02
Trichlorofluoromethane	[49]	µg/L	50.0	75.7	151	80 - 120	2010-02-02
Acetone		µg/L	50.0	53.4	107	80 - 120	2010-02-02
Iodomethane (methyl iodide)		µg/L	50.0	57.4	115	80 - 120	2010-02-02
Carbon Disulfide		µg/L	50.0	56.1	112	80 - 120	2010-02-02
Acrylonitrile		µg/L	50.0	47.5	95	80 - 120	2010-02-02
2-Butanone (MEK)	[50]	µg/L	50.0	35.7	71	80 - 120	2010-02-02
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	40.6	81	80 - 120	2010-02-02
2-Hexanone		µg/L	50.0	39.8	80	80 - 120	2010-02-02
trans 1,4-Dichloro-2-butene		µg/L	50.0	58.4	117	80 - 120	2010-02-02
1,1-Dichloroethene		µg/L	50.0	56.0	112	80 - 120	2010-02-02
Methylene chloride		µg/L	50.0	45.6	91	80 - 120	2010-02-02
MTBE		µg/L	50.0	54.4	109	80 - 120	2010-02-02
trans-1,2-Dichloroethene		µg/L	50.0	55.7	111	80 - 120	2010-02-02
1,1-Dichloroethane		µg/L	50.0	47.1	94	80 - 120	2010-02-02
cis-1,2-Dichloroethene		µg/L	50.0	44.5	89	80 - 120	2010-02-02
2,2-Dichloropropane		µg/L	50.0	58.3	117	80 - 120	2010-02-02
1,2-Dichloroethane (EDC)		µg/L	50.0	52.8	106	80 - 120	2010-02-02
Chloroform		µg/L	50.0	49.7	99	80 - 120	2010-02-02
1,1,1-Trichloroethane		µg/L	50.0	55.8	112	80 - 120	2010-02-02
1,1-Dichloropropene		µg/L	50.0	48.7	97	80 - 120	2010-02-02
Benzene		µg/L	50.0	44.7	89	80 - 120	2010-02-02
Carbon Tetrachloride	[51]	µg/L	50.0	60.7	121	80 - 120	2010-02-02
1,2-Dichloropropane		µg/L	50.0	45.0	90	80 - 120	2010-02-02
Trichloroethene (TCE)		µg/L	50.0	47.1	94	80 - 120	2010-02-02

continued ...

[46] Analyte recovery outside CCV limits. Concentration biased high. •
[47] Analyte recovery outside CCV limits. Concentration biased high. •
[48] Analyte recovery outside CCV limits. Concentration biased high. •
[49] Analyte recovery outside CCV limits. Concentration biased high. •
[50] Analyte recovery outside CCV limits. Concentration biased low. •
[51] Analyte recovery outside CCV limits. Concentration biased high. •

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dibromomethane (methylene bromide)		µg/L	50.0	48.0	96	80 - 120	2010-02-02
Bromodichloromethane		µg/L	50.0	53.1	106	80 - 120	2010-02-02
2-Chloroethyl vinyl ether	[52]	µg/L	50.0	39.7	79	80 - 120	2010-02-02
cis-1,3-Dichloropropene		µg/L	50.0	48.5	97	80 - 120	2010-02-02
trans-1,3-Dichloropropene		µg/L	50.0	50.4	101	80 - 120	2010-02-02
Toluene		µg/L	50.0	46.1	92	80 - 120	2010-02-02
1,1,2-Trichloroethane		µg/L	50.0	46.4	93	80 - 120	2010-02-02
1,3-Dichloropropane		µg/L	50.0	48.0	96	80 - 120	2010-02-02
Dibromochloromethane		µg/L	50.0	42.9	86	80 - 120	2010-02-02
1,2-Dibromoethane (EDB)		µg/L	50.0	44.8	90	80 - 120	2010-02-02
Tetrachloroethene (PCE)	[53]	µg/L	50.0	34.4	69	80 - 120	2010-02-02
Chlorobenzene		µg/L	50.0	45.2	90	80 - 120	2010-02-02
1,1,1,2-Tetrachloroethane		µg/L	50.0	51.4	103	80 - 120	2010-02-02
Ethylbenzene		µg/L	50.0	47.6	95	80 - 120	2010-02-02
m,p-Xylene		µg/L	100	92.4	92	80 - 120	2010-02-02
Bromoform		µg/L	50.0	50.7	101	80 - 120	2010-02-02
Styrene		µg/L	50.0	48.9	98	80 - 120	2010-02-02
o-Xylene		µg/L	50.0	49.6	99	80 - 120	2010-02-02
1,1,2,2-Tetrachloroethane		µg/L	50.0	43.2	86	80 - 120	2010-02-02
2-Chlorotoluene		µg/L	50.0	45.0	90	80 - 120	2010-02-02
1,2,3-Trichloropropane		µg/L	50.0	40.6	81	80 - 120	2010-02-02
Isopropylbenzene		µg/L	50.0	45.4	91	80 - 120	2010-02-02
Bromobenzene		µg/L	50.0	42.8	86	80 - 120	2010-02-02
n-Propylbenzene		µg/L	50.0	43.4	87	80 - 120	2010-02-02
1,3,5-Trimethylbenzene		µg/L	50.0	46.5	93	80 - 120	2010-02-02
tert-Butylbenzene		µg/L	50.0	45.6	91	80 - 120	2010-02-02
1,2,4-Trimethylbenzene		µg/L	50.0	43.6	87	80 - 120	2010-02-02
1,4-Dichlorobenzene (para)		µg/L	50.0	44.4	89	80 - 120	2010-02-02
sec-Butylbenzene		µg/L	50.0	46.4	93	80 - 120	2010-02-02
1,3-Dichlorobenzene (meta)		µg/L	50.0	45.3	91	80 - 120	2010-02-02
p-Isopropyltoluene		µg/L	50.0	47.7	95	80 - 120	2010-02-02
4-Chlorotoluene		µg/L	50.0	45.6	91	80 - 120	2010-02-02
1,2-Dichlorobenzene (ortho)		µg/L	50.0	44.5	89	80 - 120	2010-02-02
n-Butylbenzene		µg/L	50.0	47.9	96	80 - 120	2010-02-02
1,2-Dibromo-3-chloropropane		µg/L	50.0	44.1	88	80 - 120	2010-02-02
1,2,3-Trichlorobenzene		µg/L	50.0	44.0	88	80 - 120	2010-02-02
1,2,4-Trichlorobenzene		µg/L	50.0	47.2	94	80 - 120	2010-02-02
Naphthalene		µg/L	50.0	43.0	86	80 - 120	2010-02-02
Hexachlorobutadiene		µg/L	50.0	44.8	90	80 - 120	2010-02-02

Standard (CCV-2)

QC Batch: 67250 Date Analyzed: 2010-02-02 Analyzed By: KB

[52] Analyte recovery outside CCV limits. Concentration biased low. •
[53] Analyte recovery outside CCV limits. Concentration biased low. •

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromochloromethane		µg/L	50.0	53.7	107	80 - 120	2010-02-02
Dichlorodifluoromethane	[54]	µg/L	50.0	66.5	133	80 - 120	2010-02-02
Chloromethane (methyl chloride)		µg/L	50.0	58.4	117	80 - 120	2010-02-02
Vinyl Chloride		µg/L	50.0	54.8	110	80 - 120	2010-02-02
Bromomethane (methyl bromide)		µg/L	50.0	43.0	86	80 - 120	2010-02-02
Chloroethane		µg/L	50.0	43.8	88	80 - 120	2010-02-02
Trichlorofluoromethane	[55]	µg/L	50.0	67.0	134	80 - 120	2010-02-02
Acetone		µg/L	50.0	41.4	83	80 - 120	2010-02-02
Iodomethane (methyl iodide)		µg/L	50.0	60.1	120	80 - 120	2010-02-02
Carbon Disulfide		µg/L	50.0	55.0	110	80 - 120	2010-02-02
Acrylonitrile		µg/L	50.0	54.0	108	80 - 120	2010-02-02
2-Butanone (MEK)		µg/L	50.0	40.9	82	80 - 120	2010-02-02
4-Methyl-2-pentanone (MIBK)		µg/L	50.0	50.0	100	80 - 120	2010-02-02
2-Hexanone		µg/L	50.0	51.7	103	80 - 120	2010-02-02
trans 1,4-Dichloro-2-butene		µg/L	50.0	55.9	112	80 - 120	2010-02-02
1,1-Dichloroethene		µg/L	50.0	51.7	103	80 - 120	2010-02-02
Methylene chloride		µg/L	50.0	54.1	108	80 - 120	2010-02-02
MTBE		µg/L	50.0	55.0	110	80 - 120	2010-02-02
trans-1,2-Dichloroethene		µg/L	50.0	54.1	108	80 - 120	2010-02-02
1,1-Dichloroethane		µg/L	50.0	56.8	114	80 - 120	2010-02-02
cis-1,2-Dichloroethene		µg/L	50.0	53.6	107	80 - 120	2010-02-02
2,2-Dichloropropane		µg/L	50.0	48.0	96	80 - 120	2010-02-02
1,2-Dichloroethane (EDC)		µg/L	50.0	58.9	118	80 - 120	2010-02-02
Chloroform		µg/L	50.0	57.2	114	80 - 120	2010-02-02
1,1,1-Trichloroethane		µg/L	50.0	56.5	113	80 - 120	2010-02-02
1,1-Dichloropropene		µg/L	50.0	54.8	110	80 - 120	2010-02-02
Benzene		µg/L	50.0	54.0	108	80 - 120	2010-02-02
Carbon Tetrachloride		µg/L	50.0	57.7	115	80 - 120	2010-02-02
1,2-Dichloropropane		µg/L	50.0	57.0	114	80 - 120	2010-02-02
Trichloroethene (TCE)		µg/L	50.0	54.2	108	80 - 120	2010-02-02
Dibromomethane (methylene bromide)		µg/L	50.0	54.8	110	80 - 120	2010-02-02
Bromodichloromethane		µg/L	50.0	56.1	112	80 - 120	2010-02-02
2-Chloroethyl vinyl ether		µg/L	50.0	45.2	90	80 - 120	2010-02-02
cis-1,3-Dichloropropene		µg/L	50.0	55.1	110	80 - 120	2010-02-02
trans-1,3-Dichloropropene		µg/L	50.0	56.4	113	80 - 120	2010-02-02
Toluene		µg/L	50.0	54.9	110	80 - 120	2010-02-02
1,1,2-Trichloroethane		µg/L	50.0	51.1	102	80 - 120	2010-02-02
1,3-Dichloropropane		µg/L	50.0	53.4	107	80 - 120	2010-02-02
Dibromochloromethane		µg/L	50.0	52.1	104	80 - 120	2010-02-02
1,2-Dibromoethane (EDB)		µg/L	50.0	49.0	98	80 - 120	2010-02-02
Tetrachloroethene (PCE)		µg/L	50.0	59.0	118	80 - 120	2010-02-02
Chlorobenzene		µg/L	50.0	48.8	98	80 - 120	2010-02-02
1,1,1,2-Tetrachloroethane		µg/L	50.0	53.2	106	80 - 120	2010-02-02
Ethylbenzene		µg/L	50.0	52.2	104	80 - 120	2010-02-02
m,p-Xylene		µg/L	100	106	106	80 - 120	2010-02-02

continued ...

[54] Analyte recovery outside CCV limits. Concentration biased high.
[55] Analyte recovery outside CCV limits. Concentration biased high.

standard continued ...

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Bromoform		µg/L	50.0	54.5	109	80 - 120	2010-02-02
Styrene		µg/L	50.0	53.2	106	80 - 120	2010-02-02
o-Xylene		µg/L	50.0	52.9	106	80 - 120	2010-02-02
1,1,2,2-Tetrachloroethane		µg/L	50.0	45.4	91	80 - 120	2010-02-02
2-Chlorotoluene		µg/L	50.0	51.1	102	80 - 120	2010-02-02
1,2,3-Trichloropropane		µg/L	50.0	50.8	102	80 - 120	2010-02-02
Isopropylbenzene		µg/L	50.0	50.4	101	80 - 120	2010-02-02
Bromobenzene		µg/L	50.0	50.6	101	80 - 120	2010-02-02
n-Propylbenzene		µg/L	50.0	51.2	102	80 - 120	2010-02-02
1,3,5-Trimethylbenzene		µg/L	50.0	50.6	101	80 - 120	2010-02-02
tert-Butylbenzene		µg/L	50.0	49.9	100	80 - 120	2010-02-02
1,2,4-Trimethylbenzene		µg/L	50.0	50.5	101	80 - 120	2010-02-02
1,4-Dichlorobenzene (para)		µg/L	50.0	48.2	96	80 - 120	2010-02-02
sec-Butylbenzene		µg/L	50.0	50.1	100	80 - 120	2010-02-02
1,3-Dichlorobenzene (meta)		µg/L	50.0	48.8	98	80 - 120	2010-02-02
p-Isopropyltoluene		µg/L	50.0	49.2	98	80 - 120	2010-02-02
4-Chlorotoluene		µg/L	50.0	51.1	102	80 - 120	2010-02-02
1,2-Dichlorobenzene (ortho)		µg/L	50.0	49.1	98	80 - 120	2010-02-02
n-Butylbenzene		µg/L	50.0	49.2	98	80 - 120	2010-02-02
1,2-Dibromo-3-chloropropane		µg/L	50.0	44.4	89	80 - 120	2010-02-02
1,2,3-Trichlorobenzene		µg/L	50.0	43.5	87	80 - 120	2010-02-02
1,2,4-Trichlorobenzene		µg/L	50.0	44.7	89	80 - 120	2010-02-02
Naphthalene		µg/L	50.0	43.2	86	80 - 120	2010-02-02
Hexachlorobutadiene		µg/L	50.0	47.5	95	80 - 120	2010-02-02

Standard (CCV-1)

QC Batch: 67315 Date Analyzed: 2010-02-04 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00501	100	90 - 110	2010-02-04

Standard (CCV-2)

QC Batch: 67315 Date Analyzed: 2010-02-04 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Total Mercury		mg/L	0.00500	0.00479	96	90 - 110	2010-02-04

Standard (CCV-1)

QC Batch: 67319 Date Analyzed: 2010-02-04 Analyzed By: MN

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Phenol		mg/L	60.0	61.8	103	80 - 120	2010-02-04
1,4-Dichlorobenzene (para)		mg/L	60.0	62.6	104	80 - 120	2010-02-04
2-Nitrophenol		mg/L	60.0	71.7	120	80 - 120	2010-02-04
2,4-Dichlorophenol		mg/L	60.0	66.8	111	80 - 120	2010-02-04
Hexachlorobutadiene		mg/L	60.0	62.4	104	80 - 120	2010-02-04
4-Chloro-3-methylphenol		mg/L	60.0	57.6	96	80 - 120	2010-02-04
2,4,6-Trichlorophenol		mg/L	60.0	68.3	114	80 - 120	2010-02-04
Acenaphthene		mg/L	60.0	61.7	103	80 - 120	2010-02-04
Diphenylamine		mg/L	60.0	60.8	101	80 - 120	2010-02-04
Pentachlorophenol		mg/L	60.0	71.1	118	80 - 120	2010-02-04
Fluoranthene		mg/L	60.0	57.9	96	80 - 120	2010-02-04
Di-n-octylphthalate		mg/L	60.0	72.3	120	80 - 120	2010-02-04
Benzo(a)pyrene		mg/L	60.0	64.4	107	80 - 120	2010-02-04

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limit
2-Fluorophenol		66.0	mg/L	1	60.0	110	80 - 120
Phenol-d5		63.7	mg/L	1	60.0	106	80 - 120
Nitrobenzene-d5		64.6	mg/L	1	60.0	108	80 - 120
2-Fluorobiphenyl		60.6	mg/L	1	60.0	101	80 - 120
2,4,6-Tribromophenol		70.8	mg/L	1	60.0	118	80 - 120
Terphenyl-d14		62.2	mg/L	1	60.0	104	80 - 120

Standard (ICV-1)

QC Batch: 67424 Date Analyzed: 2010-02-10 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	52.6	105	90 - 110	2010-02-10

Standard (ICV-1)

QC Batch: 67424 Date Analyzed: 2010-02-10 Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Potassium		mg/L	50.0	49.4	99	90 - 110	2010-02-10

Standard (ICV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Magnesium		mg/L	50.0	52.6	105	90 - 110	2010-02-10

Standard (ICV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	51.1	102	90 - 110	2010-02-10

Standard (CCV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Calcium		mg/L	50.0	53.0	106	90 - 110	2010-02-10

Standard (CCV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Potassium		mg/L	50.0	49.5	99	90 - 110	2010-02-10

Standard (CCV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Magnesium		mg/L	50.0	52.9	106	90 - 110	2010-02-10

Standard (CCV-1)

QC Batch: 67424 | Date Analyzed: 2010-02-10 | Analyzed By: TP

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Dissolved Sodium		mg/L	50.0	51.0	102	90 - 110	2010-02-10

LAB Order ID # 10012803

Page 1 of 1

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Contact Person: Chan Patel
E-mail: cpatel@premiercop-usa.com
Invoice to: (If different from above) PAAPL
Project #: 205068
Project Name: Vac Total #3 2003-00117
Project Location (including state): Lea Co NM
Sampler Signature: Matt Grubbs

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME
220902	RW4			X										1-27-10	16:35
903	RW5														17:20
904	MW8														17:30

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB #	MTBE 8021 / 602 / 8260 / 624	BTEX 8021 / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, F, SO4, NO3, NO2, Alkalinity (PO4)	Na, Ca, Mg, K, TDS, EC	Cu, Fe, Mn, Zn, Al, Ca, Ni, Mo				Turn Around Time if different from standard	Hold
220902						X						X	X					X	X	X				
903						X						X	X					X	X	X				
904						X						X	X					X	X	X				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
Matt Grubbs	Premier	1-28-10	8:42		Trace	1/28/10	8:42	INST ____ OBS 4.0 °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Trace	1/28/10	17:00					INST ____ OBS ____ °C COR ____ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
				Carol Fox	Trace LBK	1-29-10	9:20 AM	INST IR OBS 4.0 °C COR 4.4 °C

LAB USE ONLY

Intact (Y) / N
Headspace Y / (N) NA
Log-in-Review

REMARKS:

Midland - Cl, Fl, SO4, NO3, PO4, Alkalinity

Lubbock - All other tests

- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-IN (LS ZJ524301)

ORIGINAL COPY

TRACEANALYSIS, INC.

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Certifications

WBENC: 237019 **HUB:** 1752439743100-86536 **DBE:** VN 20657
NCTRCA WFWB38444Y0909

NELAP Certifications

Lubbock: T104704219-08-TX LELAP-02003 Kansas E-10317 **El Paso:** T104704221-08-TX LELAP-02002 **Midland:** T104704392-08-TX

Analytical and Quality Control Report

Chan Patel
Premier Environmental
4800 Sugar Grove Blvd.
Suite 420
Stafford, TX, 77477-2635

Report Date: January 25, 2010

Work Order: 10012112

Project Location: Lea Co., NM
Project Name: Vac. to Jal #3
Project Number: 205068
SRS#: 2003-00117

Enclosed are the Analytical Report and Quality Control Report for the following sample(s) submitted to TraceAnalysis, Inc.

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
220236	PRW-5-43-44	soil	2010-01-20	09:30	2010-01-21
220237	PRW-4-45-50	soil	2010-01-19	15:45	2010-01-21
220238	MW-8-45	soil	2010-01-19	11:50	2010-01-21

These results represent only the samples received in the laboratory. The Quality Control Report is generated on a batch basis. All information contained in this report is for the analytical batch(es) in which your sample(s) were analyzed.

TraceAnalysis, Inc.

Notes:
For inorganic analyses, the term MQL should actually read PQL.

Standard Flags

U - Not detected. The analyte is not detected above the SDL.

J - Estimated. The analyte is positively identified and the value is approximated between the SDL and MQL.

B - The sample contains less than ten times the concentration found in the method blank.

JB - The analyte is positively identified and the value is approximated between the SDL and MQL.
The sample contains less than ten times the concentration found in the method blank.
The result should be considered non-detect to the SDL.

Michael Abel

Dr. Blair Leftwich, Director
Dr. Michael Abel, Project Manager

Case Narrative

Samples for project Vac. to Jal #3 were received by TraceAnalysis, Inc. on 2010-01-21 and assigned to work order 10012112. Samples for work order 10012112 were received intact at a temperature of 1.0 C.

Samples were analyzed for the following tests using their respective methods.

Test	Method	Prep Batch	Prep Date	QC Batch	Analysis Date
BTEX	S 8021B	57264	2010-01-22 at 14:00	66976	2010-01-22 at 12:08
TPH DRO - NEW	Mod. 8015B	57241	2010-01-21 at 15:15	66950	2010-01-21 at 15:15
TPH GRO	S 8015B	57264	2010-01-22 at 14:00	66977	2010-01-22 at 12:37

Results for these samples are reported on a wet weight basis unless data package indicates otherwise.

A matrix spike (MS) and matrix spike duplicate (MSD) sample is chosen at random from each preparation batch. The MS and MSD will indicate if a site specific matrix problem is occurring, however, it may not pertain to the samples for work order 10012112 since the sample was chosen at random. Therefore, the validity of the analytical data reported has been determined by the laboratory control sample (LCS) and the method blank (MB). These quality control measures are performed with each preparation batch to ensure data integrity.

All other exceptions associated with this report have been footnoted on the appropriate analytical page to assist in general data comprehension. Please contact the laboratory directly if there are any questions regarding this project.

Analytical Report

Sample: 220236 - PRW-5-43-44

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	66976	Date Analyzed:	2010-01-22	Analyzed By:	AG
Prep Batch:	57264	Sample Preparation:	2010-01-22	Prepared By:	AG

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene		**2.23**	**2.23**	<0.0820	mg/Kg	20	0.0820	0.01	0.0041
Toluene		**14.0**	**14.0**	<0.0620	mg/Kg	20	0.0620	0.01	0.0031
Ethylbenzene		**18.9**	**18.9**	<0.0480	mg/Kg	20	0.0480	0.01	0.0024
Xylene		**46.4**	**46.4**	<0.130	mg/Kg	20	0.130	0.01	0.0065

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		17.8	mg/Kg	20	20.0	89	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		26.2	mg/Kg	20	20.0	131	43.1 - 158.4

Sample: 220236 - PRW-5-43-44

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	66950	Date Analyzed:	2010-01-21	Analyzed By:	kg
Prep Batch:	57241	Sample Preparation:	2010-01-21	Prepared By:	kg

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO		**1410**	**1410**	<5.86	mg/Kg	1	5.86	50	5.861

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	[1]	181	mg/Kg	1	100	181	70 - 130

Sample: 220236 - PRW-5-43-44

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	66977	Date Analyzed:	2010-01-22	Analyzed By:	AG
Prep Batch:	57264	Sample Preparation:	2010-01-22	Prepared By:	AG

[1] High surrogate recovery due to peak interference.

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO		**1630**	**1630**	<7.93	mg/Kg	20	7.93	1	0.3965

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		19.2	mg/Kg	20	20.0	96	65.3 - 145
4-Bromofluorobenzene (4-BFB)	[2]	30.0	mg/Kg	20	20.0	150	61.7 - 131.1

Sample: 220237 - PRW-4-45-50

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	66976	Date Analyzed:	2010-01-22	Analyzed By:	AG
Prep Batch:	57264	Sample Preparation:	2010-01-22	Prepared By:	AG

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00410	<0.0100	<0.00410	mg/Kg	1	0.00410	0.01	0.0041
Toluene	U	<0.00310	<0.0100	<0.00310	mg/Kg	1	0.00310	0.01	0.0031
Ethylbenzene		**0.0529**	**0.0529**	<0.00240	mg/Kg	1	0.00240	0.01	0.0024
Xylene		**0.0826**	**0.0826**	<0.00650	mg/Kg	1	0.00650	0.01	0.0065

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		2.10	mg/Kg	1	2.00	105	43.1 - 158.4

Sample: 220237 - PRW-4-45-50

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	66950	Date Analyzed:	2010-01-21	Analyzed By:	kg
Prep Batch:	57241	Sample Preparation:	2010-01-21	Prepared By:	kg

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<5.86	<50.0	<5.86	mg/Kg	1	5.86	50	5.861

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		125	mg/Kg	1	100	125	70 - 130

[2]High surrogate recovery due to peak interference.

Sample: 220237 - PRW-4-45-50

Laboratory:	Midland				
Analysis:	TPH GRO	Analytical Method:	S 8015B	Prep Method:	S 5035
QC Batch:	66977	Date Analyzed:	2010-01-22	Analyzed By:	AG
Prep Batch:	57264	Sample Preparation:	2010-01-22	Prepared By:	AG

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO		**20.8**	**20.8**	<0.396	mg/Kg	1	0.396	1	0.3965

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.13	mg/Kg	1	2.00	106	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.50	mg/Kg	1	2.00	125	61.7 - 131.1

Sample: 220238 - MW-8-45

Laboratory:	Midland				
Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5035
QC Batch:	66976	Date Analyzed:	2010-01-22	Analyzed By:	AG
Prep Batch:	57264	Sample Preparation:	2010-01-22	Prepared By:	AG

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
Benzene	U	<0.00410	<0.0100	<0.00410	mg/Kg	1	0.00410	0.01	0.0041
Toluene	U	<0.00310	<0.0100	<0.00310	mg/Kg	1	0.00310	0.01	0.0031
Ethylbenzene	U	<0.00240	<0.0100	<0.00240	mg/Kg	1	0.00240	0.01	0.0024
Xylene	U	<0.00650	<0.0100	<0.00650	mg/Kg	1	0.00650	0.01	0.0065

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.89	mg/Kg	1	2.00	94	64.4 - 141.2
4-Bromofluorobenzene (4-BFB)		1.94	mg/Kg	1	2.00	97	43.1 - 158.4

Sample: 220238 - MW-8-45

Laboratory:	Midland				
Analysis:	TPH DRO - NEW	Analytical Method:	Mod. 8015B	Prep Method:	N/A
QC Batch:	66950	Date Analyzed:	2010-01-21	Analyzed By:	kg
Prep Batch:	57241	Sample Preparation:	2010-01-21	Prepared By:	kg

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
DRO	U	<5.86	<50.0	<5.86	mg/Kg	1	5.86	50	5.861

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane	[3]	133	mg/Kg	1	100	133	70 - 130

Sample: 220238 - MW-8-45

Laboratory: Midland
Analysis: TPH GRO | Analytical Method: S 8015B | Prep Method: S 5035
QC Batch: 66977 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | Sample Preparation: 2010-01-22 | Prepared By: AG

Parameter	Flag	SDL Based Result	MQL Based Result	Method Blank Result	Units	Dilution	SDL	MQL (Unadjusted)	MDL (Unadjusted)
GRO	U	<0.396	<1.00	<0.396	mg/Kg	1	0.396	1	0.3965

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.02	mg/Kg	1	2.00	101	65.3 - 145
4-Bromofluorobenzene (4-BFB)		2.04	mg/Kg	1	2.00	102	61.7 - 131.1

Method Blank (1)

QC Batch: 66950 | Date Analyzed: 2010-01-21 | Analyzed By: kg
Prep Batch: 57241 | QC Preparation: 2010-01-21 | Prepared By: kg

Parameter	Flag	Result	Units	Reporting Limits
DRO		<5.86	mg/Kg	5.861

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
n-Tricosane		110	mg/Kg	1	100	110	70 - 130

Method Blank (1)

QC Batch: 66976 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

Parameter	Flag	Result	Units	Reporting Limits
Benzene		<0.00410	mg/Kg	0.0041
Toluene		<0.00310	mg/Kg	0.0031
Ethylbenzene		<0.00240	mg/Kg	0.0024
Xylene		<0.00650	mg/Kg	0.0065

[3]High surrogate recovery due to peak interference.

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		1.93	mg/Kg	1	2.00	96	64.9 - 142.7
4-Bromofluorobenzene (4-BFB)		1.90	mg/Kg	1	2.00	95	43.9 - 141.9

Method Blank (1)

QC Batch: 66977 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

Parameter	Flag	Result	Units	Reporting Limits
GRO		<0.396	mg/Kg	0.3965

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		2.09	mg/Kg	1	2.00	104	66.2 - 145
4-Bromofluorobenzene (4-BFB)		1.97	mg/Kg	1	2.00	98	62 - 120.5

Laboratory Control Spike (LCS-1)

QC Batch: 66950 | Date Analyzed: 2010-01-21 | Analyzed By: kg
Prep Batch: 57241 | QC Preparation: 2010-01-21 | Prepared By: kg

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	312	mg/Kg	1	250	<5.86	125	57.4 - 133.4

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	309	mg/Kg	1	250	<5.86	124	57.4 - 133.4	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
n-Tricosane	125	120	mg/Kg	1	100	125	120	70 - 130

Laboratory Control Spike (LCS-1)

QC Batch: 66976 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

continued ...

control spikes continued ...

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	1.95	mg/Kg	1	2.00	<0.00410	98	75.4 - 115.7
Toluene	1.83	mg/Kg	1	2.00	<0.00310	92	78.4 - 113.6
Ethylbenzene	1.81	mg/Kg	1	2.00	<0.00240	90	76 - 114.2
Xylene	5.44	mg/Kg	1	6.00	<0.00650	91	76.9 - 113.6

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	1.94	mg/Kg	1	2.00	<0.00410	97	75.4 - 115.7	0	20
Toluene	1.82	mg/Kg	1	2.00	<0.00310	91	78.4 - 113.6	0	20
Ethylbenzene	1.78	mg/Kg	1	2.00	<0.00240	89	76 - 114.2	2	20
Xylene	5.40	mg/Kg	1	6.00	<0.00650	90	76.9 - 113.6	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.88	1.80	mg/Kg	1	2.00	94	90	65 - 142.9
4-Bromofluorobenzene (4-BFB)	1.96	1.88	mg/Kg	1	2.00	98	94	43.8 - 144.9

Laboratory Control Spike (LCS-1)

QC Batch: 66977 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	16.5	mg/Kg	1	20.0	<0.396	82	52.5 - 114.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO	16.7	mg/Kg	1	20.0	<0.396	84	52.5 - 114.3	1	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	2.04	2.06	mg/Kg	1	2.00	102	103	66.2 - 148.7
4-Bromofluorobenzene (4-BFB)	2.02	2.02	mg/Kg	1	2.00	101	101	64.1 - 127.4

Matrix Spike (MS-1) Spiked Sample: 220238

QC Batch: 66950 | Date Analyzed: 2010-01-21 | Analyzed By: kg
Prep Batch: 57241 | QC Preparation: 2010-01-21 | Prepared By: kg

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
DRO	229	mg/Kg	1	250	<5.86	92	35.2 - 167.1

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
DRO	215	mg/Kg	1	250	<5.86	86	35.2 - 167.1	6	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
n-Tricosane	92.0	93.2	mg/Kg	1	100	92	93	70 - 130

Matrix Spike (MS-1) Spiked Sample: 219995

QC Batch: 66976 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	2.05	mg/Kg	1	2.00	<0.00410	102	57.7 - 140.7
Toluene	1.96	mg/Kg	1	2.00	<0.00310	98	53.4 - 146.6
Ethylbenzene	1.96	mg/Kg	1	2.00	<0.00240	98	62.1 - 141.6
Xylene	5.94	mg/Kg	1	6.00	<0.00650	99	61.2 - 142.7

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	2.19	mg/Kg	1	2.00	<0.00410	110	57.7 - 140.7	7	20
Toluene	2.10	mg/Kg	1	2.00	<0.00310	105	53.4 - 146.6	7	20
Ethylbenzene	2.13	mg/Kg	1	2.00	<0.00240	106	62.1 - 141.6	8	20
Xylene	6.46	mg/Kg	1	6.00	<0.00650	108	61.2 - 142.7	8	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.85	1.79	mg/Kg	1	2	92	90	62.7 - 139.6
4-Bromofluorobenzene (4-BFB)	1.91	1.84	mg/Kg	1	2	96	92	49.6 - 146.7

Matrix Spike (MS-1) Spiked Sample: 220238

QC Batch: 66977 | Date Analyzed: 2010-01-22 | Analyzed By: AG
Prep Batch: 57264 | QC Preparation: 2010-01-22 | Prepared By: AG

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
GRO	15.5	mg/Kg	1	20.0	<0.396	78	10 - 198.3

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
GRO [4]	19.2	mg/Kg	1	20.0	<0.396	96	10 - 198.3	21	20

Percent recovery is based on the spike result. RPD is based on the spike and spike duplicate result.

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	1.95	1.88	mg/Kg	1	2	98	94	65.5 - 143
4-Bromofluorobenzene (4-BFB)	2.04	1.90	mg/Kg	1	2	102	95	58.6 - 140

Standard (CCV-1)

QC Batch: 66950 Date Analyzed: 2010-01-21 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	239	96	80 - 120	2010-01-21

Standard (CCV-2)

QC Batch: 66950 Date Analyzed: 2010-01-21 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	240	96	80 - 120	2010-01-21

Standard (CCV-3)

QC Batch: 66950 Date Analyzed: 2010-01-21 Analyzed By: kg

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
DRO		mg/Kg	250	239	96	80 - 120	2010-01-21

[4]MS/MSD RPD out of RPD Limits. Use LCS/LCSD to demonstrate analysis is under control.

Standard (CCV-2)

QC Batch: 66976 Date Analyzed: 2010-01-22 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0969	97	80 - 120	2010-01-22
Toluene		mg/Kg	0.100	0.0906	91	80 - 120	2010-01-22
Ethylbenzene		mg/Kg	0.100	0.0899	90	80 - 120	2010-01-22
Xylene		mg/Kg	0.300	0.271	90	80 - 120	2010-01-22

Standard (CCV-3)

QC Batch: 66976 Date Analyzed: 2010-01-22 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/Kg	0.100	0.0994	99	80 - 120	2010-01-22
Toluene		mg/Kg	0.100	0.0949	95	80 - 120	2010-01-22
Ethylbenzene		mg/Kg	0.100	0.0929	93	80 - 120	2010-01-22
Xylene		mg/Kg	0.300	0.281	94	80 - 120	2010-01-22

Standard (CCV-2)

QC Batch: 66977 Date Analyzed: 2010-01-22 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.00	100	80 - 120	2010-01-22

Standard (CCV-3)

QC Batch: 66977 Date Analyzed: 2010-01-22 Analyzed By: AG

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
GRO		mg/Kg	1.00	1.19	119	80 - 120	2010-01-22

LAB Order ID # 10012112

Page 1 of 1

TraceAnalysis, Inc.

email: lab@traceanalysis.com

6701 Aberdeen Avenue, Suite 9
Lubbock, Texas 79424
Tel (806) 794-1296
Fax (806) 794-1298
1 (800) 378-1296

5002 Basin Street, Suite A1
Midland, Texas 79703
Tel (432) 689-6301
Fax (432) 689-6313

200 East Sunset Rd., Suite E
El Paso, Texas 79922
Tel (915) 585-3443
Fax (915) 585-4944
1 (888) 588-3443

BioAquatic Testing
2501 Mayes Rd., Ste 100
Carrollton, Texas 75006
Tel (972) 242-7750

Company Name: Premier Environmental — **Phone #:**

Address: (Street, City, Zip) 4800 Sugar Grove Blvd. #390 Stafford, TX 77477 — **Fax #:**

Contact Person: Chan Patel — **E-mail:** cpatel@premiercorp-usa.com

Invoice to: (If different from above)

Project #: — **Project Name:** Vacuum to Jal #3

Project Location (including state): Vacuum to Jal #3, NM — **Sampler Signature:**

ANALYSIS REQUEST
(Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021 / 602 / 8260 / 624	BTEX 8021B / 602 / 8260 / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270 / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260 / 624	GC/MS Semi. Vol. 8270 / 625	PCB's 8082 / 608	Pesticides 8081 / 608	BOD, TSS, pH	Moisture Content	Cl, Fl, S04, NO3, NO2, Alkalinity	Na, Ca, Mg, K, TDS, EC					Turn Around Time if different from standard	Hold
22286	PRW-5-43-44	1			X							X		1/20/10	9:30		X		X																				
237	PRW-4-45-50	1			X							X		1/19/10	15:45		X		X																				
238	MW-8-45	1			X							X		1/19/10	11:50		X		X																				

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	
	Premier	1/20/2010	10:55	Matt Grubbs	Premier	1-20-10	10:55	INST ___ OBS ___ °C COR ___ °C
Matt Grubbs	Premier	1-21-2010			Trace	1/21/10	8:40	INST ___ OBS 1.0 °C COR ___ °C
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	INST ___ OBS ___ °C COR ___ °C

LAB USE ONLY
Intact (Y) N
Headspace Y / N (NA)
Log-in-Review

REMARKS: All tests-Midland

- Dry Weight Basis Required
- TRRP Report Required
- Check If Special Reporting Limits Are Needed

Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. O. C.

Carrier # Carry-in

ORIGINAL COPY

APPENDIX D

Boring Logs
MW-8
RW-4
RW-5

PREMIER
ENVIRONMENTAL SERVICES, INC.

WELL NUMBER MW-8

PROJECT Vac to Jal #3 LOCATION Lea County, New Mexico

TOTAL WELL DEPTH (ft) 55 BOREHOLE DIA. (in) 6 STICKUP (ft) _____

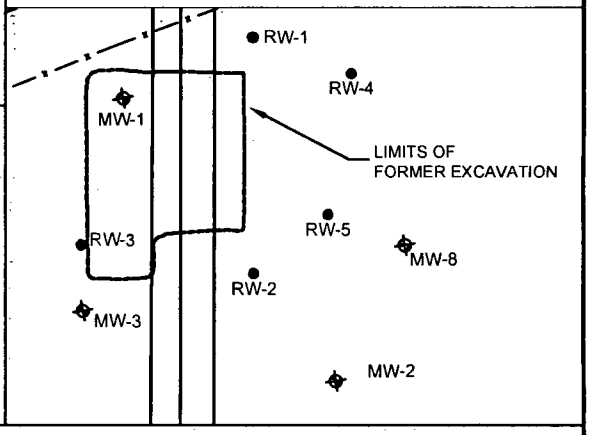
CASING DIA. (in) 2 TYPE PVC SCREEN LENGTH (ft) 20 (35-55) SLOT SIZE (in) 0.0010

DRILLING CO. Straub Corporation DRILLING METHOD Air Rotary

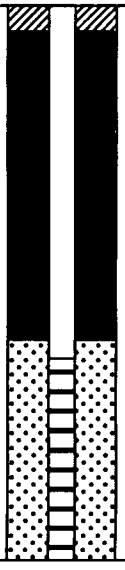
GEOLOGIST Steve Sellepack DATE DRILLED 1-19-10

LONGITUDE _____ LATITUDE _____

LOCATION MAP



DEPTH (feet)	SAMPLE INTERVAL	PID (ppm)	LITHOLOGIC LOG	USCS SOIL CLASSIFICATION	LITHOLOGIC DESCRIPTION/ COMMENTS
0		0.0		SP	Sand, red, fine grained, well sorted, subrounded.
5		0.0			Turns calcified (caliche), white. Some small lithic fragments, rounded.
10		0.0			Same as above, calcified material (caliche).
15		0.0			Caliche
20		0.0		SP/ Caliche	Same as above.
25		0.0			Same as above.
30		0.0			caliche, hard, dense, some iron staining present in fractures.
35		0.0			Same as above, red, heavy iron staining, turns moist.
40		0.0			Clayey Sand, red, increasing in clay content, moist to wet, odor but not hydrocarbon.
45	X	1.3		SM	Clayey Sand, red, sand medium to fine grained, subrounded, wet.
50				CL	Turns to Sandy Clay.
55					Total Depth: 55'



DB: JDW	DATE: 3/10	CK: SS
Rev.		
1.		
2.		

PREMIER
ENVIRONMENTAL SERVICES, INC.

WELL NUMBER RW-4

PROJECT Vac to Jal #3 LOCATION Lea County, New Mexico

TOTAL WELL DEPTH (ft) 55 BOREHOLE DIA. (in) 6 STICKUP (ft) ____

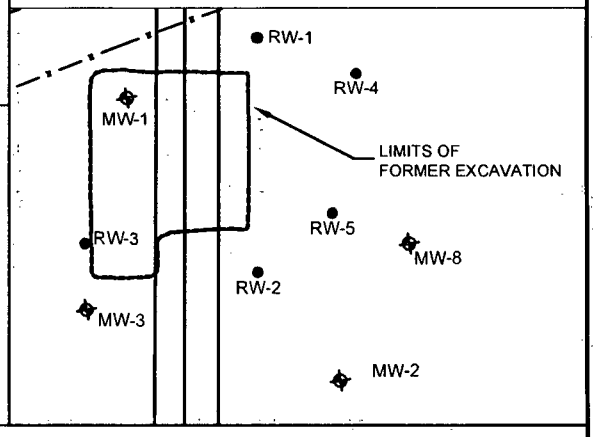
CASING DIA. (in) 4 TYPE PVC SCREEN LENGTH (ft) 15 (38.5-53.5) SLOT SIZE (in) 0.0010

DRILLING CO. Straub Corporation DRILLING METHOD Air Rotary

GEOLOGIST Steve Sellepack DATE DRILLED 1-19-10

LONGITUDE ____ LATITUDE ____

LOCATION MAP



DEPTH (feet)	SAMPLE INTERVAL	PID (ppm)	LITHOLOGIC LOG	USCS SOIL CLASSIFICATION	LITHOLOGIC DESCRIPTION/ COMMENTS
0		0.0		SP	Sand, red, very fine grained, well sorted, subrounded.
5		0.0		SP/ Caliche	Same as above, calcified white hard dense caliche.
10		0.0			Same as above.
15		0.0			Same as above, slightly moist, soft caliche.
20		0.0			Same as above, iron staining on fractures.
25		0.0			Same as above.
30		0.0			Same as above.
35		1.9			Same as above, more red (red to buff), slight odor possibly.
40		25.3		SM	Clayey Sand, fine grained, well sorted, subangular, odor noticed at 43'.
45	X	51.6			Clayey Sand, red, fine grained, strong odor, possibly slight staining. (sample looks more brownish/blackish)
50	X				Cuttings lost (what did come out of hole was same as above)
55					

Total Depth: 55'/ Well Depth: 53.5'

DB: JDW	DATE: 3/10	CK: SS
Rev.		
1.		
2.		

PREMIER
ENVIRONMENTAL SERVICES, INC.

WELL NUMBER RW-5

PROJECT Vac to Jal #3 LOCATION Lea County, New Mexico

TOTAL WELL DEPTH (ft) 55 BOREHOLE DIA. (in) 6 STICKUP (ft) _____

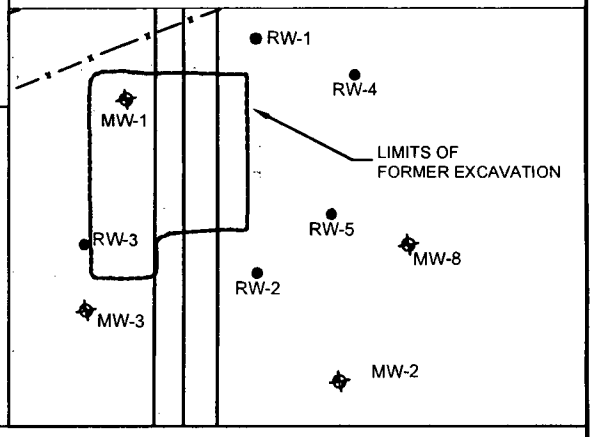
CASING DIA. (in) 4 TYPE PVC SCREEN LENGTH (ft) 15 (40-55) SLOT SIZE (in) 0.0010

DRILLING CO. Straub Corporation DRILLING METHOD Air Rotary

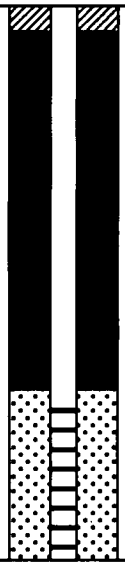
GEOLOGIST Steve Sellepack DATE DRILLED 1-20-10

LONGITUDE _____ LATITUDE _____

LOCATION MAP



DEPTH (feet)	SAMPLE INTERVAL	PID (ppm)	LITHOLOGIC LOG	USCS SOIL CLASSIFICATION	LITHOLOGIC DESCRIPTION/ COMMENTS
0		0.0		SP	Sand, reddish brown, very fine grained, well sorted, subrounded.
5		0.0		SP/ Caliche	Same as above, white calcification (caliche) present.
10		0.0			same as above, buff, few caliche fragments, some lithics, small subrounded.
15		0.0			Same as above, more caliche.
20		0.0			Same as above.
25		0.0			Same as above, very well cemented fragments present.
30		0.0			Same as above.
35		0.0		SM/ Caliche	Mix of above and Clayey Sand, red, fine grained, moist, odor.
40		249.5		SM	Clayey Sand, red, fine grained, strong odor, moist to wet, oil present in sediments. Discrete sample pulled 43-44'.
45		72.8			Clayey Sand, red to grayish, wet.
50					No returns.
55					Total Depth: 55'
60					
65					
70					
75					
80					
85					
90					
100					
105					
110					
115					
120					
125					
130					
135					
140					



DB: JDW	DATE: 3/10	CK: SS
Rev.		
1.		
2.		

APPENDIX E

Drillers Reports

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
VAC TO JAL 14" MAINLINE #3 MW-8	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
PLAINS MARKETING LP	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
333 CLAY STREET, SUITE 1600	HOUSTON / TX / 77078

WELL LOCATION (FROM GPS)	DEGREES	MINUTES	SECONDS	
LATITUDE	32	26	35.00	N
LONGITUDE	103	7	30.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: HWY 18 & 176, LEA CO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP	RANGE
¼	¼	¼	¼		☐ NORTH ☐ SOUTH	☐ EAST ☐ WEST

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1-19-10	1-20-10	55	55	N/A

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA: CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
55	35	6	SCH 40 .010 SCREEN	FJ	2	0.154	0.10
35	+43	6	SCH 40 PVC RISER	FJ	2	0.154	RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	55	33	6	13 BAGS 8/16 SAND		TOPLOAD
	33	2	6	9 BAGS OF 3/8 HOLE PLUG		TOPLOAD
	0	2	6	1 BAG CONCRETE		

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	4	4	TAN CALCAREOUS SAND	☐ YES ☑ NO
4	13	9	TAN SANDY CALICHE	☐ YES ☑ NO
13	25	12	DENSE CALICHE LAYERS	☐ YES ☑ NO
25	35	10	TAN CALCAREOUS SAND	☐ YES ☑ NO
35	40	5	RED SILTY CLAY	☐ YES ☑ NO
40	47	7	RED TAN SANY CLAY	☐ YES ☑ NO
47	48	1	TAN SAND	☐ YES ☑ NO
48	53	5	TAN SANDY CLAY	☐ YES ☑ NO
53	55	2	RED PINK SANDY CLAY	☐ YES ☑ NO
TD	55			☐ YES ☑ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

ABOVE GROUND COMPLETION WITH A - 2X2 CONCRETE PAD

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 1-27-2010

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER)	OSE FILE NUMBER(S)
VAC TO JAL 14" MAINLINE #3 RW-4	
WELL OWNER NAME(S)	**PHONE (OPTIONAL)**
PLAINS MARKETING LP	
WELL OWNER MAILING ADDRESS	**CITY / STATE / ZIP**
333 CLAY STREET, SUITE 1600	HOUSTON / TX / 77078

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	26	35.00	N
	LONGITUDE	103	7	31.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND

* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: HWY 18 & 176, LEA CO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1-19-10	1-20-10	53	53	43

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED)

STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES – SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER – SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
53	38	7	SCH 40 .010 SCREEN	FJ	4	0.154	0.10
38	+43	7	SCH 40 PVC RISER	FJ	4	0.154	RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE

WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

5. SEAL AND PUMP

TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	53	36	7	12 BAGS 8/16 SAND		TOPLOAD
	36	2	7	6 BAGS OF 3/8 HOLE PLUG		TOPLOAD
	0	2	7	1 BAG CONCRETE		

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	1	1	CALICHE	☐ YES ☑ NO
1	5	4	LIGHT BROWN SAND	☐ YES ☑ NO
5	9	4	SANDY CALICHE	☐ YES ☑ NO
9	15	6	TAN CALCAREOUS SAND	☐ YES ☑ NO
15	20	5	TAN CALCAREOUS SAND WITH CALICHE LAYERS	☐ YES ☑ NO
20	33	13	SOFT SILICATED SANDSTONE (CALICHE)	☐ YES ☑ NO
33	35	2	SOFT SANDSTONE	☐ YES ☑ NO
35	38	3	SOFT SILICATED CALICHE	☐ YES ☑ NO
38	41	3	PINK SILTY CLAY WITH SILICATED LAYERS	☐ YES ☑ NO
41	43	2	PINK SILTY SANDY CLAY	☐ YES ☑ NO
43	45	2	BROWN SAND	☐ YES ☑ NO
45	49	4	TAN SANDY CLAY	☐ YES ☑ NO
49	53	4	RED SILTY CLAY	☐ YES ☑ NO
TD	53			☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

ABOVE GROUND COMPLETION WITH A - 4X4 CONCRETE PAD

8. SIGNATURE

THE UNDERSIGNED HEREBY CERTIFIES THAT, TO THE BEST OF HIS OR HER KNOWLEDGE AND BELIEF, THE FOREGOING IS A TRUE AND CORRECT RECORD OF THE ABOVE DESCRIBED HOLE AND THAT HE OR SHE WILL FILE THIS WELL RECORD WITH THE STATE ENGINEER AND THE PERMIT HOLDER WITHIN 20 DAYS AFTER COMPLETION OF WELL DRILLING:

SIGNATURE OF DRILLER — DATE: 1-27-2010

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

WELL RECORD & LOG

OFFICE OF THE STATE ENGINEER

www.ose.state.nm.us

1. GENERAL AND WELL LOCATION

POD NUMBER (WELL NUMBER): VAC TO JAL 14" MAINLINE #3 RW-5	OSE FILE NUMBER(S):
WELL OWNER NAME(S): PLAINS MARKETING LP	PHONE (OPTIONAL):
WELL OWNER MAILING ADDRESS: 333 CLAY STREET, SUITE 1600	CITY: HOUSTON STATE: TX ZIP: 77078

WELL LOCATION (FROM GPS)		DEGREES	MINUTES	SECONDS	
	LATITUDE	32	26	36.00	N
	LONGITUDE	103	7	32.00	W

* ACCURACY REQUIRED: ONE TENTH OF A SECOND
* DATUM REQUIRED: WGS 84

DESCRIPTION RELATING WELL LOCATION TO STREET ADDRESS AND COMMON LANDMARKS: HWY 18 & 176, LEA CO

2. OPTIONAL

(2.5 ACRE)	(10 ACRE)	(40 ACRE)	(160 ACRE)	SECTION	TOWNSHIP ☐ NORTH ☐ SOUTH	RANGE ☐ EAST ☐ WEST
¼	¼	¼	¼			

SUBDIVISION NAME	LOT NUMBER	BLOCK NUMBER	UNIT/TRACT

HYDROGRAPHIC SURVEY	MAP NUMBER	TRACT NUMBER

3. DRILLING INFORMATION

LICENSE NUMBER	NAME OF LICENSED DRILLER	NAME OF WELL DRILLING COMPANY
WD1478	RAYMOND STRAUB JR	STRAUB CORPORATION

DRILLING STARTED	DRILLING ENDED	DEPTH OF COMPLETED WELL (FT)	BORE HOLE DEPTH (FT)	DEPTH WATER FIRST ENCOUNTERED (FT)
1-20-10	1-20-10	55	55	43

COMPLETED WELL IS: ☐ ARTESIAN ☐ DRY HOLE ☑ SHALLOW (UNCONFINED) — STATIC WATER LEVEL IN COMPLETED WELL (FT):

DRILLING FLUID: ☑ AIR ☐ MUD ☐ ADDITIVES - SPECIFY:

DRILLING METHOD: ☑ ROTARY ☐ HAMMER ☐ CABLE TOOL ☐ OTHER - SPECIFY:

DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	CASING MATERIAL	CONNECTION TYPE (CASING)	INSIDE DIA. CASING (IN)	CASING WALL THICKNESS (IN)	SLOT SIZE (IN)
55	40	7	SCH 40 .010 SCREEN	FJ	4	0.154	0.10
40	+43	7	SCH 40 PVC RISER	FJ	4	0.154	RISER

4. WATER BEARING STRATA

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	FORMATION DESCRIPTION OF PRINCIPAL WATER-BEARING STRATA (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	YIELD (GPM)

METHOD USED TO ESTIMATE YIELD OF WATER-BEARING STRATA	TOTAL ESTIMATED WELL YIELD (GPM)

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 1 OF 2

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TYPE OF PUMP: ☐ SUBMERSIBLE ☐ JET ☐ NO PUMP – WELL NOT EQUIPPED
☐ TURBINE ☐ CYLINDER ☐ OTHER – SPECIFY:

ANNULAR SEAL AND GRAVEL PACK	DEPTH (FT) FROM	DEPTH (FT) TO	BORE HOLE DIA. (IN)	MATERIAL TYPE AND SIZE	AMOUNT (CUBIC FT)	METHOD OF PLACEMENT
	55	38	7	12 BAGS 8/16 SAND		TOPLOAD
	38	2	7	7 BAGS OF 3/8 HOLE PLUG		TOPLOAD
	0	2	7	1 BAG CONCRETE		

6. GEOLOGIC LOG OF WELL

DEPTH (FT) FROM	DEPTH (FT) TO	THICKNESS (FT)	COLOR AND TYPE OF MATERIAL ENCOUNTERED (INCLUDE WATER-BEARING CAVITIES OR FRACTURE ZONES)	WATER BEARING?
0	2	2	TAN SANDY CALICHE	☐ YES ☑ NO
2	8	6	BROWN SAND	☐ YES ☑ NO
8	14	6	TAN CALCAREOUS SAND (CALICHE)	☐ YES ☑ NO
14	16	2	TAN SAND	☐ YES ☑ NO
16	18	2	TAN SILTY SAND	☐ YES ☑ NO
18	21	3	CALICHE LAYERS	☐ YES ☑ NO
21	23	2	BROWN SAND	☐ YES ☑ NO
23	27	4	SILICATED CALICHE	☐ YES ☑ NO
27	38	11	SANDY CALICHE	☐ YES ☑ NO
38	39	1	PINK CALICHE	☐ YES ☑ NO
39	44	5	RED SILTY CLAY	☐ YES ☑ NO
44	46	2	BROWN CLAYEY SAND	☐ YES ☑ NO
46	47	1	BROWN SANDSTONE	☐ YES ☑ NO
47	52	5	TAN SANDY CLAY	☐ YES ☑ NO
52	55	3	CLAY	☐ YES ☑ NO
TD	55			☐ YES ☐ NO
				☐ YES ☐ NO

ATTACH ADDITIONAL PAGES AS NEEDED TO FULLY DESCRIBE THE GEOLOGIC LOG OF THE WELL.

7. TEST & ADDITIONAL INFO

WELL TEST — METHOD: ☐ BAILER ☐ PUMP ☐ AIR LIFT ☐ OTHER – SPECIFY:

TEST RESULTS - ATTACH A COPY OF DATA COLLECTED DURING WELL TESTING, INCLUDING START TIME, END TIME, AND A TABLE SHOWING DISCHARGE AND DRAWDOWN OVER THE TESTING PERIOD.

ADDITIONAL STATEMENTS OR EXPLANATIONS:

ABOVE GROUND COMPLETION WITH A - 4X4 CONCRETE PAD

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SIGNATURE OF DRILLER — DATE: 1-27-2010

FOR OSE INTERNAL USE — WELL RECORD & LOG (Version 6/9/08)

FILE NUMBER	POD NUMBER	TRN NUMBER
LOCATION		PAGE 2 OF 2

APPENDIX F

C-141 NMOCD Release Notification Form

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

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

Form C-141
Revised October 10, 2003

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR

☒ Initial Report ☐ Final Report

Name of Company	Plains Pipeline, LP	Contact	Daniel Bryant
Address	P.O. Box 3119 – Midland, Tx 79702	Telephone No.	(432) 557-5865
Facility Name	Vacuum to Jal 14" Mainline #3	Facility Type	Pipeline

Surface Owner	Mineral Owner	Lease No.
Bill Stevens		

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
A	35	21S	37E					Lea

Latitude N 32° 26' 32.67" **Longitude** W 103° 7' 36.885"

NATURE OF RELEASE

Type of Release: Sour Crude Oil	Volume of Release: 3+ bbls	Volume Recovered: 0 bbls
Source of Release: 14" steel transmission pipeline	Date and Hour of Occurrence: 05/08/2003 14:00	Date and Hour of Discovery: 05/08/2003 14:30
Was Immediate Notice Given? *** ☐ Yes ☒ No ☐ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
While de-oiling the 14" Vacuum to Jal Mainline, a release was discovered by Brentco Air Patrol. The pipeline was clamped to mitigate the release.

*** The release was initially reported as a 3 bbl release but during delineation activities on 9/12/05, phase-separated hydrocarbons (PSH) was found on the water table. The actual release volume is unknown.

Describe Area Affected and Cleanup Action Taken.* .
Impacted soil and groundwater will be remediated per NMOCD guidelines.
Three monitoring wells have been set to facilitate PSH recovery and groundwater monitoring.

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

Signature: Daniel Bryant	OIL CONSERVATION DIVISION
Printed Name: Daniel Bryant	Approved by District Supervisor:
Title: Environmental R/C Specialist	Approval Date: / Expiration Date:
E-mail Address: dmbryant@paalp.com	Conditions of Approval: / Attached ☐
Date: 9/20/05 Phone: (432) 557-5865	

* Attach Additional Sheets If Necessary