1R - 455

WORKPLANS

DATE:

Dec. '09

GROUNDWATER WORK PLAN
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

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December 2009

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December 10, 2009

RECEIVED
DEC 15 2009
Environmental Bureau
Oil Conservation Division

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

Re: Groundwater Work plan for
Vacuum to Jal 14" Mainline #3
Vacuum to Jal 14" Mainline #5
D S Hugh 4-inch Gathering Line

Dear Mr. Hansen:

Please find enclosed the Groundwater Work Plans submitted by Premier Environmental Services, Inc. (Premier) on behalf of Plains Pipeline, L.P. (Plains) for each of the following Plains' sites located in Lea County, New Mexico:

- Vacuum to Jal 14" Mainline #3; NMOCD # 1R - 455; Plains SRS # 2003 - 00117
- Vacuum to Jal 14" Mainline #5; NMOCD # 1R - 0464; Plains SRS # 2003 - 00134
- D S Hugh 4-inch Gathering Line; NMOCD # 1R - 0463; Plains SRS # 2000 - 10807

Each Work Plan describes the site specific remediation approach that will be implemented at the site to achieve closure for affected groundwater. If you have any questions or concerns, please feel free to contact us at (281) 240-5200.

Yours very truly,

Chan Patel
Senior Project Manager

Steven M Sellepack
Project Geologist

cc: Larry Johnson (NMOCD Hobbs)
Mr. Jeffrey Dann, P.G. (Plains)
Local Plains Representative (2 copies)
Premier Environmental Services

Enclosures

Groundwater Work Plan - Vacuum to Jal 14" Mainline #3
Groundwater Work Plan - Vacuum to Jal 14" Mainline #5
Groundwater Work Plan - D S Hugh 4-inch Gathering Line

TABLE OF CONTENTS

APPENDICES:

Appendix A Figures

Figure 1 – Site Location Map
Figure 2 – Site Map
Figure 3 – 3rd Quarter 2009 – Groundwater Gradient Map
Figure 4A – 1st Quarter 2009 – BTEX Concentration Map
Figure 4B(i) – 2nd Quarter 2009 – BTEX Concentration Map
Figure 4B(ii) – 2nd Quarter 2009 – PAH Contaminant Concentration Map
Figure 4C – 3rd Quarter 2009 – BTEX Concentration Map
Figure 5 – Site Map with Proposed Monitor and Recovery Wells
Figure 6 – Groundwater Monitoring Plan

Appendix B Tables

Table 1 – Groundwater Elevation Data
Table 2 – Groundwater Sample Analytical Results
Table 3 – BTEX Groundwater Sample Analytical Results for Wells with PSH/Sheen
Table 4 – Groundwater Analytical Results for Polynuclear Aromatic Hydrocarbons (PAHs) from Wells with PSH/Sheen
Table 5 – Summary of Current Monitor Well Data and Proposed Groundwater Sampling Schedule
Table 6 – Proposed MNA Parameters for Semi-annual Sampling

Appendix C C141 NMOCD Release Notification Form

DISCLAIMER

Premier has examined and relied upon the file information provided by Plains and Environmental Plus, Inc. (EPI) for the preparation of the Groundwater Work Plan. 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.

1.0 INTRODUCTION AND SITE HISTORY

Premier Environmental Services, Inc. (Premier) on behalf of Plains Pipeline, L P. (Plains) is submitting this Groundwater Work Plan to the New Mexico Oil Conservation Division (NMOCD) for remediation of the Plains Vacuum To Jal 14" Mainline #3 (site) crude oil pipeline release site in Lea County, New Mexico.

The Vacuum To Jal 14" Mainline #3 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**). The hydrocarbon impact is a result of internal corrosion of a pipeline and apparently occurred on May 8, 2003. The pipeline was subsequently repaired.

The release was initially investigated by Environmental Plus, Inc. (EPI) on May 23, 2003, when it was discovered, and the volume of crude oil released was estimated to be approximately three barrels. This information was initially reported to the NMOCD (NMOCD Form C-141, **Appendix C**). 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 to the NMOCD on Form C-138.

Premier continued to investigate the hydrocarbon impact on soil and groundwater in September 2005. The results of the September 2005 soil and groundwater investigations are detailed in a March 2006 Site Investigation and Annual Report, which was submitted to the NMOCD. 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 their further impact to groundwater. The Soil Remediation Plan was approved by the NMOCD via a June 1, 2006 letter to Plains.

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 site layout along with monitor and recovery well locations is shown in **Figure 2, Appendix A**.

The base of the open 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 the excavation was backfilled, and covered with a 6-inch-thick layer of clean imported topsoil. The slope facing away from the center of the excavation facilitates the flow of infiltrated water away from the residual hydrocarbon in the soil. Details regarding soil remediation were presented in the December 2006 Soil Closure Report. Soil remediation activities completed to date include excavation, placement of an impermeable

liner, and backfill activities. These activities illustrate that the soil remediation activities at this site met the site specific risk based NMOCD cleanup criteria and therefore the soil remediation at this site is considered complete. Therefore, this groundwater work plan summarizes the proposed activities for groundwater remediation through source reduction and natural attenuation processes.

2.0 GEOLOGICAL DESCRIPTION

2.1 Regional Geology

The Vacuum To Jal 14" Mainline #3 site is located in Lea County, New Mexico. In Lea County, bedrock frequently crops out or is thinly veneered with alluvium and eolian dune sands. The bedrock outcrops range from Triassic age strata rocks to Pleistocene age sediments. The Recent Age Mescalero sands cover 80% of Lea County, and are described as fine to medium-grained and reddish brown in color. Lea County lies in the Pecos Valley Section of the Great Plains Province, very near the Southern High Plains to the east. The Tertiary Age Ogallala Formation underlies all of the High Plains and mantles several ridges in Lea County.

The site is located on the Kimbrough gravelly loam within the Kimbrough-Lea association type soils. This soil complex is found on prairie uplands and is locally known as "scabland". This association consists of nearly level and gently sloping, gravelly and loamy soils that are very shallow to moderately deep, to indurated caliches.

The average surface elevation ranges from 3,770 to 3,775 feet above mean sea level with the average surface topography sloping to the south and southeast at approximately 10 to 15 feet per mile.

2.2 Site Specific Geology/Hydrogeology

The site is located in the Southern High Plains physiographic feature. The site surface consists of a light brown, very fine grained and well sorted sand to a depth of 4 to 12 feet below ground surface (bgs). Typically, underlying this surface unit at depth of 4 to 12 feet, a white caliche layer was encountered. The caliche layer exhibited varying thicknesses of between 10 to 20 feet. Typically, underlying this caliche layer, a reddish-brown very fine grained, well sorted sand was encountered to the total depth of the well borings.

Several gas compressor stations are located in the vicinity of the site and several major oil and gas transmission lines bisect the region. The area in the immediate vicinity of the Site is sparsely populated. A railroad track spur lies in the immediate area to the north of the former excavation area. The site seems to be characteristic of the High Plains, with a uniform, topographically flat surface that slopes very gently to the southeast.

There are no municipal water wells within 1,000 feet of the site. Depth to water in the ten monitor/recovery wells installed at the site as part of the investigation, ranges from 41 to 48 feet bgs. There are no surface water bodies within 1,000 feet of the site.

3.0 REGULATORY FRAMEWORK

In New Mexico, the NMOCD oversees and regulates oil, gas and geothermal activities, including compliance with environmental regulations. Guidance for cleanup of crude oil releases is provided in the NMOCD Guidelines for Remediation of Leaks, Spills and Releases (August 13, 1993) document. Constituents of concern, or COCs, associated with crude oil releases include total petroleum hydrocarbons (TPH), and benzene, toluene, ethylbenzene and total xylenes (BTEX). Guidelines for these COCs in soil are evaluated based on a site ranking system. The ranking system estimates the likelihood of exposures to the COCs and is based on three parameters to protect groundwater and surface water resources; specifically, depth to groundwater, wellhead protection area, and distance to the nearest surface water body.

3.1 NMOCD Site Ranking Guidance – Initial Evaluation

The site was initially evaluated based on the information presented in the previous sections. Based on the proximity of the site to area water wells, surface water bodies, and depth to groundwater, the site has an NMOCD ranking score of 20 points, with the soil remedial goals highlighted in bold below in the Site Ranking Matrix.

Table 3.1 - Site Ranking Matrix

1. Groundwater	2. Wellhead Protection Area	3. Distance to Surface Water Body
If Depth to GW <50 feet: *20 points*	If <1000' from water source, or, <200' from private domestic water source: *20 points*	<200 horizontal feet: 20 points
If Depth to GW 50 to 99 feet: *10 points*		200-100 horizontal feet: 10 points
If Depth to GW >100 feet: *0 points*	If >1000' from water source, or, >200' from private domestic water source: *0 points*	>1000 horizontal feet: 0 points
Groundwater Score:20	***Wellhead Protection Area Score: 0***	***Surface Water Score: 0***
Site Rank (1+2+3) =20+0+0=20		

Total Site Ranking Score and Initial Guidance Cleanup Concentrations			
Parameter	**20 or >**	10	0
Benzene[1]	**10 ppm**	10 ppm	10 ppm
BTEX[1]	**50 ppm**	50 ppm	50 ppm
TPH	**100 ppm**	1000 ppm	5000 ppm

Soil remediation activities were completed at the site during October 2006 and a report of the field activities and the analytical results were submitted to the NMOCD. The results of the remediation activities indicate that the residual affected soil contaminant concentration met the risk based NMOCD remediation criteria developed for this site and only

groundwater currently requires remediation. This work plan proposes the implementation of monitored natural attenuation as a groundwater remediation approach along with source reduction through weekly recovery PSH and dissolved phase hydrocarbon activities.

4.0 GROUNDWATER REMEDIATION PLAN

4.1 Current Site Conditions

Current groundwater gauging and sampling activities indicated the presence of PSH or hydrocarbon sheen on the surface of groundwater from monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3.

Ongoing groundwater monitoring activities include:

- Weekly gauging of wells with hydrocarbon sheen (monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3) and recovery of PSH and dissolved-phase hydrocarbons using absorbent socks and manual bailing;
- Quarterly groundwater sampling of six groundwater monitor wells (MW-2 through MW-7) for the analysis of BTEX constituents; and
- Annual groundwater sample collection from monitor well MW-1 and recovery wells RW-1, RW-2, and RW-3 for laboratory analysis of Polynuclear Aromatic Hydrocarbons (PAHs) and BTEX constituents.

Gauging data for 2008 and 2009 (up to October 2009) are summarized in **Table 1**, **Appendix B** and the groundwater elevations are contoured quarterly to confirm the groundwater flow direction. The groundwater gradient at this site is currently flowing toward a southeasterly direction. A groundwater contour map with the groundwater flow direction, based on the gauging data obtained during the 3rd quarter 2009 groundwater sampling event, is presented in **Figure 3, Appendix A**.

Based on the groundwater gauging data collected on October 7, 2009, the groundwater gradient across the site was determined to be 0.0026 foot/foot between monitor wells MW-7 and MW-4 indicating that the groundwater gradient at this site is relatively flat.

Based on the groundwater flow direction and the site layout, the locations of the monitor wells with respect to the on-site hydrocarbon plume are as follows:

- Monitor wells within the hydrocarbon plume: MW-1, RW-1, RW-2 and RW-3;
- Monitor wells upgradient of the hydrocarbon plume: MW-7;
- Monitor wells cross/side gradient of the hydrocarbon plume: MW-3, MW-5 and MW-6; and
- Monitor wells downgradient of the hydrocarbon plume: MW-2 and MW-4.

Groundwater Gauging and PSH Recovery

Ongoing weekly gauging and recovery activities indicate that measurable PSH is currently being observed in recovery wells RW-1 and RW-2, and a hydrocarbon sheen is observed in

monitor well MW-1 and recovery well RW-3. Measurable PSH thickness in monitor well MW-1 indicated a decreasing trend in early 2008 and has further decreased to a hydrocarbon sheen and continues to remain a sheen during 2009. An absorbent sock is currently installed in this well.

Recovery well RW-1 indicated measurable PSH thickness from April 2008 to present. However, the PSH thickness has been on a decreasing trend since January 2009. The average PSH thickness gradually decreased from 2.17 feet during the month of January 2009 to 0.56 feet during October 2009.

PSH thickness in recovery well RW-2 has increased from a hydrocarbon sheen to measurable thickness starting in October 2008. The PSH thickness was on an increasing trend until June 2009 when a maximum thickness of 1.37 feet was recorded in the month of April 2009. Since June 2009, the PSH thickness is on a decreasing trend with a last measured PSH thickness of 0.4 feet during the month of October 2009.

Recovery well RW-3 has a hydrocarbon sheen present that is not measurable.

Weekly PSH recovery and gauging activities from all of these wells result in a recovery of approximately 20 gallons of PSH and dissolved phase groundwater from each well with PSH or hydrocarbon sheen. The approximate recovery volumes are also presented in **Table 1**, **Appendix B**.

Groundwater Analytical Data

Analytical data collected from groundwater sampling events on a quarterly basis are summarized in **Tables 2 through 4** in **Appendix B**. Starting in 2008, pursuant to the request of the NMOCD, monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3, located within the plume, are sampled annually to document BTEX and PAH constituent concentrations. The analytical results for these wells are presented in **Tables 3 and 4, Appendix B**.

The first three quarterly groundwater sampling events data for 2009, including constituent concentrations and the PSH thickness are presented on a site layout map to indicate the spatial distribution of the COCs at the site (see **Figures 4A, 4B (i) and 4B (ii) and 4C**) in **Appendix A**. The 2nd quarter 2009 COC concentration maps present BTEX constituent concentration from all wells in **Figure 4B(i)** and PAH constituent concentrations from wells MW-1, RW-1, RW-2 and RW-3 in **Figure 4B(ii)**. The 1st and 3rd quarter COC maps present BTEX constituent concentrations from monitor wells MW-2, MW-3, MW-4, MW-5, MW-6 and MW-7 sampled on a quarterly basis (**Figures 4A and 4C, Appendix A**).

As part of the evaluation process, the detected COC concentrations are compared directly to the New Mexico Water Quality Standards for groundwater (according to the NMAC 19.15.30.9) of 0.01 mg/L for benzene, 0.75 mg/L for toluene, 0.75 mg/L for ethylbenzene and 0.62 mg/L for total xylenes.

Analytical data indicate that only two of the six monitor wells sampled quarterly (MW-2 and MW-3), indicate detectable concentrations of benzene. In monitor well MW-2, benzene concentrations increased from below laboratory method detection limit to a concentration above the NMOCD remediation criteria beginning in second quarter 2008. Data evaluation indicates a decreasing benzene concentration trend over the previous four quarterly groundwater monitoring events.

Benzene concentrations from the groundwater sample collected from monitor well MW-3 also indicated similar trend as monitor well MW-2 beginning 2nd quarter 2008. Data evaluation indicates a decreasing benzene concentration trend, with the exception of results from the 2nd quarter 2009 sampling event. The 3rd quarter 2009 analytical results for monitor well MW-3 report benzene concentration in the same order of magnitude as that reported in the 1st quarter 2009, in which case the 2nd quarter 2009 results could be considered an anomaly.

Groundwater samples from monitor wells MW-2 through MW-7 are also analyzed each quarter for other constituents such as toluene, ethylbenzene, and total xylenes. These remaining constituents were always reported below the NMOCD remediation criteria in all the monitor wells from the beginning of the sampling period (i.e. 1st quarter 2006).

Measurable PSH was first observed in recovery well RW-2 starting in October 2008 and ranged from 0.01 feet to greater than 1.0 feet in the 3rd quarter 2008. Therefore, it is proposed to install two additional recovery wells between RW-1 and RW-2, in line with these two wells and in downgradient direction to allow for enhanced groundwater recovery and removal of additional PSH and dissolved phase fluids. This in turn will help reduce the overall mass of the hydrocarbon plume and allow for natural attenuation to be more effective at the perimeter of the hydrocarbon plume.

In addition, an increase in benzene concentration was reported beginning in 2nd quarter 2008 in groundwater sample collected from monitor well MW-2 as stated earlier. This factor indicates movement of the hydrocarbon plume in the downgradient direction. Therefore, monitoring the area between monitor wells MW-2 and MW-5, east-southeast of the groundwater flow direction is necessary to better define the extent of the plume. Consequently, it is proposed to install an additional monitor well to allow for better defining the plume extent. Proposed monitor and recovery well locations are shown in **Figure 5, Appendix A.**

4.2 Monitored Natural Attenuation – Proposed Remediation Approach

Based on the current conditions, it is proposed to continue the ongoing source reduction activities, (PSH sheen and dissolved phase removal from wells MW-1, RW-1, RW-2 and RW-3) and in addition, monitor geochemical parameters to evaluate the subsurface conditions (monitored natural attenuation) to achieve groundwater remediation.

A brief discussion of mechanisms associated with the monitored natural attenuation process is given below:

4.2.1 Monitored Natural Attenuation

Monitored Natural Attenuation (MNA) relies on naturally occurring processes such as degradation (either biodegradation or abiotic processes such as hydrolysis), dispersion, diffusion, sorption, volatilization and dilution to control plume movement and destruction of dissolved phase hydrocarbons in groundwater. Biodegradation involves chemical transformation of the hydrocarbon constituents into mineralized end products, such as carbon dioxide, water and salts, by naturally occurring microbes in soil and groundwater.

Of particular importance in this process of attenuation is the determination of whether the impacted area is controlled by anaerobic or aerobic conditions. Aerobic conditions exist under relatively oxygen-rich environments. In aerobic conditions, available oxygen and dissolved phase hydrocarbons are microbially digested to form carbon dioxide and water. Aerobic conditions are characterized by oxidized states of various ions notably ferric iron, nitrate, and sulfate. When the available oxygen is depleted, anaerobic conditions exist. Anaerobic conditions are characterized by reduced forms of various ions most notable are ferrous iron, ammonia, and sulfides.

Therefore, the variation in geochemical parameter concentrations such as dissolved oxygen (DO), nitrate (NO_3^-), sulfate (SO_4^{2-}), soluble ferrous iron (Fe^{+2}) pH, oxidation reduction potential (ORP) are considered a measure of the geochemical state of the groundwater and therefore of the operative natural attenuation process.

Table 5, **Appendix B** shows a summary of the current sampling data and specifies the sampling objective for the evaluation of MNA parameters at each well. The table also shows the current sampling plan and proposed sampling frequency. Evaluation of the BTEX constituent concentrations on a quarterly/annual basis and the geochemical data on a semi-annual basis collected according to the sampling plan in **Table 5** will be conducted to assess the subsurface plume conditions. These parameters, when monitored, can act as indicators of plume behavior in the subsurface environment. **Table 6**, **Appendix B** provides the field parameters that will be collected during each sampling event.

4.2.2 Enhanced Monitored Natural Attenuation

In the event site conditions change and a dramatic increase in benzene concentrations are observed, MNA can be combined with other in-situ passive groundwater remediation technologies to enhance the attenuation process at this site. One of the in-situ treatment techniques that could enhance the natural attenuation processes at this site is the subsurface injection of air/oxygen or other oxygen releasing chemicals through the installation of injection points. Injection of air/oxygen, either directly through the addition of atmospheric air or via oxygen releasing chemicals enhances the rate of biodegradation in the impacted groundwater, when anaerobic conditions exist in the environment. This results in the geochemical environment changing to aerobic conditions thereby enhancing

the rate of biodegradation of the hydrocarbons present. These injection points would be strategically located in order to maximize the zones of influence.

If necessary, another remediation technique that could enhance monitored natural attenuation is the installation of an automated recovery system at the plume center as opposed to weekly manual bailing, to recover PSH and groundwater with dissolved phase hydrocarbons on a more frequent basis. This could help more rapidly decrease the hydrocarbon mass in the plume. However, at this point in time, based on the limited amount of recoverable PSH, it is not warranted.

5.0 PLUME STABILITY ANALYSIS

Understanding plume stability is an important step in the remedial planning process. For example, an increasing plume could potentially migrate to human or environmental receptors, whereas a stable or decreasing plume may not be a continued threat to human health and the environment. Upon removal of the source, the size of a contaminant plume is influenced by a variety of physical, chemical, and biological processes and other hydrologic and geologic features (streams, clay layers, etc.). When a plume has reached a point of dynamic equilibrium (i.e., steady state), the mass loading to the plume from a source is equal to the rate of the mass lost from the plume by physical, chemical, biological, or in some cases anthropogenic processes. At this site, the majority of the mass of the hydrocarbons has been removed and the residual hydrocarbons in the soil matrix in the release area have been isolated under a 20-mil high density polyurethane liner, thereby reducing the mass loading to the groundwater in this process. The residual hydrocarbons in groundwater are currently being removed weekly from wells MW-1, RW-1, RW-2 and RW-3 to mitigate the migration of plume in the downgradient groundwater flow direction. This source reduction activity will further be enhanced upon the installation of the two additional recovery wells as proposed earlier, between recovery wells RW-1 and RW-2.

A limited plume stability analysis will be included in the annual monitoring reports and will include the development of benzene concentration isopleth maps for sampling events. The plume characteristics such as area, average concentration, mass, and center of mass will be evaluated for each sampling event using numerical methods and engineering principles. A statistical trend analysis will then be conducted on the calculated values to assess the benzene plume stability.

6.0 GROUNDWATER MONITORING PROGRAM

Quarterly monitoring of all six wells that are currently not affected by PSH or hydrocarbon sheen will be continued through 2009. Starting in 2010, the sampling frequency for monitor wells MW-5, MW-6, and MW-7 will be reduced to annual based on three years of quarterly groundwater sampling data showing COC concentrations below the regulatory limits. As discussed earlier, monitor well MW-7 is located upgradient of the plume, and monitor wells MW-5 and MW-6 are located cross-gradient of the plume.

Starting in first quarter 2010, groundwater samples will be collected from monitor wells MW-2, MW-3 and MW-4 on a quarterly basis and analyzed for BTEX constituents. The new wells will be sampled annually for BTEX constituents based on the rationale discussed above. Groundwater samples from select monitoring locations will be evaluated for MNA field parameters on a semi-annual basis.

The analytical results and the MNA parameters will be compiled and summarized in an Annual Monitoring Report which is submitted to the NMOCD on or before April 1 of each year.

The PSH and the dissolved phase hydrocarbon recovery activities will continue until the PSH thickness in monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3 are all less than 0.01 feet. In the event one of more of these wells does not contain measurable PSH it will be placed in the regular sampling program. Analytical data collected quarterly from downgradient monitor wells MW-2, MW-4 and any other wells that will be installed downgradient, will continue to be evaluated to ensure that COC concentrations are decreasing. Upon discontinuing the PSH recovery activities, if the concentrations of the COCs in the downgradient wells are reported to increase during two consecutive quarters, then PSH and dissolved phase hydrocarbon recovery activities will be resumed on a weekly basis. **Figure 6, Appendix A**, presents the sampling frequency of monitor wells, as part of this groundwater monitoring plan to be implemented starting 2010.

7.0 SUMMARY AND CONCLUSIONS

The hydrocarbon impact at this site is a result of a crude oil release on May 8, 2003 apparently caused by internal corrosion in a pipeline. Initial response action involved the excavation of affected soil in June 2003. Soil and groundwater investigations were conducted to identify and define the extent of affected media. The initial response action and the soil remediation activities conducted at the site resulted in achieving the risk based NMOCD remediation criteria for soils at this site. Therefore, only groundwater remediation is addressed in this work plan.

A total of ten monitor/recovery wells are currently active on site, out of which only wells MW-1, RW-1, RW-2 and RW-3, located within the plume, exhibit measurable PSH or hydrocarbon sheen. Current source reduction activities on-site include recovery of PSH and groundwater with dissolved phase hydrocarbon by manually bailing fluids and by the use of absorbent socks.

Recovery well RW-1 indicated measurable PSH thickness from April 2008 to present. However, the PSH thickness has been on a decreasing trend since January 2009. The average PSH thickness gradually decreased from 2.17 feet during the month of January 2009 to 0.56 feet during October 2009. PSH thickness in recovery well RW-2 has increased from a hydrocarbon sheen to a measurable PSH thickness starting in October 2008. The PSH thickness was on an increasing trend until June 2009 when a maximum thickness of 1.37 feet was recorded in the month of April 2009. Since June 2009, the PSH thickness is on a decreasing trend with a last measured PSH thickness of 0.4 feet during the month of October 2009. A hydrocarbon sheen remains in both monitor well MW-1 and recovery well RW-1. Therefore, continued weekly recovery of PSH or hydrocarbon sheen and dissolved phase hydrocarbons from monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3 and from any additional wells installed on site in future, will help to mitigate the plume from further migration.

Based on the trends observed in the PSH thicknesses in recovery wells RW-1 and RW-2 and the benzene concentration in monitor well MW-2, it is recommended to install two additional recovery well(s) in the areas between recovery wells RW-2 and monitor well MW-5. This will allow for enhanced source reduction from two additional locations. The proposed well locations are presented in **Figure 5**. In the event one of more of these wells does not contain measurable PSH, it will be placed in the regular sampling program.

Groundwater sampling of six of the existing monitor wells is completed on a quarterly and annual basis. An evaluation of the current quarterly groundwater sampling data indicates a gradually decreasing benzene concentration trend in monitor wells MW-2 and MW-3.

Semi-annual monitoring of geochemical parameters and quarterly/annual monitoring of BTEX constituents from selected monitor well locations as recommended in **Table 5, Appendix B** will help evaluate the subsurface geochemical conditions and plume

movement. Plume stability analysis of these data will be conducted and a trend analysis using statistical methods will be made based on the data.

PSH and dissolved phase groundwater recovery will continue until the PSH thickness decreases to less than 0.01 feet in monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3. BTEX concentration, specifically in monitor wells MW-2, MW-4 and other monitor wells installed in the future, will be monitored closely. In order to better define the eastern edge of the plume in the downgradient groundwater flow direction, it is recommended to install an additional monitor well in the east-southeast direction directly downgradient of monitor well MW-1. Upon installation, this monitor well will also be monitored for BTEX constituents concentrations on a quarterly basis. If concentrations in any of these monitor wells will indicate an increasing trend in two consecutive quarterly sampling events, PSH and dissolved phase recovery activities will be resumed.

Currently, all groundwater monitor wells, with the exception of monitor well MW-1 and recovery wells RW-1, RW-2 and RW-3, are purged and sampled for dissolved phase BTEX constituents quarterly. Upon approval of this groundwater work plan, future activities will include collecting samples for analysis of BTEX constituents and MNA parameters according to the frequency proposed in **Table 5**. The groundwater monitoring data will be evaluated and the results will be summarized in an Annual Monitoring Report submitted to the NMOCD in the first quarter of each year.

DISTRIBUTION

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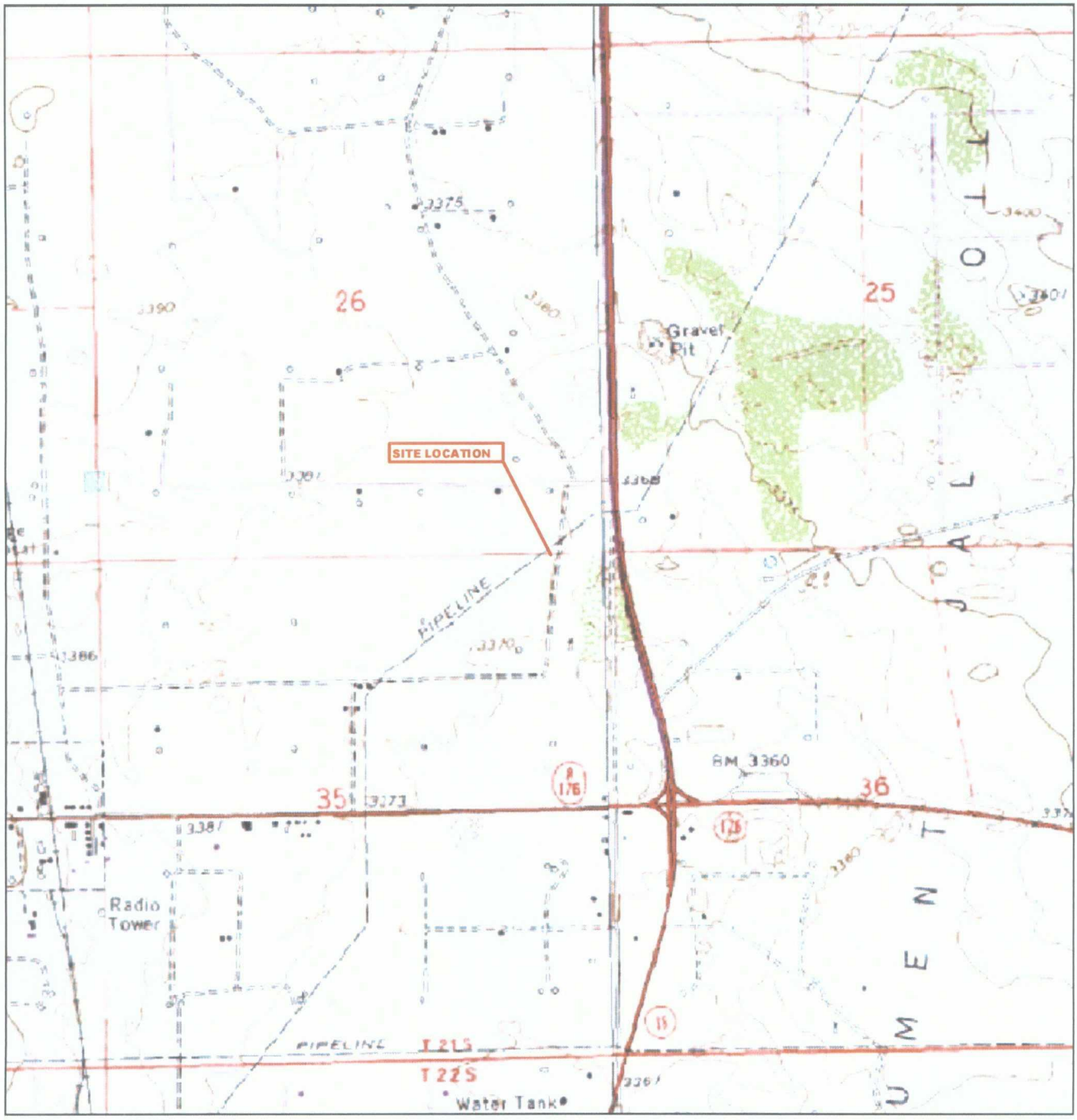
APPENDIX A

Figures



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

PREMIER
ENVIRONMENTAL SERVICES, INC.

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: 3/09

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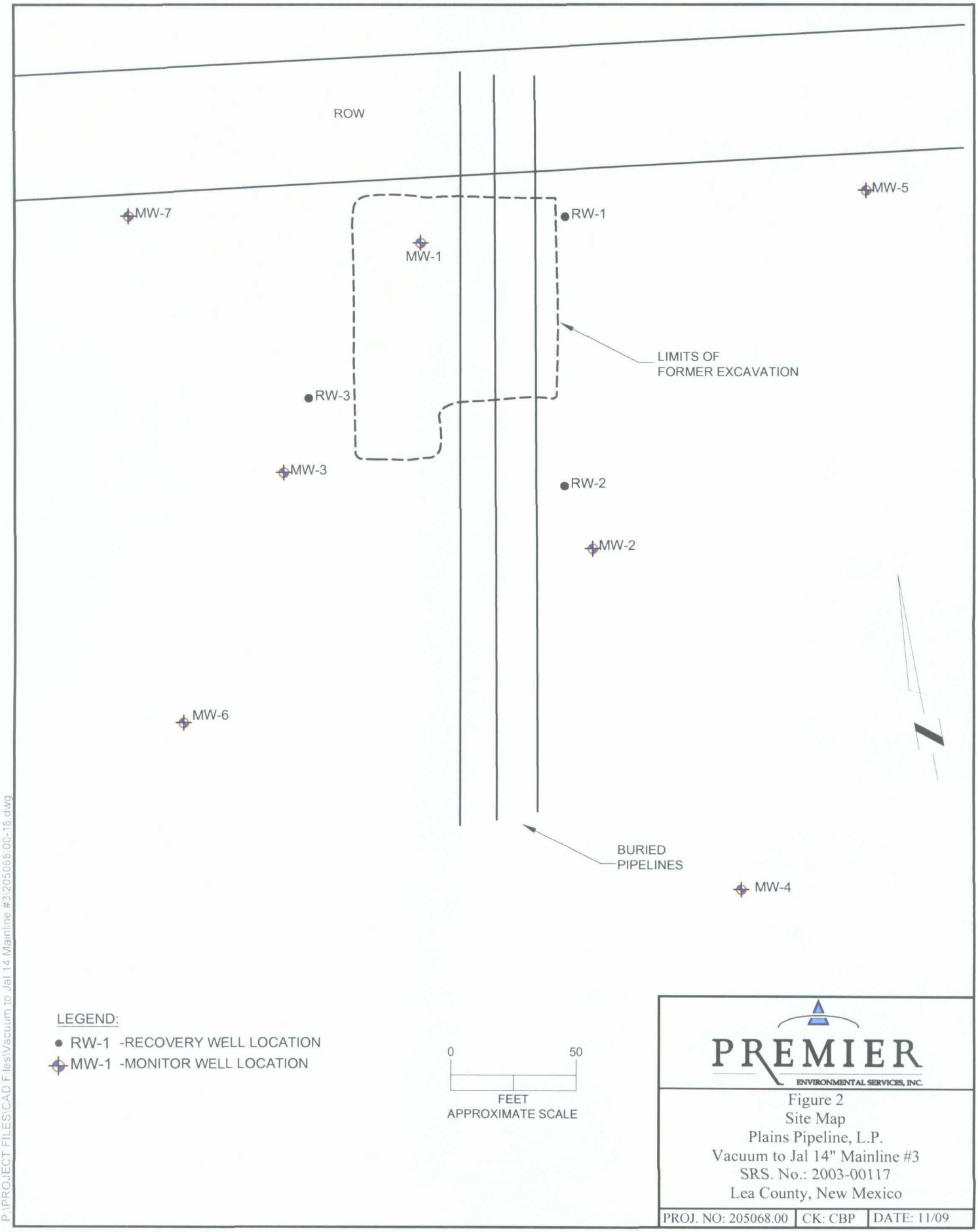

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 2
Site 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: 11/09

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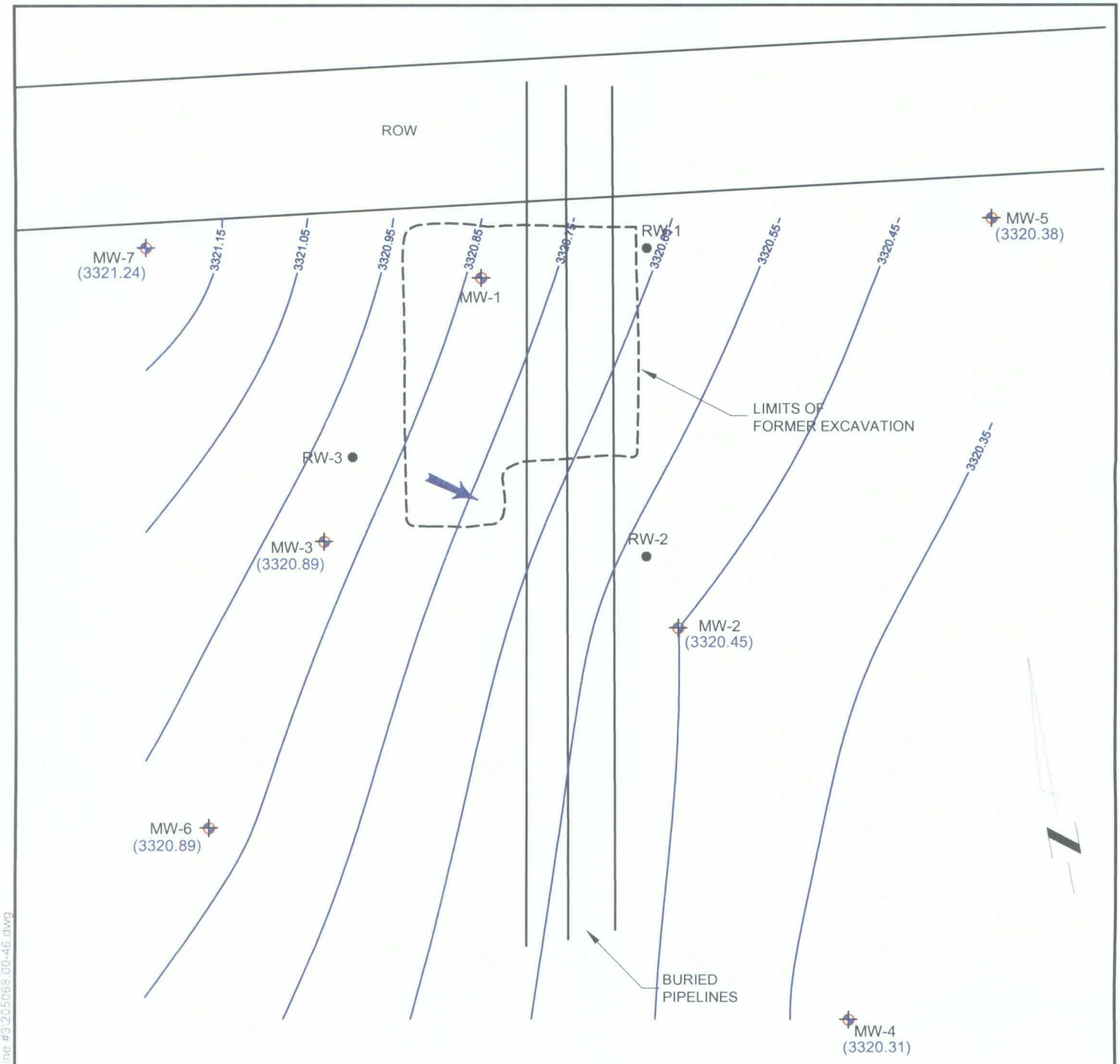

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION
- (3320.31) - Corrected Ground Water Elevation, ft.
- −3320.35− - Ground Water Elevation Contour, ft. Contour Interval=0.1 ft.
- → - Apparent Ground Water Flow Direction

Note: MW-1, RW-1, RW-2 and RW-3 are not used to prepare the contours.

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 3
3rd Quarter 2009 - Groundwater Gradient Map
August 27, 2009
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: 11/09

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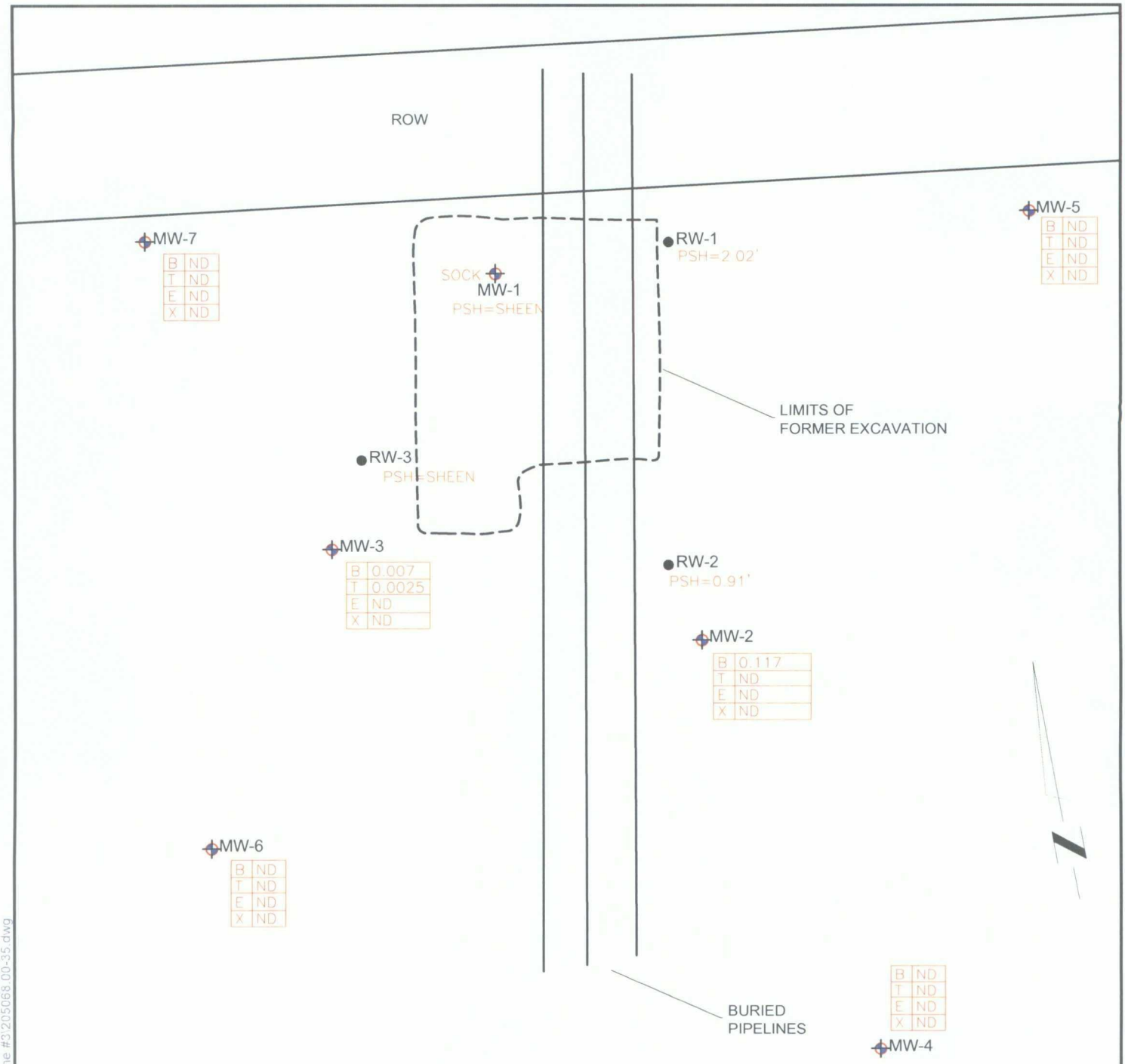

LEGEND:

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

Note: All concentration in mg/L.
PSH= PSH present and well not sampled

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 4A
1st Quarter 2009 - BTEX Concentration Map
Febuary 18, 2009
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK:CBP	DATE: 2/09

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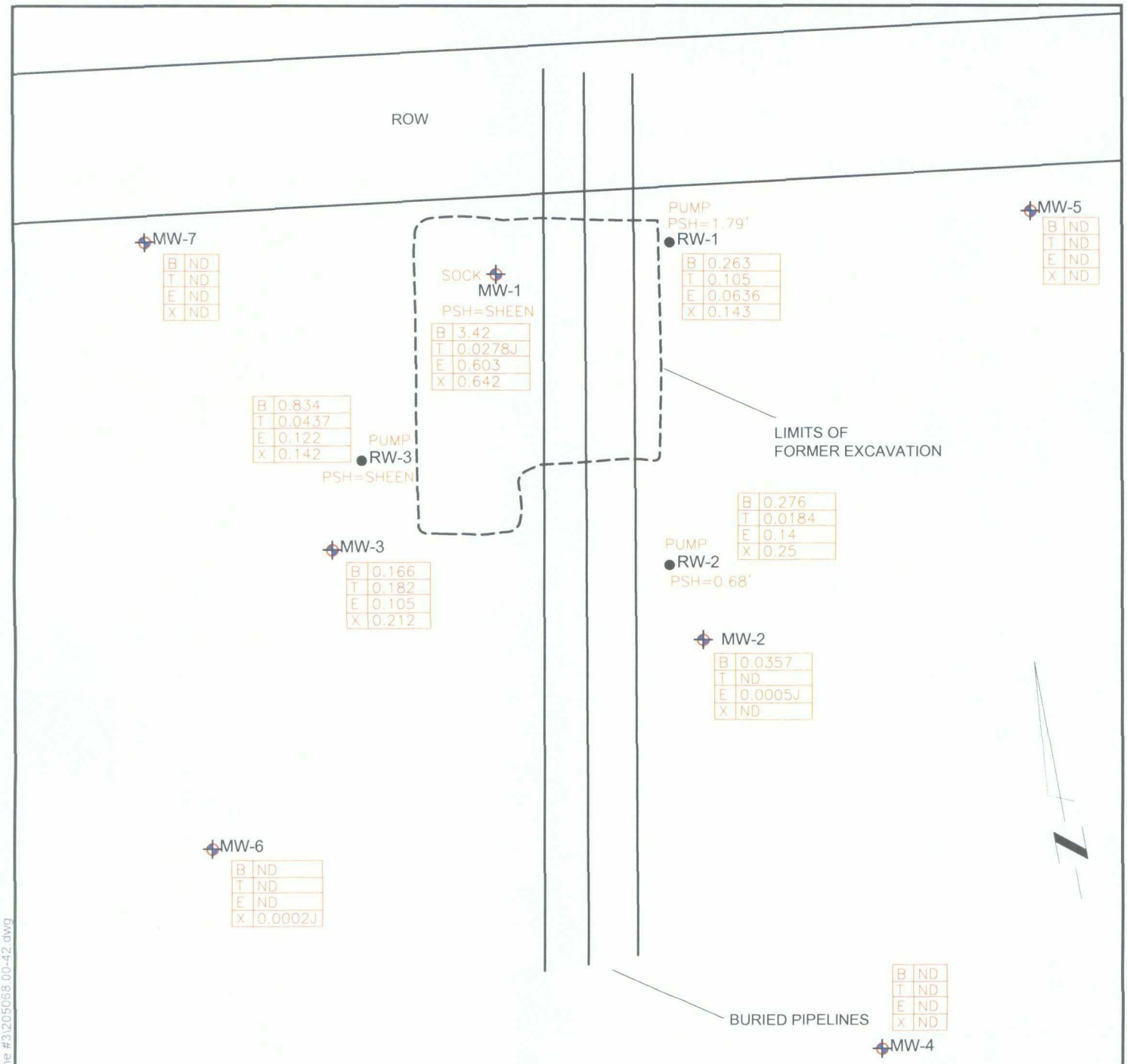

LEGEND:

- 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
B=Benzene
T=Toluene
E=Ethylbenzene
X=Xylenes
ND=concentrations below lab SDLs

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 4B(i)
2nd Quarter 2009 - BTEX Concentration Map
May 20, 2009
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK:CBP	DATE: 07/09

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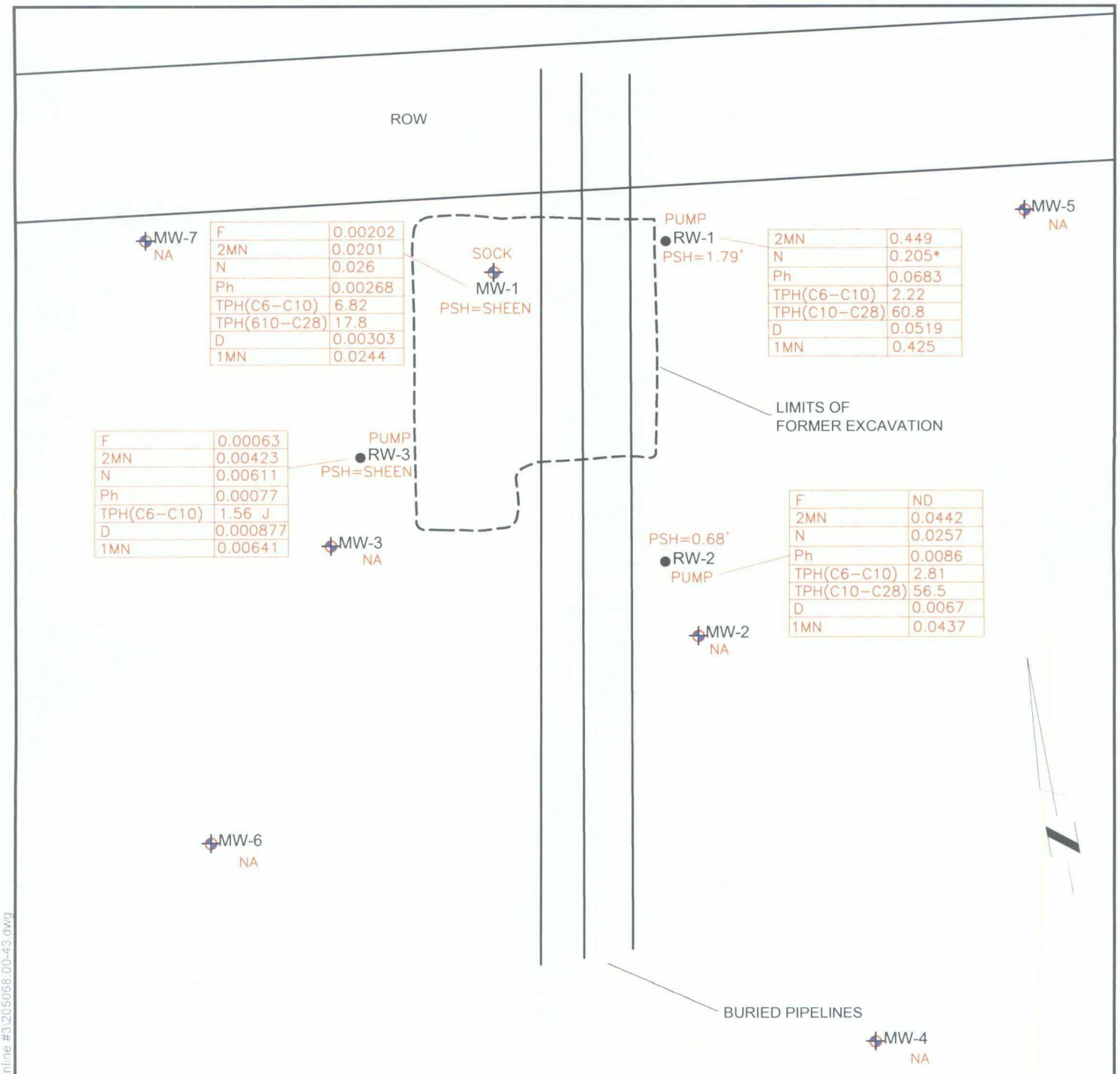

LEGEND:

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

F=Flourene
2MN=2-Methylnaphthalene
N=Naphthalene
Ph=Phenanthrene
D=Dibenzofuran
1MN=1-Methylnaphthalene
ND=Not detected above SDL
PAH=Polynuclear Aromatic Hydrocarbons
NA=Not Analyzed for PAH
*Estimated concentration value greater than standard range
TPH=Total Petroleum hydrocarbon
Note: All concentrations in mg/L.

0 50
FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 4B(ii)
2nd Quarter 2009 - PAH Concentration Map
May 20, 2009
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK:CBP	DATE: 07/09

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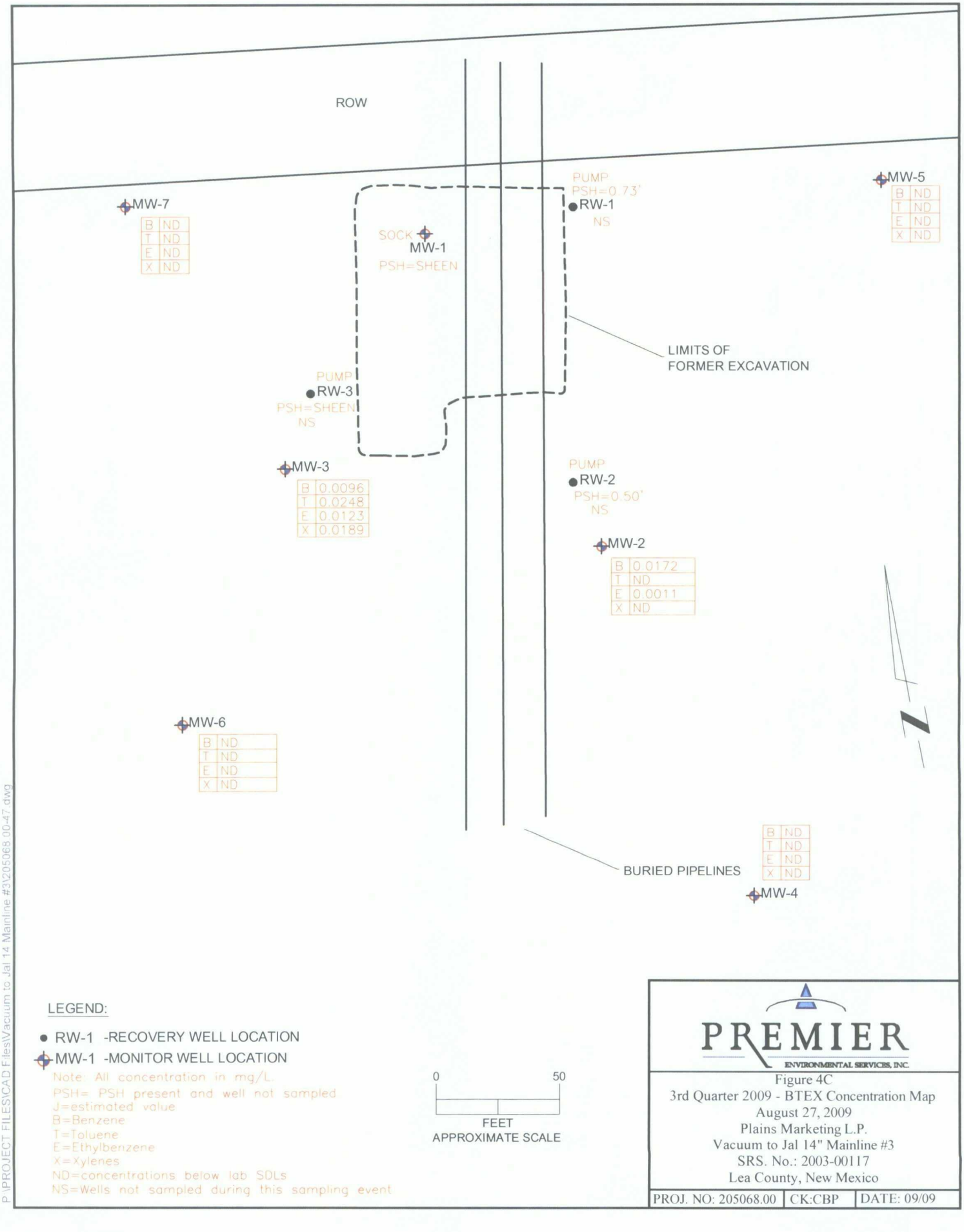

LEGEND:

- 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
B=Benzene
T=Toluene
E=Ethylbenzene
X=Xylenes
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 2009 - BTEX Concentration Map
August 27, 2009
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00	CK:CBP	DATE: 09/09

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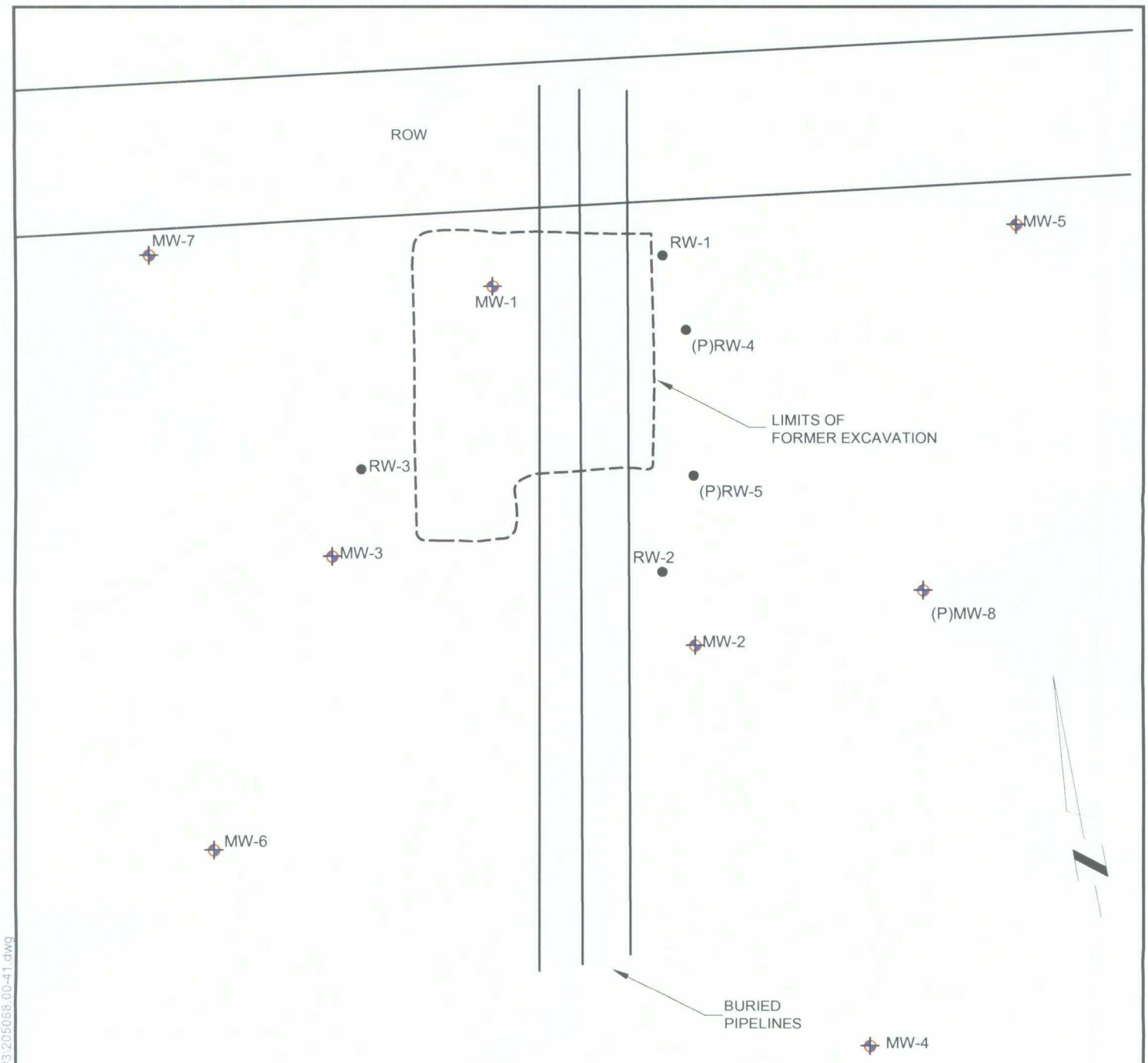

LEGEND:

- RW-1 -RECOVERY WELL LOCATION
- MW-1 -MONITOR WELL LOCATION
- PRW - PROPOSED RECOVERY WELL
- PMW - PROPOSED MONITOR WELL

0 50

FEET
APPROXIMATE SCALE

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 5
Site Map with Proposed 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: 10/09

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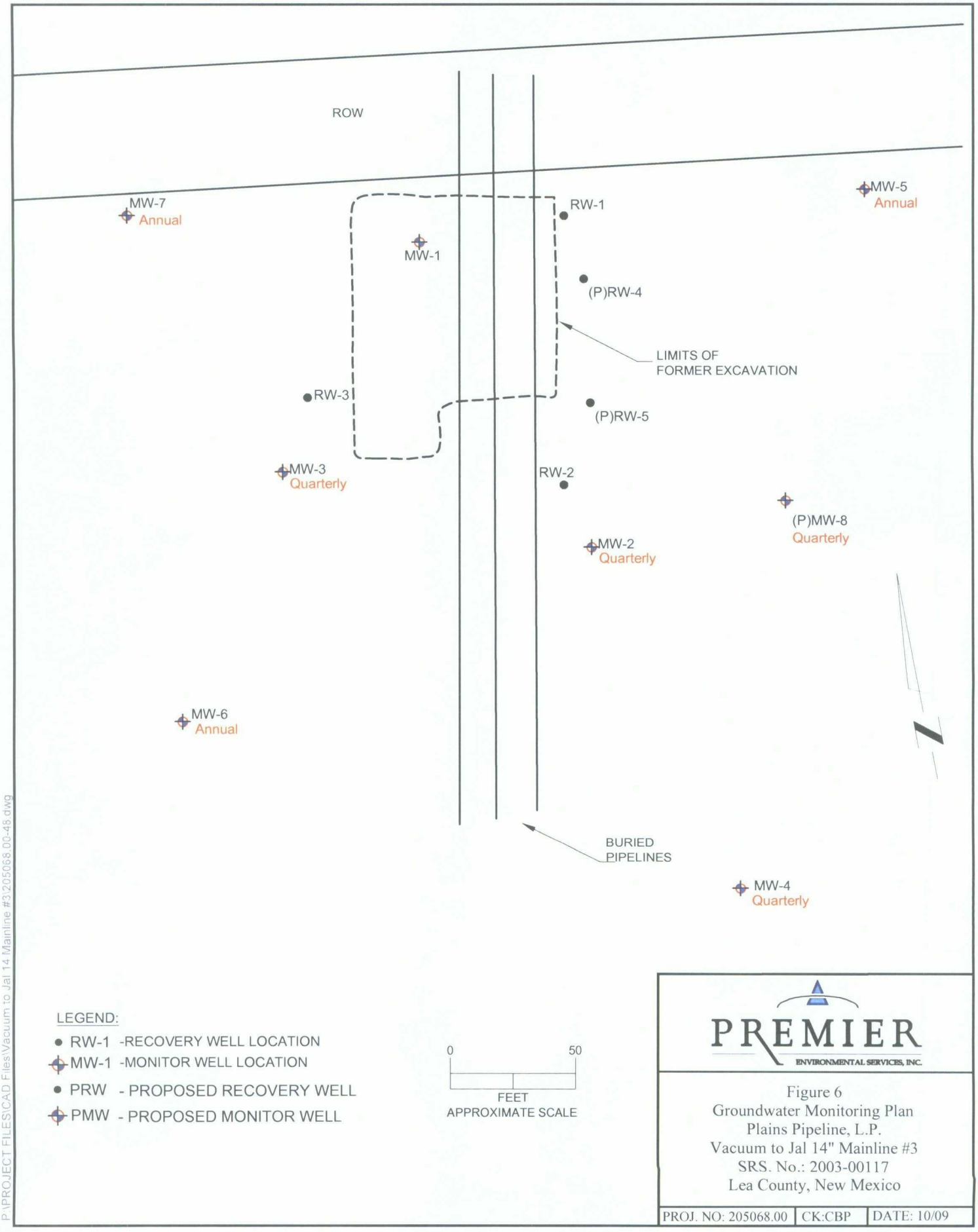

PREMIER
ENVIRONMENTAL SERVICES, INC.

Figure 6
Groundwater Monitoring Plan
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: 10/09

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APPENDIX B

Tables

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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	01/03/08	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	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	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
	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

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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	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	49.40	49.43	0.03	Pump	0.5	9.5	3313.24
	09/17/08	3362.64	55.71	47.62	49.43	1.81	New Sock	NA	NA	3314.75
	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	3313.26
	11/26/08	3362.64	55.71	DRY	DRY	DRY	NA	NA	NA	NA
	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
	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

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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	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
MW-2	01/09/08	3367.00	55.83	NA	45.89	0.00	NA	NA	NA	3321.11
	02/06/08	3367.00	55.83	NA	45.90	0.00	NA	NA	NA	3321.10
	02/27/08	3367.00	55.84	NA	45.95	0.00	NA	NA	NA	3321.05
	04/02/08	3367.00	55.60	NA	45.90	0.00	NA	NA	NA	3321.10
	05/20/08	3367.00	55.60	NA	46.17	0.00	NA	NA	NA	3320.83
	06/04/08	3367.00	55.60	NA	46.20	0.00	NA	NA	NA	3320.80
	06/18/08	3367.00	55.60	NA	46.24	0.00	NA	NA	NA	3320.76
	07/07/08	3367.00	55.60	NA	46.30	0.00	NA	NA	NA	3320.70
	08/18/08	3367.00	56.32	NA	46.56	0.00	NA	NA	NA	3320.44
	10/15/08	3367.00	56.32	NA	46.68	0.00	NA	NA	NA	3320.32
	11/20/08	3367.00	56.31	NA	46.84	0.00	NA	NA	NA	3320.16
	12/21/08	3367.00	56.31	NA	46.88	0.00	NA	NA	NA	3320.12
	01/07/09	3367.00	56.28	NA	46.71	0.00	NA	NA	NA	3320.29
	02/04/09	3367.00	56.28	NA	46.86	0.00	NA	NA	NA	3320.14
	02/18/09	3367.00	56.50	NA	46.83	0.00	NA	NA	NA	3320.17
	03/04/09	3367.00	56.51	NA	48.68	0.00	NA	NA	NA	3318.32
	04/08/09	3367.00	56.51	NA	46.58	0.00	NA	NA	NA	3320.42
	05/06/09	3367.00	56.51	NA	46.65	0.00	NA	NA	NA	3320.35
	05/20/09	3367.00	56.51	NA	46.83	0.00	NA	NA	NA	3320.17
	06/03/09	3367.00	56.51	NA	46.85	0.00	NA	NA	NA	3320.15
	07/15/09	3367.00	56.51	NA	46.66	0.00	NA	NA	NA	3320.34
	08/05/09	3367.00	56.51	NA	46.59	0.00	NA	NA	NA	3320.41
	08/27/09	3367.00	56.30	NA	46.55	0.00	NA	NA	5	3320.45
	09/02/09	3367.00	56.30	NA	46.58	0.00	NA	NA	NA	3320.42
	10/07/09	3367.00	56.30	NA	46.52	0.00	NA	NA	NA	3320.48
MW-3	01/09/08	3369.1	55.25	NA	47.63	0.00	NA	NA	NA	3321.47
	02/06/08	3369.1	55.25	NA	47.63	0.00	NA	NA	NA	3321.47
	02/27/08	3369.1	55.18	NA	47.63	0.00	NA	NA	NA	3321.47
	04/02/08	3369.1	55.20	NA	47.62	0.00	NA	NA	NA	3321.48
	05/20/08	3369.1	55.20	NA	47.92	0.00	NA	NA	NA	3321.18
	06/04/08	3369.1	55.20	NA	47.95	0.00	NA	NA	NA	3321.15
	06/18/08	3369.1	55.20	NA	48.00	0.00	NA	NA	NA	3321.10
	07/07/08	3369.1	55.20	NA	48.02	0.00	NA	NA	NA	3321.08
	08/18/08	3369.1	55.35	NA	48.29	0.00	NA	NA	NA	3320.81
	10/15/08	3369.1	55.35	NA	48.41	0.00	NA	NA	NA	3320.69
	11/20/08	3369.1	55.33	NA	48.60	0.00	NA	NA	NA	3320.50
	12/21/08	3369.1	55.33	NA	48.65	0.00	NA	NA	NA	3320.45
	01/07/09	3369.1	55.28	NA	48.49	0.00	NA	NA	NA	3320.61

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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-3	02/04/09	3369.1	55.27	NA	48.64	0.00	NA	NA	NA	3320.46
	02/18/09	3369.1	55.28	NA	48.59	0.00	NA	NA	NA	3320.51
	03/04/09	3369.1	55.24	NA	48.47	0.00	NA	NA	NA	3320.63
	04/08/09	3369.1	55.24	NA	48.31	0.00	NA	NA	NA	3320.79
	05/06/09	3369.1	55.24	NA	48.38	0.00	NA	NA	NA	3320.72
	05/20/09	3369.1	55.24	NA	48.59	0.00	NA	NA	NA	3320.51
	06/03/09	3369.1	55.24	NA	48.55	0.00	NA	NA	NA	3320.55
	07/15/09	3369.1	55.24	NA	48.33	0.00	NA	NA	NA	3320.77
	08/05/09	3369.1	55.24	NA	48.26	0.00	NA	NA	NA	3320.84
	08/27/09	3369.1	56.18	NA	48.21	0.00	NA	NA	4	3320.89
	09/02/09	3369.1	56.18	NA	48.23	0.00	NA	NA	NA	3320.87
	10/07/09	3369.1	56.18	NA	48.14	0.00	NA	NA	NA	3320.96
MW-4	01/09/08	3365.12	59.46	NA	44.17	0.00	NA	NA	NA	3320.95
	02/06/08	3365.12	59.46	NA	44.16	0.00	NA	NA	NA	3320.96
	02/27/08	3365.12	59.47	NA	44.18	0.00	NA	NA	NA	3320.94
	04/02/08	3365.12	59.40	NA	44.15	0.00	NA	NA	NA	3320.97
	05/20/08	3365.12	59.40	NA	44.44	0.00	NA	NA	NA	3320.68
	06/18/08	3365.12	59.40	NA	44.51	0.00	NA	NA	NA	3320.61
	07/07/08	3365.12	59.40	NA	44.60	0.00	NA	NA	NA	3320.52
	08/18/08	3365.12	59.35	NA	44.80	0.00	NA	NA	NA	3320.32
	10/15/08	3365.12	59.35	NA	44.93	0.00	NA	NA	NA	3320.19
	11/20/08	3365.12	59.44	NA	45.08	0.00	NA	NA	NA	3320.04
	12/21/08	3365.12	59.44	NA	45.12	0.00	NA	NA	NA	3320.00
	01/07/09	3365.12	59.44	NA	44.94	0.00	NA	NA	NA	3320.18
	02/04/09	3365.12	59.43	NA	45.08	0.00	NA	NA	NA	3320.04
	02/18/09	3365.12	59.38	NA	45.00	0.00	NA	NA	NA	3320.12
	03/04/09	3365.12	59.21	NA	44.93	0.00	NA	NA	NA	3320.19
	04/08/09	3365.12	59.21	NA	44.79	0.00	NA	NA	NA	3320.33
	05/06/09	3365.12	59.21	NA	44.88	0.00	NA	NA	NA	3320.24
	05/20/09	3365.12	59.21	NA	45.06	0.00	NA	NA	NA	3320.06
	06/03/09	3365.12	59.21	NA	45.08	0.00	NA	NA	NA	3320.04
	07/15/09	3365.12	59.21	NA	44.93	0.00	NA	NA	NA	3320.19
	08/05/09	3365.12	59.21	NA	44.84	0.00	NA	NA	NA	3320.28
	08/27/09	3365.12	59.40	NA	44.81	0.00	NA	NA	29	3320.31
	09/02/09	3365.12	59.40	NA	44.83	0.00	NA	NA	NA	3320.29
	10/07/09	3365.12	59.40	NA	44.78	0.00	NA	NA	NA	3320.34
MW-5	01/09/08	3364.74	53.08	NA	43.67	0.00	NA	NA	NA	3321.07
	02/06/08	3364.74	53.08	NA	43.63	0.00	NA	NA	NA	3321.11
	02/27/08	3364.74	53.10	NA	43.70	0.00	NA	NA	NA	3321.04
	04/02/08	3364.74	53.02	NA	43.66	0.00	NA	NA	NA	3321.08
	05/20/08	3364.74	53.02	NA	43.90	0.00	NA	NA	NA	3320.84
	06/18/08	3364.74	53.02	NA	43.97	0.00	NA	NA	NA	3320.77
	07/07/08	3364.74	53.02	NA	43.96	0.00	NA	NA	NA	3320.78
	08/18/08	3364.74	53.06	NA	44.32	0.00	NA	NA	NA	3320.42
	10/15/08	3364.74	53.06	NA	44.42	0.00	NA	NA	NA	3320.32
	11/20/08	3364.74	53.00	NA	44.55	0.00	NA	NA	NA	3320.19
	12/21/08	3364.74	53.00	NA	44.62	0.00	NA	NA	NA	3320.12
	01/07/09	3364.74	55.03	NA	44.46	0.00	NA	NA	NA	3320.28
	02/04/09	3364.74	53.01	NA	44.61	0.00	NA	NA	NA	3320.13
	02/18/09	3364.74	52.96	NA	44.59	0.00	NA	NA	NA	3320.15
	03/04/09	3364.74	53.04	NA	44.45	0.00	NA	NA	NA	3320.29
	04/08/09	3364.74	53.04	NA	44.79	0.00	NA	NA	NA	3319.95
	05/06/09	3364.74	53.04	NA	44.44	0.00	NA	NA	NA	3320.30
	05/20/09	3364.74	53.04	NA	44.60	0.00	NA	NA	NA	3320.14
	06/03/09	3364.74	53.04	NA	44.60	0.00	NA	NA	NA	3320.14
	07/15/09	3364.74	53.04	NA	44.45	0.00	NA	NA	NA	3320.29
	08/05/09	3364.74	53.04	NA	44.35	0.00	NA	NA	NA	3320.39

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GROUNDWATER ELEVATION DATA
Plains Marketing, 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	08/27/09	3364.74	53.03	NA	44.36	0.00	NA	NA	5	3320.38
	09/02/09	3364.74	53.03	NA	44.34	0.00	NA	NA	NA	3320.40
	10/07/09	3364.74	53.03	NA	44.28	0.00	NA	NA	NA	3320.46
MW-6	01/09/08	3368.96	59.40	NA	47.46	0.00	NA	NA	NA	3321.50
	02/06/08	3368.96	59.40	NA	47.48	0.00	NA	NA	NA	3321.48
	02/27/08	3368.96	59.42	NA	47.43	0.00	NA	NA	NA	3321.53
	04/02/08	3368.96	59.41	NA	47.47	0.00	NA	NA	NA	3321.49
	05/20/08	3368.96	59.41	NA	47.74	0.00	NA	NA	NA	3321.22
	06/18/08	3368.96	59.41	NA	47.54	0.00	NA	NA	NA	3321.42
	07/07/08	3368.96	59.41	NA	47.86	0.00	NA	NA	NA	3321.10
	08/18/08	3368.96	59.42	NA	48.16	0.00	NA	NA	NA	3320.80
	10/15/08	3368.96	59.42	NA	48.24	0.00	NA	NA	NA	3320.72
	11/20/08	3368.96	59.45	NA	48.43	0.00	NA	NA	NA	3320.53
	12/21/08	3368.96	59.45	NA	48.48	0.00	NA	NA	NA	3320.48
	01/07/09	3368.96	59.47	NA	48.29	0.00	NA	NA	NA	3320.67
	02/04/09	3368.96	59.23	NA	48.44	0.00	NA	NA	NA	3320.52
	02/18/09	3368.96	59.43	NA	48.40	0.00	NA	NA	NA	3320.56
	03/04/09	3368.96	59.22	NA	48.24	0.00	NA	NA	NA	3320.72
	04/08/09	3368.96	59.22	NA	48.15	0.00	NA	NA	NA	3320.81
	05/06/09	3368.96	59.22	NA	48.23	0.00	NA	NA	NA	3320.73
	05/20/09	3368.96	59.22	NA	48.40	0.00	NA	NA	NA	3320.56
	06/03/09	3368.96	59.22	NA	48.38	0.00	NA	NA	NA	3320.58
	07/15/09	3368.96	59.22	NA	48.18	0.00	NA	NA	NA	3320.78
	08/05/09	3368.96	59.22	NA	48.10	0.00	NA	NA	NA	3320.86
	08/27/09	3368.96	59.21	NA	48.07	0.00	NA	NA	22	3320.89
	09/02/09	3368.96	59.21	NA	48.10	0.00	NA	NA	NA	3320.86
	10/07/09	3368.96	59.21	NA	48.99	0.00	NA	NA	NA	3319.97
MW-7	01/09/08	3370.25	58.85	NA	48.47	0.00	NA	NA	NA	3321.78
	02/06/08	3370.25	58.85	NA	48.45	0.00	NA	NA	NA	3321.80
	02/27/08	3370.25	58.66	NA	48.44	0.00	NA	NA	NA	3321.81
	04/02/08	3370.25	58.64	NA	48.45	0.00	NA	NA	NA	3321.80
	05/20/08	3370.25	58.64	NA	48.76	0.00	NA	NA	NA	3321.49
	06/18/08	3370.25	58.64	NA	48.85	0.00	NA	NA	NA	3321.40
	07/07/08	3370.25	58.64	NA	48.85	0.00	NA	NA	NA	3321.40
	08/18/08	3370.25	58.83	NA	49.11	0.00	NA	NA	NA	3321.14
	10/15/08	3370.25	58.83	NA	49.23	0.00	NA	NA	NA	3321.02
	11/20/08	3370.25	58.74	NA	49.46	0.00	NA	NA	NA	3320.79
	12/21/08	3370.25	58.74	NA	49.48	0.00	NA	NA	NA	3320.77
	01/07/09	3370.25	58.72	NA	49.33	0.00	NA	NA	NA	3320.92
	02/04/09	3370.25	58.73	NA	49.46	0.00	NA	NA	NA	3320.79
	02/18/09	3370.25	58.69	NA	49.43	0.00	NA	NA	NA	3320.82
	03/04/09	3370.25	58.75	NA	49.27	0.00	NA	NA	NA	3320.98
	04/08/09	3370.25	58.75	NA	49.14	0.00	NA	NA	NA	3321.11
	05/06/09	3370.25	58.75	NA	49.22	0.00	NA	NA	NA	3321.03
	05/20/09	3370.25	58.75	NA	49.48	0.00	NA	NA	NA	3320.77
	06/03/09	3370.25	58.75	NA	49.36	0.00	NA	NA	NA	3320.89
	07/15/09	3370.25	58.75	NA	49.12	0.00	NA	NA	NA	3321.13
	08/05/09	3370.25	58.75	NA	49.02	0.00	NA	NA	NA	3321.23
	08/27/09	3370.25	59.69	NA	49.01	0.00	NA	NA	5	3321.24
	09/02/09	3370.25	59.69	NA	49.02	0.00	NA	NA	NA	3321.23
	10/07/09	3370.25	59.69	NA	48.91	0.00	NA	NA	NA	3321.34
RW-1	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

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GROUNDWATER ELEVATION DATA
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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)	
RW-1	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
	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

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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	08/13/08	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
	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
	09/12/09	3368.12	58.22	47.75	49.05	1.30	Pump	2	8	3320.18
	09/12/09	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
	10/29/09	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	3320.50
	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

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GROUNDWATER ELEVATION DATA
Plains Marketing, 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	03/18/09	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
	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
	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

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SRS # 2003-00117
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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	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	48.92	48.92	0.00	NA	PM	NA	3319.20
	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
RW-2	01/03/08	3398.32	59.01	47.28	47.28	0.00	Sock	NA	NA	3351.04
	01/09/08	3398.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3351.14
	01/17/08	3398.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3351.17
	01/23/08	3398.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3351.17
	01/30/08	3398.32	59.01	47.00	47.00	0.00	New Sock	NA	NA	3351.32
	02/06/08	3398.32	59.01	47.12	47.12	0.00	Sock	NA	NA	3351.20
	02/13/08	3398.32	59.01	47.05	47.05	0.00	Sock	NA	NA	3351.27
	02/19/08	3398.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3351.15
	02/19/08	3398.32	59.01	48.73	48.73	0.00	Hand Bailed	0	10	3349.59
	02/27/08	3398.32	59.01	47.21	47.21	0.00	Sock	NA	NA	3351.11
	03/04/08	3398.32	59.01	47.46	47.46	0.00	Sock	NA	NA	3350.86
	03/12/08	3398.32	59.01	47.08	47.08	0.00	Sock	NA	NA	3351.24
	03/19/08	3398.32	59.01	47.09	47.09	0.00	Sock	NA	NA	3351.23
	03/26/08	3398.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3351.14
	04/02/08	3398.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3351.15
	04/09/08	3398.32	59.01	47.10	47.10	0.00	Sock	NA	NA	3351.22
	04/16/08	3398.32	59.01	47.15	47.15	0.00	Sock	NA	NA	3351.17
	04/24/08	3398.32	59.01	47.18	47.18	0.00	Sock	NA	NA	3351.14
	04/30/08	3398.32	59.01	47.17	47.17	0.00	Sock	NA	NA	3351.15
	05/07/08	3398.32	59.01	47.22	47.22	0.00	Sock	NA	NA	3351.10
	05/14/08	3398.32	59.01	47.34	47.34	0.00	New Sock	NA	NA	3350.98
	05/20/08	3398.32	59.01	47.43	47.43	0.00	Sock	NA	NA	3350.89
	05/28/08	3398.32	59.01	47.48	47.48	0.00	Sock	NA	NA	3350.84
	06/04/08	3398.32	59.01	47.50	47.50	0.00	Sock	NA	NA	3350.82
	06/11/08	3398.32	59.01	47.54	47.54	0.00	Sock	NA	NA	3350.78
	06/18/08	3398.32	59.01	47.59	47.59	0.00	Sock	NA	NA	3350.73
	06/26/08	3398.32	59.01	47.53	47.53	0.00	Sock	NA	NA	3350.79
	07/02/08	3398.32	59.01	47.52	47.52	0.00	Sock	NA	NA	3350.80
	07/07/08	3398.32	59.01	47.55	47.55	0.00	Sock	NA	NA	3350.77
	07/16/08	3398.32	59.01	47.60	47.60	0.00	Sock	NA	NA	3350.72
	07/22/08	3398.32	59.01	47.63	47.63	0.00	Sock	NA	NA	3350.69
	07/29/08	3398.32	59.01	47.66	47.66	0.00	Sock	NA	NA	3350.66
	08/06/08	3398.32	59.01	47.72	47.72	0.00	Sock	NA	NA	3350.60
	08/13/08	3398.32	59.01	47.84	47.84	0.00	Flip Sock	NA	NA	3350.48
	08/20/08	3398.32	59.01	47.79	47.79	0.00	Sock	NA	NA	3350.53
	08/27/08	3398.32	59.01	47.81	47.81	0.00	Sock	NA	NA	3350.51
	09/02/08	3398.32	59.01	47.86	47.86	0.00	Sock	NA	NA	3350.46
	09/09/08	3398.32	59.01	47.90	47.90	0.00	Sock	NA	NA	3350.42
	09/17/08	3398.32	59.01	48.01	48.01	0.00	Sock	NA	NA	3350.31
	09/24/08	3398.32	59.01	48.15	48.15	0.00	Sock	NA	NA	3350.17
	10/01/08	3398.32	59.01	48.17	48.17	0.00	Sock	NA	NA	3350.15
	10/15/08	3398.32	59.01	47.87	47.87	0.00	Sock	NA	NA	3350.45
	10/22/08	3398.32	59.01	47.89	47.96	0.07	Pump	0.5	19.5	3350.42
	10/22/08	3398.32	59.01	48.37	48.38	0.01	NA	NA	NA	3349.95
	10/29/08	3398.32	59.01	47.92	48.05	0.13	Pump	0.5	10	3350.38
	10/29/08	3398.32	59.01	47.68	47.68	0.00	NA	NA	NA	3350.64
	11/05/08	3398.32	59.01	47.73	47.84	0.11	Pump	NA	20	3350.57

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Plains Marketing, 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	11/05/08	3398.32	59.01	48.39	48.40	0.01	NA	NA	NA	3349.93
	11/12/08	3398.32	59.01	47.96	48.22	0.26	Pump	0.5	12.5	3350.32
	11/12/08	3398.32	59.01	48.02	48.02	0.00	NA	NA	NA	3350.30
	11/20/08	3398.32	59.01	48.01	48.51	0.50	Pump/New sock	1.0 gal	9.0 gal	3350.24
	11/20/08	3398.32	59.01	48.89	48.89	0.00	NA	NA	NA	3349.43
	11/26/08	3398.32	59.01	48.04	48.04	0.00	Pump/New sock	NA	10	3350.28
	11/26/08	3398.32	59.01	48.09	48.09	0.00	NA	NA	NA	3350.23
	12/03/08	3398.32	59.01	48.07	48.19	0.12	pump	0.25	9.75	3350.23
	12/03/08	3398.32	59.01	48.22	48.22	0.00	NA	NA	NA	3350.10
	12/10/08	3398.32	59.01	48.12	48.12	0.00	pump	0	10	3350.20
	12/10/08	3398.32	59.01	48.14	48.14	0.00	NA	NA	NA	3350.18
	12/17/08	3398.32	59.01	48.09	48.09	0.00	pump	0	10	3350.23
	12/17/08	3398.32	59.01	48.82	48.82	0.00	NA	NA	NA	3349.50
	12/21/08	3398.32	59.01	48.36	48.60	0.24	pump	0.25	10	3349.92
	12/21/08	3398.32	59.01	49.15	49.15	0.00	NA	NA	NA	3349.17
	12/31/08	3398.32	59.01	47.93	48.59	0.66	pump	0.5	14.5	3350.29
	12/31/08	3398.32	59.01	48.43	48.43	0.00	NA	NA	NA	3349.89
	01/07/09	3398.32	58.98	47.84	48.50	0.66	hand bail	2	8	3350.38
	01/07/09	3398.32	58.98	48.86	48.87	0.01	NA	NA	NA	3349.46
	01/15/09	3398.32	58.98	47.96	48.77	0.81	pump	0.5	9.5	3350.24
	01/15/09	3398.32	58.98	48.33	48.33	0.00	NA	NA	NA	3349.99
	01/22/09	3398.32	58.98	47.81	48.53	0.72	pump	0.5	14.5	3350.40
	01/22/09	3398.32	58.98	48.25	48.25	0.00	NA	NA	NA	3350.07
	01/28/09	3398.32	58.98	47.88	48.57	0.69	pump	2	13	3350.34
	01/28/09	3398.32	58.98	48.29	48.29	0.00	NA	NA	NA	3350.03
	02/04/09	3398.32	58.98	47.96	48.67	0.71	hand bail	0.25	9.75	3350.25
	02/04/09	3398.32	58.98	48.23	48.32	0.09	NA	NA	NA	3350.08
	02/11/09	3398.32	58.98	47.96	48.83	0.87	hand bail	0.75	19.25	3350.23
	02/11/09	3398.32	58.98	48.24	48.24	0.00	NA	NA	NA	3350.08
	02/18/09	3398.32	58.98	47.90	48.81	0.91	pump	0.25	19.75	3350.28
	02/18/09	3398.32	58.98	49.33	49.33	0.00	NA	NA	NA	3348.99
	02/25/09	3398.32	58.98	47.82	48.60	0.78	pump	0.5	22.5	3350.38
	02/25/09	3398.32	58.98	48.21	48.21	0.00	NA	NA	NA	3350.11
	03/04/09	3398.32	58.98	47.78	48.61	0.83	pump	1	14	3350.42
	03/11/09	3398.32	58.98	47.90	48.81	0.91	NA	NA	NA	3350.28
	03/11/09	3398.32	58.98	47.63	47.64	0.01	pump	1	16	3350.69
	03/18/09	3398.32	58.98	47.73	48.62	0.89	NA	NA	NA	3350.46
	03/18/09	3398.32	58.98	48.09	48.09	0.00	pump	0.25	19.75	3350.23
	03/25/09	3398.32	58.98	47.68	48.54	0.86	NA	NA	NA	3350.51
	03/25/09	3398.32	58.98	48.33	48.34	0.01	pump	3	19	3349.99
	04/01/09	3398.32	58.98	47.58	48.20	0.62	NA	NA	NA	3350.65
	04/08/09	3398.32	58.98	47.27	48.64	1.37	NA	NA	NA	3350.84
	04/08/09	3398.32	58.98	48.18	48.18	0.00	pump	1	19	3350.14
	04/15/09	3398.32	58.98	47.63	48.42	0.79	NA	NA	NA	3350.57
	04/15/09	3398.32	58.98	49.78	49.78	0.00	pump	1	19	3348.54
	04/22/09	3398.32	58.98	47.61	48.69	1.08	NA	NA	NA	3350.55
	04/22/09	3398.32	58.98	48.60	48.60	0.00	pump	1	19	3349.72
	04/29/09	3398.32	58.98	47.66	48.42	0.76	NA	NA	NA	3350.55
	04/29/09	3398.32	58.98	48.14	48.14	0.00	pump	1	19	3350.18
	05/06/09	3398.32	58.98	47.76	48.53	0.77	NA	NA	NA	3350.44
	05/06/09	3398.32	58.98	48.59	48.59	0.00	pump	1	19	3349.73
	05/14/09	3398.32	58.98	47.90	48.76	0.86	NA	NA	NA	3350.29
	05/14/09	3398.32	58.98	48.87	48.87	0.00	pump	1	19	3349.45
	05/20/09	3398.32	58.98	47.96	48.64	0.68	pump	1	19	3350.26
	05/28/09	3398.32	58.98	47.92	48.73	0.81	NA	NA	NA	3350.28
	05/28/09	3398.32	58.98	48.79	48.79	0.00	pump	1	19	3349.53
	06/03/09	3398.32	58.98	47.88	49.01	1.13	NA	NA	NA	3350.27
	06/03/09	3398.32	58.98	49.43	49.43	0.00	pump	1	19	3348.89
	06/11/09	3398.32	58.98	47.85	48.93	1.08	NA	NA	NA	3350.31

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Plains Marketing, 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	06/11/09	3398.32	58.98	48.90	48.90	0.00	pump	1	19	3349.42
	06/17/09	3398.32	58.98	47.73	49.00	1.27	NA	NA	NA	3350.40
	06/17/09	3398.32	58.98	48.98	48.98	0.00	pump	2	18	3349.34
	06/23/09	3398.32	58.98	47.82	48.62	0.80	NA	NA	NA	3350.38
	06/23/09	3398.32	58.98	48.88	48.88	0.00	pump	1	9	3349.44
	07/01/09	3398.32	58.98	47.76	48.72	0.96	NA	NA	NA	3350.42
	07/01/09	3398.32	58.98	48.72	48.72	0.00	pump	2	13	3349.60
	07/07/09	3398.32	58.98	47.72	48.47	0.75	NA	NA	NA	3350.49
	07/07/09	3398.32	58.98	49.50	49.50	0.00	NA	NA	NA	3348.82
	07/15/09	3398.32	58.98	47.68	48.76	1.08	pump	2	8	3350.48
	07/15/09	3398.32	58.98	50.20	50.20	0.00	NA	NA	NA	3348.12
	07/29/09	3398.32	58.98	47.62	48.66	1.04	pump	1	19	3350.54
	07/29/09	3398.32	58.98	49.10	49.10	0.00	NA	NA	NA	3349.22
	08/05/09	3398.32	58.98	47.69	48.46	0.77	pump	1	14	3350.51
	08/05/09	3398.32	58.98	50.36	50.36	0.00	NA	NA	NA	3347.96
	08/12/09	3398.32	58.98	47.65	48.34	0.69	pump	0.5	14.5	3350.57
	08/12/09	3398.32	58.98	48.71	48.71	0.00	NA	NA	NA	3349.61
	08/19/09	3398.32	58.98	47.61	48.07	0.46	pump	0.5	14.5	3350.64
	08/19/09	3398.32	58.98	49.78	49.78	0.00	NA	NA	NA	3348.54
	08/27/09	3398.32	58.98	47.64	48.14	0.50	pump	0.5	14.5	3350.61
	08/27/09	3398.32	58.98	48.91	48.91	0.00	NA	NA	NA	3349.41
	09/02/09	3398.32	58.98	47.65	48.16	0.51	pump	1	14	3350.59
	09/02/09	3398.32	58.98	48.55	48.55	0.00	NA	NA	NA	3349.77
	09/09/09	3398.32	58.98	47.64	48.13	0.49	pump	0.25	14.75	3350.61
	09/09/09	3398.32	58.98	48.23	48.23	0.00	NA	NA	NA	3350.09
	09/16/09	3398.32	58.98	47.69	48.28	0.59	pump	0.5	14.5	3350.54
	09/16/09	3398.32	58.98	48.31	48.31	0.00	NA	NA	NA	3350.01
	09/23/09	3398.32	58.98	47.68	48.10	0.42	pump	0.5	9.5	3350.58
	09/23/09	3398.32	58.98	49.44	49.44	0.00	NA	NA	NA	3348.88
	09/23/09	3398.32	58.98	47.71	47.72	0.01	pump	0	10	3350.61
	09/23/09	3398.32	58.98	49.80	49.80	0.00	NA	NA	NA	3348.52
	09/30/09	3398.32	58.98	47.61	47.90	0.29	pump	0.25	9.75	3350.67
	09/30/09	3398.32	58.98	48.52	48.52	0.00	NA	NA	NA	3349.80
	09/30/09	3398.32	58.98	47.58	47.62	0.04	pump	0.25	9.75	3350.73
	09/30/09	3398.32	58.98	48.75	48.75	0.00	NA	NA	NA	3349.57
	10/07/09	3398.32	58.98	47.67	48.04	0.37	pump	0.25	9.75	3350.59
	10/07/09	3398.32	58.98	48.72	48.72	0.00	NA	NA	NA	3349.60
	10/07/09	3398.32	58.98	47.63	47.65	0.02	pump	sheen	10	3350.69
	10/07/09	3398.32	58.98	49.14	49.14	0.00	NA	NA	NA	3349.18
	10/14/09	3398.32	58.98	47.65	47.95	0.30	pump	0.5	9.5	3350.63
	10/14/09	3398.32	58.98	48.96	48.96	0.00	NA	NA	NA	3349.36
	10/14/09	3398.32	58.98	47.61	47.64	0.03	pump	sheen	10	3350.71
	10/14/09	3398.32	58.98	48.75	48.75	0.00	NA	NA	NA	3349.57
	10/21/09	3398.32	58.98	47.62	47.83	0.21	pump	0.5	9.5	3350.67
	10/21/09	3398.32	58.98	48.62	48.62	0.00	NA	NA	NA	3349.70
	10/28/09	3398.32	58.98	47.55	47.73	0.18	pump	0.25	19.75	3350.74
	10/28/09	3398.32	58.98	48.98	48.98	0.00	NA	NA	NA	3349.34
RW-3	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
	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

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								PSH (gallons)	Water (gallons)	
RW-3	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
	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

TABLE 1
GROUNDWATER ELEVATION DATA
Plains Marketing, 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	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
	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	3319.8
	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	3320.8
	10/21/09	3369.05	59.57	48.10	48.10	0.00	NA	NA	NA	3320.95
	10/28/09	3369.05	59.57	48.12	48.12	0.00	NA	NA	NA	3320.93

NA: Not Applicable
NG: Not Gauged

TABLE 2
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 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
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	0.00110	<0.000163
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-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 2
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 mg/L	0.75 mg/L	0.75 mg/L	0.62 mg/L
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-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-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
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	9021907	<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

< = Not Detected

J = Indicates an estimated value

U= Not Detected. The analyte is not detected above the SDL.

Concentration in **Bold** = above NMOCD Remediation Criteria

[a] = Results from run 2; DF - 5

* Values reported from Run #2 as carry over was reported in Run #1.

TABLE 3
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	**4.360**	**1.470**	**0.801**	**1.200**
MW-1	5/20/2009	9052216	**3.420**	0.0278 J	0.603	**0.642**
RW-1	5/20/2008	T22267-6	**1.2**	0.6030	0.283	0.5410
RW-1	5/20/2009	9052216	**0.263**	0.1050	0.0636	0.1430
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-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

Concentrations in **bold** indicate regulatory limit exceedance
J = Indicates an estimated value above the method detection limit (MDL)

TABLE 4
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	Lab Report #	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	TPH-GRO (C6-C10)	TPH (C10-C28)
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)
Other regulatory limits (Tap Water*)			30**		365	243	0.91	1100	1830	1460	183	0.91	29.1	0.91	0.7**		0.091		9.1		30**		
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	41.5	137
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	6.82	17.8
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**	15.6	9.76
RW-1	5/20/2009	9052216	**205**[a]	<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	**449**[b]	2.22	60.8
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	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**	2.81	56.5
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	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	1.56 J	<0.876

< = Not Detected
J = Indicates an estimated value above the method detection limit (MDL)
Tap Water* = NMED Tap Water Soil screening levels for residential scenarios.
** = NM Water Quality Standard
U= Not Detected. The analyte is not detected above the SDL.
Concentrations in **bold** indicate regulatory limit exceedance
[a]Estimated concentration value greater than standard range.
[b]Estimated concentration value greater than standard range.
NA - Not requested for analysis

Table 5
Summary of Current Monitor Well Data
and Proposed Groundwater Sampling Schedule
Plains Marketing L.P.
SRS No. 2000-10807
Vacuum to Jal Mainline #3
Lea County, New Mexico

Well ID / Sampling Location	Summary of Current Sampling Data	Sampling Objective	Current Analytical Sampling Frequency	Proposed Analytical Sampling Frequency	Proposed MNA Sampling Frequency
MW-1 / Within the plume	High concentration of benzene above the remediation criterion	MNA parameters, COC concentrations	Annual		Semi-annual
MW-2 / Downgradient	Detected concentration of benzene above the remediation criterion	MNA parameters, COC concentrations immediately downgradient of the plume	Quarterly	Quarterly	Semi-annual
MW-3 / Cross gradient	Detected concentration of benzene above the remediation criterion	MNA parameters, COC concentrations, cross-gradient of the plume	Quarterly	Quarterly	Semi-annual
MW-4 / Downgradient	Non-detect	COC concentrations	Quarterly	Quarterly	NR
MW-5 / Cross gradient	Non-detect	MNA parameters, COC concentrations	Quarterly	Annual	Semi-annual
MW-6 / Cross gradient	Non-detect	COC concentrations	Quarterly	Annual	NR
MW-7 / Upgradient	Non-detect	MNA Parameters, COC concentrations	Quarterly	Annual	Semi-annual
(P)MW-8 / Downgradient	Unknown	COC concentrations	None	Quarterly	Semi-annual
RW-1 / Within the plume	High concentration of benzene above the remediation criterion	COC concentrations	Annual		NR
RW-2 / Within the plume	High concentration of benzene above the remediation criterion	COC concentrations	Annual		Semi-annual
RW-3 / Within the plume	High concentration of benzene above the remediation criterion	COC concentrations	Annual		NR
(P)RW-4 / Within the plume	Unknown	MNA parameters, COC concentrations	None		Semi-annual
(P)RW-5 / Within the plume	Unknown	MNA parameters, COC concentrations	None		Semi-annual

(P) - Indicates proposed monitoring or recovery wells.
NR - MNA parameters not required to be evaluated.

Table 6
Proposed MNA Parameters for Semi-annual Sampling
Plains Marketing L.P.
SRS No. 2000-10807
Vacuum to Jal Mainline #3
Lea County, New Mexico

Date	Sampling Location	Field Parameters						Comment
		Dissolved O_2	Ferrous Iron	Nitrate	Sulfate	ORP	pH	
Instrument used		Colorimeter				YSI meter		
Units		mg/L	mg/L	mg/L	mg/L	-	s.u.	
	MW-1							
	MW-2							
	MW-3							
	MW-5							
	MW-7							
	(P)MW-8							
	(P)RW-4							
	(P)RW-5							

ORP - Oxidation-Reduction Potential
O_2 - Oxygen
mg/L - milligram per liter (parts per million)
s.u. - standard units
(P) indicates proposed monitor/recovery wells

APPENDIX C

C141 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