1R - 0455

REPORTS

DATE:

2006



1R0455 Report 2006

March 29, 2007

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

Re:

Plains All American - Annual Monitoring Report

2 Sites in Lea County, New Mexico

Dear Mr. Stone:

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

DS Hugh Gathering 1R-0463 Section 26, Township 21 South, Range 37 East, Lea County Vacuum to Jal Mainline #3 1R-0455 Section 35, Township 21 South, Range 37 East, Lea County

Premier prepared this document and has vouched for its accuracy and completeness, and Plains All American has reviewed the document and interviewed Premier in order to verify the accuracy and completeness of this document. It is based upon these inquiries and reviews that Plains All American submits the enclosed Annual Monitoring Report for the above facility.

If you have any questions or require further information, please contact me at (432) 557-5865.

Sincerely.

Daniel Bryant

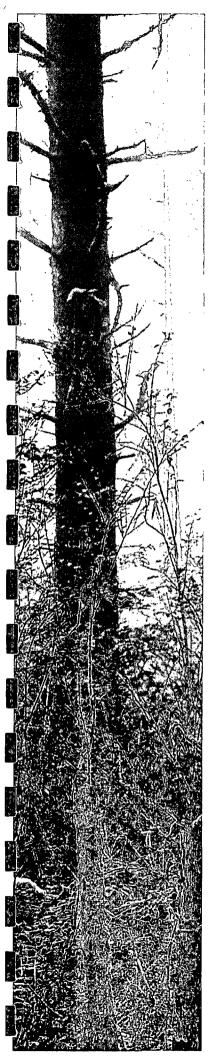
Environmental Specialist

Plains All American

CC:

Larry Johnson, NMOCD, Hobbs, NM

Enclosures



2006 ANNUAL REPORT VACUUM TO JAL 14" MAINLINE #3

PLAINS SRS NO. 2003-00117

UL-A, SECTION 35, T21S, R37E

Lea County, New Mexico

NMOCD No.: 1R - 0455

PREPARED FOR



333 CLAY STREET, SUITE 1600

HOUSTON, TEXAS 77002

PREPARED BY



4800 Sugar Grove Blvd., Suite 420 Stafford, Texas 77477 281.240.5200

Project No. 205068.00

March 2007

Chan Patel Senior Project Manager

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DISCLAIMER

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

ES EXECUTIVE SUMMARY

On May 8, 2003, a release of approximately 3 barrels of crude oil occurred from a 14" steel pipeline at the EOTT Energy LLC (EOTT) Vacuum to Jal 14" Mainline # 3 Site (Site), SRS No. 2003-00117 (Vac to Jal #3). Plains Marketing, L.P. (Plains) currently owns the pipeline. The Site is located in unit letter A, NE¼ of the NE¼, Section 35, Township 21S, Range 37E, or more specifically at latitude 32° 26' 32.67" N and longitude 103° 07' 36.885" W in Lea County, New Mexico (Figure 1, Appendix A). The release was apparently caused by internal corrosion and the pipeline was repaired.

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

Investigation of hydrocarbon impact in soil and groundwater continued through 2005, detailed in a March 2006 Site Investigation and Annual Report, which was submitted to New Mexico Oil Conservation Division (NMOCD) and Plains.

During 2006, soil remediation was conducted and monitoring of groundwater and PSH recovery continued on a nearly bimonthly basis.

In May 2006, a soil remediation plan was submitted to the NMOCD to address soil contamination at the site. Objectives of this risk-based soil remediation plan were to isolate and control contaminants of concern (COCs) in the soil and to prevent further impact to groundwater. The soil remediation plan was approved by NMOCD in a correspondence dated June 1, 2006. A Soil Closure Report, which details the excavation, impermeable liner installation and other activities completed to meet the objectives identified in the soil remediation plan and the specific conditions identified in the NMOCD approval letter, was submitted to the NMOCD in March 2006. The footprint of the excavation and location of the monitoring wells are depicted in Figure 2, Appendix A. Details regarding soil analytical results can be found in the 2006 Soil Closure Report, previously submitted to the NMOCD.

Semi-monthly gauging data did not indicate significant fluctuation in groundwater elevations during 2006. The groundwater flow based on the gauging data collected during 2006 was in a southeast direction at an approximate gradient across the site of 0.0028 feet/feet as measured between monitoring wells MW-4 and MW-7 (Figures 3A - 3D, Appendix A). The groundwater gradient and flow direction across the site during this period are consistent throughout 2006, as well as consistent with 2005 data.

The dissolved phase plume was evaluated by analyzing groundwater samples collected from six monitoring wells which do not contain PSH. Benzene was detected in MW-2 and MW-3 located slightly down-gradient of the excavated soil

area (Figure 2, Appendix A; Table 2, Appendix B). The analytical data in both of these wells showed a slight decreasing trend in benzene concentration during 2006. BTEX constituents were not detected in the remaining up-gradient, cross-gradient, and down-gradient monitoring wells.

One recovery well and one monitoring well contained measurable PSH, recovered using absorbent socks and manual bailing. The PSH thickness varied from 0.05 to 2.91 feet in RW-1, and 0.02 to 2.0 feet in MW-1. PSH sheen was observed in recovery wells RW-1, RW-2, and RW-3 during 2006. Approximately 40 gallons of PSH were recovered from approximately 160 gallons of total fluids during 2006,

1.0 INTRODUCTION AND SITE HISTORY

Premier Environmental Services, Inc. (Premier) has been retained by Plains Marketing, L.P. (Plains) to complete this Annual Report at the Vacuum to Jal 14" Mainline #3 Site (Site) (SRS Nos. 2003-00117). The Site is located in unit letter A, NE¼ of the NE¼, Section 35 Township 21S, Range 37E, or specifically at latitude 32° 26' 32.67" N and longitude 103° 07' 36.885" W in Lea County, New Mexico (Figure 1, Appendix A).

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

The release was investigated and soil was excavated and stockpiled in June 2003 by Environmental Plus, Inc. (EPI). Transport of 676 cubic yards of stockpiled soil to the Lea Station Land Farm for treatment was reported on the C-138 in April 2004.

Investigation of hydrocarbon impact in soil and groundwater continued through 2005. The results of the 2005 soil and groundwater investigations are detailed in a March 2006 Site Investigation and Annual Report, which was submitted to NMOCD and Plains.

2.0 2006 ACTIVITIES

During 2006, soil impact was further assessed and groundwater monitoring continued on a quarterly basis.

2.1 2006 Soil Remediation

In May 2006, a soil remediation plan was submitted to the NMOCD to address soil impact at the site. Objectives of this risk-based plan were to isolate and control contaminants of concern (COCs) in the soil and to prevent further impact to groundwater. The soil remediation plan was approved by NMOCD in a June 1, 2006 letter.

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

The base of the excavation was over-excavated to an approximate depth of 5 feet below the bottom of the pipeline, and the base of the excavation was graded with a high central area. A 20-mil high-density polyethylene (HDPE) impermeable liner was placed at the base of the excavation, trimmed and covered with a 6-inch-thick layer of clean imported. The outward slope from the center of the excavation facilitates drainage away from the residual hydrocarbon.

A composite soil sample was collected from the onsite stockpiled soil to verify use of the soil as acceptable fill, confirmed by analytical results below the NMOCD

established standard of 1,000 mg/kg TPH for backfill material. Details regarding soil remediation can be found in the *December 2006 Soil Closure Report*, submitted to the NMOCD in December 2006.

2.2 2006 Groundwater Activities

Groundwater at the site was evaluated during 2006 through semi-monthly gauging of three recovery wells, seven monitoring wells; and quarterly groundwater sampling from six monitoring wells for laboratory analysis. Groundwater samples were analyzed for BTEX constituents. Three recovery wells and one monitoring well contained measurable PSH. Recovery wells RW-1, RW-2, and RW-3, as well as Monitor well MW-1 contained PSH and groundwater samples were not collected for laboratory analysis. PSH was recovered using absorbent socks and manual bailing.

The PSH thickness varied from 0.05 to 2.91 feet in RW-1, and 0.02 to 2.0 feet in MW-1. One recovery well and one monitoring well contained measurable PSH, recovered using absorbent socks and manual bailing. The PSH thickness varied from 0.05 to 2.91 feet in RW-1, and 0.02 to 2.0 feet in MW-1. PSH sheen was observed in recovery wells RW-1, RW-2, and RW-3 during 2006. Approximately 40 gallons of PSH were recovered from approximately 160 gallons of total fluids during 2006. Approximately 40 gallons of PSH were recovered from approximately 160 gallons of total fluids removed during 2006. The amount of PSH recovered through absorbent socks can not be quantified accurately.

Semi-monthly gauging data did not indicate significant fluctuation in groundwater elevations during 2006 (<1.0 ft). The groundwater flow based on the gauging data collected during 2006 was in a southeast direction at an approximate gradient across the site of 0.0028 feet/feet as measured between monitoring wells MW-4 and MW-7 (Figures 3A -3D, Appendix A). The groundwater gradient and flow direction across the site during this period were consistent throughout 2006, as well as consistent with 2005 data.

The dissolved phase plume was evaluated by analyzing groundwater samples collected from six monitoring wells which do not contain PSH. Benzene was detected in MW-2 and MW-3 located slightly down-gradient of the excavated soil area (Figure 2, Figures 4A-4D, Appendix A; Table 2, Appendix B). The analytical data from monitor wells MW-2 and MW-3, although slightly exceeding the NMOCD benzene criteria during 2006, showed a decreasing trend in benzene concentrations from 1st to 4th quarters 2006 (MW-2 - 0.243 mg/L to 0.214 mg/L; MW-3 - 0.501 mg/L to 0.190 mg/L respectively). No other BTIEX constituents were detected in groundwater from monitor wells MW-2 and MW-3. BTEX constituents were not detected in monitoring wells MW-4, MW-5, MW-5, and MW-7.

3.0 CONCLUSIONS

During 2006, excavation of impacted soil was completed and groundwater monitoring was conducted on a quarterly basis. PSH recovery was ongoing through manual bailing and the use of absorbent socks.

In October 2006, impacted soil was excavated in accordance with the *Soil Remediation Plan*. The proposed plan was submitted to NMOCD in May 2006 and approved by NMOCD in June 2006. The objectives of the soil remediation (as described in the approved *Soil Remediation Plan*) were to isolate and control COCs in soil and to prevent further impact to groundwater. Soil remediation goals and regulatory requirements established in the *Soil Remediation Plan* were attained, detailed in the *December 2006 Soil Closure Report*.

Measurable PSH and/or sheen were observed in recovery wells RW-1, RW-2, and RW-3, and monitor well MW-1 during 2006. Approximately 40 gallons of PSH were recovered from approximately 160 gallons of total fluids during 2006. These fluids were manually bailed from three recovery wells and one monitoring well.

Benzene was detected above NMOCD criteria in MW-2 and MW-3 located slightly down-gradient of the excavated soil area (Figures 4A-4D, Appendix A; Table 2, Appendix B). The analytical data in both of these wells showed a slight decreasing trend in benzene concentration during 2006. BTEX constituents were not detected in the remaining up-gradient, cross-gradient, and down-gradient monitoring wells.

4.0 2007 PROPOSED ACTIVITIES

Premier proposes to continue weekly PSH recovery operations through manual bailing, and changing absorbent socks in wells with PSH as necessary, monthly gauging, and quarterly groundwater sampling to monitor hydrocarbons in groundwater. Should any appreciable accumulations of PSH be observed (in excess of 0.25'), recovery operations will be increased to include hand bailing the affected wells weekly.

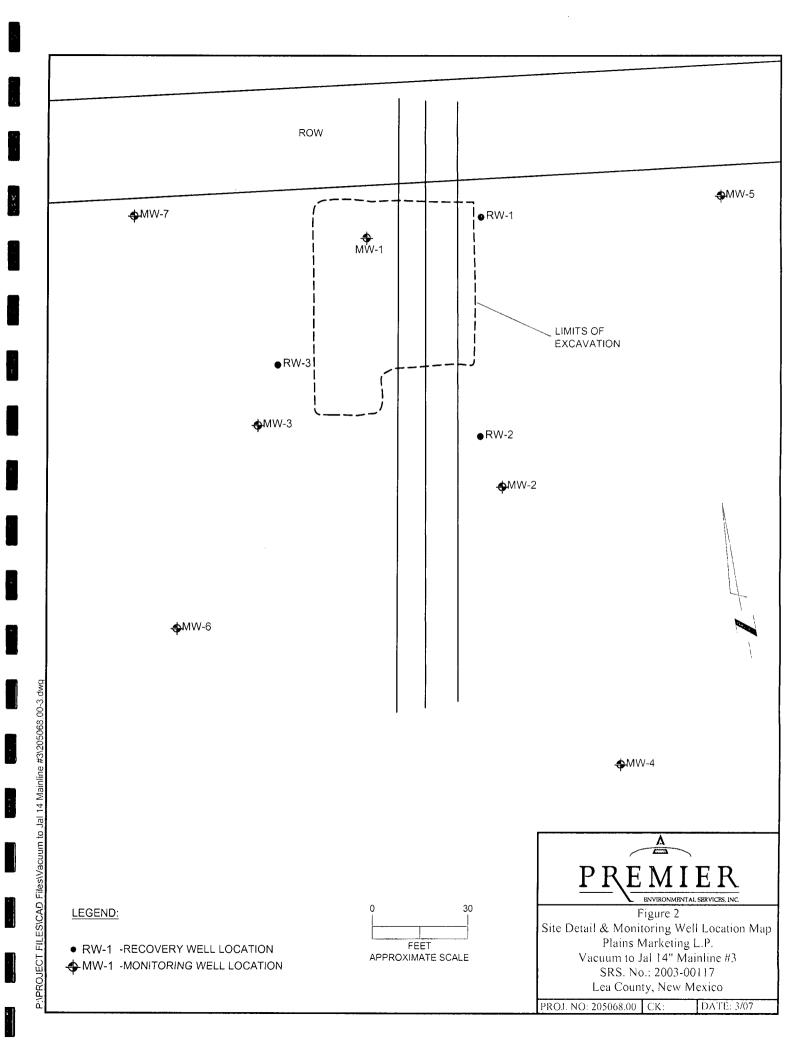
Site restoration (seeding) of the backfilled area will be completed at the appropriate time upon approval by the landowner and Plains Marketing L.P.

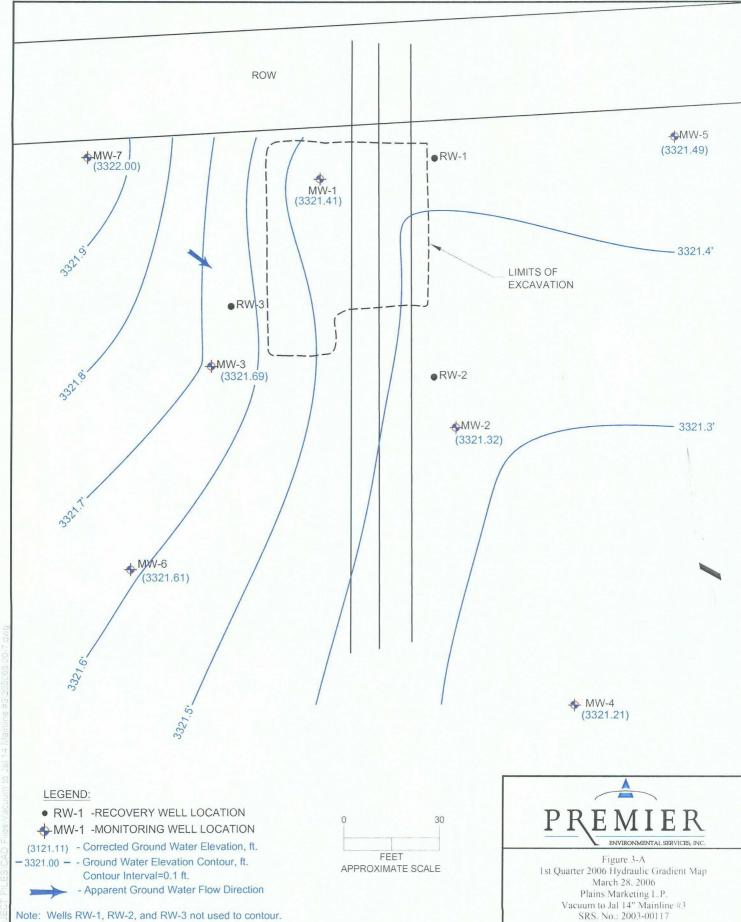
Appendix A Figures

Figure 1 – Site Location Map
Figure 2 – Site Detail & Monitoring Well Location Map
Figure 3A – 1st Quarter 2006 Hydraulic Gradient Map
Figure 3B – 2nd Quarter 2006 Hydraulic Gradient Map
Figure 3C – 3rd Quarter 2006 Hydraulic Gradient Map
Figure 3D – 4th Quarter 2006 Hydraulic Gradient Map

Figure 4A – 1st Quarter 2006 BTEX Concentration Map Figure 4B – 2nd Quarter 2006 BTEX Concentration Map Figure 4C – 3rd Quarter 2006 BTEX Concentration Map Figure 4D – 4th Quarter 2006 BTEX Concentration Map





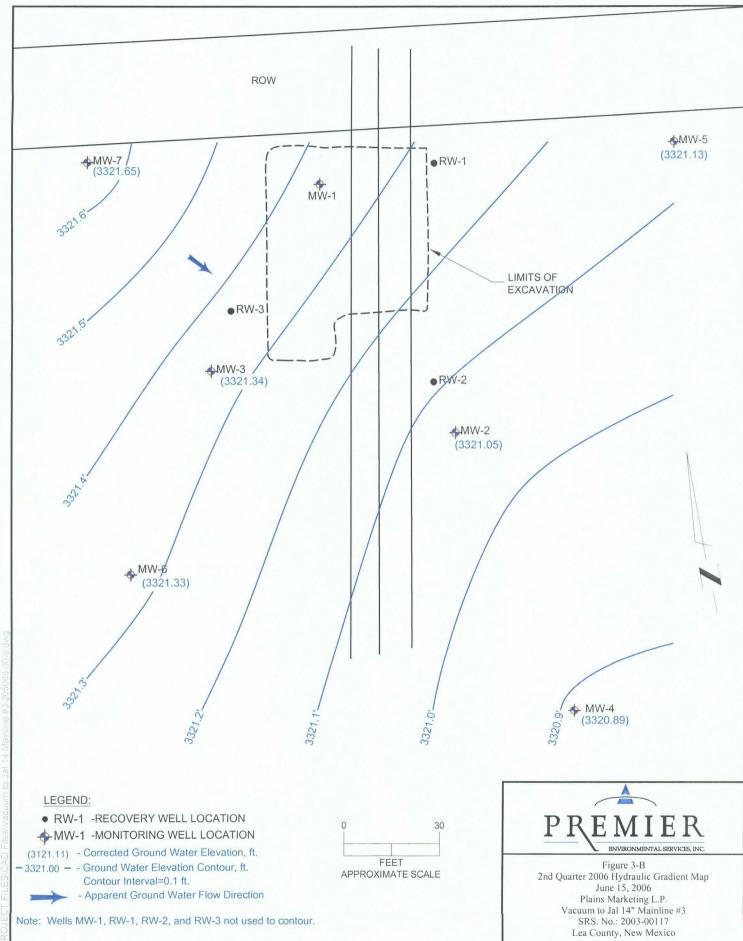


Lea County, New Mexico

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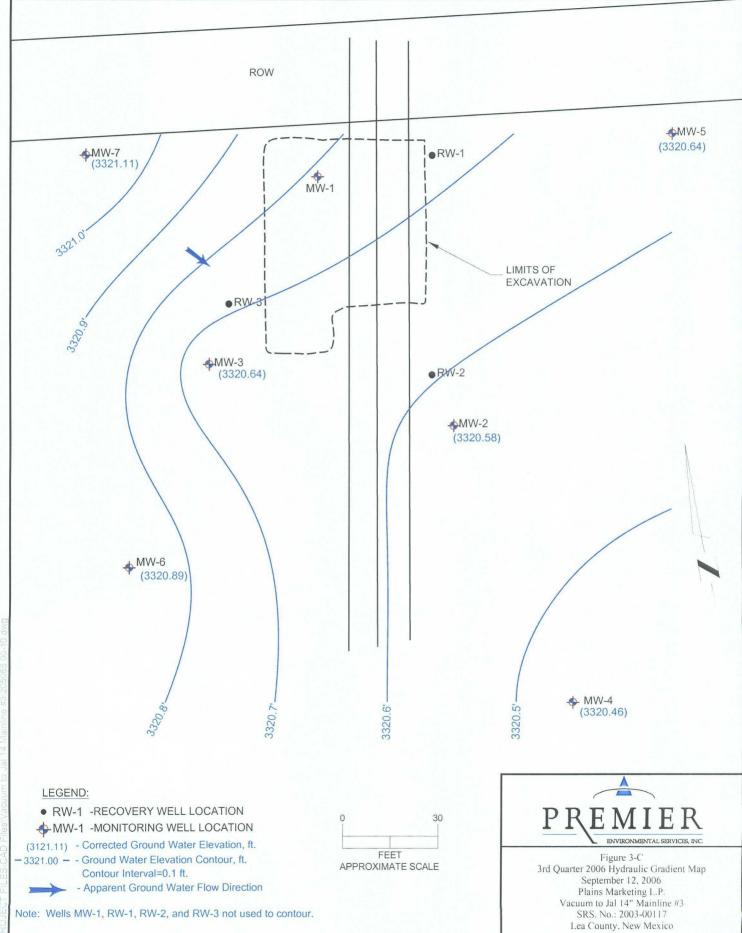
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Note: Wells RW-1, RW-2, and RW-3 not used to contour.



DATE: 3/07

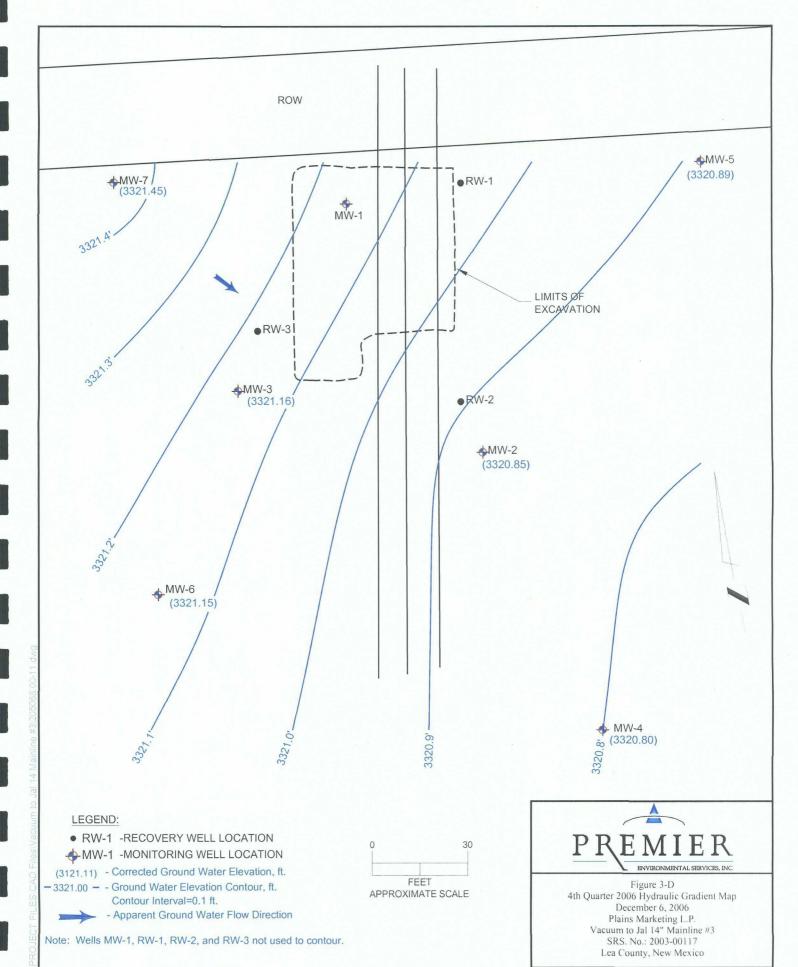
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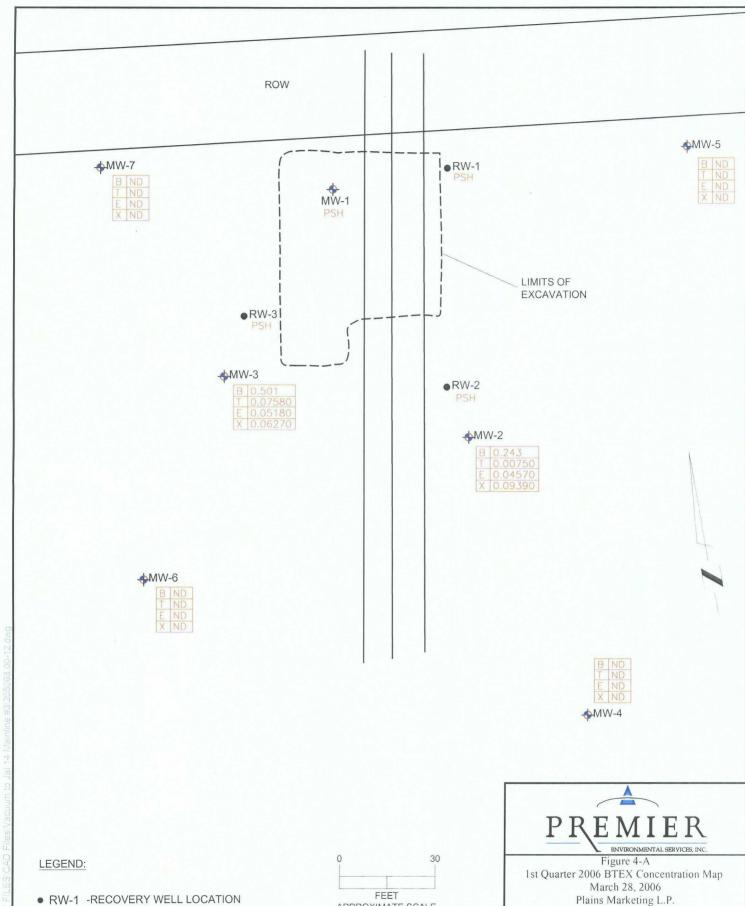
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APPROXIMATE SCALE

Vacuum to Jal 14" Mainline #3

SRS. No.: 2003-00117

Lea County, New Mexico

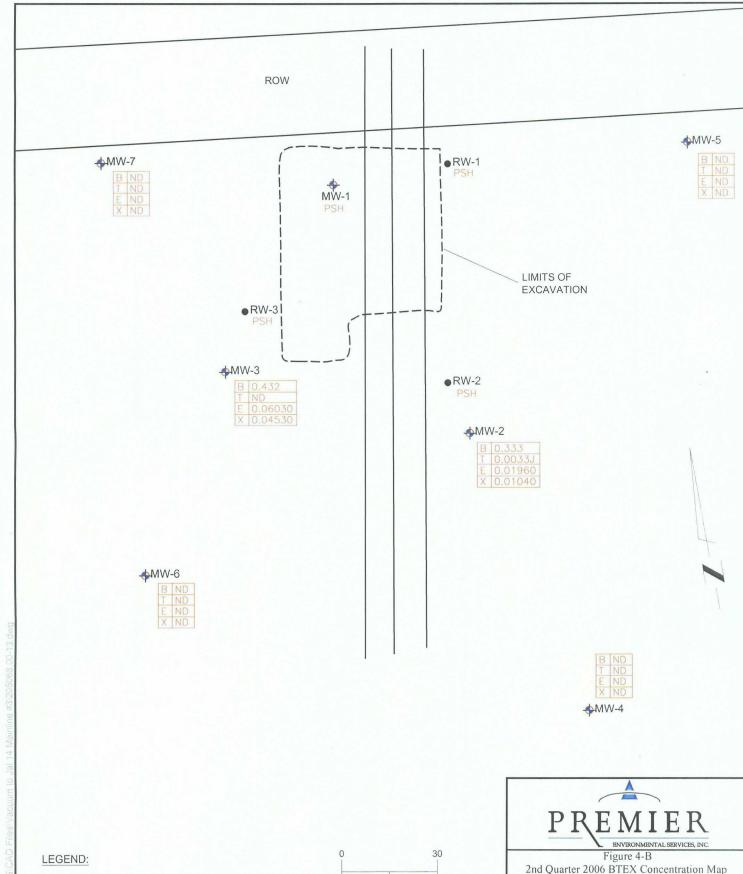
DATE: 3/07

PROJ. NO: 205068.00 CK:

→ MW-1 -MONITORING WELL LOCATION

PSH= PSH present and well not sampled.

Note: All concentration in mg/L.



RW-1 -RECOVERY WELL LOCATION
 → MW-1 -MONITORING WELL LOCATION

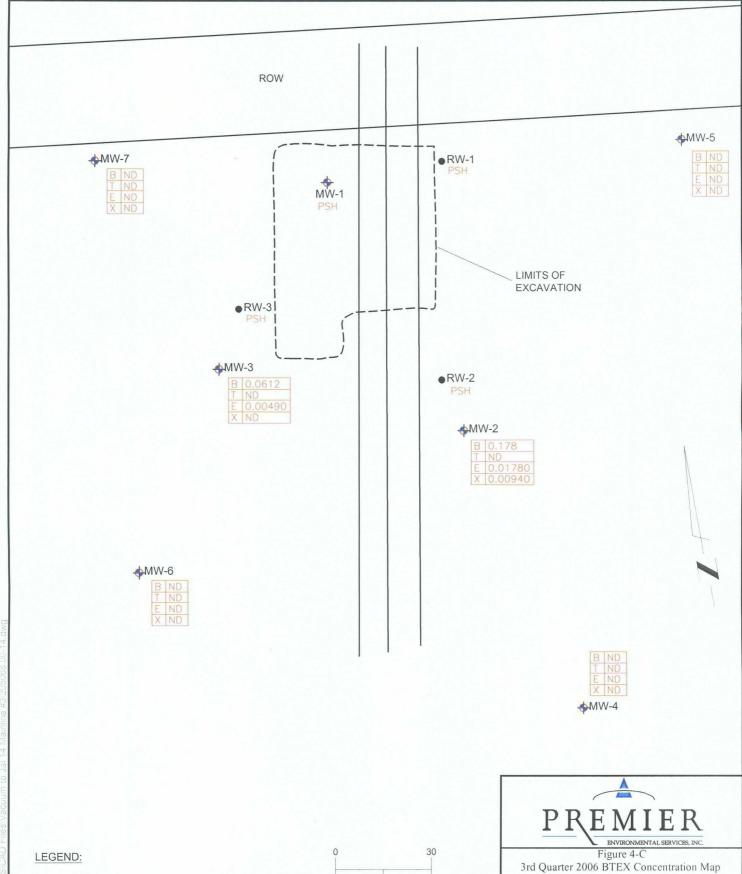
Note: All concentration in mg/L. PSH= PSH present and well not sampled.



Figure 4-B
2nd Quarter 2006 BTEX Concentration Map
June 15, 2006
Plains Marketing L.P.
Vacuum to Jal 14" Mainline #3
SRS. No.: 2003-00117
Lea County, New Mexico

PROJ. NO: 205068.00 CK:

DATE: 3/07



• RW-1 -RECOVERY WELL LOCATION

♦ MW-1 -MONITORING WELL LOCATION

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

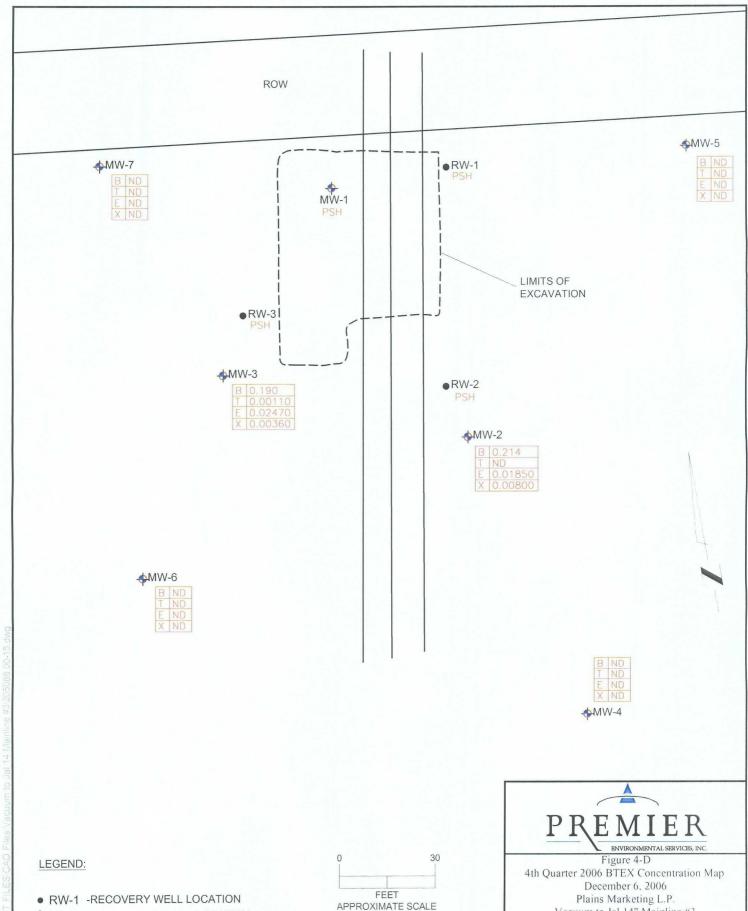


September 12, 2006 Plains Marketing L.P. Vacuum to Jal 14" Mainline #3 SRS. No.: 2003-00117

Lea County, New Mexico

PROJ. NO: 205068.00 CK:

DATE: 3/07



→ MW-1 -MONITORING WELL LOCATION

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

Vacuum to Jal 14" Mainline #3 SRS. No.: 2003-00117

Lea County, New Mexico

PROJ. NO: 205068.00 CK:

DATE: 3/07

Appendix B Tables

Table 1 - 2006 Groundwater Gauging Data

Table 2 - 2006 Groundwater Analytical Results

Table 1 2006 Groundwater Gauging Data Vacuum to Jal 14" Mainline #3 Lea County, New Mexico Plains Marketing, L.P. SRS No.: 2003-00117

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Well No.	Date Measured	TOC Elevation	Depth of Well	Depth to PSH	Depth to Water	PSH Thickness	Recovery Method	PSH Recovered (gallons)	Corrected Groundwater Elevation	Well volume Removed
MW-1	01/05/06	3362.64		41.03	41.05	0.02	new sock		3321.61	
	02/09/06	3362.64		40.87	40.88	0.01	new sock		3321.77	
1	02/22/06	3362.64		40.77	40.78	0.01	flip sock		3321.87	
	03/28/06	3362.64		41.23	41.23	0.00	L		3321.41	
	04/13/06	3362.64		41.40	41.40	0.00	new sock		3321.24	
į	04/25/06	3362.64		41.30	41.30	0.00	flip sock		3321.34	
	05/11/06	3362.64		41.55	41.55	0.00	new sock		3321.09	ļ
	05/24/06	3362.64	ļ <u> </u>	41.20	41.20	0.00	new sock		3321.44	[
	06/07/06	3362.64	<u> </u>	41.77	41.77 41.63	0.00	new sock	0	3320.87	Purged 5 gal
	06/07/06	3362.64 3362.64	ļ <u></u>	41.63 41.50	41.50	0.00	new sock		3321.01 3321.14	
	06/15/06 06/29/06	3362.64		41.73	42.18	0.00	new sock		3320.84	
	06/29/06	3362.64	-	41.75	41.97	0.02	new sock		3320.69	
1	07/11/06	3362.64		41.82	42.03	0.02	flip sock		3320.79	
	07/25/06	3362.64		42.41	42.60	0.19	new sock		3320.20	
	08/09/06	3362.64	48.75	41.95	42.76	0.81	TICH SOOK		3320.57	
	08/09/06	3362.64	40.10	45.50	45.50	0.00	flip sock		3317.14	
	08/22/06	3362.64		40.00	10.00	0.00			3362.64	Unable to gaug
	09/12/06	3362.64	48.93	41.92	43.92	2.00	Remove Sock		3320.42	
	09/19/06	3362.64	10.00	41.45	43.35	1.90		PSH 3 / H2O 7	3320.91	
	09/19/06	3362.64		46.50	46.55	0.05	·		3316.13	
	10/03/06	3362.64		41.52	42.53	1.01	No Sock	PSH 1.5 / H2O 7 (DRY)	3320.97	· · · · · · · · · · · · · · · · · · ·
	10/03/06	3362.64	,	48.35	48.37	0.02			3314.29	·
	10/17/06	3362.64		48.43	49.43	1.00	No Sock	PSH 1.5 / H2O 3.5	3314.06	1
	10/17/06	3362.64		54.20	54.21	0.01			3308.44	
	10/31/06	3362.64		48.48	49.56	1.08	No Sock	PSH 1.5 / H2O 3.5	3314.00	
	10/31/06	3362.64	<u> </u>	51.77	51.85	0.08			3310.86	
	11/15/06	3362.64		48.50	49.51	1.01]		3313.99	
	11/15/06	3362.64		51.40	51.55	0.15		PSH 1/ H2O 9	3311.22	
	12/06/06	3362.64		48.35	49.62	1.27		PSH 1/ H2O 9	3314.10	
	12/13/06	3362.64		48.32	49.68	1.36		PSH 1.5 / H2O 3.5	3314.12	
	12/13/06	3362.64		52.09	52.11	0.02			3310.55	
	12/27/06	3362.64		48.25	49.11	0.86	No Sock	PSH 1 / H2O 4	3314.26	1
	12/27/06	3362.64		52.28	52.31	0.03			3310.36	
MW-2	01/05/06	3367.00			45.76	0.00	ļ <u>.</u>		3321.24	
	02/09/06	3367.00 3367.00			45.58 45.48	0.00	 		3321.42 3321.52	
	02/22/06 03/28/06	3367.00	56.38		45.48	0.00			3321.32	
	04/13/06	3367.00	30.30		45.77	0.00	 		3321.23	 -
	04/25/06	3367.00			45.83	0.00			3321.17	1
	05/11/06	3367.00	1		45.83	0.00			3321.17	1
	05/24/06	3367.00			45.95	0.00			3321.05	
	06/07/06	3367.00			46.04	0.00			3320.96	
	06/15/06	3367.00			45.95	0.00			3321.05	
	06/29/06	3367.00			46.23	0.00			3320.77	ļ
	07/11/06	3367.00 3367.00	-		46.22 46.32	0.00	 	 	3320.78 3320.68	
	07/25/06 08/09/06	3367.00	55.93		46.37	0.00			3320.68	
	08/22/06	3367.00	33.33		46.48	0.00			3320.52	
	09/12/06	3367.00	56		46.42	0.00			3320.58	
	09/19/06	3367.00			46.35	0.00			3320.65	
	10/03/06	3367.00			46.30	0.00			3320.70	
	10/17/06	3367.00			46.25	0.00			3320.75	
	11/15/06	3367.00			46.30	0.00			3320.70	
,	12/06/06	3367.00	55.82		46.15	0.00			3320.85	J
	12/13/06	3367.00	ļ. <u></u>	<u> </u>	46.21	0.00		ļ	3320.79	
	12/27/06	3367.00	<u></u>	<u></u>	46.44	0.00	<u> </u>		3320.56	1

Table 1 2006 Groundwater Gauging Data Vacuum to Jal 14" Mainline #3 Lea County, New Mexico Plains Marketing, L.P. SRS No.: 2003-00117

C. Strategy

Well No.	Date Measured	TOC Elevation	Depth of Well	Depth to PSH	Depth to Water	PSH Thickness	Recovery Method	PSH Recovered (gallons)	Corrected Groundwater Elevation	Well volume Removed
MW-3	01/05/06	3369.1			47.50	0.00			3321.60	
	02/09/06	3369.1			47.33	0.00			3321.77	
	02/22/06 02/28/06	3369.1 3369.1	55.95		47.24 47.41	0.00			3321.86 3321.69	
	03/28/06	3369.1	55.95		47.41	0.00	,		3321.69	
	04/13/06	3369.1			47.53	0.00			3321.57	
	04/25/06	3369.1			47.64	0.00			3321.46	
	05/11/06 05/24/06	3369.1 3369.1			47.69 47.72	0.00			3321.41 3321.38	
	06/07/06	3369.1			47.83	0.00			3321.27	
	06/15/06	3369.1			47.76	0.00			3321.34	
- 1	06/29/06 07/11/06	3369.1	<u> </u>		48.02 48.02	0.00			3321.08 3321.08	
-	07/11/06	3369.1 3369.1	-		48.02	0.00			3321.08	
	08/09/06	3369.1	55.67		48.17	0.00			3320.93	-
[08/22/06	3369:1			48.28	0.00			3320.82	
	09/12/06	3369.1	55.58		48.46	0.00			3320.64	
	09/19/06 10/03/06	3369.1 3369.1			48.20 48.16	0.00			3320.90 3320.94	
	10/17/06	3369.1			48.07	0.00			3321.03	
	10/31/06	3369.1			48.11	0.00			3320.99	
	11/15/06	3369.1 3369.1	55.50		48.09	0.00			3321.01	
i	12/06/06 12/13/06	3369.1	55.52		47.94 47.98	0.00		1	3321.16 3321.12	
j	12/27/06	3369.1			47.75	0.00		1	3321.35	
MW-4	01/05/06	3365.12	Ĺ		44.02	0.00			3321.10	
	02/09/06	3365.12			43.82	0.00	•		3321.30	
-	02/22/06 03/28/06	3365.12 3365.12	59.43		43.80 43.91	0.00		 	3321.32 3321.21	
	04/13/06	3365.12	30.10		44.02	0.00			3321.10	
	04/25/06	3365.12			44.13	0.00			3320.99	
	05/11/06	3365.12 3365.12	ļ		44.20	0.00			3320.92	
1	05/24/06 06/07/06	3365.12	-		44.21 44.35	0.00			3320.91 3320.77	-
- 1	06/15/06	3365.12			44.23	0.00			3320.89	1
	06/29/06	3365.12			44.48	0.00			3320.64	
	07/11/06 07/25/06	3365.12			44.49 44.53	0.00		 	3320.63 3320.59	
ŀ	08/09/06	3365.12 3365.12	59.5		44.66	0.00		 	3320.46	ļ
	08/22/06	3365.12			44.75	0.00			3320.37	
	09/12/06	3365.12	59.46		44.66	0.00			3320.46	
	09/19/06 10/03/06	3365.12 3365.12	ļ	·	44.60 44.55	0.00			3320.52 3320.57	
	10/03/06	3365.12	ļ		44.48	0.00			3320.64	
	10/31/06	3365.12			44.53	0.00			3320.59	
	11/15/06	3365.12			44.53	0.00			3320.59	
	12/06/06 12/13/06	3365.12 3365.12	59.42		44.32 44.37	0.00			3320.8 3320.75	
	12/27/06	3365.12	<u> </u>		44.18	0.00			3320.94	
MW-5	01/05/06	3364.74			43.36	0.00			3321.38	
- 1	02/08/06 02/22/06	3364.74			43.13	0.00			3321.61	
	02/22/06	3364.74 3364.74	53.6		43.12 43.25	0.00	_		3321.62 3321.49	
	04/13/06	3364.74	30.0		43.40	0.00			3321.34	
	04/25/06	3364.74			43.50	0.00			3321.24	
	05/11/06	3364.74			43.58	0.00			3321.16	
J	05/24/06 06/07/06	3364.74 3364.74	 		43.87 43.68	0.00		<u> </u>	3320.87 3321.06	
	06/15/06	3364.74			43.61	0.00			3321.13	
	06/29/06	3364.74			43.86	0.00			3320.88	
	07/11/06 07/25/06	3364.74 3364.74	1		43.87	0.00		 	3320.87 3320.79	
	08/09/06	3364.74	53.44		43.95 44.04	0.00		 	3320.79	
	08/22/06	3364.74			44.13	0.00			3320.61.	
	09/12/06	3364.74	53.37		44.10	0.00			3320.64	
	09/19/06 10/03/06	3364.74 3364.74	 		44.00 43.98	0.00			3320.74 3320.76	
	10/03/06	3364.74			43.98	0.00		 	3320.76	
	10/31/06	3364.74			43.95	0.00		<u> </u>	3320.79	
	11/15/06	3364.74			43.99	0.00			3320.75	
	12/06/06	3364.74	53.35		43.85	0.00			3320.89	
	12/13/06 12/27/06	3364.74 3364.74	 		43.88 43.65	0.00		 	3320.86 3321.09	

Table 1 2006 Groundwater Gauging Data Vacuum to Jal 14" Mainline #3 Lea County, New Mexico Plains Marketing, L.P. SRS No.: 2003-00117

Well No.	Date Measured	TOC Elevation	Depth of Well	Depth to PSH	Depth to Water	PSH Thickness	Recovery Method	PSH Recovered (gallons)	Corrected Groundwater Elevation	Well volum Removed
MW-6	01/05/06	3368.96			47.40	0.00			3321.56	
L	02/09/06	3368.96	ļ		47.15	0.00			3321.81	
1	02/22/06	3368.96			47.12	0.00			3321.84	
ļ.	03/28/06	3368.96	59.45		47.35	0.00			3321.61	
ŀ	04/13/06 04/25/06	3368.96 3368.96			47.42 47.50	0.00	 	<u> </u>	3321.54 3321.46	
ŀ	05/11/06	3368.96			47.57	0.00			3321.39	
<u>}</u>	05/24/06	3368.96	 		47.57	0.00			3321.39	
ŀ	06/07/06	3368.96			47.72	0.00		ļ	3321.24	
<u> </u>	06/15/06	3368.96			47.63	0.00	 	 	3321.33	
ı	06/29/06	3368.96			47.89	0.00			3321.07	
Ī	07/11/06	3368.96			47.90	0.00		 	3321.06	
	07/25/06	3368.96			47.97	0.00			3320.99	
	08/09/06	3368.96	59.49		48.02	0.00			3320.94	
Į.	08/22/06	3368.96			48.15	0.00			3320.81	
	09/12/06	3368.96	59.43		48.07	0.00			3320.89	
	09/19/06	3368.96	ļ		48.07	0.00		ļ	3320.89	
	10/03/06	3368.96			48.03	0.00			3320.93	-
	10/17/06	3368.96 3368.96			47.90 47.95	0.00			3321.06	ļ
	11/15/06	3368.96			47.96	0.00		 	3321.01 3321	
ŀ	12/06/06	3368.96	59.39		47.81	0.00		 	3321.15	
	12/13/06	3368.96	35.55		47.88	0.00			3321.08	
ŀ	12/27/06	3368.96			47.63	0.00			3321.33	
MW-7	01/05/06	3370.25			48.31	0.00	Ť	†	3321.94	1
·····	02/09/06	3370.25	1		48.09	0.00		 	3322.16	<u> </u>
ľ	02/22/06	3370.25	1		48.06	0.00			3322.19	
[03/28/06	3370.25	58.77		48.25	0.00			3322.00	
[04/13/06	3370.25			48.38	0.00			3321.87	
	04/25/06	3370.25			48.48	0.00			3321.77	
ļ.	05/11/06	3370.25			48.53	0.00			3321.72	
ļ.	05/24/06	3370.25			48.55	0.00			3321.7	
-	06/07/06	3370.25	ļ		48.68	0.00		ļ <u>.</u>	3321.57	
	06/15/06	3370.25 3370.25			48.60 48.86	0.00			3321.65	
	06/29/06 07/11/06	3370.25			48.86	0.00			3321.39 3321.39	
<u> </u>	07/25/06	3370.25			48.97	0.00			3321.28	
ŀ	8-90-6	3370.25	58.78		49.04	0.00			3321.21	
ŀ	08/22/06	3370.25	00.70		49.13	0.00			3321.12	
ŀ	09/12/06	3370.25	58.73		49.14	0.00	1		3321.11	
ľ	09/19/06	3370.25			49.05	0.00			3321.2	
Ţ	10/03/06	3370.25			49.03	0.00			3321.22	
[10/17/06	3370.25			48.92	0.00			3321.33	
	10/31/06	3370.25			48.95	0.00			3321.3	
ļ.	11/15/06	3370.25			48.96	0.00			3321.29	
-	12/06/06	3370.25	58.72		48.80	0.00			3321.45	
-	12/13/06	3370.25			48.85	0.00			3321.4	
	12/27/06	3370.25		40.00	48.60	0.00			3321.65	
RW-1	01/05/06	3368.12	 	46.60	46.60 46.35	0.00	sock		3321.52	
}-	02/09/06 02/22/06	3368.12 3368.12		46.35 46.30	46.30	0.00	sock		3321.77 3321.82	 -
ŀ	03/28/06	3368.12	Lt Sheen	46.42	46.42	0.00	sock sock		3321.70	
	04/13/06	3368.12	Sheen	46.60	46.60	0.00	sock		3321.52	
<u> </u>	04/25/06	3368.12	Sheen	46.78	46.78	0.00	sock		3321.34	
	05/11/06	3368.12	Sheen	46.82	46.82	0.00	sock		3321.3	
	05/24/06	3368.12	Sheen	46.80	46.80	0.00	sock		3321.32	
	06/07/06	3368.12	Sheen	46.91	46.91	0.00	sock	0	3321.21	Purged 5 g
].	06/07/06	3368.12	Sheen	47.10	47.10	0.00	sock		3321.02	
L	06/15/06	3368.12	Sheen	46.96	46.96	0.00	sock		3321.16	
-	06/29/06	3368.12	Light	47.26	47.26	0.00	sock		3320.86	
	07/11/06 07/25/06	3368.12 3368.12	Light	47.17 47.43	47.22 47.60	0.05 0.17	sock .		3320.94 3320.66	
	08/09/06	3368.12	Light 58.48	47.43	48.96	1.94	sock flip sock	Bail 10 Gal	3320.81	
<u> </u>	08/09/06	3368.12	55.40	48.33	48.43	0.10	inp sock	Can 10 Gai	3319.78	
ŀ	08/09/06	3368.12		47.20	47.60	0.40	2 hours later	i	3320.86	
ŀ	08/22/06	3368.12		47.30	48.77	1.47	new sock	PSH 2.5 / H20 7.5	3320.60	
f	08/22/06	3368.12		48.20	48.25	0.05			3319.91	
- 1	09/12/06	3368.12	58.52	47.10	48.82	1.72	Remove Sock		3320.76	
	09/19/06	3368.12		46.86	49.54	2.68		PSH 5 / H2O 5	3320.86	
	09/19/06	3368.12		48.53	48.60	0.07			3319.58	
	10/03/06	3368.12		46.80	49.42	2.62	No Sock	PSH 4.5 / H2O 5.5	3320.93	
	10/03/06	3368.12		47.70	47.74	0.04			3320.41	
Į.	10/17/06	3368.12		46.70	49.45	2.75	No Sock	PSH 3.5 / H2O 1.5	3321.01	
t		3368.12	ļ	47.52	47.58	0.06		201.252	3320.59	
-	10/17/06			46.75	49.63	2.88 0.11	No Sock	P\$H 3.5 / H2O 1.5	3320.94 3320.22	
<u>-</u>	10/31/06	3368.12	 	47.00			ı	1 /		
- - -	10/31/06 10/31/06	3368.12		47.88	47.99			DCH 3110- 7		
- - - - -	10/31/06 10/31/06 11/15/06	3368.12 3368.12		47.88	47.99	0.11		PSH 3 H20 7	3320.22	
- - - - - - - -	10/31/06 10/31/06 11/15/06 11/15/06	3368.12 3368.12 3368.12		47.88 48.33	47.99 48.51	0.11 0.18	No Socia	PSH 3 H2o 7	3320.22 3319.76	
-	10/31/06 10/31/06 11/15/06 11/15/06 12/06/06	3368.12 3368.12 3368.12 3368.12		47.88 48.33 46.64	47.99 48.51 49.41	0.11 0.18 2.77	No Sock		3320.22 3319.76 3321.06	
	10/31/06 10/31/06 11/15/06 11/15/06	3368.12 3368.12 3368.12		47.88 48.33	47.99 48.51	0.11 0.18	No Sock No Sock	PSH 3 H20 7	3320.22 3319.76	

3 of 4

Table 1 2006 Groundwater Gauging Data Vacuum to Jal 14" Mainline #3 Lea County, New Mexico Plains Marketing, L.P. SRS No.: 2003-00117

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Well No.	Date Measured	TOC Elevation	Depth of Well	Depth to PSH	Depth to Water	PSH Thickness	Recovery Method	PSH Recovered (gallons)	Corrected Groundwater Elevation	Well volume Removed
RW-2	01/05/06	3368.32		46.94	46.94	0.00	sock		3321.38	
	02/09/06	3368.32		46.71	46.71	0.00	sock		3321.61	
	02/22/06	3368.32	<u> </u>	46.68	46.68	0.00	sock		3321.64	
	03/28/06	3368.32	Sheen	46.45	46.45	0.00	sock		3321.87	
	04/13/06 04/25/06	3368.32 3398.32	Sheen	46.93 47.12	46.93 47.12	0.00	sock		3321.39	
	05/11/06	3398.32	Sheen	47.12	47.12	0.00	sock sock		3351.20 3351.19	ļ
1	05/24/06	3398.32	Sheen	47.12	47.12	0.00	sock		3351.20	
	06/07/06	3398.32	Sheen	47.00	47.00	0.00	sock	0	3351.32	Purged 5 gal
	06/07/06	3398.32	Sheen	47.38	47.38	0.00	sock		3350.94	- 9
	06/15/06	3398.32	Sheen	47.23	47.23	0.00	sock		3351.09	
	06/29/06	3398.32	Light	47.55	47.55	0.00	sock		3350.77	
	07/11/06	3398.32	Light	47.56	47.56	0.00	sock		3350.76	
	07/25/06	3398.32	Light	47.55	47.55	0.00	sock		3350.77	
1	08/09/06	3398.32	59	47.78	47.78	0.00	sock		3350.54	
ł	08/22/06 08/22/06	3398.32 3398.32		47.81 47.90	47.81 47.90	0.00	new sock	PSH 0 / H2O 10	3350.51 3350.42	-
ŀ	09/12/06	3398.32	58.8	47.79	47.79	0.00	new sock	-	3350.53	
ŀ	09/19/06	3398.32	30.0	47.62	47.62	0.00	Hew sock	Light Sheen	3350.70	
	10/03/06	3398.32	 	47.56	47.56	0.00	sock	PSH Sheen / H2O 10	3350.76	
	10/03/06	3398.32		48.60	48.60	0.00			3349.72	-
	10/17/06	3398.32		47.45	47.45	0.00	sock	PSH Sheen / H2O 5	3350.87	
- 1	10/17/06	3398.32		48.18	48.18	0.00			3350.14	
	10/31/06	3398.32	1	47.53	47.53	0.00	sock	PSH Sheen / H2O 5	3350.79	
	10/31/06	3398.32	<u> </u>	48.40	48.40	0.00			3349.92	
-	11/15/06 12/06/06	3398.32 3398.32		47.55 47.40	47.55 47.40	0.00	a a a a l		3350.77 3350.92	
ł	12/13/06	3398.32	+	47.44	47.44	0.00	sock sock	PSH Sheen / H2O 5	3350.88	
	12/13/06	3398.32		48.52	48.52	0.00	3001	7 3/1 3/1eeli 7 1/20 3	3349.80	
	12/27/06	3398.32	 	47.20	47.20	0.00	sock		3351.12	
RW-3	01/05/06	3369.05	T	47.43	47.43	0.00	sock		3321.62	
i	02/09/06	3369.05		47.16	47.16	0.00	sock		3321.89	
- 1	02/22/06	3369.05		47.15	47.15	0.00	sock		3321.90	
- }	03/28/06	3369.05	Hvy Sheen	47.41 47.44	47.41 47.44	0.00	sock		3321.64	ļ
l	04/13/06 04/25/06	3369.05 3369.05	Sheen	47.44	47.62	0.00	sock sock		3321.61 3321.43	
	5/11/006	3369.05	Sheen	47.61	47.61	0.00	sock		3321.44	
İ	05/24/06	3369.05	Sheen	47.64	47.64	0.00	sock		3321.41	· · · · · · · · · · · · · · · · · · ·
[06/07/06	3369.05	Sheen	47.75	47.75	0.00	sock	0	3321 3	Purged 5 gal
	06/07/06	3369.05	Sheen	47.90	47.90	0.00	sock		3321.15	
- 1	06/15/06 06/29/06	3369.05 3369.05	Sheen	47.69 47.97	47.69 47.97	0.00	sock		3321.36	
1	07/11/06	3369.05	Light Light	47.98	47.98	0.00	sock		3321.08 3321.07	
	07/25/06	3369.05	Light	48.04	48.04	0.00	sock		3321.01	
[08/09/06	3369.05	59.63	48.21	48.21	0.00	sock		3320.84	
	08/22/06	3369.05	Light	48.30	48.30	0.00	new sock	PSH 0 / H2O 10	3320.75	
1	08/22/06	3369.05	50.01	48.27	48.27	0.00			3320.78	ļ
- 1	09/12/06 09/19/06	3369.05 3369.05	59.61	48.12 48.16	48.12 48.16	0.00	sock	DOLL T (1120 10	3320.93 3320.89	ļ
ŀ	09/19/06	3369.05	 	48.60	48.60	0.00	sock	PSH Trace / H2O 10	3320 45	
ſ	10/03/06	3369.05		48.14	48.14	0.00	sock	PSH Sheen / H2O 10	3320.91	
	10/03/06	3369.05		48.75	48.75	0.00			3320.3	
- 1	10/17/06	3369.05		48.02	48.02	0.00	sock	PSH Sheen / H2O 5	3321.03	
	10/17/06	3369.05		48.91 48.12	48.91 48.12	0.00	a colu		3320.14	
	10/31/06 10/31/06	3369.05 3369.05	+	48.12 48.42	48.12	0.00	sock	PSH Sheen / H2O 5	3320.93 3320.63	
ſ	11/15/06	3369.05	 	48.12	48.12	0.00	<u></u>	 	3320.93	
1	12/06/06	3369.05		48.07	48.07	0.00	new sock		3320.98	1
	12/13/06	3369.05		48.11	48.11	0.00	sock	PSH Sheen / H2O 5	3320.94	†
	12/13/06	3369.05		48.19	48.19	0.00			3320.86	
	12/27/006	3369.05		48.00	48.00	0.00	sock		3321.05	

TABLE 2 2006 Groundwater Analytical Results

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

				SW 846	6-8021B				
SAMPLE LOCATION	SAMPLE DATE	SAMPLE I.D.	BENZENE mg/L	TOLUENE mg/L	ETHYL- BENZENE mg/L	Total XYLENES mg/L			
			NMOCD Remediation Criteria						
			0.010	0.750	0.750	0.620			
MW-2	03/28/06	T13037-1	0.243 ^a	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-3	03/28/06	T13037-2	0.501 ^a	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°	0.00110	0.02470	0.00360			
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-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-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-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			

< = Not Detected

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

J = Indicates an estimated value

^{0.243}^a = results from run 2 with a laboratory dilution factor

Appendix C Analytical Reports

1st Quarter 2006 T13037 2nd Quarter 2006 T13863 3rd Quarter 2006 T14672 4th Quarter 2006 T15622









07/12/06



Technical Report for

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Accutest Job Number: T13037

Sampling Date: 03/28/06

Report to:

Premier Environmental Services

cpatel@premiercorp-usa.com

ATTN: Chan Patel

Total number of pages in report: 18





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as appl cable.

Ron Martino Laboratory Manager

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2.4: T13037-4: MW 5	
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Sample Summary

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

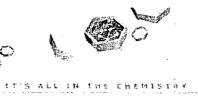
Job No:

T13037

Sample Number	Collected Date		Received	Matr Code		Client Sample ID
T13037-1	03/28/06	15:40 SAD	03/30/06	AQ	Ground Water	MW 2
T13037-2	03/28/06	15:45 SAD	03/30/06	AQ	Ground Water	MW 3
T13037-3	03/28/06	15:30 SAD	03/30/06	AQ	Ground Water	MW 4
T13037-4	03/28/06	16:00 SAD	03/30/06	AQ	Ground Water	MW 5
T13037-5	03/28/06	15:50 SAD	03/30/06	AQ	Ground Water	MW 6
T13037-6	03/28/06	15:55 SAD	03/30/06	AQ	Ground Water	MW 7
T13037-7	03/28/06	00:00 SAD	03/30/06	AQ	Trip Blank Water	TRIP BLANK











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CE 7 PS 8

Sample Results	
Report of Analysis	
report of Analysis	

Page 1 of 1

Client Sample ID: MW 2

Lab Sample ID:

T13037-1

Date Sampled: 03/28/06

Matrix:

AQ - Ground Water

Date Received:

03/30/06

Method:

SW846 8021B

Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

File ID DF Analytical Batch Analyzed By Prep Date Prep Batch

Run #1 KK12102.D 04/05/06 JH **GKK773** 1 n/a n/a KK12122.D 04/05/06 **GKK773** Run #2 5 JH n/a n/a

Purge Volume

Run #1

5.0 ml

Run #2 5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	243 ^a 7.5 45.7 93.9	5.0 1.0 1.0 2.0	1.9 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	iits	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	99% 102%	97% _. 78%		36% 44%	

(a) Result is from Run# 2

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

GKK773

Client Sample ID: MW 3

Lab Sample ID:

T13037-2

AQ - Ground Water

10

Date Sampled:

03/28/06 03/30/06

n/a

Matrix: Method:

SW846 8021B

Date Received: (

Percent Solids: n/a

Project:

Run #2

Vacuum to Jal Mainline #3/205068/2003-00117

04/05/06

	File ID	DF	Analyzed	Ву		Prep Date	Prep Batch	Analytical Batch
Run #1	KK12092.D	1	04/05/06	JH	;	n/a	n/a	GKK773

n/a

JΗ

Purge Volume
Run #1 5.0 ml
Run #2 5.0 ml

KK12123.D

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	501 ^a 75.8 51.8 62.7	10 1.0 1.0 2.0	3.8 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	8		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	100% 103%	92% 80%	56-136% 50-144%		

(a) Result is from Run# 2

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH.

Page 1 of 1

Client Sample ID: MW 4 Lab Sample ID:

T13037-3

Date Sampled: 03/28/06

Matrix:

AQ - Ground Water SW846 8021B

DF

Date Received: 03/30/06

Prep Date

Method:

Vacuum to Jal Mainline #3/205068/2003-00117

Percent Solids: n/a

Project:

Analyzed

04/05/06

Prep Batch

n/a

Analytical Batch GKK773

Run #1 Run #2

Purge Volume

KK12091.D

Run #1

5.0 ml

File ID

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.38	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.72	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run#	2 Lim	nits	
460-00-4	4-Bromofluorobenzene	82%	56-136%			
98-08-8	aaa-Trifluorotoluene	75%	50-144%			

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Ву

JΗ

Page 1 of 1

Client Sample ID: MW 5

Lab Sample ID:

T13037-4

Date Sampled: 03/28/06

Matrix:

AQ - Ground Water SW846 8021B

DF

1

Date Received:

Prep Date

n/a

03/30/06

Method:

Percent Solids: n/a

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

04/05/06

Prep Batch

Analytical Batch GKK773

Run #1 Run #2

Purge Volume

KK12090.D

Run #1 Run #2 5.0 ml

File ID

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.38	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.72	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# :	? Limits		
460-00-4	4-Bromofluorobenzene	86%	56-136%			
98-08-8	aaa-Trifluorotoluene	80%	50-144%			



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

Page 1 of 1

Client Sample ID: MW 6

Lab Sample ID:

T13037-5

AQ - Ground Water

Date Sampled: Date Received:

03/28/06 03/30/06

Matrix: Method:

SW846 8021B

Percent Solids: n/a

Vacuum to Jal Mainline #3/205068/2003-00117 Project:

DF

1

Prep Date

n/a

Prep Batch

n/a

Q

Analytical Batch **GKK773**

Run #1 Run #2

Purge Volume

Run #1

Run #2

Purgeable Aromatics

5.0 ml

File ID

KK12089.D

CAS No.	Compound	Result	RL .	MDL	Units
71-43-2 108-88-3 100-41-4	Benzene Toluene Ethylbenzene	ND ND ND	1.0 1.0 1.0	0.38 0.36 0.35	ug/l ug/l ug/l
1330-20-7	Xylenes (total)	ND	2.0	0.72	ug/l
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limit	ts

Analyzed

04/05/06

460-00-4 4-Bromofluorobenzene 83% 56-136% aaa-Trifluorotoluene 76% 98-08-8 50-144%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW 7

Lab Sample ID:

T13037-6

Date Sampled:

03/28/06

Matrix:

AQ - Ground Water

Date Received:

Method:

SW846 8021B

DF

1

Percent Solids:

03/30/06 n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

ent sonus.

Run #1

File ID KK12088.D Analyzed 04/05/06 By : JH Prep Date n/a

Prep Batch n/a Analytical Batch GKK773

Run #2

Purge Volume

Run #1

5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run#	l Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	82% 83%			36% 44%	

ND = Not detected

RL = Reporting Limit E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

Page 1 of 1

Client Sample ID: TRIP BLANK

Lab Sample ID:

T13037-7

Matrix: Method: AQ - Trip Blank Water

Date Sampled:

03/28/06 03/30/06

SW846 8021B

DF

1

Date Received:

Prep Date

Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

04/05/06

Prep Batch n/a

Analytical Batch **GKK773**

Run #1 Run #2

Purge Volume

KK12087.D

File ID

Run #1 Run #2 5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.38	ug/l	
108-88-3	Toluene	ND	1.0	0.36	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.35	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.72	ug/l	
CAS No	Currogata Pacayarias	Dun# 1	Dun# 2	Lim	ite	

CAS No.	Surrogate Recoveries	Kuii# 1	Kuii# Z	Limits
460-00-4	4-Bromofluorobenzene	82%		56-136%
98-08-8	aaa-Trifluorotoluene	77%		50-144%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank









Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody

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		CHA	AIN C)F (CUS	OT	DY	[
10165 Harwin, Suite 150 - H	Iouston, TX 77	⁷ 036 - 713-271	4700 fax:	: 713-2	71-477	0	FEDEX 83 Accurs	Tracking #	09/	1030	4	Order Cons		Page _1_ of _1
Client / Reporting Information	L	Pr	oject Information							Requ	ested A	nalyses		Matrix Codes
Company Name		Project Name / No.							T					DW - Drinking Wate
Premier Environmental Services		Vacuum to Jal #3	/205068]]		İ		-			GW - Ground Water
Project Contact	E-Mail	Bill to		Invoice	Attn,] [H					1 1	WW - Wastewater
Will Murley														\$Q - Soil
Address		Address					1 (Į.	- (į į		- 1 - 1	SL - Skelge
30 West Industrial Loop, Suite I											1		- 1 1	OI - Oil LIQ - Other Liquid
30 West Industrial Loop, Suite I	Ζiρ	City		State		Zip	1	1] [
Midland, TX 79701					:]						SIGL - Other Solid
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Samplers's Name SHANE A. DILLER		Client Purchase Order			:		(8021)							
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Sample # Field ID / Point of Collection			Wattix Covere	₹ 1 §	50 × 50 × 50 × 50 × 50 × 50 × 50 × 50 ×	Se constant	ВТЕХ							LAB USE ONLY
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3 min 4		1530			Ш									
4 mw 5		1600		$I\!\!\!\perp\!\!\!\perp$										
5 mwle		1550		\coprod										
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State Forms
EDD Formul
TRRP

Commercial "B"
Reduced Tier 1

Other

Real time analytical data available via Lablink

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESS ON, INCLUDING COURIER DELIVERY

That Time: Reported by 11 - Resource of By. Date Time:

Full Data Package

TIIP BLANK

roved By:/ Date:

10 Day STANDARD

3 Day EMERGENCY

2 Day EMERGENCY 1 Day EMERGENCY

5 Day RUSH

T13037: Chain of Custody Page 1 of 2



CONTINUE TO CONTIN	AITALS: Asservation of explanation): Samples received with nemp. range. Sample received with chain of custody iners. Incomplete to explanation): Sample received with chain of custody iners. Incomplete to explanation): Incomplete to explanation): Incomplete to explanation): Incomplete to explanation): Incomplete to explanation of custody iners. Incomplete to explanation of custody inert. n tempo. range. per containers. chain of custody. 1.23,4,5,6 U. <2, >12, NA 1,2,3,4,5,6 U. <2, >12, NA	
Nationace (Circle "Y" for yes and "N" for no or NA. If "N" is circled, Sample received in undamaged condition. Sample received with proper PH. Sample volume sufficient for analysis. Chain of Custody matches sample IDs and analysis on contains. NA Custody seal received intact and tamper not evident on bottles. NA Custody seal received intact and tamper not evident on bottles. E or FIELD ID BOTTLE # DATE SAMPLED MATRIX V T T T T T T T T T T T T T	Althals: d. see variance for explan Samples received within Sample received with conners. ler. LOUME LOCATION VOLUME VOLUME VAR	1 rang 1 rang
Sample received in undamaged condition. Sample received with proper pH. Sample received with proper pH. Sample received with proper pH. Sample received matches sample IDs and analysis on condains volume sufficient for analysis. Chain of Custody matches sample IDs and analysis on condains volume sufficient intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on bottles SAMPLE or FIELD ID BOTTLE # DATE SAMPLED MATRIX W Chain of Custody matches sample IDs and analysis on condains v(N) NA Custody seal received intact and tamper not evident on bottles SAMPLE or FIELD ID BOTTLE # DATE SAMPLED MATRIX W Chain of Custody matches sample IDs and analysis on condains v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on bottles SAMPLE or FIELD ID BOTTLE # DATE SAMPLED MATRIX W Chain of Custody analysis on condains v(N) NA Custody seal received intact and tamper not evident on bottles SAMPLE or FIELD ID BOTTLE # DATE SAMPLED MATRIX W Chain of Custody seal received intact and tamper not evident on bottles Chain of Custody seal received intact and tamper not evident on bottles Chain of Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact and tamper not evident on cooler v(N) NA Custody seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received intact seal received	d, see variance for explan Samples received within Sample received with c Sample received with c liners. VOLUME LOCATION VOLUME LOCATION VOLUME LOCATION	1.3 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6
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Joseph M		
18 3 septe	,	1,2,3,4,5,6 U, <2, >12, NA
18 3/89/6		1,2,3,4,5,6 U, <2, >12, NA
		1,2,3,4,5,6 U, Q, >12, NA
		1,2,3,4,5,6 U, <2, >12, NA
		1,2,3,4,5,6 U, C, >12, NA
		1,2,3,4,5,6 U, <2, >12, NA
		1,2,3,4,5,6 U, <2, >12, NA
	,	1,2,3,4,5,6 U, <2, >12, NA
LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: Encore Freezer PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other Comments:	Freezer	
ecked excluding volatiles		
ph or soils NA Delivery method: Courier: FE COOLER	COOLER TEMP:	COOLER TEMP:
8518 09107 pt	COOLER TEMP:	COOLER TEMP:

1

T13037: Chain of Custody Page 2 of 2



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GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number: T13037

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample	File ID	DF	Analyzed	Ву	Prep Dat	e Prep Batch	Analytical Batch
GKK773-MB	KK12083.D	1	04/04/06	ЈН		n/a	GKK773
					<u>!</u>		

The QC reported here applies to the following samples:

Method: SW846 8021B

T13037-1, T13037-2, T13037-3, T13037-4, T13037-5, T13037-6, T13037-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.35 0.36 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries		Limits	<u>5</u> .		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	91% 83%	56-136 50-14			



Page 1 of 1

Blank Spike Summary Job Number: T13037

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

<i>J</i>						
Sample	File ID	DF	Analyzed	Ву	;	Prep Date

Prep Batch **Analytical Batch** GKK773-BS KK12084.D 1 04/04/06 JH n/a n/a GKK773

The QC reported here applies to the following samples:

Method: SW846 8021B

T13037-1, T13037-2, T13037-3, T13037-4, T13037-5, T13037-6, T13037-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	21.2	106	72-125
100-41-4	Ethylbenzene	20	21.4	1'07	76-125
108-88-3	Toluene	20	21.0	105	74-125
1330-20-7	Xylenes (total)	60	64.2	107	78-124
CAS No.	Surrogate Recoveries	BSP	Li	mits	
460-00-4	4-Bromofluorobenzene	102%	56	-136%	
98-08-8	aaa-Trifluorotoluene	104%	50	-144%	



Page 1 of 1

Matrix Spike/Matrix Spike Duplicate Summary

Job Number:

T13037

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

The QC reported here applies to the following samples:

Method: SW846 8021B

T13037-1, T13037-2, T13037-3, T13037-4, T13037-5, T13037- $\frac{1}{7}$ 6, T13037-7

CAS No.	Compound	T13037-1 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	243 b 45.7 7.5 93.9	20 20 20 60	288 64.5 27.9 151	225* a 94 102 95	305 68.1 28.2 157	310* a 112 104 105	6 5 1 4	45-137/21 68-126/15 63-130/22 72-125/19
CAS No.	Surrogate Recoveries	MS	MSD	T13	037-1	T13037-	1 Lii	mits	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	112% ; 112%	113% 123%	99% 102		97% 78%		-136% -144%	

⁽a) Outside control limits due to high level in sample relative to spike amount.

(b) Result is from Run #2.











07/12/06



Technical Report for

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Accutest Job Number: T13863

Sampling Date: 06/15/06

Report to:

Premier Environmental Services

cpatel@premiercorp-usa.com

ATTN: Chan Patel

Total number of pages in report: 17





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino Laboratory Manager

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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4 3. Matrix Snike/Matrix Snike Dunlicate Summary		









Sample Summary

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Job No:

T13863

Sample Number	Collected Date	Time By	Received	Matr Code			Client Sample ID
T13863-1	06/15/06	16:45 SD	06/17/06	AQ	Ground	Water	MW 2
T13863-2	06/15/06	16:40 SD	06/17/06	AQ	Ground	Water	MW 3
T13863-3	06/15/06	16:35 SD	06/17/06	AQ	Ground	Water	MW 4
T13863-4	06/15/06	16:55 SD	06/17/06	AQ	Ground	Water	MW 5
T13863-5	06/15/06	16:50 SD	06/17/06	AQ	Ground	Water	MW 6
T13863-6	06/15/06	17:00 SD	06/17/06	AQ	Ground	Water	MW 7
T13863-7	06/15/06	00:00 SD	06/17/06	AQ	Trip Bla	nk Water	TRIP BLANK





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A Party





Sample Results

Report of Analysis

JĤ

n/a

Page 1 of 1

Analytical Batch

GKK836

Client Sample ID: MW 2

Lab Sample ID:

T13863-1

AQ - Ground Water-

5

SW846 8021B

Date Sampled:

06/15/06 Date Received:

Percent Solids: n/a

06/17/06

Prep Batch

n/a

Method: Project:

Matrix:

Vacuum to Jal Mainline #3/205068/2003-00117

06/22/06

File ID DF Analyzed Prep Date Ву

Run #1 Run #2

Purge Volume

KK13814.D

5.0 ml

Run #1

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	333 3.3 19.6 10.4	5.0 5.0 5.0 10	1.9 1.8 1.8 3.6	ug/l ug/l ug/l ug/l	J
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	94% 115%			36% 44%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





Page 1 of 1

Client Sample ID: MW 3

Lab Sample ID:

T13863-2 AQ - Ground Water

Matrix: Method:

SW846 8021B

Date Sampled:

06/15/06 06/17/06

Date Received: Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

File ID Analyzed

DF KK13815.D 5

By 06/22/06 JΗ Prep Date n/a

Prep Batch n/a

Analytical Batch **GKK836**

Run #1 Run #2

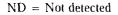
Purge Volume

5.0 ml

Run #1 Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL !	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	432 ND 60.3 45.3	5.0 5.0 5.0 10		ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits		its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	93% 106%		56-1 50-1	36% 44%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

. JH

Page 1 of 1

Client Sample ID: MW 4

Lab Sample ID: Matrix:

T13863-3

AQ - Ground Water

DF

1

Date Sampled: Date Received:

06/15/06 06/17/06

Method:

SW846 8021B

Percent Solids: n/a

Prep Date

50-144%

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

06/22/06

Prep Batch n/a

Analytical Batch **GKK836**

Run #1 Run #2

Purge Volume

aaa-Trifluorotoluene

Run #1

5.0 ml

File ID

KK13788.D

Run #2

98-08-8

Purgeable Aromatics

CAS No.	Compound	Result	RL .	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4	4-Bromofluorobenzene	95%		56-1	36%	

93%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Ву

JH

Page 1 of 1

Client	Sample ID:	MW 5

Lab Sample ID: Matrix:

T13863-4

DF

1

AQ - Ground Water SW846 8021B

Date Sampled: 06/15/06 Date Received:

06/17/06 Percent Solids: n/a

Method: Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

06/22/06

 Prep Date	Prep Batch	Analytical Batch
n/a	n/a	GKK836

Run #1 Run #2

	Purge Volume
Run #1	5.0 ml

File ID

KK13789.D

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	95% 91%			36% 144%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit.

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

Page 1 of 1

GKK836

Client Sample ID: MW 6

Lab Sample ID:

T13863-5

Matrix:

AQ - Ground Water

DF

1

SW846 8021B

Date Sampled: 06/15/06

Date Received: 06/17/06

n/a

Percent Solids: n/a

Method: Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

06/22/06

Analytical Batch Prep Date Prep Batch

n/a

Run #1 Run #2

Purge Volume

Run #1 Run #2

5.0 ml

File ID

KK13790.D

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.36 0.35 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits		its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	96% 93%	·		36% 44%	

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW 7

Lab Sample ID:

T13863-6

Date Sampled:

06/15/06

Matrix: Method: AQ - Ground Water SW846 8021B

1

Date Received: Percent Solids:

06/17/06

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Run #1

File ID KK13797.D DF Analyzed 06/22/06

By JΗ n/a

Prep Date

Prep Batch n/a

Analytical Batch GKK836

Run #2

Purge Volume

Run #1

5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 0.38 1.0 0.36 1.0 0.35 2.0 0.72	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Lim	nits	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	97% 101%		136% 144%	

 \cdot ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank





P. C. C.









Misc.	Forms
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Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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T13863: Chain of Custody

Page 1 of 2

3. N Sample rece 3. N Sample rece 5. N Sample volu 7. N Chain of Cu 8. N NA Custody	Sample received in undamaged condition. Sample received with proper pH. Sample volume sufficient for analysis. Chain of Custody matches sample IDs an Apcustody seal received intact and tample ID. Institute of sample IDs.	Sample received in undamaged condition. Sample received with proper pH. Sample volume sufficient for analysis. Chain of Custody matches sample IDs and analysis on containers. ACCUSTODY Seal received intent and tamper not evident on cooleir.	6. CN 6. CN 8. CN 8 subsist on contain evident on cool	N Samples N Sample N Sample Itainers.	Samples received within temp, range. Sample received in proper containers. Sample received with chain of custody, srs.	in temp. ran oper contain chain of cus	nge. iers. itody.
SAMPLE OF F	BOTTLE #	DATE SAMPLED	MATRIX	AOLUME	LOCATION	PRESERV.	¥
	1-3	W-15-06	40	40mT	Vref	(2)3,4,5,6	U, <2, >12 (NA
~		_			1	128,4,5,6	U, <2, >12, NA
3						1(2)3,4,5,6	U, <2, >12, NA
7						£23,4,5,6	U, <2, >12(NA
70					 	(2)3,4,5,6	U, <2, >12, NA
د.	-1					(23,4,5,6	U, <2, >12, (NA)
<u></u>	4-			1	1	(2)3,4,5,6	U, <2, >12 (NA
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						1,2,3,4,5,6	U, <2, >12, NA
		-	9101.		A CALLED MARK OF A SECOND STATE OF THE SECOND	1,2,3,4,5,6	U, <2, >12, NA
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						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	4,2,3,4,5,6 U, <2, >12, NA
LOCATION: WI: Walk-in VR: Volatile F PRESERVATIVES: 1: None 2: HCL 3: 1 PHOL Walter Chapted excluding volatiles	VR: Volatile Refrig. ne 2: HCL 3: HNO3 luding volatiles	SUB: Subcontra 4: H2SO4 5: NAO	ct EF: Encore Freezer H 6: Other Comments:	Freezer			
ph of soils NA Delivery method: Courier: Fed &4 Tracking#: 8575 6/93 2054	ion: Fed 64	3 00.54		COOLER TEMP:	70.4	COOLER TEMP:	i i i
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6-17-02

DATE/TIME RECEIVED: __

SAMPLE RECEIPT LOG

T13863: Chain of Custody

Page 2 of 2









GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Page 1 of 1

Method Blank Summary Job Number: T13863

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample GKK836-MB	File ID KK13783.D	DF 1	Analyzed 06/22/06	By JH	:	Prep Date n/a	Prep Batch n/a	Analytical Batch GKK836
	v							

The QC reported here applies to the following samples:

Method: SW846 8021B

T13863-1, T13863-2, T13863-3, T13863-4, T13863-5, T13863-6

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.38 0.35 0.36 0.72	ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limi	ts	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	94% 97%	56-13 50-14		



Page 1 of 1

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK836-BS	KK13784.D	1	06/22/06	JH	n/a	n/a	GKK836
l					,		

The QC reported here applies to the following samples:

Method: SW846 8021B

T13863-1, T13863-2, T13863-3, T13863-4, T13863-5, T13863-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	20 20 20 60	20.9 20.0 20.3 61.1	105 100 102 102	72-125 76-125 74-125 78-124
CAS No.	Surrogate Recoveries	BSP	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	96% 93%	56-1 50-1		



Matrix Spike/Matrix Spike Duplicate Summary

Page 1 of 1

Job Number:

T13863

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample File ID DF Analyzed By Prep Date Prep Batch Analyted T13863-5MS KK13791.D 1 06/22/06 JH n/a n/a GKK83 T13863-5MSD KK13792.D 1 06/22/06 JH n/a n/a GKK83 T13863-5 KK13790.D 1 06/22/06 JH n/a n/a GKK83

The QC reported here applies to the following samples:

Method: SW846 8021B

T13863-1, T13863-2, T13863-3, T13863-4, T13863-5, T13863-6

CAS No.	Compound	T13863-5 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND	20 20 20 60	21.2 20.9 21.6 64.1	106 105 108 107	21.8 21.3 22.0 64.4	109 107 110 107	3 2 2 0	45-137/21 68-126/15 63-130/22 72-125/19
CAS No.	Surrogate Recoveries	MS	MSD	T13	3863-5	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	97% 97%	96% 93%	96% 93%		56-1369 50-1449	-		



.3





09/18/06



Technical Report for

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Accutest Job Number: T14672

Sampling Date: 09/12/06

Report to:

Premier Environmental Services

cpatel@premiercorp-usa.com

ATTN: Mr. Chan Patel

Total number of pages in report: 20





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino Laboratory Manager

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories.

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2.2: T14672-2: MW-3	6
2.3: T14672-3: MW-4	7
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4.3: Matrix Spike/Matrix Spike Duplicate Summary	











Sample Summary

Premier Environmental Services

Job No:

T14672

Vacuum to Jal Mainline #3/205068/2003-00117

Sample Number	Collected Date	Time By	Received	Matr Code		Client Sample ID
T14672-1	09/12/06	13:40 RGJ	09/14/06	AQ	Ground Water	MW-2
T14672-2	09/12/06	14:00 RGJ	09/14/06	AQ	Ground Water	MW-3
T14672-3	09/12/06	13:45 RGJ	09/14/06	AQ	Ground Water	MW-4
T14672-4	09/12/06	13:30 RGJ	09/14/06	AQ	Ground Water	:MW-5
T14672-5	09/12/06	13:50 RGJ	09/14/06	AQ	Ground Water	MW-6
T14672-6	09/12/06	14:05 RGJ	09/14/06	AQ	Ground Water	MW-7







Sample Results	 · ·	
Report of Analysis		



Ву

JΗ

Client Sample ID:

MW-2

Lab Sample ID:

T14672-1

AQ - Ground Water

DF

1

Date Sampled: Date Received:

09/12/06 09/14/06

Matrix: Method:

SW846 8021B

Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Prep Date

n/a

Analyzed

09/16/06

Prep Batch Analytical Batch **GKK896** n/a

Run #1 Run #2

Purge Volume

KK15260.D

File ID

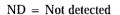
5.0 ml

Run #1

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	178	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	17.8	1.0	0.33	ug/l	
1330-20-7	Xylenes (total)	9.4	2.0	0.36	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim		
460-00-4	4-Bromofluorobenzene	123%	56-136%			
98-08-8	aaa-Trifluorotoluene	121%	50-144%			



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Accutest Laboratories

Report of Analysis

Ву

JΗ

Page 1 of 1

Client Sample ID: MW-3

Lab Sample ID:

T14672-2

Date Sampled:

09/12/06

GKK895

Matrix: Method: AQ - Ground Water SW846 8021B

DF

1

Percent Solids: n/a

Date Received: 09/14/06

n/a

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

09/15/06

Prep Date Prep Batch Analytical Batch

Run #1 Run #2

Purge Volume

File ID

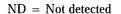
KK15224.D

5.0 ml Run #1

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	ŘL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	61.2 ND 4.9 ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits		its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	117% 56-136 124% 50-144				



MDL - Method Detection Limit

RL' = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JΗ

Client Sample ID: MW-4

Lab Sample ID:

T14672-3

AQ - Ground Water

Date Sampled: Date Received:

09/12/06

Matrix: Method:

SW846 8021B

09/14/06

DF

1

Percent Solids: n/a

Prep Date

n/a

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

09/15/06

Prep Batch

Analytical Batch **GKK895**

Run #1 Run #2

Purge Volume

File ID

KK15233.D

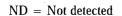
Run #1

Run #2

 $5.0 \, ml$

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	1.0	0.35	ug/l	
108-88-3	Toluene	ND	1.0	0.20	ug/l	
100-41-4	Ethylbenzene	ND	1.0	0.33	ug/l	
1330-20-7	Xylenes (total)	ND	2.0	0.36	ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits			
460-00-4	4-Bromofluorobenzene	116%	56-136%			
98-08-8	aaa-Trifluorotoluene	117%	50-144%			



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JH

Page 1 of 1

Client Sample ID: MW-5

Lab Sample ID:

T14672-4

AQ - Ground Water

Date Sampled: Date Received:

09/12/06

Matrix: Method:

SW846 8021B

DF

1

Percent Solids:

09/14/06 n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

09/15/06

JU111

n/a

Prep Date

Prep Batch n/a

Analytical Batch GKK895

Run #1 Run #2

Purge Volume

File ID

KK15232.D

Run #1

Run #2

5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q	
71-43-2	Benzene	ND	1.0	0.35	ug/l		
108-88-3	Toluene	ND	1.0	0.20	ug/l		
100-41-4	Ethylbenzene	ND	1.0	0.33	ug/l		
1330-20-7	Xylenes (total)	ND	2.0	0.36	ug/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2 Limits				
460-00-4	4-Bromofluorobenzene	117%		56-136%			
98-08-8	aaa-Trifluorotoluene	119%		50-144%			



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



By

JΗ

Client Sample ID: MW-6

Lab Sample ID:

T14672-5

AQ - Ground Water

Date Sampled: 09/12/06 Date Received: 09/14/06

Matrix: Method:

SW846 8021B

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

09/15/06

Percent Solids: n/a

Prep Date

n/a

File ID DF Analyzed

1

Prep Batch n/a

Analytical Batch **GKK895**

Run #1 Run #2

Purge Volume

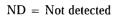
KK15231.D

5.0 ml Run #1

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Run# 2 Limits		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	116% 121%				



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank N = Indicates presumptive evidence of a compound



JH

Client Sample ID: MW-7

Lab Sample ID:

T14672-6

AQ - Ground Water

DF

1

Date Sampled:
Date Received:

09/12/06 09/14/06

Matrix: Method:

SW846 8021B

Percent Solids: n/a

Prep Date

n/a

7/0

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

09/15/06

Prep Batch Analytical Batch n/a GKK895

Run #1 Run #2

Purge Volume

File ID

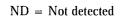
KK15230.D

Run #1 5.0 ml

Run #2

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	118% 121%			36% 44%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank









Misc. 1	Forms		

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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T14672: Chain of Custody Page 1 of 2



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see variance for explanation); Samples received within temp. range. Sample received in proper containers. Sample received with chain of custody. rs.	LOCATION	NPEF	-+																	30
incied, see varia N. Sample N. Sample N. Sample ontainers. cooler.	VOLUME	40ml		VΛ														re Freezer		COOLER TEMP:
2. If "N" is circ 4.00 alysis on con evident on co	MATRIX	AQ	+	/	7-1-4	-												act EF: Encore Freezer OH 6: Other	Comments:	
Natiance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see Sample received in undermaged condition. Sample received with proper pH. Sample received with proper pH. Sample volume sufficient for analysis. Chain of Custody matches sample IDs and analysis on containers. Samples Headspace acceptable NA—Custody seal received intact and tamper not evident on cooler. AAA Custody seal received intact and tamper not evident on bottles.	DATE SAMPLED	61/19	H A		010						X							. SUB: Subcontract 3 4: H2SO4 5; NAOH		•
Variance (Circle "Y" for yes and "N" for no Sample received in undamaged condition. Sample received with proper pH. Sample volume sufficient for analysis. Chain of Custody matches sample IDs ar Samples Headspace acceptable Acustody seal received intact and tamps MA/Custody seal received intact and tamps (AA/Custody seal received intact and tamps (AA/Custody seal received intact and tamps).	BOTTLE #	1-3	R-1															VR: Volatile Refrig.	ding volatiles	77
Condition/variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation): 1	AMPLE	Ø] -1	t															LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: En PRESERVATIVES: 1: None 2: HGL 3: HN03 4: H2SO4 5: NAOH 6: Other	pH of waters checked excluding volatiles oH of soils N/A	Delivery method: Courier:

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SAMPLE RECEIPT LOG

T14672: Chain of Custody Page 2 of 2







GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries



Method Blank Summary

Job Number:

T14672

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sa	mple
CI	KK895-MB

File ID DF KK15215.D 1

Analyzed 09/15/06

Ву Prep Date JН n/a

Prep Batch

Analytical Batch

GKK895 n/a

The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-2, T14672-3, T14672-4, T14672-5, T14672-6

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 100-41-4 108-88-3 1330-20-7	0-41-4 Ethylbenzene 8-88-3 Toluene		1.0 1.0 1.0 2.0	0.35 0.33 0.20 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries		Limi	ts		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	117% 125%	56-13 50-14			



Method Blank Summary

Job Number: T14672

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample GKK896-MB File ID KK15246.D 1

DF

Analyzed 09/15/06

Ву JH Prep Date n/a

Prep Batch

Analytical Batch

GKK896 n/a

The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-1

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)		1.0 1.0 1.0 2.0	0.35 0.33 0.20 0.36	ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limits		
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	118% 119%	56-136 50-144		



Blank Spike Summary

Job Number: T14672

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

П	Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
	GKK895-BS	KK15216.D	1	09/15/06	JH	n/a	n/a	GKK895
								,

The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-2, T14672-3, T14672-4, T14672-5, T14672-6

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	20	20.1	101	72-125
100-41-4	Ethylbenzene	20	19.9	100	76-125
108-88-3	Toluene	20	19.5	98	74-125
1330-20-7	Xylenes (total)	60	59.3	99	78-124
CAS No.	Surrogate Recoveries	BSP	Lim	its	
460-00-4	4-Bromofluorobenzene	119%	56-1	36%	•
98-08-8	aaa-Trifluorotoluene	129%	50-1	44%	



Analytical Batch

Account:

Project:

PESTXST Premier Environmental Services Vacuum to Jal Mainline #3/205068/2003-00117

Sample File ID DF Analyzed Ву

Prep Date Prep Batch JH GKK896-BS KK15247.D 1 09/15/06 n/a

GKK896 n/a

The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-1

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2 100-41-4 108-88-3 1330-20-7	00-41-4 Ethylbenzene 08-88-3 Toluene		18.9 18.3 18.8 55.1	95 92 94 92	72-125 76-125 74-125 78-124
CAS No.	Surrogate Recoveries	BSP	Liı	mits	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	119% 124%		-136% -144%	



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T14672

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-2, T14672-3, T14672-4, T14672-5, T14672-6

CAS No.	Compound	T14676-3 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	2.3 ND ND ND	20 20 20 60	22.6 20.5 21.0 61.2	102 103 105 102	23.5 20.5 21.8 61.8	106 103 109 103	4 0 4 1	45-137/21 68-126/15 63-130/22 72-125/19
CAS No.	Surrogate Recoveries	MS	MSD	T14	676-3	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	115% 133%	115% 134%	116 125		56-136% 50-144%	_		



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T14672

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample File ID DF T14674-7MS KK15258.D 1 T14674-7MSD KK15259.D 1 T14674-7 KK15257.D 1	Analyzed By 09/16/06 JH 09/16/06 JH 09/16/06 JH	Prep Date Prep Batch n/a n/a n/a n/a n/a n/a	Analytical Batch GKK896 GKK896 GKK896
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The QC reported here applies to the following samples:

Method: SW846 8021B

T14672-1

CAS No.	Compound	T14674-7 ug/l Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND	20 20 20 60	21.3 20.7 20.8 61.2	107 104 104 102	20.9 20.2 20.2 59.7	105 101 101 100	2 2 3 2	45-137/21 68-126/15 63-130/22 72-125/19
CAS No.	Surrogate Recoveries	MS	MSD	T14	674-7	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	118% 123%	116% 117%	116° 117°		56-136% 50-144%	-		











12/18/06



Technical Report for

Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Accutest Job Number: T15622

Sampling Date: 12/06/06

Report to:

Premier Environmental Services

cpatel@premiercorp-usa.com

ATTN: Chan Patel

Total number of pages in report: 21





Test results contained within this data package meet the requirements of the National Environmental Laboratory Accreditation Conference and/or state specific certification programs as applicable.

Ron Martino Laboratory Manager

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4.3: Matrix Spike/Matrix Spike Duplicate Summary	







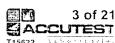
Premier Environmental Services

Vacuum to Jal Mainline #3/205068/2003-00117

Job No:

T15622

Sample Number	Collected Date Time By	Matrix Received Code T	ype	Client Sample ID
T15622-1	12/06/06 17:10 SAD	12/08/06 AQ G	round Water	MW2
T15622-2	12/06/06 17:15 SAD	12/08/06 AQ G	round Water	MW3
T15622-3	12/06/06 17:05 SAD	12/08/06 AQ G	round Water	MW4
T15622-4	12/06/06 17:25 SAD	12/08/06 AQ G	round Water	MW5
T15622-5	12/06/06 17:45 SAD	12/08/06 AQ G	round Water	MW6
T15622-6	12/06/06 17:20 SAD	12/08/06 AQ G	round Water	MW7
T15622-7	12/06/06 00:00 SAD	12/08/06 AQ T	rip Blank Water	TRIP BLANK









Sample Results	



Page 1 of 1

Client Sample ID: MW2

Lab Sample ID:

T15622-1

Date Sampled: 12/06/06

Matrix: Method: AQ - Ground Water SW846 8021B

Date Received: 12/08/06 Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	KK017055.D	1	12/14/06	JH	n/a	n/a	GKK971
Run #2	KK017088.D	5	12/15/06	JH	: n/a	n/a	GKK973

ļ		Purge Volume	
	Run #1	5.0 ml	•
	Run #2	5.0 ml	
ı			

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	214 ^a ND 18.5 8.0	5.0 1.0 1.0 2.0	1.8 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limi	ts	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	102% 108%	92% 108%	56-13 50-1		•

(a) Result is from Run# 2

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client Sample ID: MW3

Lab Sample ID: T15622-2

Matrix:

AO - Ground Water

Date Sampled:

12/06/06

Method:

SW846 8021B

Percent Solids: n/a

Date Received: 12/08/06

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

File ID Analytical Batch DF Analyzed Ву Prep Date Prep Batch Run #1 KK017056.D 1 12/14/06 JH n/a n/a **GKK971** KK017089.D **GKK973** Run #2 5 12/15/06 IH n/a n/a

Purge Volume

Run #1 5.0 ml Run #2 5.0 ml

Purgeable Aromatics

CAS No. Compound Result RL MDL Units Q

71-43-2 Benzene 190 a 5.0 1.8 ug/l 108-88-3 Toluene 1.1 1.0 0.20 ug/l 100-41-4 Ethylbenzene 24.7 0.33 ug/l 1.0 1330-20-7 Xylenes (total) 3.6 2.0 0.36 ug/l

CAS No. Run# 1 Run# 2 Surrogate Recoveries Limits

460-00-4 4-Bromofluorobenzene 99% 95% 56-136% 98-08-8 aaa-Trifluorotoluene 106% 106% 50-144%

MDL - Method Detection Limit

(a) Result is from Run# 2

ND = Not detected

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Accutest Laboratories

Report of Analysis

Ву

JΗ

Page 1 of 1

Client Sample ID: MW4

Lab Sample ID:

T15622-3

AQ - Ground Water

DF

1

Date Sampled: 12/06/06

Matrix: Method:

SW846 8021B

Date Received: 12/08/06 Percent Solids: n/a

Prep Date

n/a

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

12/14/06

Prep Batch Analytical Batch GKK971

Run #1 Run #2

Purge Volume

KK017057.D

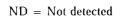
Run #1 Run #2

5.0 ml

File ID

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	96% 108%			.36% .44%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

Client	Sample	ID:	MW5

Lab Sample ID: T15622-4

Matrix: Method: AQ - Ground Water SW846 8021B

Date Sampled: 12/06/06

50-144%

Date Received: 12/08/06

Percent Solids:

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

	File ID	DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
Run #1	KK017058.D	1	12/14/06	JΗ	n/a	n/a	GKK971

Run #2

Purge Volume

aaa-Trifluorotoluene

Run #1 5.0 ml

Run #2

98-08-8

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4	4-Bromofluorobenzene	101%		56-1	136%	

99%

ND = Not detected

MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Accutest Laboratories

Report of Analysis

Ву

JΗ

Client Sample ID: MW6

Lab Sample ID:

T15622-5

AQ - Ground Water

DF

SW846 8021B

Date Sampled:

12/06/06

Date Received:

Prep Date

12/08/06 Percent Solids: n/a

Method: Project:

Matrix:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

12/14/06

Prep Batch

Analytical Batch **GKK971**

n/a n/a

Run #1 Run #2

Purge Volume

KK017059.D

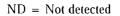
Run #1 Run #2

5.0 ml

File ID

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its ,	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	101% 99%			.36% .44%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Page 1 of 1

MW7 Client Sample ID:

Lab Sample ID:

T15622-6

AQ - Ground Water

DF

1

Date Sampled: 12/06/06

Matrix: Method:

SW846 8021B

Date Received: 12/08/06 Percent Solids: n/a

Prep Date

n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

12/14/06

Ву

JΗ

Prep Batch n/a

Analytical Batch **GKK971**

Run #1 Run #2

Purge Volume

KK017060.D

File ID

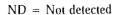
Run #1

Run #2

5.0 ml

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	98% 102%			136% 144%	



MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

J = Indicates an estimated value

B = Indicates analyte found in associated method blank



Ву

JΗ

Page 1 of 1

Client Sample ID: TRIP BLANK

File ID

5.0 ml

Lab Sample ID:

T15622-7

Matrix: Method: AQ - Trip Blank Water

DF

1

SW846 8021B

Date Sampled:

12/06/06 Date Received: 12/08/06

Percent Solids: n/a

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Analyzed

12/14/06

n/a

Prep Date

50-144%

Prep Batch

n/a

Analytical Batch **GKK971**

Run #1 Run #2

Purge Volume

aaa-Trifluorotoluene

KK017053.D

Run #1

Run #2

98-08-8

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.20 0.33 0.36	ug/l ug/l ug/l ug/l	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Lim	its	
460-00-4	4-Bromofluorobenzene	98%		56-1	36%	

109%

ND = Not detectedRL = Reporting Limit

E = Indicates value exceeds calibration range

MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank











Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody



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18.8

Transfer of

The state of the

T15622: Chain of Custody

Page 1 of 2

Z ACCUTEST.	TEST.	SAMPLI	SAMPLE RECEIPT LOG	507			
EE7517 #800	24	DATE/TIME RECEIVED: $ \partial f \langle g \langle g G G G G G G G G G $	INED: (194)	100/19.	49		
	Premier		1	INITIALS:	Jan 19		
l≦ 2α	Variance (Circle "V" for yes and "N" for no Sample received in undamaged condition. Sample received with proper pH. Sample volume sufficient for analysis.	nd "N" for no or N/ ged condition. pH. analysis.	A. If "N" is circ	Sircled, see varied No. Sample No	see variance for explanation): Samples received within temp. range. Sample received in proper containers. Sample received with chain of custody	ination): thin temp. ra roper contair	nge. ners. stody.
7. CAN Chain of Cu 8. ON Samples H 9. ON NA Custody 10. Y N (NA) Custody	Chain of Custody matches samp Samples Headspace acceptable A. Custody seal received intact NA) Custody seal received intact	Chain of Custody matches sample IDs and analysis on cohlainers. Samples Headspace acceptable NA Custody seal received intact and tamper not evident on cooler. (NA) Custody seal received intact and tamper not evident on bottles.	ralysis on con t evident on co ot evident on t	tainers. ioler. iottles.			
SAMPLE or FIELD ID	BOTTLE#	DATE SAMPLED	MATRIX	VOLUME	LOCATION	PRESERV.	PH
7-1	(-3	4/61	Ara	Hons	VREF	1,2,3,4,5,6	U, <2, >12(NA)
4	4-1	A N	7	-	-	1,2,3,4,5,6	U, <2, >12(N)
			8			1,2,3,4,5,6	U, <2, >12, NA
		-	12. J. D.			1,2,3,4,5,6	U, <2, >12, NA
		MA	, <i>0</i>			1,2,3,4,5,6	U, <2, >12, NA
		3				1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
		X				1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
					,	1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,6	U, <2, >12, NA
						1,2,3,4,5,8	U, <2, >12, NA
LOCATION: WI: Walk-In VR: Volatile Refrig. SUB: Subcontract EF: En-PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: Other Comments:	n VR: Volatile Refrig.	ig. SUB: Subcontract 33 4: H2SO4 5: NAOH Co	act EF: Encore Freezer OH 6: Other Comments:	Freezer			
pH of waters checked excluding volatiles pH of soils N/A	cluding votatiles						
Delivery method: Courier:	inier:	<i> </i> 4%		COOLER TEMP:	,0	COOLER TEMP:	ig.
				COOLER LENG		Form: SM012, Rev.07/28/06, QAO	R/06, QAO

T15622: Chain of Custody Page 2 of 2







Section 4

7

GC Volatiles

QC Data Summaries

Includes the following where applicable:

- Method Blank Summaries
- Blank Spike Summaries
- Matrix Spike and Duplicate Summaries

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
GKK971-MB	KK017039	.D 1	12/14/06	JH	n/a	n/a	GKK971

The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2, T15622-3, T15622-4, T15622-5, T15622-6, T15622-7

CAS No.	Compound	Result	RL	MDL	Units Q
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	ND ND ND ND	1.0 1.0 1.0 2.0	0.35 0.33 0.20 0.36	ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limi	ts.	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	93% 98%	56-13 50-14		



Job Number:

T15622

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample GKK973-MB File ID KK017086.D1

DF

Analyzed 12/15/06

Ву JΗ Prep Date

n/a

Prep Batch

Analytical Batch

GKK973

n/a

The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2

CAS No.

Compound

Result

RL

MDL Units Q

71-43-2

Benzene

ND

1.0

0.35

ug/l

CAS No.

Surrogate Recoveries

Limits

460-00-4 98-08-8

4-Bromofluorobenzene aaa-Trifluorotoluene

90% 95% 56-136% 50-144%



Blank Spike Summary

Job Number:

T15622

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample GKK971-BS	File ID D KK017040.D1	OF Analy 12/14/	-		Prep Date n/a	Prep Batch n/a	Analytical Batch GKK971
				i :			
				i			

The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2, T15622-3, T15622-4, T15622-5, T15622-6, T15622-7

Compound	Spike ug/l	BSP ug/l	BSP	Limits
Benzene	20	19.2	96	72-125
Ethylbenzene	20	19.4	97	76-125
Toluene	20	19.1	66	74-125
Xylenes (total)	60	57.1	95	78-124
Surrogate Recoveries	BSP	Li	mits	
4-Bromofluorobenzene	94% 104%			
	Benzene Ethylbenzene Toluene Xylenes (total) Surrogate Recoveries	Compound ug/l Benzene 20 Ethylbenzene 20 Toluene 20 Xylenes (total) 60 Surrogate Recoveries BSP 4-Bromofluorobenzene 94%	Compound ug/l ug/l Benzene 20 19.2 Ethylbenzene 20 19.4 Toluene 20 19.1 Xylenes (total) 60 57.1 Surrogate Recoveries BSP Li 4-Bromofluorobenzene 94% 56	Compound ug/l ug/l % Benzene 20 19.2 96 Ethylbenzene 20 19.4 97 Toluene 20 19.1 96 Xylenes (total) 60 57.1 95 Surrogate Recoveries BSP Limits 4-Bromofluorobenzene 94% 56-136%



Blank Spike Summary Job Number: T15622

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample GKK973-BS	File ID KK017087.	DF D 1	Analyzed 12/15/06	By JH	ı	Prep Date n/a	Prep Batch n/a	Analytical Batch GKK973
					•			

The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2

		Spike	BSP	BSP	
CAS No.	Compound	ug/l	ug/l	0%	Limits
71-43-2	Benzene	20	18.4	92	72-125
CAS No.	Surrogate Recoveries	BSP	Li	mits	
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	93% 96%		-136% -144%'	



Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T15622

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

Sample T15618-9MS T15618-9MSD T15618-9	File ID KK017047.D KK017048.D KK017046.D	1	Analyzed 12/14/06 12/14/06 12/14/06	By JH JH JH	Prep C n/a n/a n/a	Prep Ba n/a n/a n/a	Analytical Batch GKK971 GKK971 GKK971
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The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2, T15622-3, T15622-4, T15622-5, T15622-6, T15622-7

CAS No.	Compound	T15618- ug/I	9 Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylenes (total)	3.5 0.43 0.95 ND	J	20 20 20 60	26.0 21.1 22.2 60.6	113 103 106 101	26.5 22.4 23.0 64.8	115 110 110 108	2 6 4 7	45-137/21 68-126/15 63-130/22 72-125/19
CAS No.	Surrogate Recoveries	MS		MSD	T	15618-9	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	96% 114%		98% 112%	95% 109%		56-136% 50-144%			



Matrix Spike/Matrix Spike Duplicate Summary

T15622 Job Number:

Account:

PESTXST Premier Environmental Services

Project:

Vacuum to Jal Mainline #3/205068/2003-00117

				'		
Sample	File ID DF	Analyzed	Ву	Prep Date	Prep Batch	Analytical Batch
T15691-2MS	KK017106.D1	12/15/06	JH	n/a	n/a	GKK973
T15691-2MSD	KK017107.D1	12/15/06	JH	n/a	n/a	GKK973
T15691-2	KK017105.D1	12/15/06	JH	n/a	n/a	GKK973
				•		
				}		

The QC reported here applies to the following samples:

Method: SW846 8021B

T15622-1, T15622-2

CAS No. 71-43-2	Compound Benzene	T15691-2 ug/l Q ND	Spike ug/l 20	MS ug/l 18.2	MS % 91	MSD ug/l 18.4	MSD % 92	RPD 1	Limits Rec/RPD 45-137/21
CAS No.	Surrogate Recoveries	MS	MSD	Ti	5691-2	Limits			
460-00-4 98-08-8	4-Bromofluorobenzene aaa-Trifluorotoluene	91% ^a 93% ^a	91% a 93% a	929 979		56-1369 50-1449	-		

⁽a) %Recovery adjusted for double surrogate spike.



Distribution

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