GW - 015

MONITORING REPORTS

DATE: 2007-2009

370 17th Street, Suite 2500
Denver, Colorado 80202
303-605-1893 – main
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December 3, 2008

Mr. Wayne Price
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: 2nd 2008 Semi Annual Groundwater Monitoring Report
DCP Linam Ranch Gas Plant (GW-015)
Unit B, Section 6, Township 19 South, Range 37 East

Dear Mr. Price:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the 2nd 2008 Semi Annual Groundwater Monitoring Report for the DCP Linam Ranch Gas Plant located in Lea County, New Mexico (Unit B Section 6, Township 19 South, Range 37 East).

The groundwater sampling event was completed on September 15, 2008.

The data indicate that the groundwater conditions remain stable. The next monitoring event is scheduled for the end of 1st Quarter 2009.

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@dcpmidstream.com .

Sincerely,

DCP Midstream, LP

Stephen Weathers, P.G.
Principal Environmental Specialist

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

November 26, 2008

Mr. Stephen Weathers
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Summary of the 2008 Second Semi Annual Groundwater Monitoring Activities at the Linam Ranch Gas Plant, Lea County, New Mexico
GW-015: Unit B, Section 6, Township 19 South, Range 37 East

Dear Steve:

This letter summarizes the activities completed and data generated during second 2008 semiannual groundwater sampling episode at the DCP Midstream, LP (DCP) Linam Ranch Gas Plant in Lea County New Mexico. The facility is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 6, Township 19 South, Range 37 East (Figure 1). The coordinates are 32.6965 degrees north, 103.2883 degrees west. The facility is an active gas-processing plant.

The 14 monitoring well locations are shown on Figure 2. Construction information is included in Table 1. Well MW-12 can no longer be monitored because of DCP safety concerns. It is directly adjacent to the main flare, and the flare can ignite without warning. The down-gradient area in this vicinity is adequately monitored by MW-9 and MW-13.

The sampling was completed on September 15, 2008. The activities completed included the measurement of fluid levels in all monitoring wells and the sampling of all wells that contained sufficient water and did not contain measurable free phase hydrocarbons (FPH).

The fluid measurements, FPH thicknesses and corrected groundwater elevations are summarized in Table 2. The water-table elevations for the wells containing FPH were estimated using the following formula:

$GWE_{corr} = MGWE + (FPHT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.81 based upon historic data).

The historic water-table elevation data are summarized in Table 3. Hydrographs for select wells throughout the study area are included on Figure 3. The water table declined in all wells except MW-2 and MW-7. The water table in MW-2 declined back into its normal elevation range. The water level in MW-7 increased by approximately 0.5 feet.

A water-table contour map for the September 2008 data was generated using the program Surfer with its kriging option (Figure 4). The water-table elevation in MW-7 is lower than those measured in the wells in the central area (MW-1, MW-4, MW-5 and MW-6) so the resulting water table configuration suggests outward flow from the center of the property. Well MW-7 has never contained measurable benzene, toluene, ethylbenzene or xylenes, and the water table is nearly below the base of the well. This lack of impacts suggests that the relatively higher water table measured in the central part of the site does not resulting in measurable constituent migration to the northwest.

The historical FPH thickness values in MW-4 and MW-6 are graphed in Figure 5. The FPH thickness increased in MW-4 and remained nearly constant in MW-6. FPH was removed from MW-4 and MW-6 between April 1998 and August 2004. Only 12.2 gallons were removed from MW-4 and 14.3 gallons were removed from MW-6 over this 76-month period. This limited volume indicates that the FPH is relatively immobile and difficult to remove. DCP is currently evaluating alternative removal schemes that could be safely implemented within an active gas-processing plant.

Eleven wells were purged and sampled using the standard protocols for this site. Wells MW-4 and MW-6 were not sampled because they contained FPH. Well MW-7 was not sampled because the sampling technician believed that it did not contain sufficient water even though it had been sampled at lower elevations in the past. MW-7 will be sampled during the next event.

The wells were purged using dedicated bailers until a minimum of three casing volumes of water were removed and the field parameters temperature, pH and conductivity had stabilized. The well purging form is attached. The affected purge water was disposed of at an approved facility.

Unfiltered samples were collected following purging using the same dedicated bailers. All samples were placed in an ice-filled chest immediately upon collection and delivered to the analytical laboratory using standard chain-of-custody protocols. The samples were analyzed for benzene, toluene, ethylbenzene and total xylenes (BTEX) using EPA Method SW846 8260.

A field duplicate was collected from MW-5 and a matrix spike, matrix spike duplicate was collected from MW-1 to evaluate quality control. These results are summarized in Table 4. The quality control evaluation can be summarized as follows:

- The cooler temperature was 2.6 degrees C upon login at laboratory;
- The method blanks all within control limits;
- The blank spikes all within control limits;
- All of the individual surrogates within their control limits;
- The RPD for benzene was 16.6 percent, and it was at or below 10 percent for the other constituents; and
- The matrix spike/matrix spike duplicate values were all within their respective control ranges.

The analytical results are summarized in Table 5 and the laboratory report is attached. The constituents that exceed the potentially applicable New Mexico Water Quality Control Commission (NMWQCC) groundwater standards are highlighted in Table 5. The samples from wells MW-5, MW-10 and MW-10D exceeded only the benzene standard. None of the other wells, including down-gradient boundary wells MW-2, MW-8, MW-9 and MW-13 contained BTEX constituents above the method reporting limits.

Benzene isopleths generated by the Surfer program using the kriging option are plotted on Figure 6 for the September 2008 data. Figure 6 establishes the following facts:

1. There appears to be two hydrocarbon source areas. The first area includes wells MW-4, MW-5 and MW-6.
2. The dissolved-phase BTEX constituents that emanate from the MW-4, MW-5, MW-6 source attenuate to concentrations that are at or below the method reporting limits before encountering any boundary wells MW-2 and MW-8.
3. The second source area includes MW-10 and MW10d. The benzene concentration in these samples is much higher than the corresponding toluene, ethylbenzene and xylene concentrations. These ratios are the opposite those that originate from MW-5 in the other source area.
4. The elevated dissolved-phase BTEX constituents that are measured at MW-10 and MW-10D attenuate to concentrations that are below the method reporting limits before encountering down gradient wells MW-9 and MW-13.
5. The patterns described for the two sources have remained constant since the middle of 2001.
6. The dissolved-phase constituents from the two sources attenuate concentrations below the method reporting (and detection) limits approximately 1,000 feet from the nearest down-gradient property boundary at or near well MW-3.

The historical data for all wells is summarized in Table 6 for benzene, Table 7 for toluene, Table 8 for ethylbenzene and Table 9 for total xylenes. Figure 7 graphs the benzene concentration verses time relationship for MW-5. The benzene concentration in MW-5 increased between March 2008 and September 2008 following three consecutive sampling episodes with decreases. The September 2008 value is still below the majority of the historic data.

Benzene has not been detected above the 0.001 method reporting limit in MW-9 since March 2006 as shown on Table 6. Benzene has also not been detected in MW-11 since March 2005.

Time-benzene graphs for MW-10 and MW-10D are included in Figure 8. The benzene concentrations appear to be decreasing in MW-10 and increasing in MW-10D. The dissolved-phase hydrocarbon plume does not appear to be expanding from this area based upon the nondetects in down-gradient wells MW-9 and MW-13.

The above results, particularly the lack of detectable BTEX in the down-gradient wells, indicates that the plume is not expanding past its historic limits. Also, the land to the east owned by DCP provides an additional down-gradient buffer from the facility boundary to the property boundary (Figure 6).

AEC recommends no additional activities other than continued groundwater sampling. The next semi-annual groundwater-monitoring episode is scheduled for the first half of 2009. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, PE
Principal Engineer

MHS/tbm

attachment

TABLES

Table 1 – Linam Ranch Gas Plant Well Construction Summary

Well	Well Elevation (Top of Casing)	Well Depth (TOC)	Well Diameter
	(feet)	(feet)	(inches)
MW-1	3718.29	54.20	2
MW-2	3714.80	50.50	2
MW-3	3715.50	55.30	2
MW-4	3720.46	54.13	4
MW-5	3721.53	55.20	4
MW-6	3720.99	54.10	4
MW-7	3728.57	62.50	2
MW-8	3714.18	58.30	4
MW-9	3720.48	59.10	2
MW-10	3720.76	65.00	4
MW-10D	3720.85	79.00	2
MW-11	3722.02	62.80	4
MW-12	Inaccessible because of safety concerns		
MW-13	3721.63	63.00	4

Table 2 –Linam Ranch Gas Plant September 15, 2008 Fluid Gauging Data

Well	Depth to Water	Depth to Product	Free Phase Hydrocarbon Thickness	Corrected Water Table Elevation
MW-1	45.13			3,675.05
MW-2	44.16			3,673.08
MW-3	47.40			3,670.30
MW-4	47.21	46.70	0.51	3,675.63
MW-5	47.67			3,675.93
MW-6	50.27	47.49	2.78	3,674.92
MW-7	58.28			3,672.56
MW-8	43.71			3,672.47
MW-9	50.28			3,672.20
MW-10	50.21			3,672.69
MW-10D	51.23			3,672.31
MW-11	51.38			3,673.15
MW-12	Inaccessible because of safety concerns			
MW-13	51.93			3,672.06

All units are feet

Table 3 - Linam Ranch Gas Plant Summary of Historic Groundwater Elevation Data (feet)

Well	12/1/92	5/22/94	5/17/95	11/14/95	1/17/96	4/24/96	1/22/97	8/15/97	1/22/98	7/20/98	2/9/99	8/24/99	2/21/00	8/17/00	2/6/01	8/2/01
MW-1		3676.28	3674.68		3676.23	3675.37	3674.45	3674.63	3674.19	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99	3674.81
MW-2		3682.29	3673.49				3673.19		3672.80	3672.37	3672.41	3674.43	3672.68	3679.43	3674.05	3672.69
MW-3		3671.47	3670.72	3671.30		3671.13	3670.47		3669.96	3669.80	3669.59	3669.68	3669.51	3669.68	3669.48	3669.31
MW-4	3677.10	3676.96	3675.43	3675.75	3676.27	3675.50	3674.29	3674.12	3674.52	3673.76	3674.45	3675.44	3675.81	3676.07	3675.39	3674.80
MW-5	3677.65	3677.33	3675.43	3676.62	3676.23	3675.51	3674.35	3673.96	3674.74	3674.21	3674.84	3675.47	3675.84	3675.66	3675.24	3674.82
MW-6	3676.87	3676.70	3674.87	3676.80	3676.18	3676.37	3674.21	3673.91	3674.21	3673.59	3673.84	3674.86	3675.11	3675.61	3674.75	3674.15
MW-8		3674.83	3672.73		3674.47	3673.36	3672.78	3672.04	3671.87	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60	3671.26
MW-9		3672.89	3671.88	3672.46	3672.64	3672.40	3671.52	3671.14	3671.00	3670.90	3670.67	3670.89	3670.78	3670.92	3670.86	3670.62
MW-10			3672.45	3673.05	3673.08	3672.75	3671.78	3671.41	3671.33	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36	3671.06
MW-10D			3672.16	3672.91	3672.81	3672.36	3671.43	3671.07	3671.13	3670.99	3670.78	3671.03	3670.98	3671.29	3670.97	3670.76
MW-11			3673.03	3674.19	3673.88	3673.31	3672.21	3671.81	3672.01	3671.88	3671.68	3672.06	3672.09	3672.47	3672.22	3671.79
MW-12			3672.37	3673.32	3673.25	3672.75	3671.74	3671.40	3671.34	3671.18	3671.00	3671.59	3671.33	3671.86	3671.50	3671.07
MW-13			3672.02	3672.57	3672.66	3672.34	3671.43	3671.05	3670.93	3670.80	3670.60	3670.94	3670.74	3671.04	3670.88	3670.58

Well	3/11/02	9/25/02	3/8/03	9/17/03	3/16/04	8/17/04	3/15/05	9/29/05	3/22/06	9/21/06	3/20/07	9/28/07	4/30/08	9/15/08
MW-1	3674.04	3674.43	3674.32	3673.80	3674.30	3676.59	3682.86	3684.83	3684.08	3682.25	3677.05	3677.62	3677.57	3675.05
MW-2	3672.07	3672.26	3672.21	3671.69	3671.26	3679.10	3679.39	3678.22	3676.04	3681.68	3674.88	3693.79	3693.74	3673.08
MW-3	3669.14	3669.03	3669.06	3668.87	3668.63	3669.00	3671.37	3671.52	3671.63	3672.00	3671.45	3671.31	3671.26	3670.30
MW-4	3674.59	3675.13	3674.60	3674.16	3674.04	3675.77	3681.85	3682.38	3682.04	3680.94	3677.98	3677.77	3676.48	3675.63
MW-5	3675.07	3674.99	3674.81	3674.32	3674.32	3674.32	3680.24	3680.65	3680.66	3680.23	3678.70	3677.03	3676.98	3675.93
MW-6	3674.30	3674.61	3674.12	3673.55	3673.07	3674.68	3680.13	3677.46	3677.42	3677.37	3677.70	3677.21	3675.96	3674.92
MW-8	3671.51	3671.59	3671.59	3670.71	3670.67	3673.30	3676.74	3677.01	3675.71	3677.09	3674.32	3681.16	3672.09	3672.47
MW-9	3670.61	3670.61	3670.68	3670.48	3670.15	3670.28	3673.36	3673.66	3674.00	3673.41	3673.42	3672.65	3681.10	3672.20
MW-10	3671.10	3671.13	3671.17	3670.87	3670.52	3670.84	3674.42	3674.35	3674.69	3674.13	3673.99	3673.14	3674.08	3672.69
MW-10D	3670.84	3670.81	3670.85	3670.46	3670.28	3670.51	3673.72	3674.03	3674.05	3673.75	3674.92	3672.70	3672.59	3672.31
MW-11	3672.02	3672.05	3672.00	3671.49	3671.02	3671.67	3675.45	3675.54	3675.68	3675.30	3674.52	3673.80	3672.58	3673.15
MW-12	3671.01	3671.09	3671.15	3670.81	3670.36	3671.10	3674.97	3674.46	3674.64	3674.52	NS	NS	NS	NS
MW-13	3670.50	3670.50	3670.57	3670.32	3669.95	3670.31	3673.69	3673.61	3673.56	3673.50	3677.05	3672.57	3672.50	3672.06

NS: Not sampled due to safety concerns

Table 4 - Quality Assurance Evaluation for the September 2008 Data

MW-5 Duplicate Samples

	Benzene	Toluene	Ethylbenzene	Total Xylenes
RPD (%)	16.6%	6.5%	3.8%	10.6%

RPD: Relative percentage difference

MW-1 MS/MSD (percent recovery)

	Benzene	Toluene	Ethylbenzene	Total Xylenes
MS	125	118	123	118
MSD	122	114	118	114

MS: matrix spike
MSD: matrix spike duplicate

Table 5 –Linam Ranch Gas Plant September 2008 Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC	0.01	0.75	0.75	0.62
MW-1	<0.002	<0.002	<0.002	<0.006
MW-2	<0.002	<0.002	<0.002	<0.006
MW-3	<0.002	<0.002	<0.002	<0.006
MW-5	**0.043**	0.0008 J	0.233	0.322
MW-5 Dup	**0.0508**	0.00075 J	0.242	0.358
MW-7	NS	NS	NS	NS
MW-8	<0.002	<0.002	<0.002	<0.006
MW-9	<0.002	<0.002	<0.002	<0.006
MW-10	**0.801**	0.0508	0.0932	0.0433
MW-10d	**0.216**	0.0883	0.0235	0.0347
MW-11	<0.002	<0.002	<0.002	<0.006
MW-12	Not sampled due to safety concerns			
MW-13	<0.002	<0.002	<0.002	<0.006

NMWQCC: New Mexico Water Quality Control Commission groundwater standards.
Bolded cells exceed the NMWQCC standard
All units mg/l
NS: Not sampled because of insufficient water.
J modifier: Estimated value.

Table 6 - Linam Ranch Gas Plant Summary of Historical Results for Benzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0053	<0.001	<0.001											
11/3/1992	0.0015			16.0	0.003	0.34								
12/2/1992	0.0013			17.0	0.009	0.52								
1/12/1994	0.0039			18.0	0.300	0.77		<0.001						
5/17/1995	<0.002	<0.001	<0.001	20.9	0.090	0.98	<0.001	<0.001	<0.001	3.225	0.096	<0.001	<0.001	<0.001
11/14/1995									<0.001	5.23	0.125	0.306	<0.001	0.003
1/17/1996									0.001	6.11	0.841	0.549	<0.001	<0.001
4/24/1996									<0.001	6.94	8.14	0.52	<0.001	<0.001
1/22/1997									<0.001	6.41	0.365	0.267	<0.001	0.048
8/15/1997									<0.001	5.63	0.221	0.164	0.001	0.132
1/22/1998									<0.001	7.03	<0.001	0.291	<0.001	0.082
7/20/1998									<0.001	7.18	0.184	0.061	0.002	0.061
2/9/1999			<0.001						0.011	4.87	0.009	0.018	0.001	0.082
8/25/1999	<0.005	<0.005	<0.001		0.137		<0.005	<0.001	<0.005	5.58	0.036	0.005	0.003	0.062
2/22/2000	<0.005	<0.005	<0.001		0.068		<0.005	<0.005	0.014	2.35	0.014	0.02	<0.001	0.08
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	0.002	0.036	3.11	<0.005	0.009	<0.005	0.04
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	1.23	<0.005	0.013	<0.001	0.023
8/2/2001	0.003	0.007	0.002		<0.005		<0.005	<0.001	0.038	1.64	<0.001	0.002	<0.001	0.002
3/11/2002	<0.001	<0.001	<0.001	17.9	0.062		<0.001	<0.001	0.048	3.26	0.002	0.005	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	18.8	0.381	1.29	<0.005	<0.001	0.071	3.48	<0.001	0.002	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	16.9	0.079	0.16	<0.005	<0.001	0.077	4.21	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	15.8	0.116		<0.001	<0.005	<0.005	1.34	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	17.8	0.146		<0.001	<0.001	<0.001	0.456	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	16.6	0.012		<0.001	<0.001	<0.001	1.3	0.011	0.003	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.262		<0.001	<0.001	0.0061	3.91	0.107	0.0264	<0.001	<0.001
9/29/2005	0.0067	<0.001	<0.001		0.63		<0.001	<0.001	0.0029	1.67	0.0703	<0.001	<0.001	<0.001
3/22/2006	0.0028	<0.001	<0.001		0.569		<0.001	<0.001	0.0023	1.48	0.224	<0.001	<0.005	<0.001
9/21/2006	0.0011	<0.001	<0.001		1.06		<0.001	<0.001	0.001	1.19	0.0537	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.252		<0.001	<0.001	<0.001	1.13	0.0736	<0.001		<0.001
9/28/2007	<0.001	<0.001	<0.001		0.07375		<0.001	<0.001	<0.001	1.18	0.218	<0.001		<0.001
4/30/2008	<0.002	<0.002	<0.002		0.0108		<0.002	<0.002	<0.002	0.769	0.195	<0.002		<0.002
9/15/2008	<0.002	<0.002	<0.002		0.0469			<0.002	<0.002	0.801	0.216	<0.002		<0.002

1) All units mg/l and duplicate values are averaged: 2) MW-12 Not sampled after 9/06 due to safety concerns: 3) Modifiers are not included:
4) Blank cells note samples for wells that were either not install or not sampled

Table 7 - Linam Ranch Gas Plant Summary of Historical Results for Toluene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0067	<0.001	0.0021											
11/3/1992	0.0015			8.0	0.0034	0.023								
12/2/1992	0.0014			8.2	0.0041	0.020								
1/12/1994	<0.001			10.0	0.190	0.0029		<0.005						
5/17/1995	<0.002	<0.001	<0.001	1.35	0.014	0.007	<0.001	<0.001	<0.001	0.052	0.004	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.001	0.001	<0.001	<0.001	<0.001
1/17/1996									<0.001	0.863	0.001	0.004	<0.001	<0.001
4/24/1996									<0.001	<0.010	0.046	<0.002	<0.001	<0.001
1/22/1997									<0.001	1.63	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	1.35	<0.01	<0.001	<0.001	<0.001
1/22/1998									<0.001	1.93	<0.001	0.004	<0.001	<0.001
7/20/1998									<0.001	2.34	0.014	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.32	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.037		<0.005	<0.001	<0.005	0.658	<0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		<0.005		<0.005	<0.005	<0.005	0.129	<0.005	<0.001	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	<0.001	<0.005	0.025	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.082	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	<0.100	<0.001		<0.001	<0.001	<0.001	0.178	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	<0.050	<0.050	<0.005	<0.001	<0.001	<0.100	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	<0.100	<0.050	<0.100	<0.005	<0.001	<0.001	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.001	<0.001	<0.010	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.303	0.0444	<0.005	<0.001	<0.001
9/29/2005	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.39	0.0453	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.254	0.0614	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.0069		<0.001	<0.001	<0.001	0.197	0.0378	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.212	0.0563	<0.001		<0.001
9/28/2007	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.246	0.0902	<0.001		<0.001
4/30/2008	<0.002	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002	0.0457	0.0677	<0.002		<0.002
9/15/2008	<0.002	<0.002	<0.002		0.0008			<0.002	<0.002	0.0508	0.0883	<0.002		<0.002

1) All units mg/l and duplicate values are averaged: 2) MW-12 Not sampled after 9/06 due to safety concerns: 3) Modifiers are not included:
4) Blank cells note samples for wells that were either not install or not sampled

Table 8 - Linam Ranch Gas Plant Summary of Historical Results for Ethylbenzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.001	<0.001	<0.001											
11/3/1992	<0.001			0.7	0.003	0.051								
12/2/1992	<0.001			0.53	0.0082	0.058								
1/12/1994	0.0021			0.5	0.160	0.096		<0.005						
5/17/1995	<0.002	<0.001	<0.001	<0.2	0.138	0.087	<0.001	<0.001	<0.001	0.049	<0.001	<0.001	<0.001	<0.001
11/14/1995									<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1/17/1996									<0.001	1.140	<0.001	0.002	<0.001	<0.001
4/24/1996									<0.001	1.190	1.170	<0.002	<0.001	<0.001
1/22/1997									<0.001	0.294	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	0.479	<0.01	0.002	<0.001	<0.001
1/22/1998									<0.001	0.802	<0.001	<0.001	<0.001	<0.001
7/20/1998									<0.001	0.777	0.008	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.516	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.262		<0.005	<0.001	<0.005	0.557	0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		0.13		<0.005	<0.005	<0.005	0.164	<0.005	0.002	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		0.006		<0.005	<0.001	<0.005	0.072	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		0.084		<0.005	<0.005	<0.005	0.102	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	0.119	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.450	0.097		<0.001	<0.001	<0.001	0.251	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	0.526	0.588	0.134	<0.005	<0.001	<0.001	0.290	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.520	0.072	0.148	<0.005	<0.001	<0.001	0.303	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	0.259	0.182		<0.001	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	0.512	0.241		<0.001	<0.001	<0.001	0.047	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	0.403	0.081		<0.001	<0.001	<0.001	0.119	0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.309		<0.001	<0.001	<0.001	0.888	0.0143	<0.005	<0.001	<0.001
9/29/2005	0.011	<0.001	<0.001		0.267		<0.001	<0.001	<0.001	0.238	0.0061	<0.001	<0.001	<0.001
3/22/2006	0.0013	<0.001	<0.001		0.239		<0.001	<0.001	<0.001	0.241	0.0295	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.407		<0.001	<0.001	<0.001	0.204	0.0075	<0.001	<0.001	<0.001
3/20/2007	<0.001	0.0022	0.0022		0.1975		<0.001	<0.001	<0.001	0.222	<0.001	<0.001		<0.001
9/28/2007	<0.001	<0.001	<0.001		0.0374		<0.001	<0.001	<0.001	0.163	0.0212	<0.001		<0.001
4/30/2008	<0.002	<0.002	<0.002		0.182		<0.002	<0.002	<0.002	0.0851	0.0144	<0.002		<0.002
9/15/2008	<0.002	<0.002	<0.002		0.2375			<0.002	<0.002	0.0932	0.0235	<0.002		<0.002

1) All units mg/l and duplicate values are averaged: 2) MW-12 Not sampled after 9/06 due to safety concerns: 3) Modifiers are not included:
4) Blank cells note samples for wells that were either not install or not sampled

Table 9 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	<0.001	<0.001	<0.001											
11/3/1992	0.010			1.8	0.034	0.120								
12/2/1992	0.006			1.3	0.037	0.120								
1/12/1994	0.002			1.3	0.490	0.210		<0.005						
5/17/1995	<0.002	<0.001	<0.001	11.4	0.831	0.181	<0.001	<0.001	<0.001	0.169	0.008	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.406	0.011	0.013	<0.001	<0.001
1/17/1996									0.001	1.050	0.047	0.031	<0.001	<0.001
4/24/1996									<0.001	0.127	0.076	<0.002	<0.001	<0.001
1/22/1997									<0.001	8.97	<0.005	0.017	<0.001	<0.001
8/15/1997									<0.001	0.453	<0.01	0.007	<0.001	0.005
1/22/1998									<0.001	0.635	<0.001	0.015	<0.001	<0.001
7/20/1998									<0.001	0.606	0.006	0.010	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.372	<0.005	<0.001	<0.001	<0.001
8/25/1999	0.006	<0.005	<0.001		0.179		<0.005	<0.001	<0.005	0.359	0.002	<0.001	<0.001	<0.001
2/22/2000	0.006	<0.005	<0.001		0.09		<0.005	<0.005	<0.005	0.124	<0.005	0.008	<0.001	<0.001
8/18/2000	0.011	<0.001	<0.005		0.008		<0.005	<0.001	<0.005	0.038	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.086	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.166	<0.001		<0.001	<0.001	<0.001	0.550	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	0.112	0.058	<0.005	<0.001	0.002	0.155	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.151	<0.050	<0.100	<0.005	<0.001	0.003	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.044	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	0.005		<0.001	<0.001	0.012	0.023	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.00	<0.001	0.004	0.071	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.298		<0.001	<0.001	0.0049	1.09	0.0146	0.0115	<0.001	<0.001
9/29/2005	0.0081	<0.001	<0.001		0.327		<0.001	<0.001	<0.001	0.353	0.0119	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		0.296		<0.001	<0.001	<0.001	0.304	0.0267	<0.001	<0.005	<0.001
9/21/2006	0.0017	<0.001	<0.001		0.178		0.0015	<0.001	<0.001	0.238	0.0205	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.0221		<0.001	<0.001	0.0075	0.279	<0.001	<0.001		<0.001
9/28/2007	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.213	0.0375	<0.001		<0.001
4/30/2008	<0.006	<0.006	<0.006		0.0039		<0.006	<0.006	0.05	0.05	<0.006	<0.006		<0.006
9/15/2008	<0.006	<0.006	<0.006		0.3400			<0.006	<0.006	0.0433	0.0347	<0.006		<0.006

1) All units mg/l and duplicate values are averaged: 2) MW-12 Not sampled after 9/06 due to safety concerns: 3) Modifiers are not included:
4) Blank cells note samples for wells that were either not install or not sampled

FIGURES

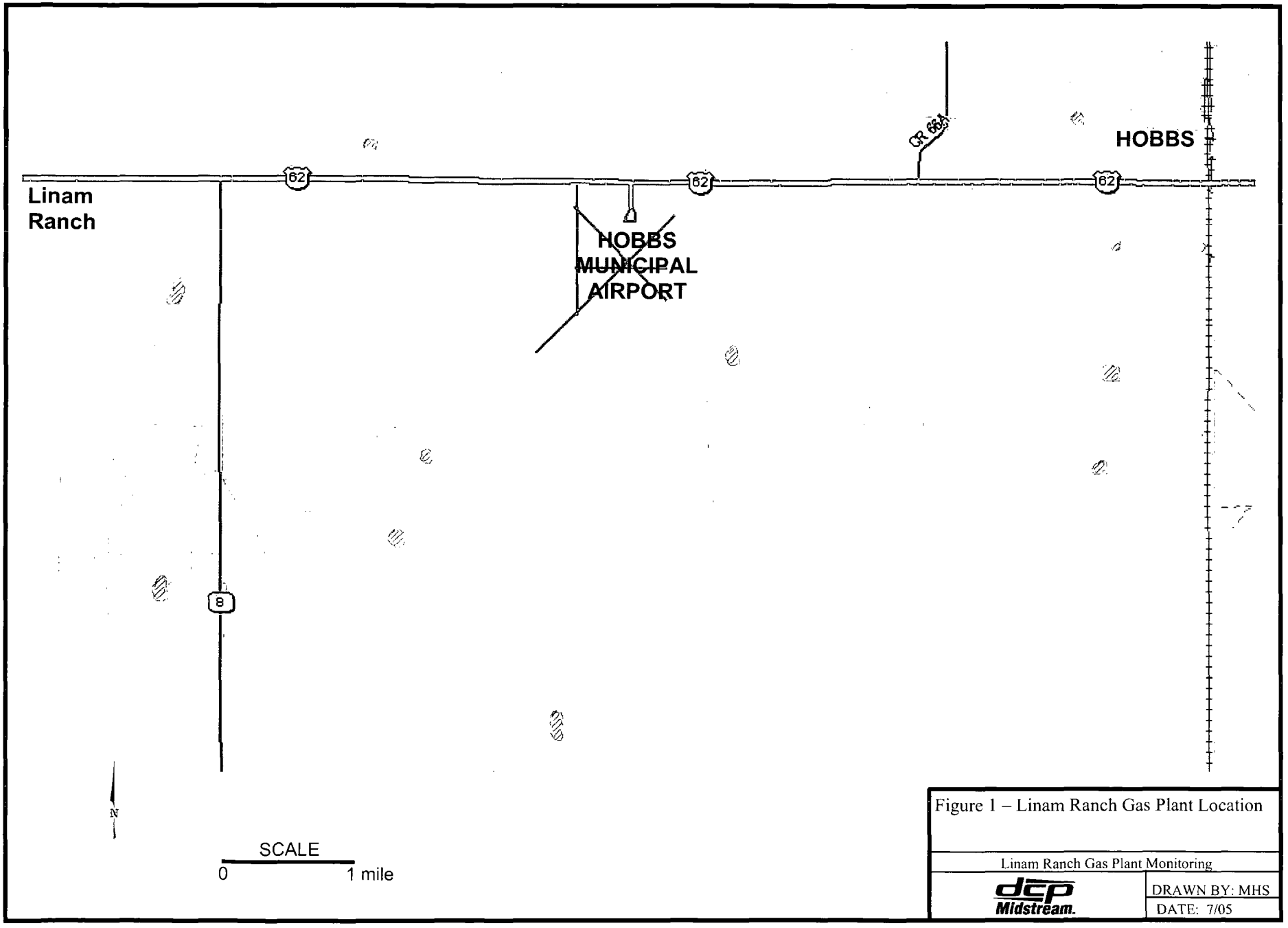


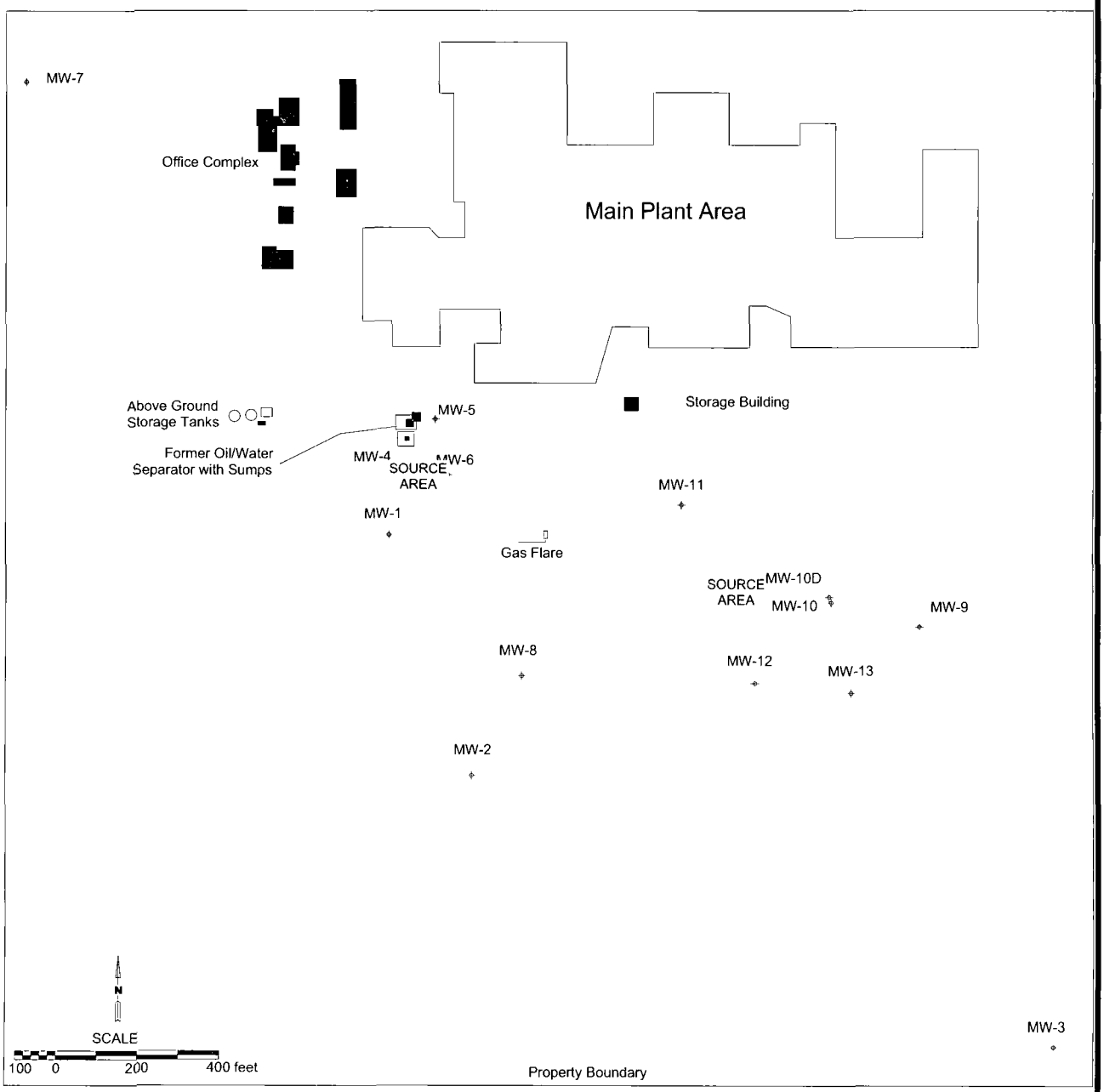
Figure 1 – Linam Ranch Gas Plant Location

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 7/05



Note: MW-12 is no longer monitored because of its proximity to the main plant flare

Figure 2 – Monitor Well Locations

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

REVISED: 6/07

DATE: 6/07

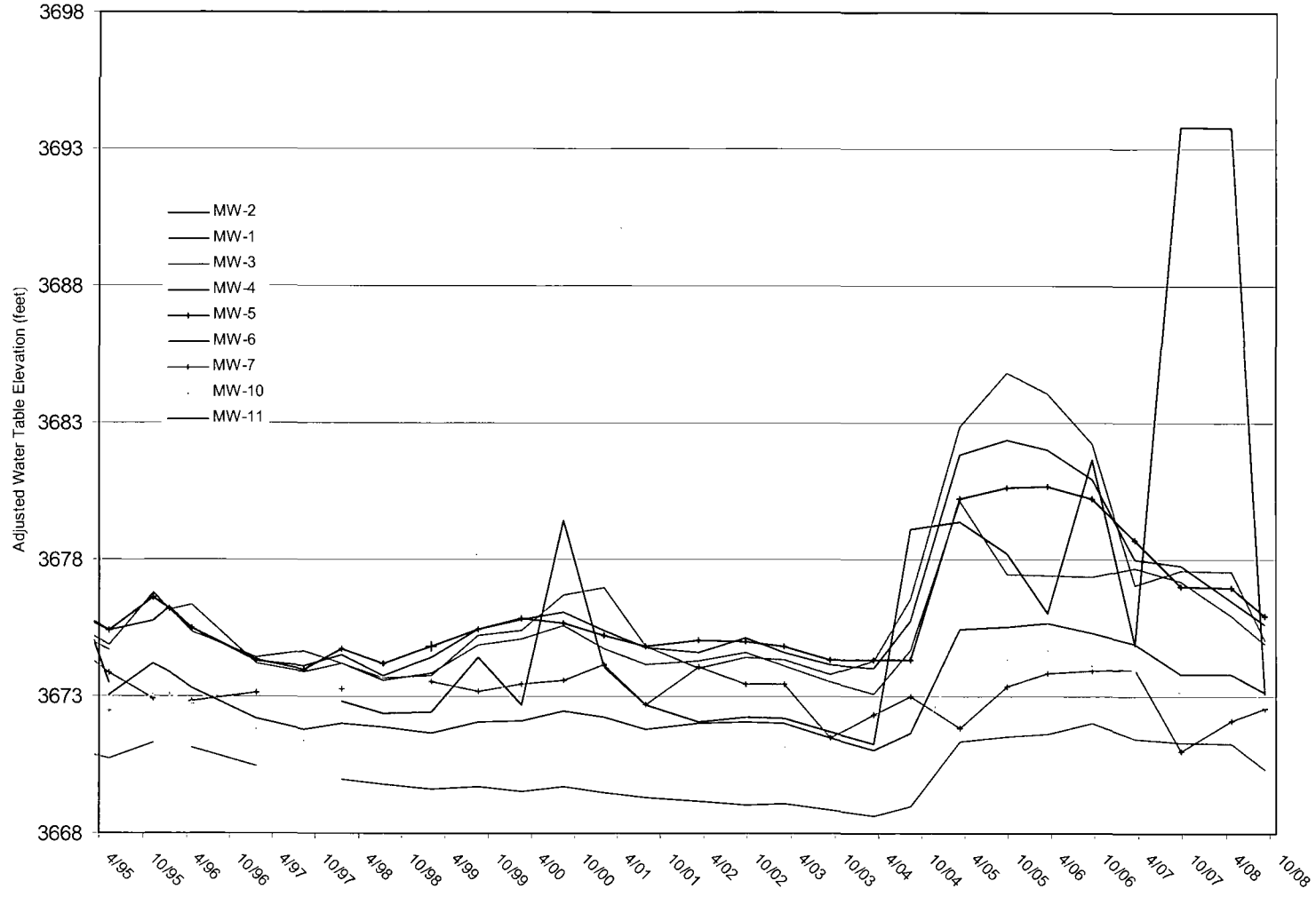


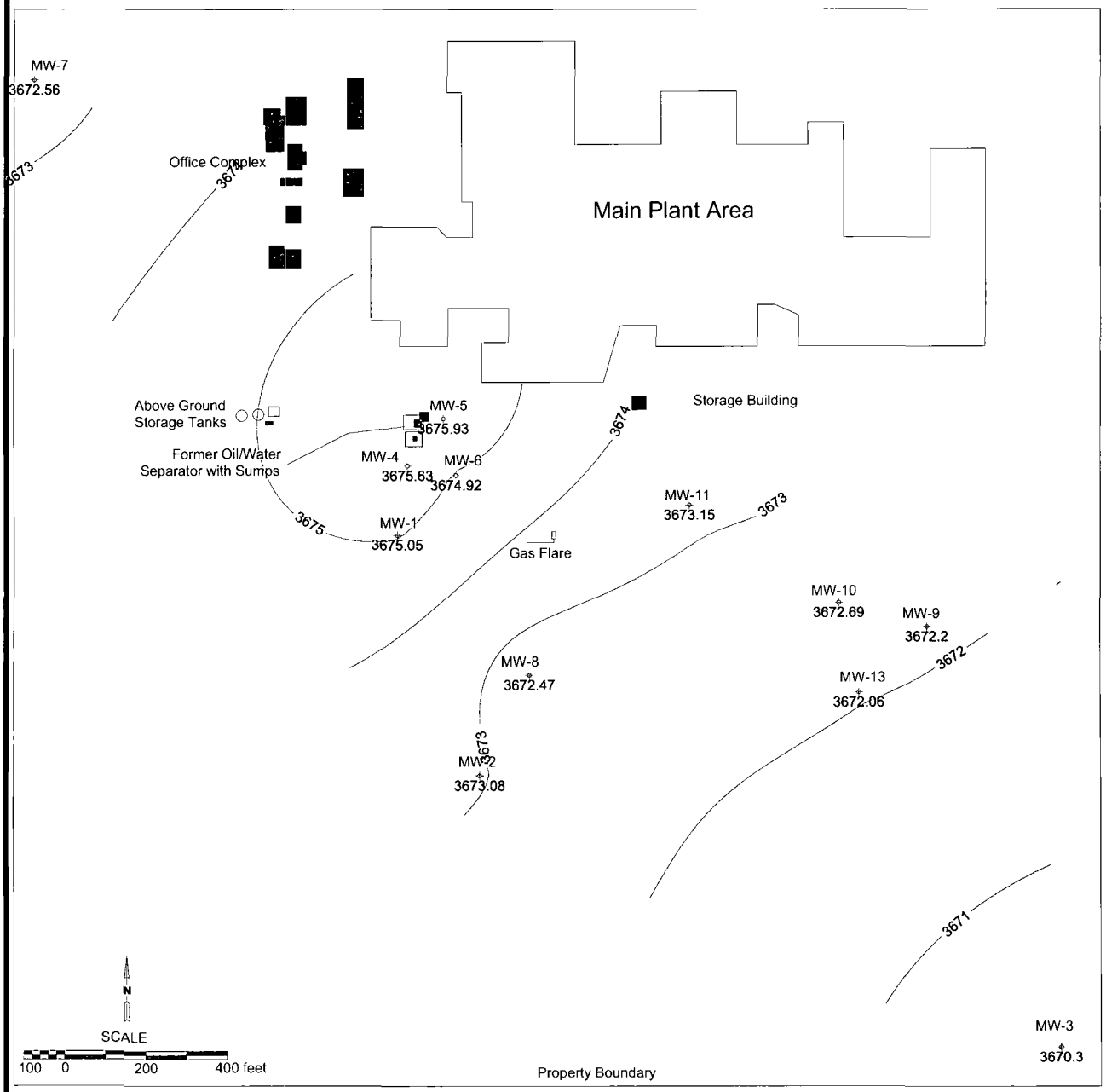
Figure 3 – Linam Ranch Gas Plant Hydrographs

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 11/08



contour interval is 1 foot

Figure 4 – September 2008 Water Table Elevation Contours

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY:	MHS
REVISED:	
DATE:	11/08

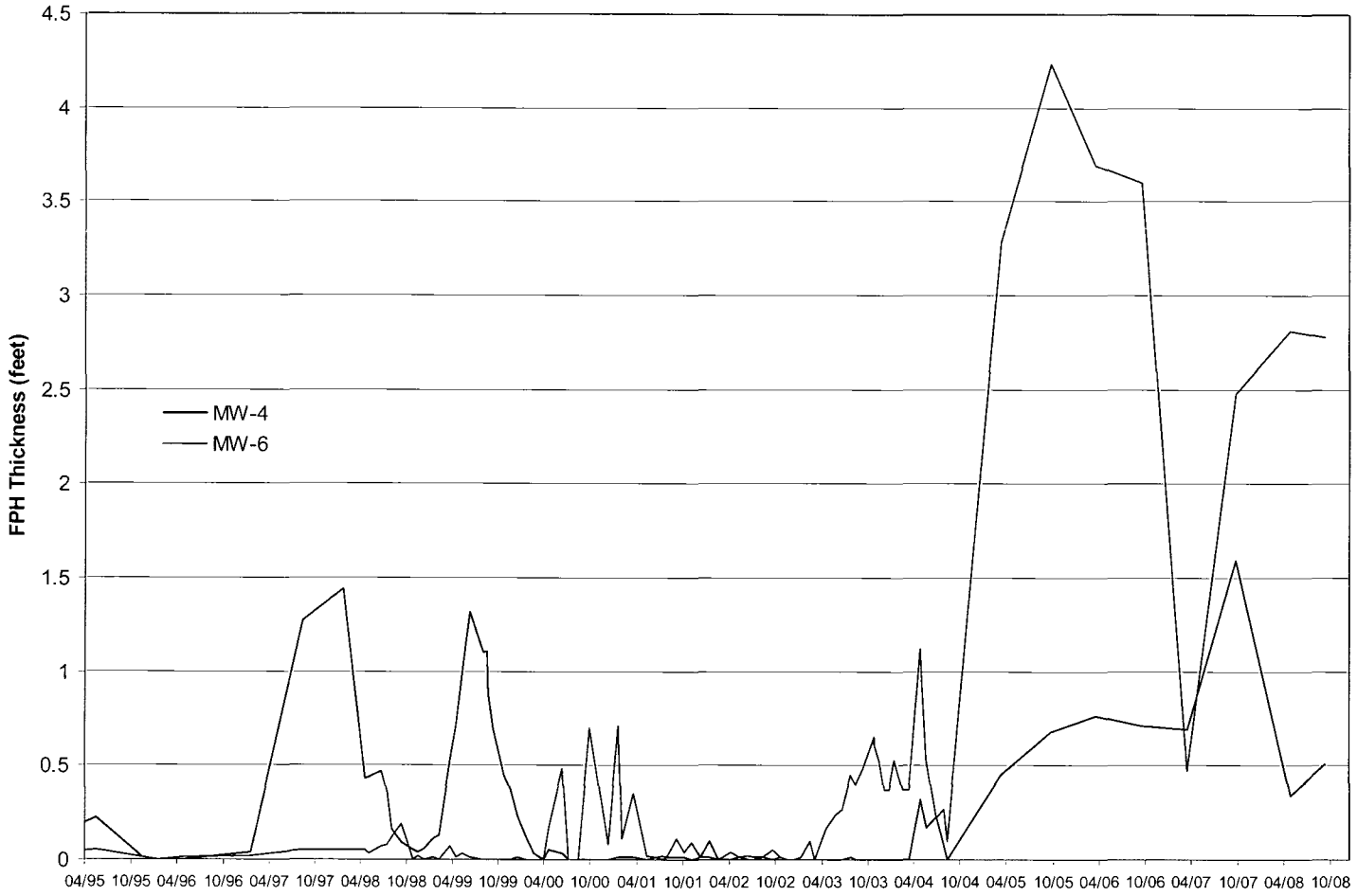


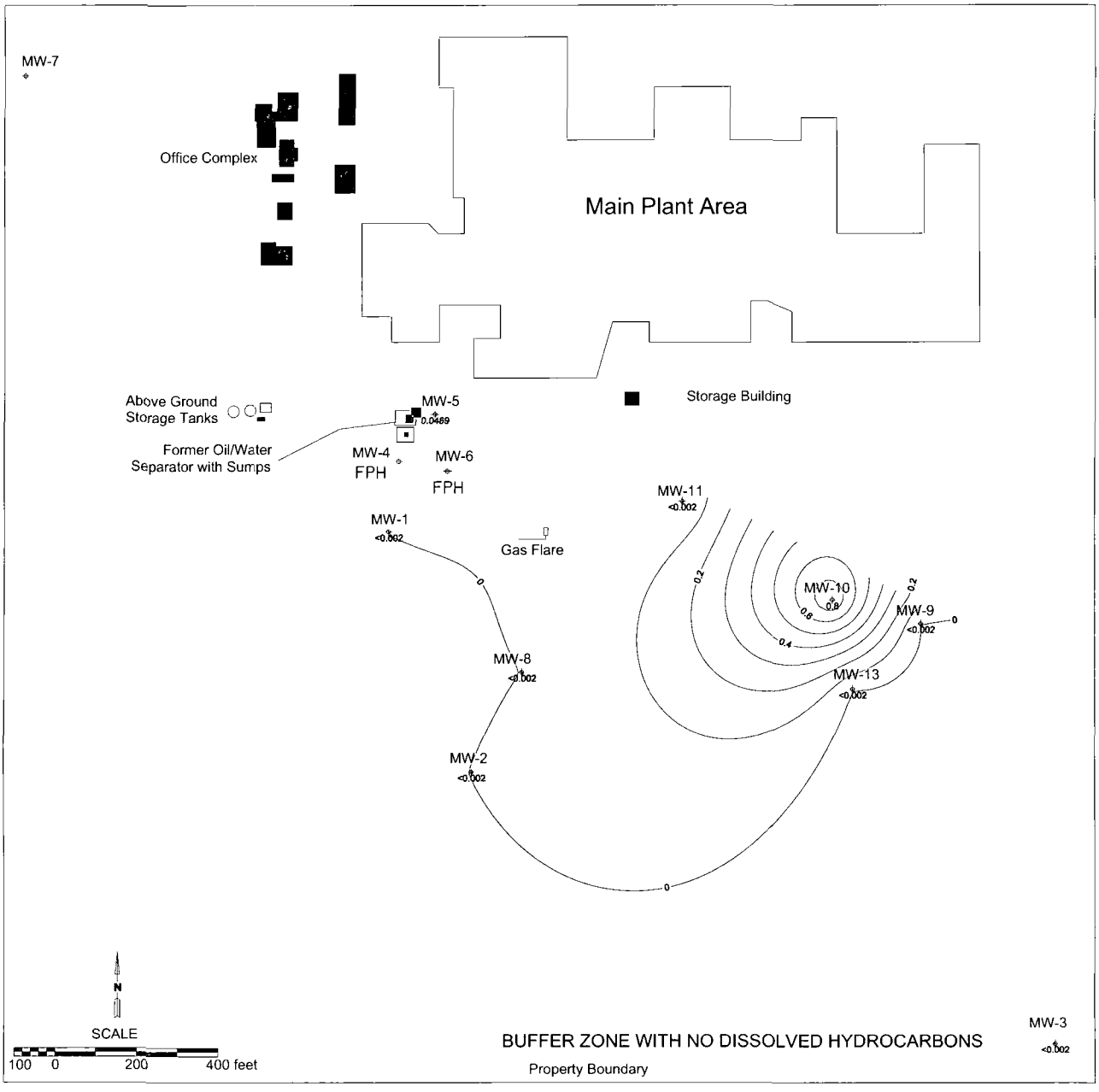
Figure 5 – Linam Ranch Free Phase Hydrocarbon Thickness

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 11/08



FPH: Free phase hydrocarbons
Contour interval is 0.1 mg/l

Figure 6 – September 2008 Benzene Distribution
Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY:	MHS
REVISED:	
DATE:	11/08

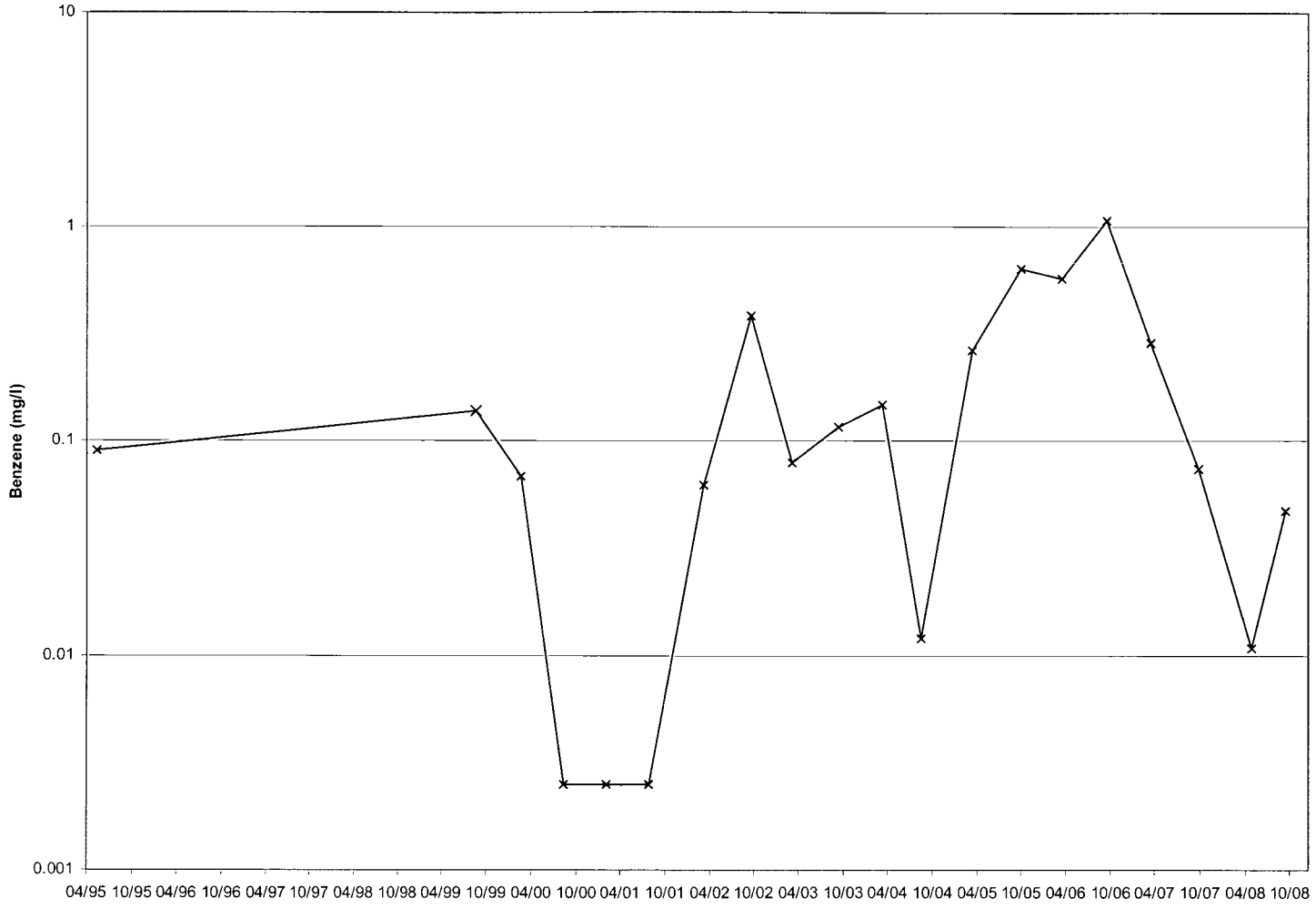


Figure 7 – Benzene Concentrations in MW-5

Linam Ranch Gas Plant Monitoring

DCP Midstream

DRAWN BY: MHS

DATE: 11/08

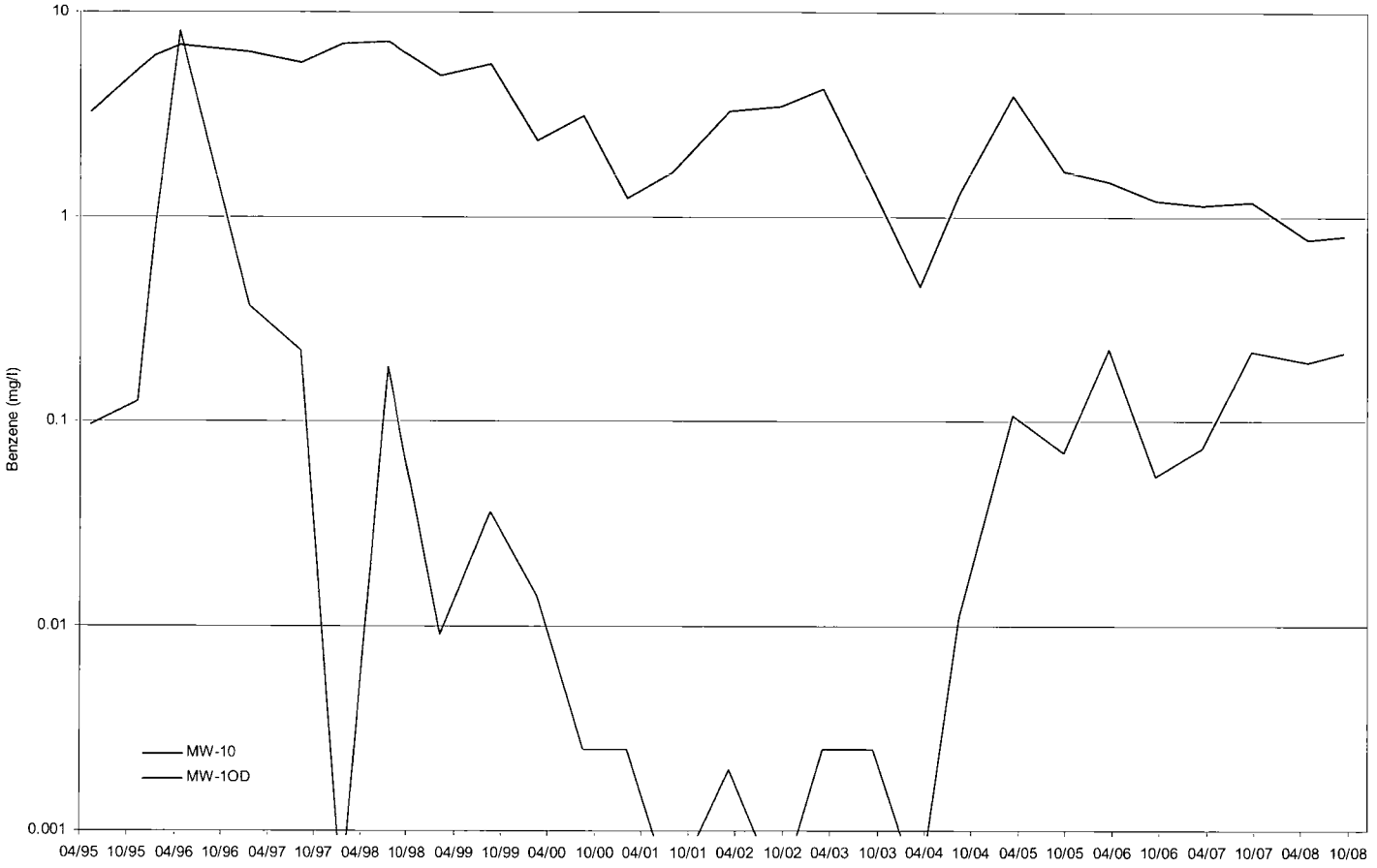


Figure 8 – Benzene Concentrations for MW-10 and MW-10d

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 11/08

FIELD SAMPLING DATA AND

LABORATORY ANALYTICAL REPORT

Arc Environmental

P. O. Box 1772 ~ Lovington, NM 88260
(575) 631-9310

FIELD MEASUREMENT and OBSERVATION LOG

PROJECT NAME: DCP Midstream

PROJECT LOCATION: DCP Midstream Linam Ranch Gas Plant
PROJECT NUMBER: F-114

Date Sampled: 9-15-2008

PROJECT MANAGER: Michael H. Stewart, P.E., C.P.G.

FIELD TECHNICIAN: Rozanne Johnson - Arc Environmental

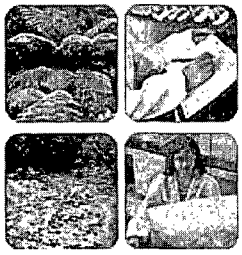
Notes: Water was disposed of at an approved salt-water disposal.

WELL # /SAMPLE LOCATION	TOTAL WELL DEPTH (feet)	DEPTH TO PRODUCT (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	PSH THICKNESS (feet)	WELL FACTOR 2"=.16 4"=.65 5"=1.02	CALC. WELL VOLUME (gallons)	NUMBER OF WELL VOLUMES PURGED	TOTAL PURGED (gallons)	Temp (°C)	pH	Cond. (mS/cm)	Time	SAMPLE CHARACTERISTICS (odor, color, sheen)
Monitor Well #1	54.20		45.13	9.07		0.16	1.5	3	6	21.1	7.06	1.47	15:05	Collected MS/MSD Samples
Monitor Well #2	50.50		44.16	6.34		0.16	1.0	3	5	21.0	7.31	0.46	15:35	
Monitor Well #3	55.30		47.40	7.90		0.16	1.3	3	6	20.9	7.19	0.41	11:15	
Monitor Well #4	54.13	46.70	47.21		0.51									Product Present ~ No Sample Taken
Monitor Well #5	55.20		47.67	7.53		0.65	4.9	3	15	21.0	6.94	2.25	16:00	Collected Duplicate Sample ~ Black Color to Clear Strong Odor
Monitor Well #6	54.10	47.49	50.27	3.83	2.78			3						Product Present ~ No Sample Taken
Monitor Well #7	58.35		58.28	0.07		0.16	0.0							Insufficient Amount of Water - No Sample Taken
Monitor Well #8	58.30		43.71	14.59		0.65	9.5	3	50	21.1	7.25	0.42	16:50	
Monitor Well #9	59.10		50.28	8.82		0.16	1.4	3	6	20.0	6.96	1.21	10:30	
Monitor Well #10	65.00		50.21	14.79		0.65	9.6	3	35	20.9	7.26	1.66	14:00	Strong Odor
Monitor Well #10d	78.95		51.23	27.72		0.16	4.4	3	15	20.7	7.19	1.20	13:05	Strong Odor
Monitor Well #11	62.80		51.38	11.42		0.65	7.4	3	25	19.6	6.82	1.25	9:50	
Monitor Well #13	63.00		51.93	11.07		0.65	7.2	3	25	20.1	6.92	1.36	12:15	

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

11/07/08



Technical Report for

American Environmental Consulting

DCP Midstream- Linham Ranch

Accutest Job Number: T23869

Sampling Date: 09/15/08

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 30

ACCREDITED IN ACCORDANCE WITH nelac

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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

ACCUTEST LABORATORIES 50 YEARS 1956-2006

Client Service contact: Agnes Vicknair 713-271-4700

Certifications: TX (T104704220-06-TX) AR (88-0756) FL (E87628) KS (E-10366) LA (85695/04004) OK (9103) UT(7132714700)

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Test results relate only to samples analyzed.

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Sample Summary

American Environmental Consulting

Job No: T23869

DCP Midstream- Linham Ranch

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
T23869-1	09/15/08	15:05	09/18/08	AQ	Ground Water	MW-1
T23869-1D	09/15/08	15:05	09/18/08	AQ	Water Dup/MSD	MW-1 MSD
T23869-1S	09/15/08	15:05	09/18/08	AQ	Water Matrix Spike	MW-1 MS
T23869-2	09/15/08	15:35	09/18/08	AQ	Ground Water	MW-2
T23869-3	09/15/08	11:15	09/18/08	AQ	Ground Water	MW-3
T23869-4	09/15/08	16:00	09/18/08	AQ	Ground Water	MW-5
T23869-5	09/15/08	16:50	09/18/08	AQ	Ground Water	MW-8
T23869-6	09/15/08	10:30	09/18/08	AQ	Ground Water	MW-9
T23869-7	09/15/08	14:00	09/18/08	AQ	Ground Water	MW-10
T23869-8	09/15/08	13:05	09/18/08	AQ	Ground Water	MW-10D
T23869-9	09/15/08	09:50	09/18/08	AQ	Ground Water	MW-11
T23869-10	09/15/08	12:15	09/18/08	AQ	Ground Water	MW-13
T23869-11	09/15/08	00:00	09/18/08	AQ	Ground Water	DUP

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	T23869-1	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009806.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		73-126%
17060-07-0	1,2-Dichloroethane-D4	99%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	102%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T23869-2	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009810.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%		73-126%
17060-07-0	1,2-Dichloroethane-D4	103%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	102%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	T23869-3	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009811.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		73-126%
17060-07-0	1,2-Dichloroethane-D4	104%		61-136%
2037-26-5	Toluene-D8	101%		80-125%
460-00-4	4-Bromofluorobenzene	101%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T23869-4	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009812.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2	Y0026870.D	2	09/24/08	JL	n/a	n/a	VY1893

	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	0.0430	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.00080	0.0020	0.00048	mg/l	J
100-41-4	Ethylbenzene	0.233 [a]	0.0040	0.00091	mg/l	
1330-20-7	Xylene (total)	0.322	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	90%	73-126%
17060-07-0	1,2-Dichloroethane-D4	103%	92%	61-136%
2037-26-5	Toluene-D8	101%	98%	80-125%
460-00-4	4-Bromofluorobenzene	103%	97%	65-147%

(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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	T23869-5	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009813.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		73-126%
17060-07-0	1,2-Dichloroethane-D4	100%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	101%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	T23869-6	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009814.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		73-126%
17060-07-0	1,2-Dichloroethane-D4	105%		61-136%
2037-26-5	Toluene-D8	101%		80-125%
460-00-4	4-Bromofluorobenzene	102%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T23869-7	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009819.D	10	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.801	0.020	0.0046	mg/l	
108-88-3	Toluene	0.0508	0.020	0.0048	mg/l	
100-41-4	Ethylbenzene	0.0932	0.020	0.0045	mg/l	
1330-20-7	Xylene (total)	0.0433	0.060	0.014	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	99%		73-126%
17060-07-0	1,2-Dichloroethane-D4	98%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	105%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10D		
Lab Sample ID:	T23869-8	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009815.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2	F009841.D	2	09/22/08	JL	n/a	n/a	VF3102

	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	0.216 [a]	0.0040	0.00092	mg/l	
108-88-3	Toluene	0.0883	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0235	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0347	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	102%	102%	73-126%
17060-07-0	1,2-Dichloroethane-D4	101%	105%	61-136%
2037-26-5	Toluene-D8	101%	101%	80-125%
460-00-4	4-Bromofluorobenzene	102%	102%	65-147%

(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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T23869-9	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009816.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	101%		73-126%
17060-07-0	1,2-Dichloroethane-D4	102%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	103%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@34106 07:15 07-Nov-2008

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T23869-10	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009817.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	103%		73-126%
17060-07-0	1,2-Dichloroethane-D4	103%		61-136%
2037-26-5	Toluene-D8	101%		80-125%
460-00-4	4-Bromofluorobenzene	102%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@34106 07:15 07-Nov-2008

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T23869-11	Date Sampled:	09/15/08
Matrix:	AQ - Ground Water	Date Received:	09/18/08
Method:	SW846 8260B	Percent Solids:	n/a
Project:	DCP Midstream- Linham Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	F009818.D	1	09/21/08	RR	n/a	n/a	VF3101
Run #2	F009842.D	2	09/22/08	JL	n/a	n/a	VF3102

	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	0.0508	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.00075	0.0020	0.00048	mg/l	J
100-41-4	Ethylbenzene	0.242 [a]	0.0040	0.00091	mg/l	
1330-20-7	Xylene (total)	0.358	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%	100%	73-126%
17060-07-0	1,2-Dichloroethane-D4	102%	105%	61-136%
2037-26-5	Toluene-D8	101%	100%	80-125%
460-00-4	4-Bromofluorobenzene	103%	104%	65-147%

(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
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

PAGE 1 of 2

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: T23869
Accutest Quote #:

8463 2464 2313 : Fed Ex #

Client Information	Facility Information	Analytical Information
DCP Midstream	DCP Midstream	
Name: 370 Seventeenth Street, Suite 2500	Project Name: Linam Ranch	
Address: Denver CO 80202	Location: Hobbs, New Mexico	
City: Stephen Weathers State: Zip	Project/PO #: Linam Ranch	
Send Report to: Phone #: 303.605.1718	FAX #:	

	Field ID / Point of Collection	Collection 2008 Date	Time	Sampled By	Matrix	# of bottles	Preservation HCL	Preservation NaOH	Preservation HNO3	Preservation H2SO4	Preservation None	BTEX 8260B								MS/MSD BTEX 8260B	
1	MW-1	9-15	16:05	RS	GW	3	x					x									
2	MW-2	9-15	15:35	RS	GW	3	x					x									
3	MW-3	9-15	11:15	RS	GW	3	x					x									
4	MW-5	9-15	16:00	RS	GW	3	x					x									
~~4~~	~~MW-7~~				~~GW~~	~~3~~	~~x~~					~~x~~	NOT SAMPLED								
5	MW-8	9-15	16:50	RS	GW	3	x					x									
6	MW-9	9-15	10:30	RS	GW	3	x					x									
7	MW-10	9-15	14:00	RS	GW	3	x					x									
8	MW-10d	9-15	13:05	RS	GW	3	x					x									
1	MW-1 MS/MSD	9-15	15:05	RS	GW	6	x													x	

Turnaround Information	Data Deliverable Information	Comments / Remarks
☐ 21 Day Standard — Approved By:	☐ NJ Reduced	☐ Commercial "A"
☐ 14 Day	☐ NJ Full	☐ Commercial "B"
☒ 7 Days EMERGENCY	☐ FULL CLP	☐ ASP Category B
☐ Other _____ (Days)	☐ Disk Deliverable	☐ State Forms
RUSH TAT is for FAX data unless previously approved.	☐ Other (Specify)	email results to: mstewart@aecdenver.com rozanne@valornet.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	9/17/08 1530	1			2
Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
3		3	4		4
Relinquished by Sampler:	Date Time: 09/18/08 0730	Received By: 5	Seal #	Preserved where applicable	On Ice: 26

3.1 (26)

T23869: Chain of Custody
Page 1 of 4

PAGE 2 of 2

8463 2464 2313

3.1

3

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: T23869
Accutest Quote #:

Client Information	Facility Information
DCP Midstream	DCP Midstream
Name: 370 Seventeenth Street, Suite 2500	Project Name: Linam Ranch
Address: Denver CO 80202	Location: Hobbs, New Mexico
City: Stephen Weathers State Zip	Project/PO #: Linam Ranch
Send Report to: Phone #: 303.605.1718	FAX #:

Analytical Information

	Field ID / Point of Collection	Collection Date (2008)	Collection Time	Sampled By	Matrix	# of bottles	Preservation HCL	NaOH	HNO3	H2SO4	None	BTEX 8260B	MS/MSD BTEX 8260B
9	MW-11	9-15	9:50	RJ	GW	3	X					X	
	~~MW-12~~				~~GW~~	~~3~~	~~X~~					~~X~~	NOT SAMPLED
10	MW-13	9-15	12:15	RJ	GW	3	X					X	
11	Dup	9-15	—	RJ	GW	3	X					X	
													X

Turnaround Information

- [ ] 21 Day Standard
- [ ] 14 Day
- [x] 7 Days EMERGENCY
- [ ] Other _____ (Days)

Approved By:

RUSH TAT is for FAX data unless previously approved.

Data Deliverable Information

- [ ] NJ Reduced
- [ ] NJ Full
- [ ] FULL CLP
- [ ] Disk Deliverable
- [ ] Other (Specify)
- [ ] Commercial "A"
- [ ] Commercial "B"
- [ ] ASP Category B
- [ ] State Forms

Comments / Remarks

email results to:
mstewart@aecdenver.com
rozanne@valornet.com

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
1 [signature]	9-17-2008 16:30	2 [signature] (mail services)	2		2
Relinquished by Sampler: 3	Date Time:	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time: 09/18/03 0420	Received By: 5 [signature]	Seal #	Preserved where applicable	On Ice: 2.6

T23869: Chain of Custody
Page 2 of 4

SAMPLE INSPECTION FORM

Accutest Job Number: T23869 Client: AEC Project: Linam Ranch

Date/Time Received: 09/18/08 # of Coolers Received: 1 Thermometer # IR1

Cooler Temps: #1: 2.6 #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

Method of Delivery: (FEDEX) UPS Accutest Courier Greyhound Delivery Other

Airbill Numbers: 8063 2464 2313

COOLER INFORMATION

- [ ] Custody seal missing or not intact
- [ ] Temperature criteria not met
- [ ] Wet ice received in cooler

CHAIN OF CUSTODY

- [ ] Chain of Custody not received
- [ ] Sample D/T unclear or missing
- [ ] Analyses unclear or missing
- [ ] COC not properly executed

SAMPLE INFORMATION

- [ ] Sample containers received broken
- [ ] VOC vials have headspace
- [ ] Sample labels missing or illegible
- [ ] ID on COC does not match label(s)
- [ ] D/T on COC does not match label(s)
- [ ] Sample/Bottles rcvd but no analysis on COC
- [ ] Sample listed on COC, but not received
- [ ] Bottles missing for requested analysis
- [ ] Insufficient volume for analysis
- [ ] Sample received improperly preserved

TRIP BLANK INFORMATION

- [ ] Trip Blank on COC but not received
- [ ] Trip Blank received but not on COC
- [ ] Trip Blank not intact
- [ ] Received Water Trip Blank
- [ ] Received Soil TB

Number of Encores? _____
Number of 5035 kits? _____
Number of lab-filtered metals? _____

Summary of Discrepancies:

TECHNICIAN SIGNATURE/DATE: [signature] 09/18/08

INFORMATION AND SAMPLE LABELING VERIFIED BY: [signature] 9.18.08

CORRECTIVE ACTIONS

Client Representative Notified: _____ **Date:** _____

By Accutest Representative: _____ **Via:** Phone Email

Client Instructions:

i:\mwalker\forms\samplemanagement

3.1 (3)

T23869: Chain of Custody
Page 3 of 4

SAMPLE RECEIPT LOG

JOB #: T23869 DATE/TIME RECEIVED: 09/18/08 0720

CLIENT: AEC INITIALS: DB

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-1	09/15 1505	W	40mL	1-3	VR	2	<2	>12
	1	MW-1 MS/MSD	↓			4-9		2	<2	>12
	2	MW-2	09/15 1535			1-3		2	<2	>12
	3	MW-3	09/15 1115					2	<2	>12
	4	MW-5	09/15 1600					2	<2	>12
	5	MW-8	09/15 1650					2	<2	>12
	6	MW-9	09/15 1030					2	<2	>12
	7	MW-10	09/15 1400					2	<2	>12
	8	MW-10D	09/15 1305					2	<2	>12
	9	MW-11	09/15 0950					2	<2	>12
	10	MW-13	09/15 1215					2	<2	>12
	11	DUP	09/15					2	<2	>12
	12	TRIP BLANK	09/10 1605			1,2		2	<2	>12
									<2	>12
									<2	>12
		DB 09.18.08							<2	>12
									<2	>12
									<2	>12
									<2	>12
									<2	>12
									<2	>12

PRESERVATIVES: 1: None 2: HCL 3: HNO3 4: H2SO4 5: NAOH 6: DI 7: MeOH 8: Other

LOCATION: 1: Walk-In #1 (Waters) 2: Walk-In #2 (Soils) VR: Volatile Fridge M: Metals SUB: Subcontract EF: Encore Freezer

Rev 8/13/01 ewp

3.1 (3)

T23869: Chain of Custody
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ACCUTEST Laboratories T23869

4

GC/MS 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: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3101-MB	F009803.D	1	09/21/08	RR	n/a	n/a	VF3101

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-1, T23869-2, T23869-3, T23869-4, T23869-5, T23869-6, T23869-7, T23869-8, T23869-9, T23869-10, T23869-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	73-126%
17060-07-0	1,2-Dichloroethane-D4	104%	61-136%
2037-26-5	Toluene-D8	100%	80-125%
460-00-4	4-Bromofluorobenzene	102%	65-147%

Method Blank Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3102-MB	F009827.D	1	09/22/08	JL	n/a	n/a	VF3102

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-8, T23869-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	101%	73-126%
17060-07-0	1,2-Dichloroethane-D4	105%	61-136%
2037-26-5	Toluene-D8	100%	80-125%
460-00-4	4-Bromofluorobenzene	101%	65-147%

Method Blank Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1893-MB	Y0026858.D	1	09/24/08	JL	n/a	n/a	VY1893

4.1

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-4

CAS No.	Compound	Result	RL	MDL	Units	Q
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	99%	73-126%
17060-07-0	1,2-Dichloroethane-D4	99%	61-136%
2037-26-5	Toluene-D8	95%	80-125%
460-00-4	4-Bromofluorobenzene	95%	65-147%

Blank Spike Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3101-BS	F009800.D	1	09/21/08	RR	n/a	n/a	VF3101

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-1, T23869-2, T23869-3, T23869-4, T23869-5, T23869-6, T23869-7, T23869-8, T23869-9, T23869-10, T23869-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	29.1	116	41-145
100-41-4	Ethylbenzene	25	27.1	108	49-135
108-88-3	Toluene	25	28.1	112	66-128
1330-20-7	Xylene (total)	75	82.0	109	67-122

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	99%	73-126%
17060-07-0	1,2-Dichloroethane-D4	105%	61-136%
2037-26-5	Toluene-D8	100%	80-125%
460-00-4	4-Bromofluorobenzene	100%	65-147%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VF3102-BS	F009824.D	1	09/22/08	JL	n/a	n/a	VF3102
VF3102-BSD	F009825.D	1	09/22/08	JL	n/a	n/a	VF3102

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-8, T23869-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	25	24.2	97	23.8	95	2	41-145/30
100-41-4	Ethylbenzene	25	22.5	90	22.1	88	2	49-135/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	98%	102%	73-126%
17060-07-0	1,2-Dichloroethane-D4	102%	104%	61-136%
2037-26-5	Toluene-D8	100%	100%	80-125%
460-00-4	4-Bromofluorobenzene	100%	100%	65-147%

Blank Spike Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1893-BS	Y0026856.D	1	09/24/08	JL	n/a	n/a	VY1893

4.4

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-4

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
100-41-4	Ethylbenzene	25	20.0	80	49-135

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	73-126%
17060-07-0	1,2-Dichloroethane-D4	86%	61-136%
2037-26-5	Toluene-D8	87%	80-125%
460-00-4	4-Bromofluorobenzene	88%	65-147%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23869-1MS	F009807.D	1	09/21/08	RR	n/a	n/a	VF3101
T23869-1MSD	F009808.D	1	09/21/08	RR	n/a	n/a	VF3101
T23869-1	F009806.D	1	09/21/08	RR	n/a	n/a	VF3101

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-1, T23869-2, T23869-3, T23869-4, T23869-5, T23869-6, T23869-7, T23869-8, T23869-9, T23869-10, T23869-11

CAS No.	Compound	T23869-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	31.3	125	30.6	122	2	60-131/12
100-41-4	Ethylbenzene	ND		25	29.4	118	28.4	114	3	58-127/13
108-88-3	Toluene	ND		25	30.7	123	29.4	118	4	67-123/11
1330-20-7	Xylene (total)	ND		75	88.6	118	85.4	114	4	62-125/14

CAS No.	Surrogate Recoveries	MS	MSD	T23869-1	Limits
1868-53-7	Dibromofluoromethane	93%	97%	98%	73-126%
17060-07-0	1,2-Dichloroethane-D4	104%	105%	99%	61-136%
2037-26-5	Toluene-D8	101%	101%	102%	80-125%
460-00-4	4-Bromofluorobenzene	100%	100%	102%	65-147%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23839-7MS	F009843.D	1	09/22/08	JL	n/a	n/a	VF3102
T23839-7MSD	F009844.D	1	09/22/08	JL	n/a	n/a	VF3102
T23839-7	F009829.D	1	09/22/08	JL	n/a	n/a	VF3102

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-8, T23869-11

CAS No.	Compound	T23839-7 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	30.6	122	31.3	125	2	60-131/12
100-41-4	Ethylbenzene	ND		25	24.3	97	24.6	98	1	58-127/13

CAS No.	Surrogate Recoveries	MS	MSD	T23839-7	Limits
1868-53-7	Dibromofluoromethane	106%	97%	105%	73-126%
17060-07-0	1,2-Dichloroethane-D4	112%	108%	110%	61-136%
2037-26-5	Toluene-D8	100%	101%	99%	80-125%
460-00-4	4-Bromofluorobenzene	100%	99%	102%	65-147%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T23869
Account: AECCOLI American Environmental Consulting
Project: DCP Midstream- Linham Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T23908-1MS	Y0026862.D	500	09/24/08	JL	n/a	n/a	VY1893
T23908-1MSD	Y0026863.D	500	09/24/08	JL	n/a	n/a	VY1893
T23908-1	Y0026860.D	500	09/24/08	JL	n/a	n/a	VY1893

The QC reported here applies to the following samples: Method: SW846 8260B

T23869-4

CAS No.	Compound	T23908-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
100-41-4	Ethylbenzene	1000	U	12500	10800	86	10200	82	6	58-127/13

CAS No.	Surrogate Recoveries	MS	MSD	T23908-1	Limits
1868-53-7	Dibromofluoromethane	113%	106%	104%	73-126%
17060-07-0	1,2-Dichloroethane-D4	112%	104%	106%	61-136%
2037-26-5	Toluene-D8	107%	100%	103%	80-125%
460-00-4	4-Bromofluorobenzene	100%	94%	101%	65-147%

370 17th Street, Suite 2500
Denver, Colorado 80202
303-605-1893 – main
303-605-1957 – fax

RECEIVED
2008 MAY 30 PM 1 38

May 28, 2008

Mr. Wayne Price
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: 1st Quarter 2008 Semi Annual Groundwater Monitoring Report
DCP Linam Ranch Gas Plant (GW-015)
Unit B, Section 6, Township 19 South, Range 37 East

Dear Mr. Price:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the First Quarter 2008 Semi Annual Groundwater Monitoring Report for the DCP Linam Ranch Gas Plant located in Lea County, New Mexico (Unit B Section 6, Township 19 South, Range 37 East).

The groundwater sampling event was originally scheduled to be completed in March, 2008, but due to onsite construction, the groundwater sampling event was completed on April 30, 2008.

The data indicate that the groundwater conditions remain stable. The next monitoring event is scheduled for the end of Third Quarter 2008.

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@dcpmidstream.com .

Sincerely,

DCP Midstream, LP

Stephen Weathers, P.G.
Sr. Environmental Specialist

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

RECEIVED
2008 MAY 30 PM 1 38

May 23, 2008

Mr. Stephen Weathers
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Summary of First Quarter 2008 SemiAnnual Groundwater Monitoring Event at the Linam Ranch Gas Plant, Lea County, New Mexico
GW-015: Unit B, Section 6, Township 19 South, Range 37 East

Dear Steve:

This letter summarizes the activities completed and data generated during the first quarter 2008 semiannual groundwater-sampling event at the DCP Midstream, LP (DCP) Linam Ranch Gas Plant in Lea County New Mexico. The facility is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 6, Township 19 South, Range 37 East (Figure 1). The coordinates are 32.6965 degrees north, 103.2883 degrees west. The facility is an active gas-processing plant.

The 14 monitoring well locations are shown on Figure 2. Construction information is included in Table 1. Well MW-12 can no longer be monitored because of DCP safety concerns. It is directly adjacent to the main flare, and the flare can ignite without warning. The down-gradient area in this vicinity is adequately monitored by MW-9 and MW-13.

The sampling was completed on April 30, 2008. Sampling had to be postponed because a major construction project at the plant limited access. The event included the measurement of fluid levels in all monitoring wells and the sampling of all wells that did not contain measurable free phase hydrocarbons (FPH).

The fluid measurements, FPH thicknesses and corrected groundwater elevations are summarized in Table 2. The water-table elevations for the wells containing FPH were estimated using the following formula:

$GWE_{corr} = MGWE + (FPHT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.81 based upon historic data).

The historic water-table elevation data are summarized in Table 3. Hydrographs for select wells throughout the study area are included on Figure 3. The water table declined or remained stable. The water table in MW-2 remained elevated for the second monitoring event.

The historical FPH thickness values in MW-4 and MW-6 are graphed in Figure 4. The FPH thickness decreased in MW-4 and increased in MW-6. FPH was removed from MW-4 and MW-6 between April 1998 and August 2004. Only 12.2 gallons were removed from MW-4 and 14.3 gallons were removed from MW-6 over this 76-month period. This limited volume indicates that the FPH is relatively immobile and difficult to remove. DCP is currently evaluating alternative removal schemes that could be safely implemented within an active gas-processing plant.

A water-table contour map for the April 2008 data was generated using the program Surfer with its kriging option (Figure 5). Note that well MW-7 was not included in this map. The water-table elevation in MW-7 is lower than those measured in the wells in the central area (MW-1, MW-4, MW-5 and MW-6). Including this well results in a water-table configuration that suggests radial flow from the center of the property. Well MW-7 has never contained measurable benzene, toluene, ethylbenzene or xylenes. This lack of impacts suggests that the relatively higher water table measured in the central part of the site is localized so the contours should not be carried to the northwest.

The water-table contours shown on Figure 5 exhibit a radial groundwater flow pattern because of the high water table that was measured in MW-2. This change deflects the groundwater flow toward the north and the eastern property boundary.

The analytical results are summarized in Table 4, and the laboratory report is attached. The quality control evaluation is summarized in the bottom of Table 4. The results can be summarized as follows:

- There were no BTEX detections in the trip blank.
- The relative percentage difference (RPD) values for the detected constituents were less than 10 percent.
- All of the individual surrogate spikes were within their respective ranges.
- The laboratory the matrix spike and matrix spike duplicate analysis were all within their respective control limits.

The above facts establish that the data is suitable for all intended uses.

The constituents that exceed the potentially applicable New Mexico Water Quality Control Commission groundwater standards are highlighted in Table 4. The samples from wells MW-5, MW-10 and MW-10D only exceeded the benzene standard. None of the other wells, including down-gradient boundary wells MW-2, MW-8, MW-9 and MW-13 contained BTEX constituents above the method reporting limits.

Benzene isopleths generated by the Surfer program using the kriging option are plotted on Figure 6 for the April 2008 data. Figure 6 establishes the following facts:

1. Any of the dissolved-phase BTEX constituents that emanate from the FPH in MW-4 and MW-6 attenuate to concentrations that are at or below the method reporting limits before encountering any of the boundary wells.
2. The elevated dissolved-phase BTEX constituents that are measured at MW-10 and MW-10D attenuate to concentrations that are below the method reporting limits at the interior down gradient wells MW-9 and MW-13.
3. The patterns described in the above two bullets have remained constant since the middle of 2001.

The above data establishes that dissolved-phase releases from the FPH in this area attenuate to below the method reporting (and detection) limits approximately 1,000 feet from the nearest down-gradient property boundary.

The historical data for all wells is summarized in Table 5 for benzene, Table 6 for toluene, Table 7 for ethylbenzene and Table 8 for total xylenes. Graphs of benzene concentrations verses time are included for MW-10 in Figure 7. This graph indicates that the benzene concentration in MW-10 have continued to decline since September 2006.

Time-benzene graphs for MW-9, MW-10D and MW-11 are included in Figure 8. Examination of these graphs indicates that benzene was not detected in MW-9 and MW-11 above the 0.001 method reporting limit since March 2006 for MW-9 and since March 2005 for MW-11.

The benzene concentration decreased slightly in MW-10D. The current concentration is well below the historic high value.

A benzene-time graph for MW-5, located upgradient from MW-4 and MW-6, is included as Figure 9. The benzene concentration declined for the third straight monitoring episode to the point where it is only slightly above the NMWQCC groundwater standard.

The above results, particularly the lack of detectable BTEX in the down-gradient wells, indicates that the plume is not expanding past its historic limits. Moreover, the land to the east owned by DCP provides an additional down-gradient buffer from the facility boundary to the property boundary (Figure 7).

The next semi-annual groundwater-monitoring episode is scheduled for the third quarter of 2008. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, PE
Principal Engineer

MHS/tbm

attachment

TABLES

Table 1 – Linam Ranch Gas Plant Well Construction Summary

Well	Well Elevation (Top of Casing)	Well Depth (TOC)	Well Diameter
	(feet)	(feet)	(inches)
MW-1	3718.29	54.20	2
MW-2	3714.80	50.50	2
MW-3	3715.50	55.30	2
MW-4	3720.46	54.13	4
MW-5	3721.53	55.20	4
MW-6	3720.99	54.10	4
MW-7	3728.57	62.50	2
MW-8	3714.18	58.30	4
MW-9	3720.48	59.10	2
MW-10	3720.76	65.00	4
MW-10D	3720.85	79.00	2
MW-11	3722.02	62.80	4
MW-12	Inaccessible because of safety concerns		
MW-13	3721.63	63.00	4

Table 2 –Linam Ranch Gas Plant April 30, 2008 Fluid Gauging Data

Well	Depth to Water	Depth to Product	Free Phase Hydrocarbon Thickness	Corrected Water Table Elevation
MW-1	42.61			3677.57
MW-2	23.50			3693.74
MW-3	46.44			3671.26
MW-4	46.23	45.89	0.34	3676.48
MW-5	46.62			3676.98
MW-6	49.26	46.45	2.81	3675.96
MW-7	58.75			3672.09
MW-8	35.08			3681.10
MW-9	49.89			3672.59
MW-10	48.82			3674.08
MW-10D	50.96			3672.58
MW-11	50.71			3673.82
MW-12	Inaccessible because of safety concerns			
MW-13	51.49			3672.50

All units are feet

Table 3 - Linam Ranch Gas Plant Summary of Historic Groundwater Elevation Data (feet)

Well	12/1/92	5/22/94	5/17/95	11/14/95	1/17/96	4/24/96	1/22/97	8/15/97	1/22/98	7/20/98	2/9/99	8/24/99	2/21/00	8/17/00	2/6/01
MW-1		3676.28	3674.68		3676.23	3675.37	3674.45	3674.63	3674.19	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99
MW-2		3682.29	3673.49				3673.19		3672.80	3672.37	3672.41	3674.43	3672.68	3679.43	3674.05
MW-3		3671.47	3670.72	3671.30		3671.13	3670.47		3669.96	3669.80	3669.59	3669.68	3669.51	3669.68	3669.48
MW-4	3677.10	3676.96	3675.43	3675.75	3676.27	3675.50	3674.29	3674.12	3674.52	3673.76	3674.45	3675.44	3675.81	3676.07	3675.39
MW-5	3677.65	3677.33	3675.43	3676.62	3676.23	3675.51	3674.35	3673.96	3674.74	3674.21	3674.84	3675.47	3675.84	3675.66	3675.24
MW-6	3676.87	3676.70	3674.87	3676.80	3676.18	3676.37	3674.21	3673.91	3674.21	3673.59	3673.84	3674.86	3675.11	3675.61	3674.75
MW-8		3674.83	3672.73		3674.47	3673.36	3672.78	3672.04	3671.87	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60
MW-9		3672.89	3671.88	3672.46	3672.64	3672.40	3671.52	3671.14	3671.00	3670.90	3670.67	3670.89	3670.78	3670.92	3670.86
MW-10			3672.45	3673.05	3673.08	3672.75	3671.78	3671.41	3671.33	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36
MW-10D			3672.16	3672.91	3672.81	3672.36	3671.43	3671.07	3671.13	3670.99	3670.78	3671.03	3670.98	3671.29	3670.97
MW-11			3673.03	3674.19	3673.88	3673.31	3672.21	3671.81	3672.01	3671.88	3671.68	3672.06	3672.09	3672.47	3672.22
MW-12			3672.37	3673.32	3673.25	3672.75	3671.74	3671.40	3671.34	3671.18	3671.00	3671.59	3671.33	3671.86	3671.50
MW-13			3672.02	3672.57	3672.66	3672.34	3671.43	3671.05	3670.93	3670.80	3670.60	3670.94	3670.74	3671.04	3670.88

Well	8/2/01	3/11/02	9/25/02	3/8/03	9/17/03	3/16/04	8/17/04	3/15/05	9/29/05	3/22/06	9/21/06	3/20/07	9/28/07	4/30/08
MW-1	3674.81	3674.04	3674.43	3674.32	3673.80	3674.30	3676.59	3682.86	3684.83	3684.08	3682.25	3677.05	3677.62	3677.57
MW-2	3672.69	3672.07	3672.26	3672.21	3671.69	3671.26	3679.10	3679.39	3678.22	3676.04	3681.68	3674.88	3693.79	3693.74
MW-3	3669.31	3669.14	3669.03	3669.06	3668.87	3668.63	3669.00	3671.37	3671.52	3671.63	3672.00	3671.45	3671.31	3671.26
MW-4	3674.80	3674.59	3675.13	3674.60	3674.16	3674.04	3675.77	3681.85	3682.38	3682.04	3680.94	3677.98	3677.77	3676.48
MW-5	3674.82	3675.07	3674.99	3674.81	3674.32	3674.32	3674.32	3680.24	3680.65	3680.66	3680.23	3678.70	3677.03	3676.98
MW-6	3674.15	3674.30	3674.61	3674.12	3673.55	3673.07	3674.68	3680.13	3677.46	3677.42	3677.37	3677.70	3677.21	3675.96
MW-8	3671.26	3671.51	3671.59	3671.59	3670.71	3670.67	3673.30	3676.74	3677.01	3675.71	3677.09	3674.32	3681.16	3672.09
MW-9	3670.62	3670.61	3670.61	3670.68	3670.48	3670.15	3670.28	3673.36	3673.66	3674.00	3673.41	3673.42	3672.65	3681.10
MW-10	3671.06	3671.10	3671.13	3671.17	3670.87	3670.52	3670.84	3674.42	3674.35	3674.69	3674.13	3673.99	3673.14	3674.08
MW-10D	3670.76	3670.84	3670.81	3670.85	3670.46	3670.28	3670.51	3673.72	3674.03	3674.05	3673.75	3674.92	3672.70	3672.59
MW-11	3671.79	3672.02	3672.05	3672.00	3671.49	3671.02	3671.67	3675.45	3675.54	3675.68	3675.30	3674.52	3673.80	3672.58
MW-12	3671.07	3671.01	3671.09	3671.15	3670.81	3670.36	3671.10	3674.97	3674.46	3674.64	3674.52	NS	NS	NS
MW-13	3670.58	3670.50	3670.50	3670.57	3670.32	3669.95	3670.31	3673.69	3673.61	3673.56	3673.50	3677.05	3672.57	3672.50

NS: Not sampled due to safety concerns

Table 4 –Linam Ranch Gas Plant April 30, 2007 Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC	0.01	0.75	0.75	0.62
MW-1	<0.002	<0.002	<0.002	<0.006
MW-2	<0.002	<0.002	<0.002	<0.006
MW-3	<0.002	<0.002	<0.002	<0.006
MW-5	**0.0108**	<0.002	0.184	0.0039J
MW-5 Dup	**0.0107**	<0.002	0.179	0.0039J
MW-7	<0.002	<0.002	<0.002	<0.006
MW-8	<0.002	<0.002	<0.002	<0.006
MW-9	<0.002	<0.002	<0.002	<0.006
MW-10	**0.769**	0.0457	0.0851	0.05
MW-10d	**0.195**	0.0677	0.0144	0.0221
MW-11	<0.002	<0.002	<0.002	<0.006
MW-12	Not sampled due to safety concerns			
MW-13	<0.002	<0.002	<0.002	<0.006
Trip Blank	<0.002	<0.002	<0.002	<0.006

NMWQCC: New Mexico Water Quality Control Commission groundwater standards.
Bolded cells exceed the potentially-applicable NMWQCC standard
All units mg/l

Quality Assurance Evaluation for the April 2008 Data

MW-5 Duplicate Samples

	Benzene	Toluene	Ethylbenzene	Total Xylenes
RPD (%)	0.9%	NA	2.8%	0.0%

RPD: Relative percentage difference
NA: Not analyzed because one or both of the constituents are below their method reporting limit(s).

MW-2 MS/MSD (percent recovery)

	Benzene	Toluene	Ethylbenzene	Total Xylenes
MS	97	96	98	95
MSD	97	97	97	93

MS: matrix spike
MSD: matrix spike duplicate

Table 5 - Linam Ranch Gas Plant Summary of Historical Results for Benzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0053	<0.001	<0.001											
11/3/1992	0.0015			16.0	0.003	0.34								
12/2/1992	0.0013			17.0	0.009	0.52								
1/12/1994	0.0039			18.0	0.300	0.77		<0.001						
5/17/1995	<0.002	<0.001	<0.001	20.9	0.090	0.98	<0.001	<0.001	<0.001	3.225	0.096	<0.001	<0.001	<0.001
11/14/1995									<0.001	5.23	0.125	0.306	<0.001	0.003
1/17/1996									0.001	6.11	0.841	0.549	<0.001	<0.001
4/24/1996									<0.001	6.94	8.14	0.52	<0.001	<0.001
1/22/1997									<0.001	6.41	0.365	0.267	<0.001	0.048
8/15/1997									<0.001	5.63	0.221	0.164	0.001	0.132
1/22/1998									<0.001	7.03	<0.001	0.291	<0.001	0.082
7/20/1998									<0.001	7.18	0.184	0.061	0.002	0.061
2/9/1999			<0.001						0.011	4.87	0.009	0.018	0.001	0.082
8/25/1999	<0.005	<0.005	<0.001		0.137		<0.005	<0.001	<0.005	5.58	0.036	0.005	0.003	0.062
2/22/2000	<0.005	<0.005	<0.001		0.068		<0.005	<0.005	0.014	2.35	0.014	0.02	<0.001	0.08
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	0.002	0.036	3.11	<0.005	0.009	<0.005	0.04
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	1.23	<0.005	0.013	<0.001	0.023
8/2/2001	0.003	0.007	0.002		<0.005		<0.005	<0.001	0.038	1.64	<0.001	0.002	<0.001	0.002
3/11/2002	<0.001	<0.001	<0.001	17.9	0.062		<0.001	<0.001	0.048	3.26	0.002	0.005	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	18.8	0.381	1.29	<0.005	<0.001	0.071	3.48	<0.001	0.002	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	16.9	0.079	0.16	<0.005	<0.001	0.077	4.21	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	15.8	0.116		<0.001	<0.005	<0.005	1.34	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	17.8	0.146		<0.001	<0.001	<0.001	0.456	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	16.6	0.012		<0.001	<0.001	<0.001	1.3	0.011	0.003	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.262		<0.001	<0.001	0.0061	3.91	0.107	0.0264	<0.001	<0.001
9/29/2005	0.0067	<0.001	<0.001		0.63		<0.001	<0.001	0.0029	1.67	0.0703	<0.001	<0.001	<0.001
3/22/2006	0.0028	<0.001	<0.001		0.569		<0.001	<0.001	0.0023	1.48	0.224	<0.001	<0.005	<0.001
9/21/2006	0.0011	<0.001	<0.001		1.06		<0.001	<0.001	0.001	1.19	0.0537	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.252		<0.001	<0.001	<0.001	1.13	0.0736	<0.001	NS	<0.001
9/28/2007	<0.001	<0.001	<0.001		0.07375		<0.001	<0.001	<0.001	1.18	0.218	<0.001	NS	<0.001
4/30/2008	<0.002	<0.002	<0.002		0.0108		<0.002	<0.002	<0.002	0.769	0.195	<0.002	NS	<0.002

All units mg/l and duplicate values are averaged.
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

Table 6 - Linam Ranch Gas Plant Summary of Historical Results for Toluene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0067	<0.001	0.0021											
11/3/1992	0.0015			8.0	0.0034	0.023								
12/2/1992	0.0014			8.2	0.0041	0.020								
1/12/1994	<0.001			10.0	0.190	0.0029		<0.005						
5/17/1995	<0.002	<0.001	<0.001	1.35	0.014	0.007	<0.001	<0.001	<0.001	0.052	0.004	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.001	0.001	<0.001	<0.001	<0.001
1/17/1996									<0.001	0.863	0.001	0.004	<0.001	<0.001
4/24/1996									<0.001	<0.010	0.046	<0.002	<0.001	<0.001
1/22/1997									<0.001	1.63	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	1.35	<0.01	<0.001	<0.001	<0.001
1/22/1998									<0.001	1.93	<0.001	0.004	<0.001	<0.001
7/20/1998									<0.001	2.34	0.014	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.32	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.037		<0.005	<0.001	<0.005	0.658	<0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		<0.005		<0.005	<0.005	<0.005	0.129	<0.005	<0.001	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	<0.001	<0.005	0.025	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.082	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	<0.100	<0.001		<0.001	<0.001	<0.001	0.178	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	<0.050	<0.050	<0.005	<0.001	<0.001	<0.100	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	<0.100	<0.050	<0.100	<0.005	<0.001	<0.001	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.001	<0.001	<0.010	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.303	0.0444	<0.005	<0.001	<0.001
9/29/2005	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.39	0.0453	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.254	0.0614	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.0069		<0.001	<0.001	<0.001	0.197	0.0378	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.212	0.0563	<0.001	NS	<0.001
9/28/2007	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.246	0.0902	<0.001	NS	<0.001
4/30/2008	<0.002	<0.002	<0.002		<0.002		<0.002	<0.002	<0.002	0.0457	0.0677	<0.002	NS	<0.002

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.:
Blank cells note samples for wells that were either not install or not sampled

Table 7 - Linam Ranch Gas Plant Summary of Historical Results for Ethylbenzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.001	<0.001	<0.001											
11/3/1992	<0.001			0.7	0.003	0.051								
12/2/1992	<0.001			0.53	0.0082	0.058								
1/12/1994	0.0021			0.5	0.160	0.096		<0.005						
5/17/1995	<0.002	<0.001	<0.001	<0.2	0.138	0.087	<0.001	<0.001	<0.001	0.049	<0.001	<0.001	<0.001	<0.001
11/14/1995									<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1/17/1996									<0.001	1.140	<0.001	0.002	<0.001	<0.001
4/24/1996									<0.001	1.190	1.170	<0.002	<0.001	<0.001
1/22/1997									<0.001	0.294	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	0.479	<0.01	0.002	<0.001	<0.001
1/22/1998									<0.001	0.802	<0.001	<0.001	<0.001	<0.001
7/20/1998									<0.001	0.777	0.008	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.516	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.262		<0.005	<0.001	<0.005	0.557	0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		0.13		<0.005	<0.005	<0.005	0.164	<0.005	0.002	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		0.006		<0.005	<0.001	<0.005	0.072	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		0.084		<0.005	<0.005	<0.005	0.102	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	0.119	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.450	0.097		<0.001	<0.001	<0.001	0.251	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	0.526	0.588	0.134	<0.005	<0.001	<0.001	0.290	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.520	0.072	0.148	<0.005	<0.001	<0.001	0.303	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	0.259	0.182		<0.001	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	0.512	0.241		<0.001	<0.001	<0.001	0.047	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	0.403	0.081		<0.001	<0.001	<0.001	0.119	0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.309		<0.001	<0.001	<0.001	0.888	0.0143	<0.005	<0.001	<0.001
9/29/2005	0.011	<0.001	<0.001		0.267		<0.001	<0.001	<0.001	0.238	0.0061	<0.001	<0.001	<0.001
3/22/2006	0.0013	<0.001	<0.001		0.239		<0.001	<0.001	<0.001	0.241	0.0295	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.407		<0.001	<0.001	<0.001	0.204	0.0075	<0.001	<0.001	<0.001
3/20/2007	<0.001	0.0022	0.0022		0.1975		<0.001	<0.001	<0.001	0.222	<0.001	<0.001	NS	<0.001
9/28/2007	<0.001	<0.001	<0.001		0.0374		<0.001	<0.001	<0.001	0.163	0.0212	<0.001	NS	<0.001
4/30/2008	<0.002	<0.002	<0.002		0.182		<0.002	<0.002	<0.002	0.0851	0.0144	<0.002	NS	<0.002

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

Table 8 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	<0.001	<0.001	<0.001											
11/3/1992	0.010			1.8	0.034	0.120								
12/2/1992	0.006			1.3	0.037	0.120								
1/12/1994	0.002			1.3	0.490	0.210		<0.005						
5/17/1995	<0.002	<0.001	<0.001	11.4	0.831	0.181	<0.001	<0.001	<0.001	0.169	0.008	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.406	0.011	0.013	<0.001	<0.001
1/17/1996									0.001	1.050	0.047	0.031	<0.001	<0.001
4/24/1996									<0.001	0.127	0.076	<0.002	<0.001	<0.001
1/22/1997									<0.001	8.97	<0.005	0.017	<0.001	<0.001
8/15/1997									<0.001	0.453	<0.01	0.007	<0.001	0.005
1/22/1998									<0.001	0.635	<0.001	0.015	<0.001	<0.001
7/20/1998									<0.001	0.606	0.006	0.010	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.372	<0.005	<0.001	<0.001	<0.001
8/25/1999	0.006	<0.005	<0.001		0.179		<0.005	<0.001	<0.005	0.359	0.002	<0.001	<0.001	<0.001
2/22/2000	0.006	<0.005	<0.001		0.09		<0.005	<0.005	<0.005	0.124	<0.005	0.008	<0.001	<0.001
8/18/2000	0.011	<0.001	<0.005		0.008		<0.005	<0.001	<0.005	0.038	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.086	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.166	<0.001		<0.001	<0.001	<0.001	0.550	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	0.112	0.058	<0.005	<0.001	0.002	0.155	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.151	<0.050	<0.100	<0.005	<0.001	0.003	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.044	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	0.005		<0.001	<0.001	0.012	0.023	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.00	<0.001	0.004	0.071	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.298		<0.001	<0.001	0.0049	1.09	0.0146	0.0115	<0.001	<0.001
9/29/2005	0.0081	<0.001	<0.001		0.327		<0.001	<0.001	<0.001	0.353	0.0119	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		0.296		<0.001	<0.001	<0.001	0.304	0.0267	<0.001	<0.005	<0.001
9/21/2006	0.0017	<0.001	<0.001		0.178		0.0015	<0.001	<0.001	0.238	0.0205	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.0221		<0.001	<0.001	0.0075	0.279	<0.001	<0.001	NS	<0.001
9/28/2007	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.213	0.0375	<0.001	NS	<0.001
4/30/2008	<0.006	<0.006		0.0039J		<0.006	<0.006	<0.006	0.05	0.0221	<0.006	NS	<0.006	<0.006

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

FIGURES

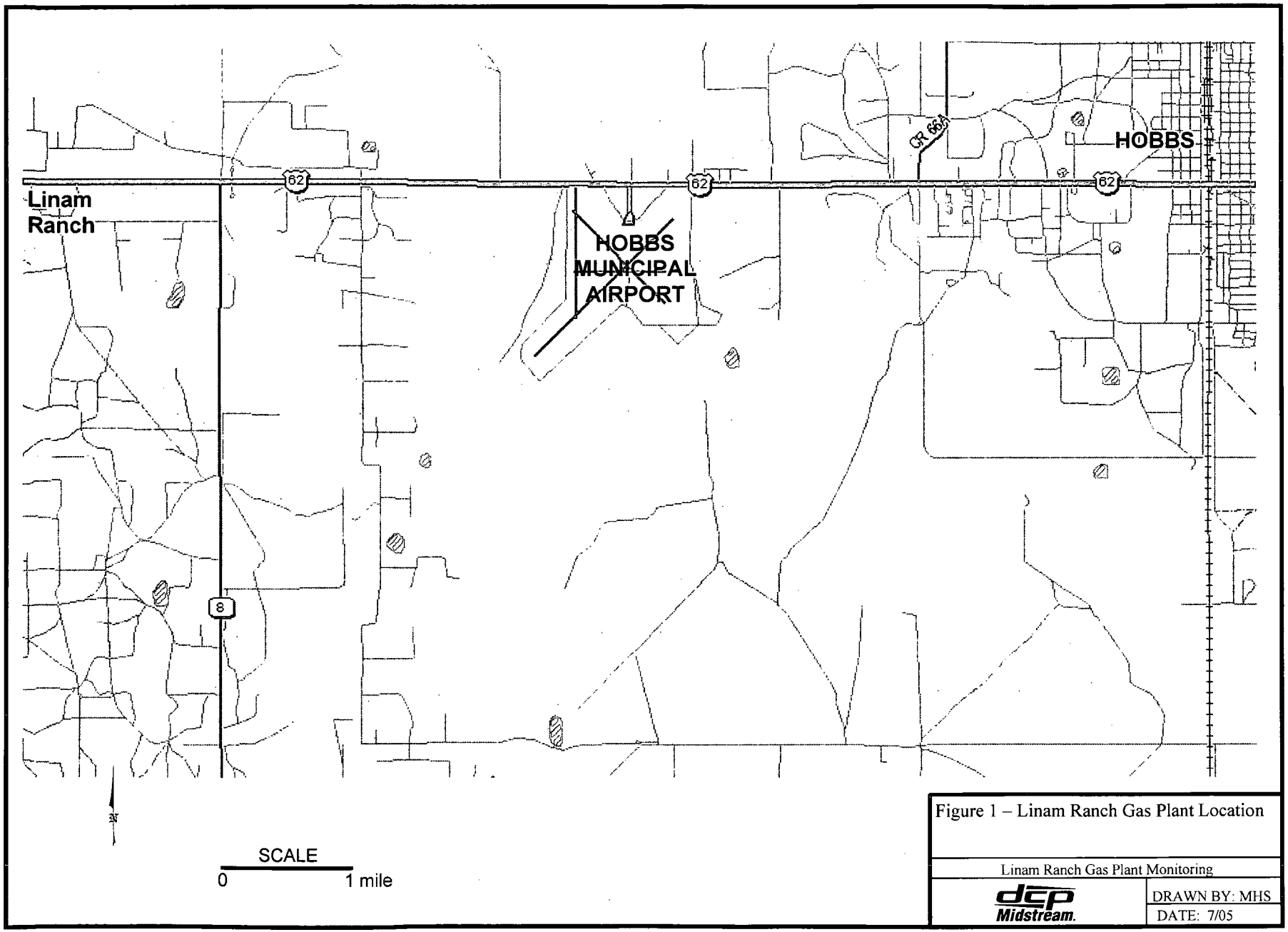


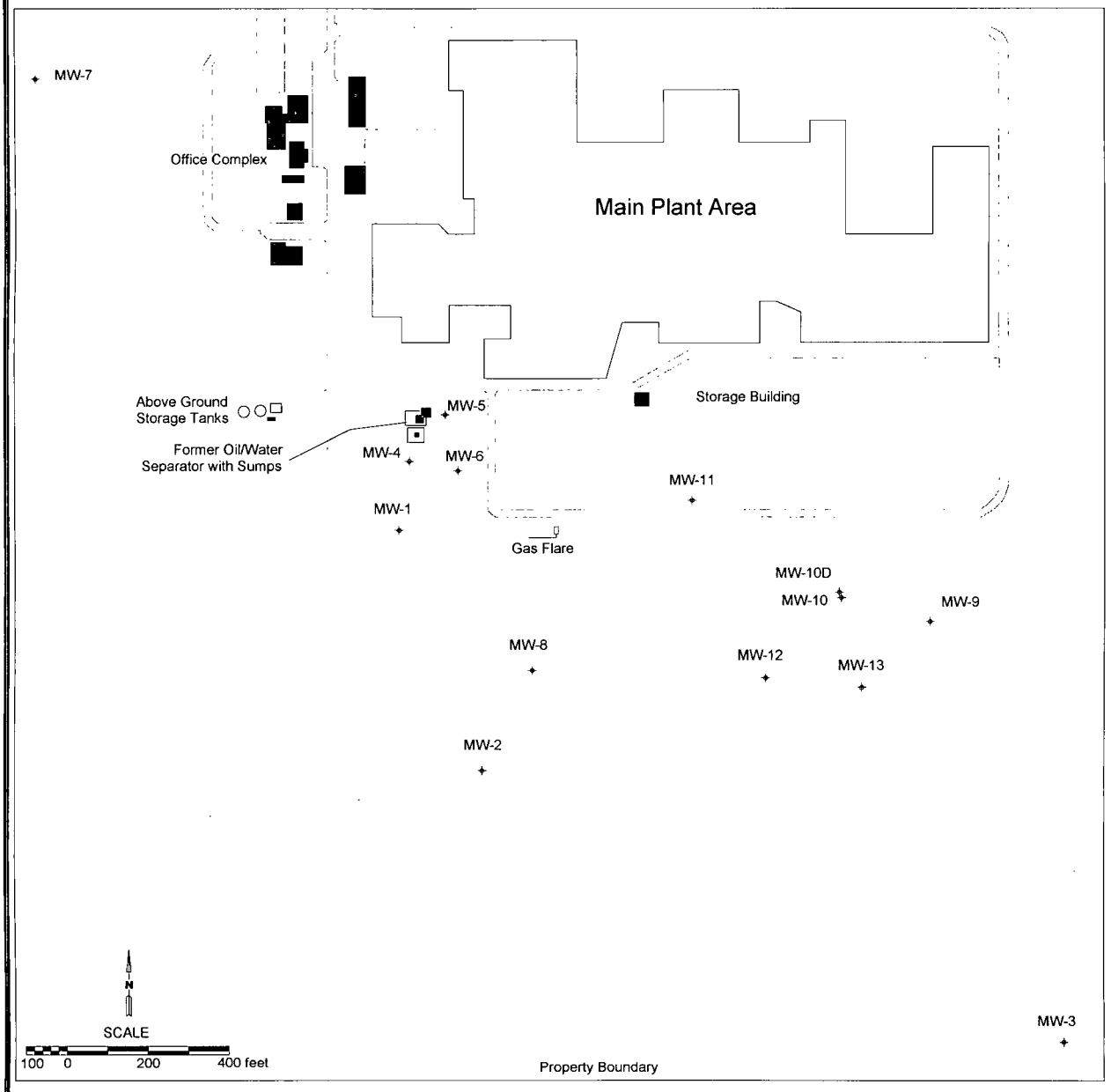
Figure 1 – Linam Ranch Gas Plant Location

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 7/05

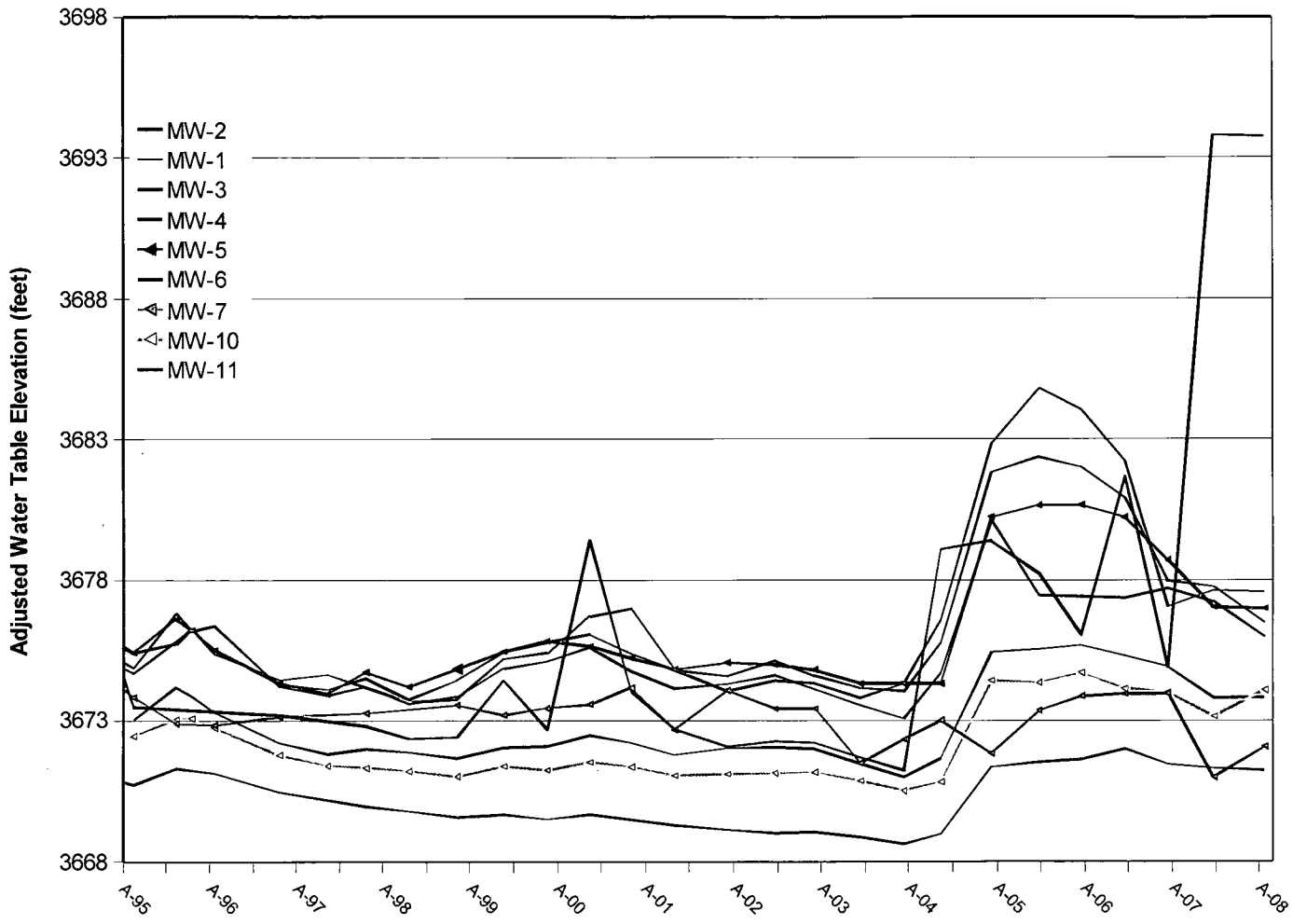


Note: MW-12 is no longer monitored because of its proximity to the main plant flare

Figure 2 – Monitor Well Locations
Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS
REVISED: 6/07
DATE: 6/07



Dates are April (A) and October (0)

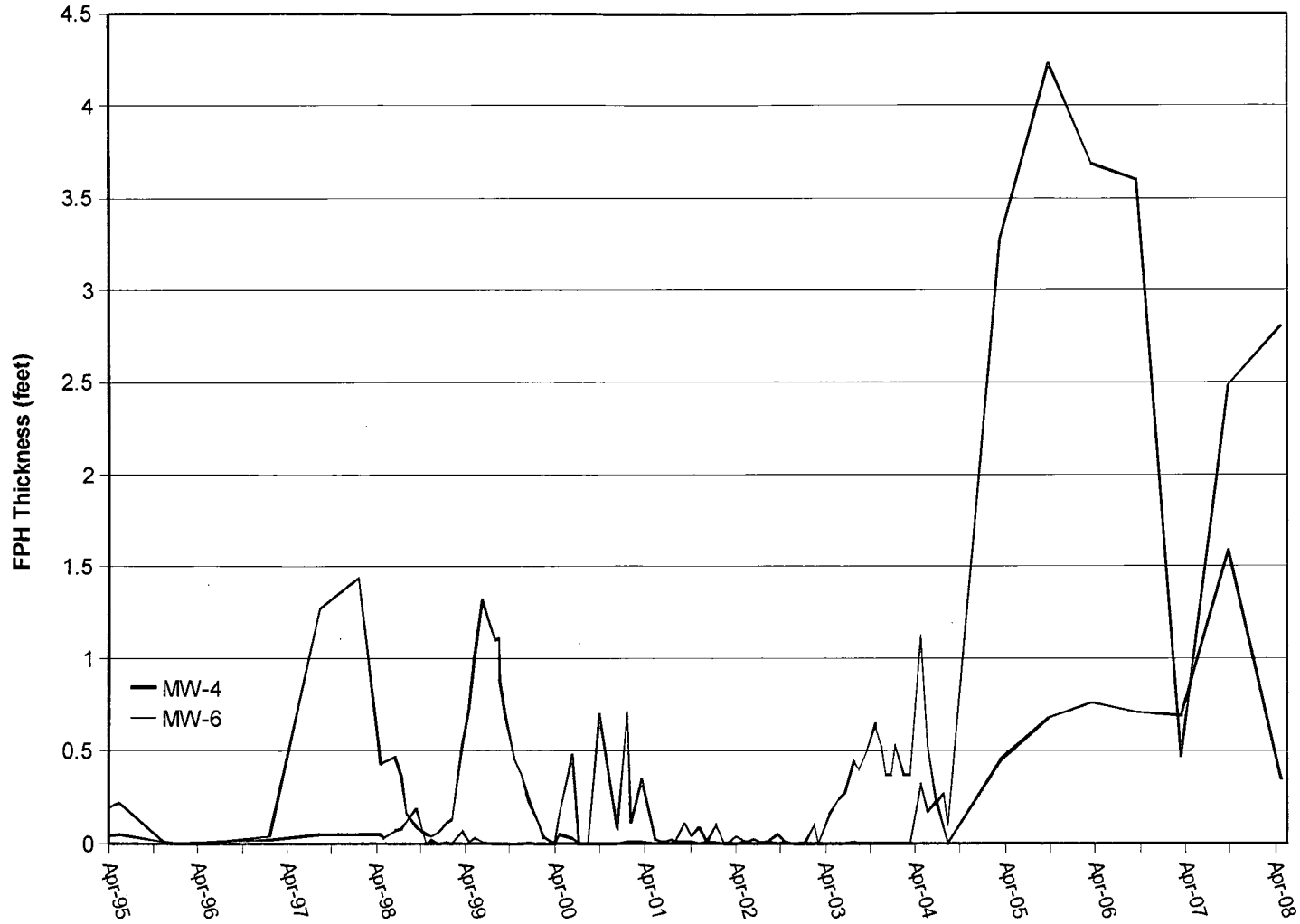
Figure 3 – Linam Ranch Gas Plant Hydrographs

Linam Ranch Gas Plant Monitoring

DCP Midstream.

DRAWN BY: MHS

DATE: 5/08



Dates are April (A) and October (0)

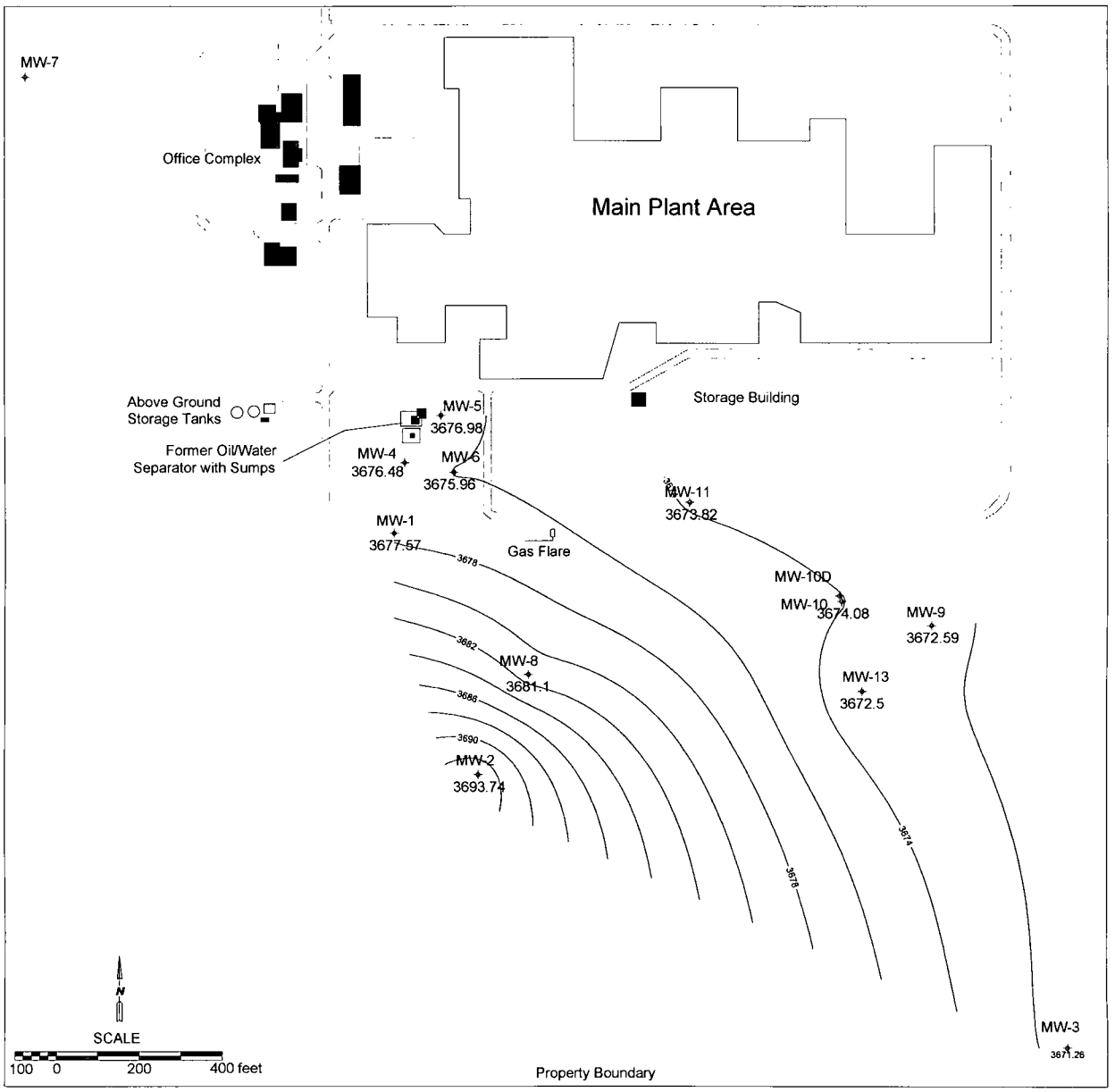
Figure 4 – Linam Ranch Free Phase Hydrocarbon Thickness

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 5/08



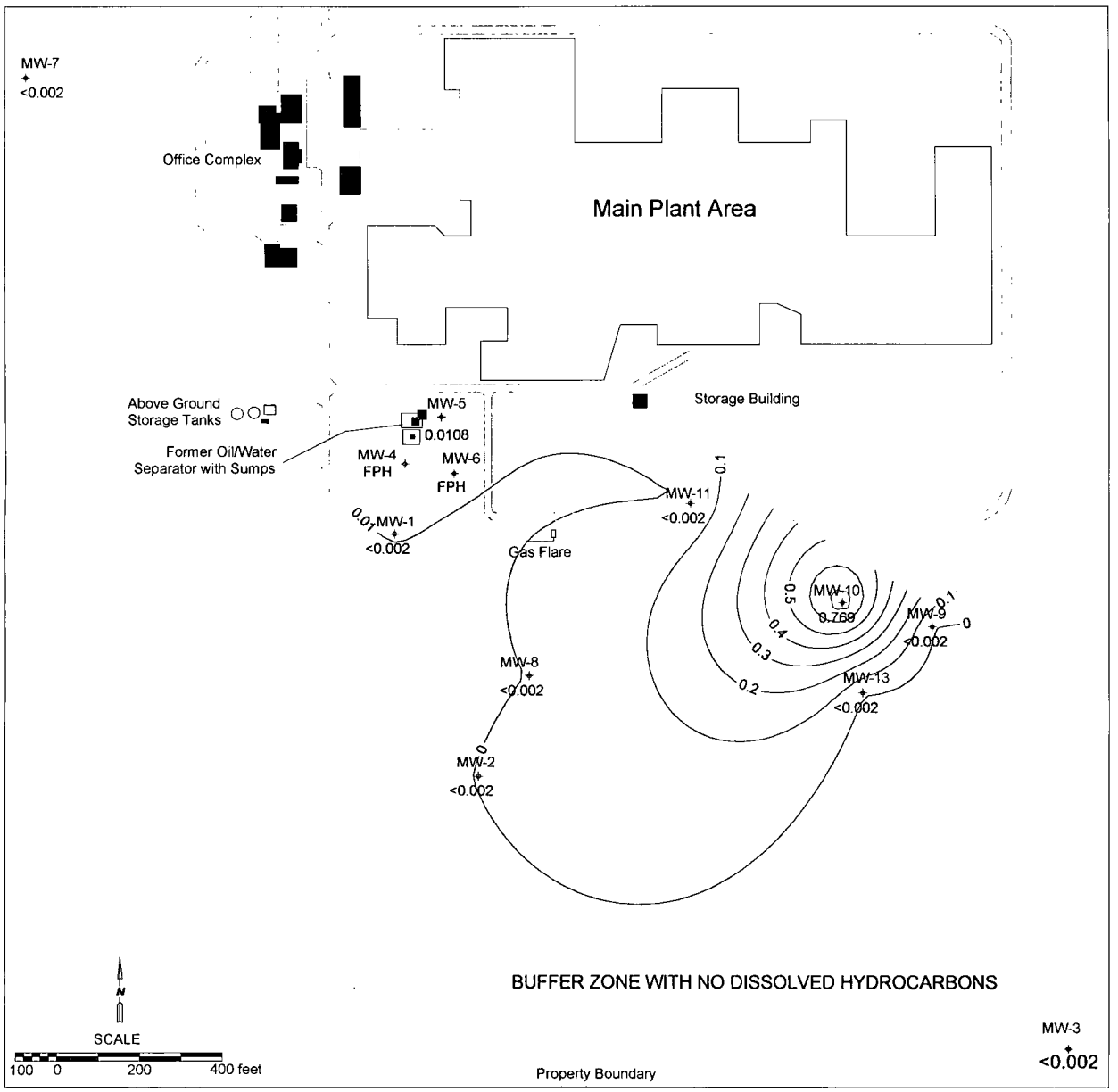
contour interval is 2 foot

Figure 5 – April 2008 Water Table Elevation Contours

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	5/08

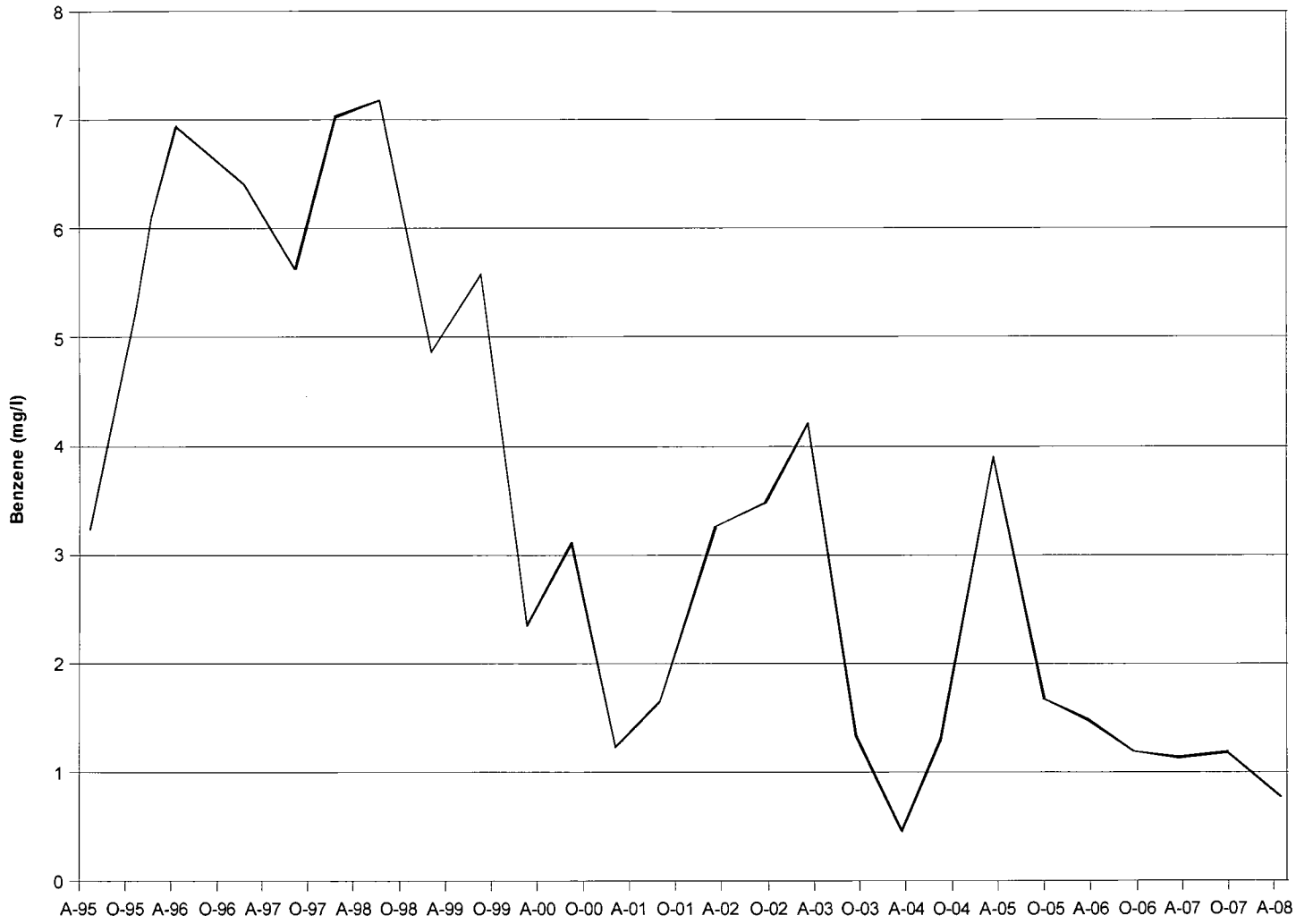


FPH: Free phase hydrocarbons
Contour interval is 0.1 mg/l

Figure 6 – March 2008 Benzene Distribution
Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	5/08



Dates are April (A) and October (0)

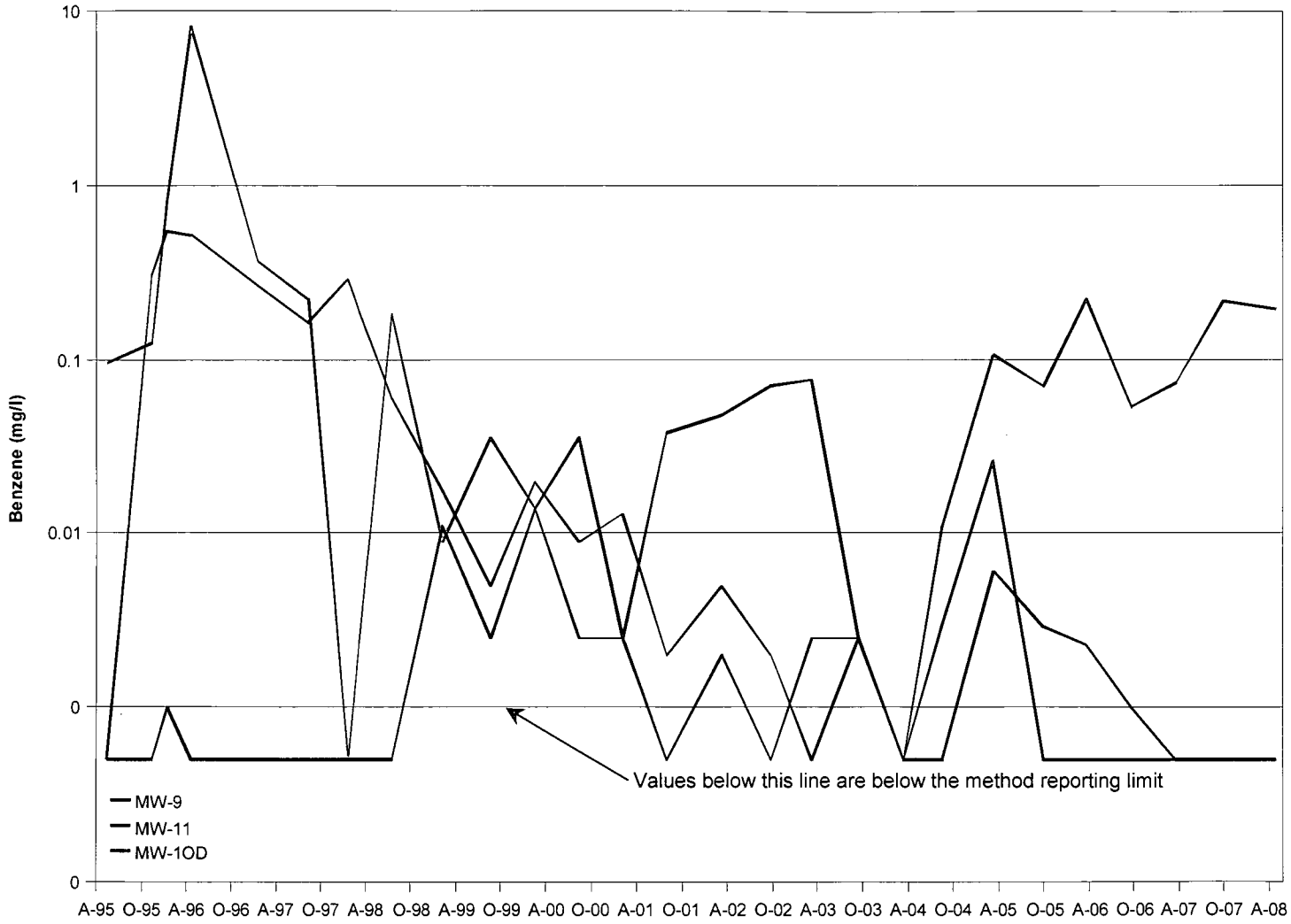
Figure 7 – Benzene Concentrations in MW-10

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 5/08



Dates are April (A) and October (0)

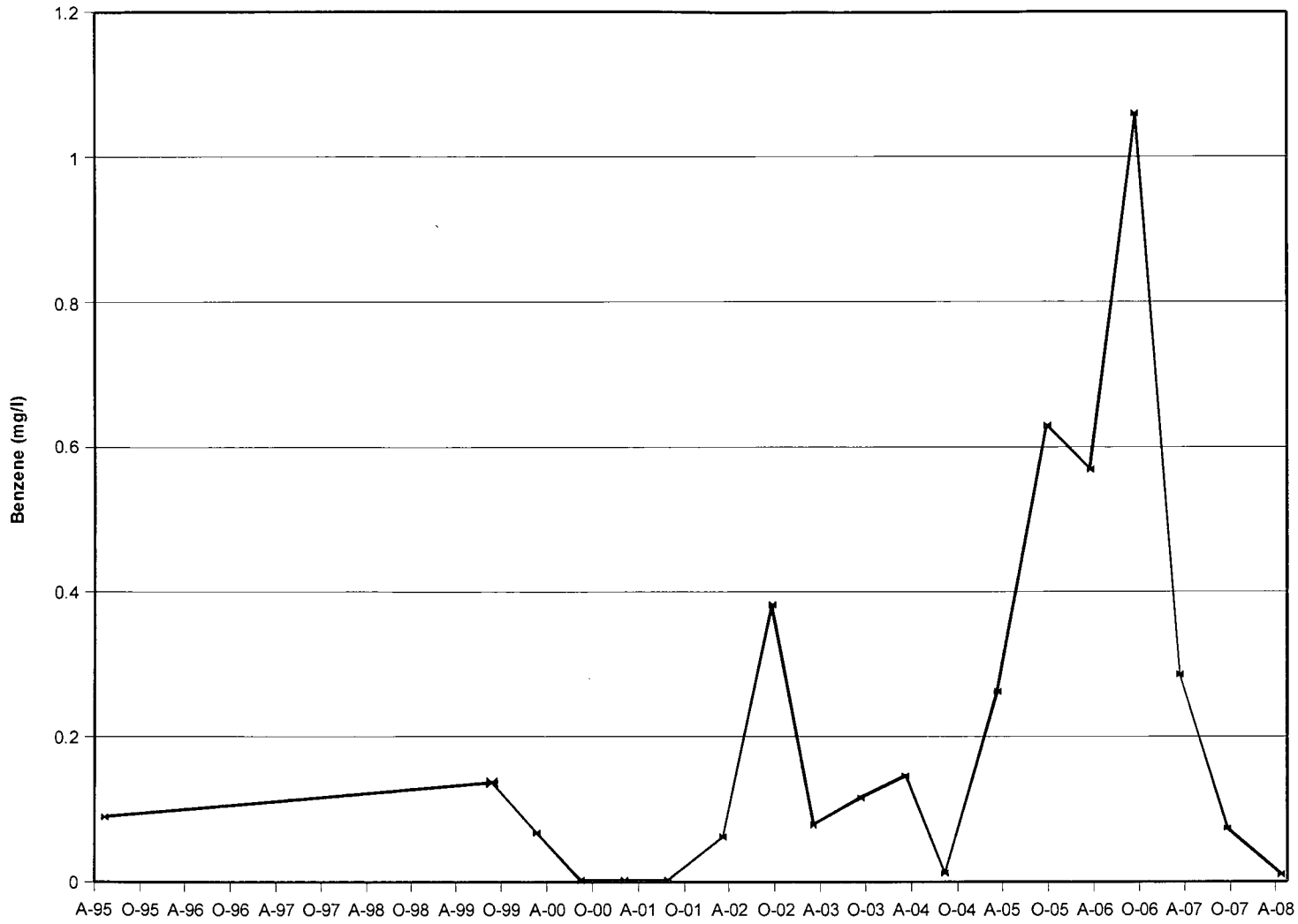
Figure 8 – Benzene Concentrations in MW-9, MW-10D and MW-11

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 5/08



Dates are April (A) and October (0)

Figure 9 – BTEX Concentrations in MW-5

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 5/08

FIELD SAMPLING DATA AND

LABORATORY ANALYTICAL REPORT

Arc Environmental

P. O. Box 1772 ~ Lovington, NM 88260
(575) 631-9310

FIELD MEASUREMENT and OBSERVATION LOG

PROJECT NAME: DCP Midstream

PROJECT LOCATION: DCP Midstream Linam Ranch Gas Plant
PROJECT NUMBER: F-114

Date Sampled: 4-30-2008 and 5-2-2008

PROJECT MANAGER: Michael H. Stewart, P.E., C.P.G.

FIELD TECHNICIAN: Rozanne Johnson - Arc Environmental

Notes: Water was disposed of at an approved salt-water disposal.

WELL # /SAMPLE LOCATION	TOTAL WELL DEPTH (feet)	DEPTH TO PRODUCT (feet)	DEPTH TO WATER (feet)	HEIGHT WATER COLUMN (feet)	PSH THICKNESS (feet)	WELL FACTOR 2"=.16 4"=.65 5"=1.02	CALC. WELL VOLUME (gallons)	NUMBER OF WELL VOLUMES PURGED	TOTAL PURGED (gallons)	Temp (°C)	pH	Cond. (mS/cm)	Date and Time	SAMPLE CHARACTERISTICS (odor, color, sheen)
Monitor Well #1	54.20		42.61	11.59		0.16	1.9	3	6	21.8	7.03	1.48	5/2 9:40	Collected MS/MSD Samples
Monitor Well #2	50.50		23.50	27.00		0.16	4.3	3	15	21.2	7.24	0.45	5/2 10:15	
Monitor Well #3	55.30		46.44	8.86		0.16	1.4	3	6	21.3	7.15	0.36	5/2 11:40	
Monitor Well #4	54.13	45.89	46.23		0.34									Product Present ~ No Sample Taken
Monitor Well #5	55.20		46.62	8.58		0.65	5.6	3	20	22.0	6.88	2.24	5/2 9:00	Collected Duplicate Sample ~ Black Color to Clear Strong Odor
Monitor Well #6	54.10	46.45	49.26	4.84	2.81			3						Product Present ~ No Sample Taken
Monitor Well #7	62.50		58.75	3.75		0.16	0.6	3	1	21.2	7.12	1.01	5/2 14:25	Well Bailed Dry
Monitor Well #8	58.30		35.08	23.22		0.65	15.1	3	50	20.8	7.20	0.41	5/2 10:55	
Monitor Well #9	59.10		49.89	9.21		0.16	1.5	3	6	19.6	6.87	1.20	4/30 10:50	
Monitor Well #10	65.00		48.82	16.18		0.65	10.5	3	35	19.7	7.23	1.67	4/30 10:00	Strong Odor
Monitor Well #10d	78.95		50.96	27.99		0.16	4.5	3	15	19.9	7.16	1.20	4/30 9:20	Strong Odor
Monitor Well #11	62.80		50.71	12.09		0.65	7.9	3	25	19.7	6.76	1.25	4/30 8:40	
Monitor Well #13	63.00		51.49	11.51		0.65	7.5	3	25	19.4	6.81	1.37	4/30 10:35	

Gulf Coast ACCUTEST Laboratories

IT'S ALL IN THE CHEMISTRY

05/14/08

Technical Report for

DCP Midstream, LLC

AEC/DCP Midstream Linam Ranch

Accutest Job Number: T22071

Sampling Dates: 04/30/08 - 05/02/08

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 29

ACCUTEST LABORATORIES 50 YEARS 1956-2006

ACCREDITED IN ACCORDANCE WITH nelac

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.

Paul K Canevaro

Paul Canevaro
Laboratory Director

Client Service contact: Agnes Vicknair 713-271-4700

This report shall not be reproduced, except in its entirety, without the written approval of Accutest Laboratories. Test results relate only to samples analyzed.

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Sample Summary

DCP Midstream, LLC

Job No: T22071

AEC/DCP Midstream Linam Ranch

Sample Number	Collected Date	Time By	Received	Matrix Code	Matrix Type	Client Sample ID
T22071-1	05/02/08	09:40 RJ	05/06/08	AQ	Ground Water	MW-1
T22071-1D	05/02/08	09:40 RJ	05/06/08	AQ	Water Dup/MSD	MW-1 MSD
T22071-1S	05/02/08	09:40 RJ	05/06/08	AQ	Water Matrix Spike	MW-1 MS
T22071-2	05/02/08	10:15 RJ	05/06/08	AQ	Ground Water	MW-2
T22071-3	05/02/08	11:40 RJ	05/06/08	AQ	Ground Water	MW-3
T22071-4	05/02/08	09:00 RJ	05/06/08	AQ	Ground Water	MW-5
T22071-5	05/02/08	14:25 RJ	05/06/08	AQ	Ground Water	MW-7
T22071-6	05/02/08	10:55 RJ	05/06/08	AQ	Ground Water	MW-8
T22071-7	04/30/08	10:50 RJ	05/06/08	AQ	Ground Water	MW-9
T22071-8	04/30/08	10:00 RJ	05/06/08	AQ	Ground Water	MW-10
T22071-9	04/30/08	09:20 RJ	05/06/08	AQ	Ground Water	MW-10D
T22071-10	04/30/08	08:40 RJ	05/06/08	AQ	Ground Water	MW-11
T22071-11	04/30/08	10:35 RJ	05/06/08	AQ	Ground Water	MW-13

Sample Summary
(continued)

DCP Midstream, LLC

Job No: T22071

AEC/DCP Midstream Linam Ranch

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
T22071-12	04/30/08	00:00	RJ	05/06/08	AQ	Ground Water	DUP
T22071-13	04/30/08	00:00	RJ	05/06/08	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	T22071-1	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022474.D	1	05/08/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	87%		73-126%
17060-07-0	1,2-Dichloroethane-D4	86%		61-136%
2037-26-5	Toluene-D8	100%		80-125%
460-00-4	4-Bromofluorobenzene	113%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-2		
Lab Sample ID:	T22071-2	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022462.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		73-126%
17060-07-0	1,2-Dichloroethane-D4	87%		61-136%
2037-26-5	Toluene-D8	99%		80-125%
460-00-4	4-Bromofluorobenzene	108%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-3		
Lab Sample ID:	T22071-3	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022463.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		73-126%
17060-07-0	1,2-Dichloroethane-D4	84%		61-136%
2037-26-5	Toluene-D8	94%		80-125%
460-00-4	4-Bromofluorobenzene	103%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-5		
Lab Sample ID:	T22071-4	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022464.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0108	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.184	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0039	0.0060	0.0014	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		73-126%
17060-07-0	1,2-Dichloroethane-D4	87%		61-136%
2037-26-5	Toluene-D8	94%		80-125%
460-00-4	4-Bromofluorobenzene	104%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-7		
Lab Sample ID:	T22071-5	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022465.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	95%		73-126%
17060-07-0	1,2-Dichloroethane-D4	87%		61-136%
2037-26-5	Toluene-D8	101%		80-125%
460-00-4	4-Bromofluorobenzene	115%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-8		
Lab Sample ID:	T22071-6	**Date Sampled:**	05/02/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022466.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		73-126%
17060-07-0	1,2-Dichloroethane-D4	84%		61-136%
2037-26-5	Toluene-D8	100%		80-125%
460-00-4	4-Bromofluorobenzene	114%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-9		
Lab Sample ID:	T22071-7	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022467.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		73-126%
17060-07-0	1,2-Dichloroethane-D4	82%		61-136%
2037-26-5	Toluene-D8	97%		80-125%
460-00-4	4-Bromofluorobenzene	109%		65-147%

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
N = Indicates presumptive evidence of a compound

Report of Analysis

Client Sample ID:	MW-10		
Lab Sample ID:	T22071-8	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022468.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2	Y0022509.D	200	05/08/08	NAZ	n/a	n/a	VY1702

	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	0.769 [a]	0.40	0.092	mg/l	
108-88-3	Toluene	0.0457	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0851	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0500	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	91%	92%	73-126%
17060-07-0	1,2-Dichloroethane-D4	104%	90%	61-136%
2037-26-5	Toluene-D8	97%	99%	80-125%
460-00-4	4-Bromofluorobenzene	107%	103%	65-147%

(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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-10D		
Lab Sample ID:	T22071-9	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022469.D	1	05/07/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.195	0.0020	0.00046	mg/l	
108-88-3	Toluene	0.0677	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.0144	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0221	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		73-126%
17060-07-0	1,2-Dichloroethane-D4	90%		61-136%
2037-26-5	Toluene-D8	97%		80-125%
460-00-4	4-Bromofluorobenzene	110%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-11		
Lab Sample ID:	T22071-10	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022470.D	1	05/08/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	94%		73-126%
17060-07-0	1,2-Dichloroethane-D4	87%		61-136%
2037-26-5	Toluene-D8	102%		80-125%
460-00-4	4-Bromofluorobenzene	118%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	MW-13		
Lab Sample ID:	T22071-11	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022471.D	1	05/08/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	88%		73-126%
17060-07-0	1,2-Dichloroethane-D4	85%		61-136%
2037-26-5	Toluene-D8	100%		80-125%
460-00-4	4-Bromofluorobenzene	113%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	DUP		
Lab Sample ID:	T22071-12	**Date Sampled:**	04/30/08
Matrix:	AQ - Ground Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022472.D	1	05/08/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	0.0107	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	0.179	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	0.0039	0.0060	0.0014	mg/l	J

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	83%		73-126%
17060-07-0	1,2-Dichloroethane-D4	80%		61-136%
2037-26-5	Toluene-D8	91%		80-125%
460-00-4	4-Bromofluorobenzene	101%		65-147%

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
N = Indicates presumptive evidence of a compound

Accutest LabLink@31277 07:28 14-May-2008

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T22071-13	**Date Sampled:**	04/30/08
Matrix:	AQ - Trip Blank Water	**Date Received:**	05/06/08
Method:	SW846 8260B	**Percent Solids:**	n/a
Project:	AEC/DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0022473.D	1	05/08/08	NAZ	n/a	n/a	VY1700
Run #2							

	Purge Volume
Run #1	5.0 ml
Run #2	

Purgeable Aromatics

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	0.0020	0.00046	mg/l	
108-88-3	Toluene	ND	0.0020	0.00048	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00045	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0014	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		73-126%
17060-07-0	1,2-Dichloroethane-D4	85%		61-136%
2037-26-5	Toluene-D8	99%		80-125%
460-00-4	4-Bromofluorobenzene	112%		65-147%

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
N = Indicates presumptive evidence of a compound

Misc. Forms

Custody Documents and Other Forms

Includes the following where applicable:

- Chain of Custody

CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: T22071
Accutest Quote #:

Client Information	Facility Information
DCP Midstream	American Environmental Consulting, LP
Name: 370 Seventeenth Street, Suite 2500	Project Name:
Address: Denver CO 80202	Location:
City State Zip: Stephen Weathers	Project/PO #: DCP Midstream Linam Ranch
Send Report to: Phone #: 303.605.1718	FAX #:

	Collection					Preservation					Analytical Information										
Field ID / Point of Collection	2008 Date	Time	Sampled By	Matrix	# of bottles	HCL	NaOH	HNO3	H2SO4	None	BTEX 8260B	0	0	0	0	0	0	0	0	MS/MSD FOR BTEX 8260B	
1 MW-1	5/2	9:40	RF	GW	3	X					X										
2 MW-2	5/2	10:15	RF	GW	3	X					X										
3 MW-3	5/2	11:40	RF	GW	3	X					X										
4 MW-5	5/2	9:00	RF	GW	3	X					X										
5 MW-7	5/2	14:25	RF	GW	3	X					X										
6 MW-8	5/2	10:55	RF	GW	3	X					X										
7 MW-9	4/30	10:50	RF	GW	3	X					X										
8 MW-10	4/30	10:00	RF	GW	3	X					X										
9 MW-10d	4/30	9:20	RF	GW	3	X					X										
10 MW-1 MS/MSD	5/2	9:40	RF	GW	6	X														X	
0				0																	

Turnaround Information	Data Deliverable Information	Comments / Remarks
☐ 21 Day Standard — Approved By:	☐ NJ Reduced ☐ Commercial "A"	Please Include "Hold for Steve Weathers" on the shipping label.
☐ 14 Day	☐ NJ Full ☐ Commercial "B"	Accutest to invoice DCP Midstream, Attn: Steve Weathers
☒ 7 Days EMERGENCY	☐ FULL CLP ☐ ASP Category B	
☐ Other _____ (Days)	☐ Disk Deliverable ☐ State Forms	
RUSH TAT is for FAX data unless previously approved.	☒ Other (Specify) #REF!	

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	5-5-08 13:00				2
Relinquished by Sampler: 3	Date Time: 5/6/08 9:57	Received By: 3 A. Vickrey	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable	On Ice: ✓ 4.8

3.1 (3)

T22071: Chain of Custody
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CHAIN OF CUSTODY

Fresh Ponds Corporate Village, Building B
2235 Route 130, Dayton, NJ 08810
732-329-0200 FAX: 732-329-3499/3480

Accutest Job #: T22071
Accutest Quote #:

Client Information			Facility Information			Analytical Information
DCP Midstream			American Environmental Consulting, LP			
Name: 370 Seventeenth Street, Suite 2500			Project Name:			
Address: Denver	CO	80202	Location:			
City: Stephen Weathers	State	Zip	Project/PO #: DCP Midstream Linam Ranch			
Send Report to:						
Phone #: 303.605.1718			FAX #:			

	Field ID / Point of Collection	Collection Date (2008)	Time	Sampled By	Matrix	# of bottles	Preservation: HCL	NaOH	HNO3	H2SO4	None	BTEX 8260B	0	0	0	0	0	0	0	0	0
10	MW-11	4/30	8:40	RF	GW	3	X					X									
	~~MW-12~~				~~GW~~	~~3~~	~~X~~					~~X~~			NOT SAMPLED		PW				
11	MW-13	4/30	10:35	RF	GW	3	X					X									
12	Dup	000	0000	RF	GW	3	X					X									
13	T.B	0				0															
		0				0															
		0				0															
		0				0															
		0				0															
		0				0															

Turnaround Information		Data Deliverable Information		Comments / Remarks
[ ] 21 Day Standard	Approved By:	[ ] NJ Reduced	[ ] Commercial "A"	Please include "Hold for Steve Weathers" on the shipping label.
[ ] 14 Day		[ ] NJ Full	[ ] Commercial "B"	Accutest to invoice DCP Midstream, Attn: Steve Weathers
[X] 7 Days *EMERGENCY*		[ ] FULL CLP	[ ] ASP Category B	
[ ] Other _____ (Days)		[ ] Disk Deliverable	[ ] State Forms	
RUSH TAT is for FAX data unless previously approved.		[X] Other (Specify)	#REF!	

Sample Custody must be documented below each time samples change possession, including courier delivery.

Relinquished by Sampler:	Date Time:	Received By:	Relinquished By:	Date Time:	Received By:
	5-5-08 13:00	Mail Service			2
Relinquished by Sampler: 3	Date Time: 5/6/08 9:57	Received By: 3 A. Vacchelli	Relinquished By: 4	Date Time:	Received By: 4
Relinquished by Sampler: 5	Date Time:	Received By: 5	Seal #	Preserved where applicable	On Ice: ✓ 4.8

T22071: Chain of Custody
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ACCUTEST.

SAMPLE RECEIPT LOG

JOB #: T22071 DATE/TIME RECEIVED: 5/6/08 9:57

CLIENT: DCP Midstream INITIALS: AV

Condition/Variance (Circle "Y" for yes and "N" for no or NA. If "N" is circled, see variance for explanation):

1. (Y) N Sample received in undamaged condition.
2. (Y) N Samples received within temp. range.
3. Y N (NA) Sample received with proper pH.
4. (Y) N Sample received in proper containers.
5. (Y) N Sample volume sufficient for analysis.
6. (Y) N Sample received with chain of custody.
7. (Y) N Chain of Custody matches **sample IDs and analysis** on containers.
8. Y (N) Samples Headspace acceptable
9. (Y) N NA Custody seal received intact and tamper not evident on cooler.
10. Y N (NA) Custody seal received intact and tamper not evident on bottles.

SAMPLE or FIELD ID	BOTTLE #	DATE SAMPLED	MATRIX	VOLUME	LOCATION	PRESERV.	PH
1-4, U	1-3	5/2/08	AQ	40ml	VRef	1,2,3,4,5,6	U, <2, >12, NA
5	1-2	1	1	1	1	1,2,3,4,5,6	U, <2, >12, NA
7-12	1-3	4/30/08	1	1	1	1,2,3,4,5,6	U, <2, >12, NA
13	1-2	n/a	1	1	1	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
		AV 5/6/08				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
						1,2,3,4,5,6	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:

pH of waters checked excluding volatiles

pH of soils N/A

Delivery method: Courier: FedEx

COOLER TEMP: 4.8 COOLER TEMP:

COOLER TEMP: COOLER TEMP:

Form: SM012, Rev.07/28/06, DAO

3.1

T22071: Chain of Custody

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ACCUTEST. Laboratories

T22071

GC/MS 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: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1700-MB	Y0022461.D	1	05/07/08	NAZ	n/a	n/a	VY1700

The QC reported here applies to the following samples: **Method:** SW846 8260B

T22071-1, T22071-2, T22071-3, T22071-4, T22071-5, T22071-6, T22071-7, T22071-8, T22071-9, T22071-10, T22071-11, T22071-12, T22071-13

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.45	ug/l	
108-88-3	Toluene	ND	2.0	0.48	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.4	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	73-126%
17060-07-0	1,2-Dichloroethane-D4	84%	61-136%
2037-26-5	Toluene-D8	95%	80-125%
460-00-4	4-Bromofluorobenzene	104%	65-147%

Method Blank Summary

Job Number: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1702-MB	Y0022497.D	1	05/08/08	NAZ	n/a	n/a	VY1702

The QC reported here applies to the following samples: Method: SW846 8260B

T22071-8

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.46	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	87%	73-126%
17060-07-0	1,2-Dichloroethane-D4	86%	61-136%
2037-26-5	Toluene-D8	100%	80-125%
460-00-4	4-Bromofluorobenzene	114%	65-147%

Blank Spike/Blank Spike Duplicate Summary

Job Number: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1700-BS	Y0022458.D	1	05/07/08	NAZ	n/a	n/a	VY1700
VY1700-BSD	Y0022459.D	1	05/07/08	NAZ	n/a	n/a	VY1700

The QC reported here applies to the following samples: Method: SW846 8260B

T22071-1, T22071-2, T22071-3, T22071-4, T22071-5, T22071-6, T22071-7, T22071-8, T22071-9, T22071-10, T22071-11, T22071-12, T22071-13

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	25	22.9	92	23.5	94	3	41-145/30
100-41-4	Ethylbenzene	25	22.6	90	23.2	93	3	49-135/30
108-88-3	Toluene	25	23.0	92	23.4	94	2	66-128/30
1330-20-7	Xylene (total)	75	65.9	88	67.8	90	3	67-122/30

CAS No.	Surrogate Recoveries	BSP	BSD	Limits
1868-53-7	Dibromofluoromethane	92%	85%	73-126%
17060-07-0	1,2-Dichloroethane-D4	87%	82%	61-136%
2037-26-5	Toluene-D8	96%	90%	80-125%
460-00-4	4-Bromofluorobenzene	107%	99%	65-147%

Blank Spike Summary

Job Number: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY1702-BS	Y0022494.D	1	05/08/08	NAZ	n/a	n/a	VY1702

The QC reported here applies to the following samples: Method: SW846 8260B

T22071-8

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	23.0	92	41-145

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	88%	73-126%
17060-07-0	1,2-Dichloroethane-D4	83%	61-136%
2037-26-5	Toluene-D8	97%	80-125%
460-00-4	4-Bromofluorobenzene	107%	65-147%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T22071-1MS	Y0022475.D	1	05/08/08	NAZ	n/a	n/a	VY1700
T22071-1MSD	Y0022476.D	1	05/08/08	NAZ	n/a	n/a	VY1700
T22071-1	Y0022474.D	1	05/08/08	NAZ	n/a	n/a	VY1700

The QC reported here applies to the following samples: Method: SW846 8260B

T22071-1, T22071-2, T22071-3, T22071-4, T22071-5, T22071-6, T22071-7, T22071-8, T22071-9, T22071-10, T22071-11, T22071-12, T22071-13

CAS No.	Compound	T22071-1 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	24.2	97	24.3	97	0	60-131/12
100-41-4	Ethylbenzene	ND		25	23.9	96	24.2	97	1	58-127/13
108-88-3	Toluene	ND		25	24.4	98	24.2	97	1	67-123/11
1330-20-7	Xylene (total)	ND		75	71.0	95	69.8	93	2	62-125/14

CAS No.	Surrogate Recoveries	MS	MSD	T22071-1	Limits
1868-53-7	Dibromofluoromethane	91%	91%	87%	73-126%
17060-07-0	1,2-Dichloroethane-D4	89%	88%	86%	61-136%
2037-26-5	Toluene-D8	101%	100%	100%	80-125%
460-00-4	4-Bromofluorobenzene	109%	108%	113%	65-147%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T22071
Account: DUKE DCP Midstream, LLC
Project: AEC/DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T22027-14MS	Y0022507.D	1	05/08/08	NAZ	n/a	n/a	VY1702
T22027-14MSD	Y0022508.D	1	05/08/08	NAZ	n/a	n/a	VY1702
T22027-14	Y0022506.D	1	05/08/08	NAZ	n/a	n/a	VY1702

The QC reported here applies to the following samples: Method: SW846 8260B

T22071-8

CAS No.	Compound	T22027-14 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	22.3	89	24.9	100	11	60-131/12

CAS No.	Surrogate Recoveries	MS	MSD	T22027-14	Limits
1868-53-7	Dibromofluoromethane	90%	91%	87%	73-126%
17060-07-0	1,2-Dichloroethane-D4	87%	88%	84%	61-136%
2037-26-5	Toluene-D8	96%	99%	95%	80-125%
460-00-4	4-Bromofluorobenzene	94%	99%	98%	65-147%

370 17th Street, Suite 2500
Denver, Colorado 80202
303-605-1893 – main
303-605-1957 – fax

August 31, 2007

GW-15

Mr. Wayne Price, Remediation Bureau Chief
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

SEAN

RE: First Quarter 2007 Groundwater Monitoring Report for the Linam Ranch Gas Plant, Lea County, New Mexico Unit B, Section 6, Township 19 South, Range 37 East

Dear Mr. Price:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the First Quarter 2007 Groundwater Monitoring Report for the Linam Ranch Gas Plant located in Lea County, New Mexico (Unit B Section 6, Township 19 South, Range 37 East).

Groundwater monitoring activities were completed on March 20, 2007. The data indicate that the groundwater conditions remain stable. The next monitoring event is scheduled for the end of third quarter 2007.

If you have any questions regarding this report, please call me at 303-605-1893.

Sincerely,
DCP Midstream, LP

Daniel Dick
Environmental Assurance

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs
Lynn Ward – DCP Midstream, Midland
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

August 23, 2007

Mr. Daniel Dick
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Summary of First Quarter 2007 Groundwater Monitoring Event
at the Linam Ranch Gas Plant, Lea County, New Mexico
Unit B, Section 6, Township 19 South, Range 37 East

Dear Daniel:

This letter summarizes the activities completed and data generated during the first quarter 2007 groundwater-sampling event at the DCP Midstream, LP (DCP, formerly known as Duke Energy Field Services) Linam Ranch Gas Plant in Lea County New Mexico. The facility is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 6, Township 19 South, Range 37 East (Figure 1). The coordinates are 32.6965 degrees north, 103.2883 degrees west. The facility is an active gas-processing plant.

The 14 monitoring well locations are shown on Figure 2. Construction information is included in Table 1. Well MW-12 can no longer be monitored because of DCP safety concerns. It is directly adjacent to the main flare, and the flare can ignite without warning. The down-gradient area in this vicinity is adequately monitored by MW-9 and MW-13.

The event included the measurement of fluid levels in all monitoring wells and the sampling of all wells that did not contain measurable free phase hydrocarbons (FPH). Trident Environmental of Midland Texas completed the sampling on March 20, 2007.

The fluid measurements, FPH thicknesses and corrected groundwater elevations are summarized in Table 2. The water-table elevations for the wells containing FPH were estimated using the following formula:

$GWE_{corr} = MGWE + (FPHT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.81 based upon historic data).

The historic water-table elevation data are summarized in Table 3. Hydrographs for select wells throughout the study area are included on Figure 3. The water table generally declined throughout the area. Wells MW-1, MW-4 and MW-5, located near to a northwest to southeast trending drainage, exhibited the greatest declines in the water

table elevation. The fluctuations were much less in the wells that are located farther away than from the drainage.

The historical FPH thickness values in MW-4 and MW-6 are graphed in Figure 4. The FPH thickness in MW-6 declined to within its historic range between the third quarter of 2006 and the first quarter of 2007. Both wells now contain less than 1 foot of FPH.

FPH was removed from MW-4 and MW-6 between April 1998 and August 2004. Only 12.2 gallons were removed from MW-4 and 14.3 gallons were removed from MW-6 over this 76-month period. This limited volume indicates that the FPH is relatively immobile and difficult to remove. DCP is currently evaluating alternative removal schemes that could be safely implemented within an active major gas-processing plant.

A water-table contour map for the March 2007 data was generated using the program Surfer with its kriging option (Figure 5). Note that well MW-7 was not included in this map. The water-table elevation in MW-7 is lower than those measured in the wells in the central area (MW-1, MW-4, MW-5 and MW-6). Including this well results in a water-table configuration that suggests radial flow from the center of the property. Well MW-7 has never contained measurable benzene, toluene, ethylbenzene or xylenes. This lack of impacts suggests that the relatively higher water table measured in the central part of the site is localized so the contours should not be carried to the northwest.

The water-table contours shown on Figure 5 exhibit a groundwater flow pattern toward the southeast property boundary. The gradient also decreased appreciably down gradient from the 3675 contour. This change is probably related to the mounding associated with the historic drainage.

The analytical results are summarized in Table 4, and the laboratory report is attached. The quality control data can be summarized as follows:

- There were no BTEX detections in the trip blank.
- The duplicate values were all elevated (benzene 26.6%, toluene not detected, ethylbenzene 22.8 %, xylenes 57.9%).
- All of the surrogate spikes from both episodes were within all their respective ranges.
- The laboratory the matrix spike and matrix spike duplicate analysis were all within their respective control limits.

The above facts establish that the data is suitable for all intended uses.

The constituents that exceed the potentially applicable New Mexico Water Quality Control Commission groundwater standards are highlighted in Table 4. Wells MW-5, MW-10 and MW-10D contained constituents that exceeded the benzene standard. None of the BTEX constituents were detected in down-gradient boundary wells MW-2, MW-8, MW-9 and MW-13 except for trace xylenes (0.0075 mg/l) in MW-9.

Benzene isopleths generated by the Surfer program using the kriging option are plotted on Figure 6 for the March 2007 data. Figure 6 establishes the following facts:

- Any of the dissolved-phase BTEX constituents that emanate from the FPH in MW-4 and MW-6 attenuate to concentrations that are at or below the method reporting limits before migrating to the vicinity of MW-1 (cross gradient) or MW-8 (down gradient).
- The elevated dissolved-phase BTEX constituents that are measured at MW-10 and MW-10D attenuate to concentrations that are below the method reporting limits at the interior down gradient wells MW-9 and MW-13.
- The patterns described in the above two bullets have remained constant since the middle of 2001. This consistency indicates that the dissolved phase BTEX plumes are equilibrated.
- The above data establishes that dissolved-phase releases from the FPH in this area attenuate to below the method reporting (and detection) limits approximately 1,000 feet from the nearest down-gradient property boundary.

The historical data for all wells is summarized in Table 5 for benzene, Table 6 for toluene, Table 7 for ethylbenzene and Table 8 for total xylenes. Graphs of benzene concentrations verses time are included for MW-10 in Figure 7 and for MW-9, MW-10D and MW-11 in Figure 8. Examination of these figures indicates that benzene concentrations continue to decline in MW-10 while remaining essentially stable in MW-10D. Benzene was not detected in MW-9 and MW-11 above the 0.001 method reporting limit.

A benzene-time graph for MW-5, located upgradient from MW-4 and MW-6, is included as Figure 9. The benzene concentration declined from 1.06 mg/l in September 2006 to 0.25 mg/l in March 2007 following a 2-year overall increasing trend. This decrease corresponds to the water table in MW-5 being higher than the its neighboring wells, particularly MW-4, for the first time in 2 years. This pattern may indicate that a gradient-concentration relationship is present.

The next semi-annual groundwater-monitoring episode is scheduled for the third quarter of 2007. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart

Michael H. Stewart, PE
Principal Engineer

MHS/tbm

attachment

TABLES

Table 1 – Linam Ranch Gas Plant Well Construction Summary

Well	Well Elevation (Top of Casing)	Well Depth (TOC)	Well Diameter
	(feet)	(feet)	(inches)
MW-1	3718.29	54.20	2
MW-2	3714.80	50.50	2
MW-3	3715.50	55.30	2
MW-4	3720.46	54.13	4
MW-5	3721.53	55.20	4
MW-6	3720.99	54.10	4
MW-7	3728.57	62.50	2
MW-8	3714.18	58.30	4
MW-9	3720.48	59.10	2
MW-10	3720.76	65.00	4
MW-10D	3720.85	79.00	2
MW-11	3722.02	62.80	4
MW-12	3720.60	58.30	4
MW-13	3721.63	63.00	4

Table 2 –Linam Ranch Gas Plant March 20, 2007 Fluid Gauging Data

Well	Depth to Water	Depth to Product	Free Phase Hydrocarbon Thickness	Corrected Water Table Elevation
MW-1	43.13			3677.05
MW-2	42.36			3674.88
MW-3	46.25			3671.45
MW-4	44.99	44.30	0.69	3677.98
MW-5	44.90			3678.70
MW-6	45.74	45.27	0.47	3677.70
MW-7	56.88			3673.96
MW-8	41.86			3674.32
MW-9	49.06			3673.42
MW-10	48.91			3673.99
MW-10D	50.12			3673.42
MW-11	49.61			3674.92
MW-12	Inaccessible because of safety concerns			
MW-13	50.68			3673.31

Notes: All units in feet
NP: Free Phase Hydrocarbon not present

Table 3 - Linam Ranch Gas Plant Summary of Historic Groundwater Elevation Data (feet)

Well	12/1/92	5/22/94	5/17/95	11/14/95	1/17/96	4/24/96	1/22/97	8/15/97	1/22/98	7/20/98	2/9/99	8/24/99	2/21/00	8/17/00	2/6/01
MW-1		3676.28	3674.68		3676.23	3675.37	3674.45	3674.63	3674.19	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99
MW-2		3682.29	3673.49				3673.19		3672.80	3672.37	3672.41	3674.43	3672.68	3679.43	3674.05
MW-3		3671.47	3670.72	3671.30		3671.13	3670.47		3669.96	3669.80	3669.59	3669.68	3669.51	3669.68	3669.48
MW-4	3677.10	3676.96	3675.43	3675.75	3676.27	3675.50	3674.29	3674.12	3674.52	3673.76	3674.45	3675.44	3675.81	3676.07	3675.39
MW-5	3677.65	3677.33	3675.43	3676.62	3676.23	3675.51	3674.35	3673.96	3674.74	3674.21	3674.84	3675.47	3675.84	3675.66	3675.24
MW-6	3676.87	3676.70	3674.87	3676.80	3676.18	3676.37	3674.21	3673.91	3674.21	3673.59	3673.84	3674.86	3675.11	3675.61	3674.75
MW-8		3674.83	3672.73		3674.47	3673.36	3672.78	3672.04	3671.87	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60
MW-9		3672.89	3671.88	3672.46	3672.64	3672.40	3671.52	3671.14	3671.00	3670.90	3670.67	3670.89	3670.78	3670.92	3670.86
MW-10			3672.45	3673.05	3673.08	3672.75	3671.78	3671.41	3671.33	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36
MW-10D			3672.16	3672.91	3672.81	3672.36	3671.43	3671.07	3671.13	3670.99	3670.78	3671.03	3670.98	3671.29	3670.97
MW-11			3673.03	3674.19	3673.88	3673.31	3672.21	3671.81	3672.01	3671.88	3671.68	3672.06	3672.09	3672.47	3672.22
MW-12			3672.37	3673.32	3673.25	3672.75	3671.74	3671.40	3671.34	3671.18	3671.00	3671.59	3671.33	3671.86	3671.50
MW-13			3672.02	3672.57	3672.66	3672.34	3671.43	3671.05	3670.93	3670.80	3670.60	3670.94	3670.74	3671.04	3670.88

Well	8/2/01	3/11/02	9/25/02	3/8/03	9/17/03	3/16/04	8/17/04	3/15/05	9/29/05	3/22/06	9/21/06	3/20/07
MW-1	3674.81	3674.04	3674.43	3674.32	3673.80	3674.30	3676.59	3682.86	3684.83	3684.08	3682.25	3677.05
MW-2	3672.69	3672.07	3672.26	3672.21	3671.69	3671.26	3679.10	3679.39	3678.22	3676.04	3681.68	3674.88
MW-3	3669.31	3669.14	3669.03	3669.06	3668.87	3668.63	3669.00	3671.37	3671.52	3671.63	3672.00	3671.45
MW-4	3674.80	3674.59	3675.13	3674.60	3674.16	3674.04	3675.77	3681.85	3682.38	3682.04	3680.94	3677.98
MW-5	3674.82	3675.07	3674.99	3674.81	3674.32	3674.32	3674.32	3680.24	3680.65	3680.66	3680.23	3678.70
MW-6	3674.15	3674.30	3674.61	3674.12	3673.55	3673.07	3674.68	3680.13	3677.46	3677.42	3677.37	3677.70
MW-8	3671.26	3671.51	3671.59	3671.59	3670.71	3670.67	3673.30	3676.74	3677.01	3675.71	3677.09	3674.32
MW-9	3670.62	3670.61	3670.61	3670.68	3670.48	3670.15	3670.28	3673.36	3673.66	3674.00	3673.41	3673.42
MW-10	3671.06	3671.10	3671.13	3671.17	3670.87	3670.52	3670.84	3674.42	3674.35	3674.69	3674.13	3673.99
MW-10D	3670.76	3670.84	3670.81	3670.85	3670.46	3670.28	3670.51	3673.72	3674.03	3674.05	3673.75	3674.92
MW-11	3671.79	3672.02	3672.05	3672.00	3671.49	3671.02	3671.67	3675.45	3675.54	3675.68	3675.30	3674.52
MW-12	3671.07	3671.01	3671.09	3671.15	3670.81	3670.36	3671.10	3674.97	3674.46	3674.64	3674.52	3673.31
MW-13	3670.58	3670.50	3670.50	3670.57	3670.32	3669.95	3670.31	3673.69	3673.61	3673.56	3673.50	3677.05

Table 4 –Linam Ranch Gas Plant March 20, 2007 Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC	0.01	0.75	0.75	0.62
MW-1	<0.001	<0.001	<0.001	<0.001
MW-2	<0.001	<0.001	0.0022	<0.001
MW-3	<0.001	<0.001	0.0022	<0.001
MW-5	**0.285**	<0.001	0.220	0.0157
MW-5 Dup	**0.218**	<0.005	0.175	0.0285
MW-7	<0.001	<0.001	<0.001	<0.001
MW-8	<0.001	<0.001	<0.001	<0.001
MW-9	<0.001	<0.001	<0.001	0.0075
MW-10	**1.13**	0.212	0.222	0.279
MW-10d	**0.0736**	0.0563	<0.001	<0.001
MW-11	<0.001	<0.001	<0.001	<0.001
MW-12	Not sampled due to safety concerns			
MW-13	<0.001	<0.001	<0.001	<0.001

NMWQCC: New Mexico Water Quality Control Commission groundwater standards.
Bolded cells exceed the potentially-applicable NMWQCC standard
All units mg/l

Table 5 - Linam Ranch Gas Plant Summary of Historical Results for Benzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0053	<0.001	<0.001											
11/3/1992	0.0015			16.0	0.003	0.34								
12/2/1992	0.0013			17.0	0.009	0.52								
1/12/1994	0.0039			18.0	0.300	0.77		<0.001						
5/17/1995	<0.002	<0.001	<0.001	20.9	0.090	0.98	<0.001	<0.001	<0.001	3.225	0.096	<0.001	<0.001	<0.001
11/14/1995									<0.001	5.23	0.125	0.306	<0.001	0.003
1/17/1996									0.001	6.11	0.841	0.549	<0.001	<0.001
4/24/1996									<0.001	6.94	8.14	0.52	<0.001	<0.001
1/22/1997									<0.001	6.41	0.365	0.267	<0.001	0.048
8/15/1997									<0.001	5.63	0.221	0.164	0.001	0.132
1/22/1998									<0.001	7.03	<0.001	0.291	<0.001	0.082
7/20/1998									<0.001	7.18	0.184	0.061	0.002	0.061
2/9/1999			<0.001						0.011	4.87	0.009	0.018	0.001	0.082
8/25/1999	<0.005	<0.005	<0.001		0.137		<0.005	<0.001	<0.005	5.58	0.036	0.005	0.003	0.062
2/22/2000	<0.005	<0.005	<0.001		0.068		<0.005	<0.005	0.014	2.35	0.014	0.02	<0.001	0.08
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	0.002	0.036	3.11	<0.005	0.009	<0.005	0.04
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	1.23	<0.005	0.013	<0.001	0.023
8/2/2001	0.003	0.007	0.002		<0.005		<0.005	<0.001	0.038	1.64	<0.001	0.002	<0.001	0.002
3/11/2002	<0.001	<0.001	<0.001	17.9	0.062		<0.001	<0.001	0.048	3.26	0.002	0.005	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	18.8	0.381	1.29	<0.005	<0.001	0.071	3.48	<0.001	0.002	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	16.9	0.079	0.16	<0.005	<0.001	0.077	4.21	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	15.8	0.116		<0.001	<0.005	<0.005	1.34	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	17.8	0.146		<0.001	<0.001	<0.001	0.456	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	16.6	0.012		<0.001	<0.001	<0.001	1.3	0.011	0.003	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.262		<0.001	<0.001	0.0061	3.91	0.107	0.0264	<0.001	<0.001
9/29/2005	0.0067	<0.001	<0.001		0.63		<0.001	<0.001	0.0029	1.67	0.0703	<0.001	<0.001	<0.001
3/22/2006	0.0028	<0.001	<0.001		0.569		<0.001	<0.001	0.0023	1.48	0.224	<0.001	<0.005	<0.001
9/21/2006	0.0011	<0.001	<0.001		1.06		<0.001	<0.001	0.001	1.19	0.0537	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.252		<0.001	<0.001	<0.001	1.13	0.0736	<0.001	NS	<0.001

All units mg/l and duplicate values are averaged. NS: Not sampled due to safety concerns. Blank cells note samples for wells that were either not install or not sampled

Table 6 - Linam Ranch Gas Plant Summary of Historical Results for Toluene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0067	<0.001	0.0021											
11/3/1992	0.0015			8.0	0.0034	0.023								
12/2/1992	0.0014			8.2	0.0041	0.020								
1/12/1994	<0.001			10.0	0.190	0.0029		<0.005						
5/17/1995	<0.002	<0.001	<0.001	1.35	0.014	0.007	<0.001	<0.001	<0.001	0.052	0.004	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.001	0.001	<0.001	<0.001	<0.001
1/17/1996									<0.001	0.863	0.001	0.004	<0.001	<0.001
4/24/1996									<0.001	<0.010	0.046	<0.002	<0.001	<0.001
1/22/1997									<0.001	1.63	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	1.35	<0.01	<0.001	<0.001	<0.001
1/22/1998									<0.001	1.93	<0.001	0.004	<0.001	<0.001
7/20/1998									<0.001	2.34	0.014	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.32	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.037		<0.005	<0.001	<0.005	0.658	<0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		<0.005		<0.005	<0.005	<0.005	0.129	<0.005	<0.001	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	<0.001	<0.005	0.025	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.082	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	<0.100	<0.001		<0.001	<0.001	<0.001	0.178	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	<0.050	<0.050	<0.005	<0.001	<0.001	<0.100	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	<0.100	<0.050	<0.100	<0.005	<0.001	<0.001	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.001	<0.001	<0.010	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.303	0.0444	<0.005	<0.001	<0.001
9/29/2005	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.39	0.0453	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.254	0.0614	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.0069		<0.001	<0.001	<0.001	0.197	0.0378	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.212	0.0563	<0.001		<0.001

All units mg/l and duplicate values are averaged

Blank cells note samples for wells that were either not install or not sampled

Table 7 - Linam Ranch Gas Plant Summary of Historical Results for Ethylbenzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.001	<0.001	<0.001											
11/3/1992	<0.001			0.7	0.003	0.051								
12/2/1992	<0.001			0.53	0.0082	0.058								
1/12/1994	0.0021			0.5	0.160	0.096		<0.005						
5/17/1995	<0.002	<0.001	<0.001	<0.2	0.138	0.087	<0.001	<0.001	<0.001	0.049	<0.001	<0.001	<0.001	<0.001
11/14/1995									<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1/17/1996									<0.001	1.140	<0.001	0.002	<0.001	<0.001
4/24/1996									<0.001	1.190	1.170	<0.002	<0.001	<0.001
1/22/1997									<0.001	0.294	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	0.479	<0.01	0.002	<0.001	<0.001
1/22/1998									<0.001	0.802	<0.001	<0.001	<0.001	<0.001
7/20/1998									<0.001	0.777	0.008	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.516	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.262		<0.005	<0.001	<0.005	0.557	0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		0.13		<0.005	<0.005	<0.005	0.164	<0.005	0.002	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		0.006		<0.005	<0.001	<0.005	0.072	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		0.084		<0.005	<0.005	<0.005	0.102	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	0.119	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.450	0.097		<0.001	<0.001	<0.001	0.251	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	0.526	0.588	0.134	<0.005	<0.001	<0.001	0.290	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.520	0.072	0.148	<0.005	<0.001	<0.001	0.303	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	0.259	0.182		<0.001	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	0.512	0.241		<0.001	<0.001	<0.001	0.047	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	0.403	0.081		<0.001	<0.001	<0.001	0.119	0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.309		<0.001	<0.001	<0.001	0.888	0.0143	<0.005	<0.001	<0.001
9/29/2005	0.011	<0.001	<0.001		0.267		<0.001	<0.001	<0.001	0.238	0.0061	<0.001	<0.001	<0.001
3/22/2006	0.0013	<0.001	<0.001		0.239		<0.001	<0.001	<0.001	0.241	0.0295	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.407		<0.001	<0.001	<0.001	0.204	0.0075	<0.001	<0.001	<0.001
3/20/2007	<0.001	0.0022	0.0022		0.1975		<0.001	<0.001	<0.001	0.222	<0.001	<0.001		<0.001

All units mg/l and duplicate values are averaged

Blank cells note samples for wells that were either not install or not sampled

Table 8 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	<0.001	<0.001	<0.001											
11/3/1992	0.010			1.8	0.034	0.120								
12/2/1992	0.006			1.3	0.037	0.120								
1/12/1994	0.002			1.3	0.490	0.210		<0.005						
5/17/1995	<0.002	<0.001	<0.001	11.4	0.831	0.181	<0.001	<0.001	<0.001	0.169	0.008	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.406	0.011	0.013	<0.001	<0.001
1/17/1996									0.001	1.050	0.047	0.031	<0.001	<0.001
4/24/1996									<0.001	0.127	0.076	<0.002	<0.001	<0.001
1/22/1997									<0.001	8.97	<0.005	0.017	<0.001	<0.001
8/15/1997									<0.001	0.453	<0.01	0.007	<0.001	0.005
1/22/1998									<0.001	0.635	<0.001	0.015	<0.001	<0.001
7/20/1998									<0.001	0.606	0.006	0.010	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.372	<0.005	<0.001	<0.001	<0.001
8/25/1999	0.006	<0.005	<0.001		0.179		<0.005	<0.001	<0.005	0.359	0.002	<0.001	<0.001	<0.001
2/22/2000	0.006	<0.005	<0.001		0.09		<0.005	<0.005	<0.005	0.124	<0.005	0.008	<0.001	<0.001
8/18/2000	0.011	<0.001	<0.005		0.008		<0.005	<0.001	<0.005	0.038	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.086	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.166	<0.001		<0.001	<0.001	<0.001	0.550	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	0.112	0.058	<0.005	<0.001	0.002	0.155	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.151	<0.050	<0.100	<0.005	<0.001	0.003	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.044	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	0.005		<0.001	<0.001	0.012	0.023	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.00	<0.001	0.004	0.071	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.298		<0.001	<0.001	0.0049	1.09	0.0146	0.0115	<0.001	<0.001
9/29/2005	0.0081	<0.001	<0.001		0.327		<0.001	<0.001	<0.001	0.353	0.0119	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		0.296		<0.001	<0.001	<0.001	0.304	0.0267	<0.001	<0.005	<0.001
9/21/2006	0.0017	<0.001	<0.001		0.178		0.0015	<0.001	<0.001	0.238	0.0205	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.0221		<0.001	<0.001	0.0075	0.279	<0.001	<0.001		<0.001

All units mg/l and duplicate values are averaged

Blank cells note samples for wells that were either not install or not sampled

FIGURES

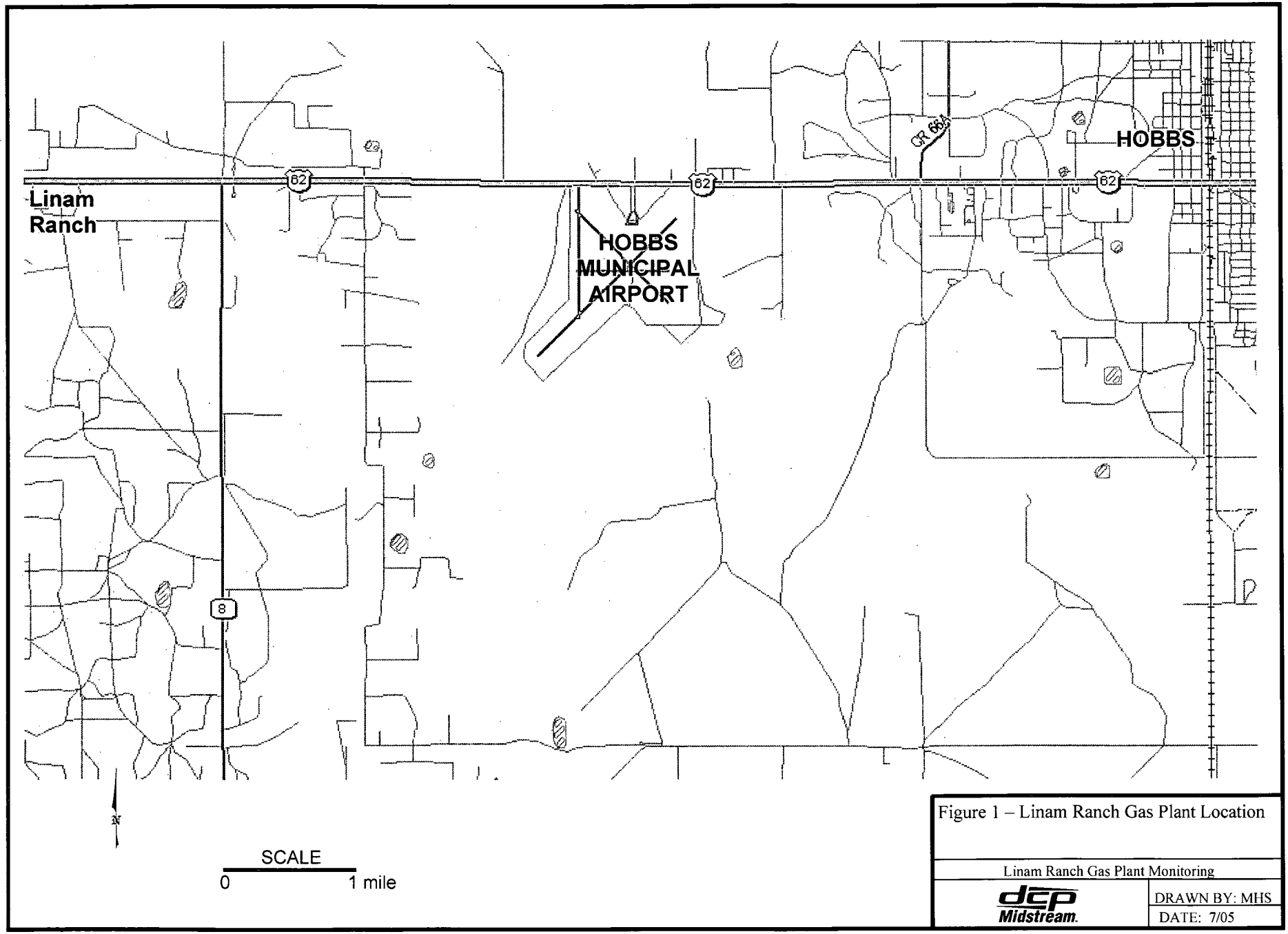


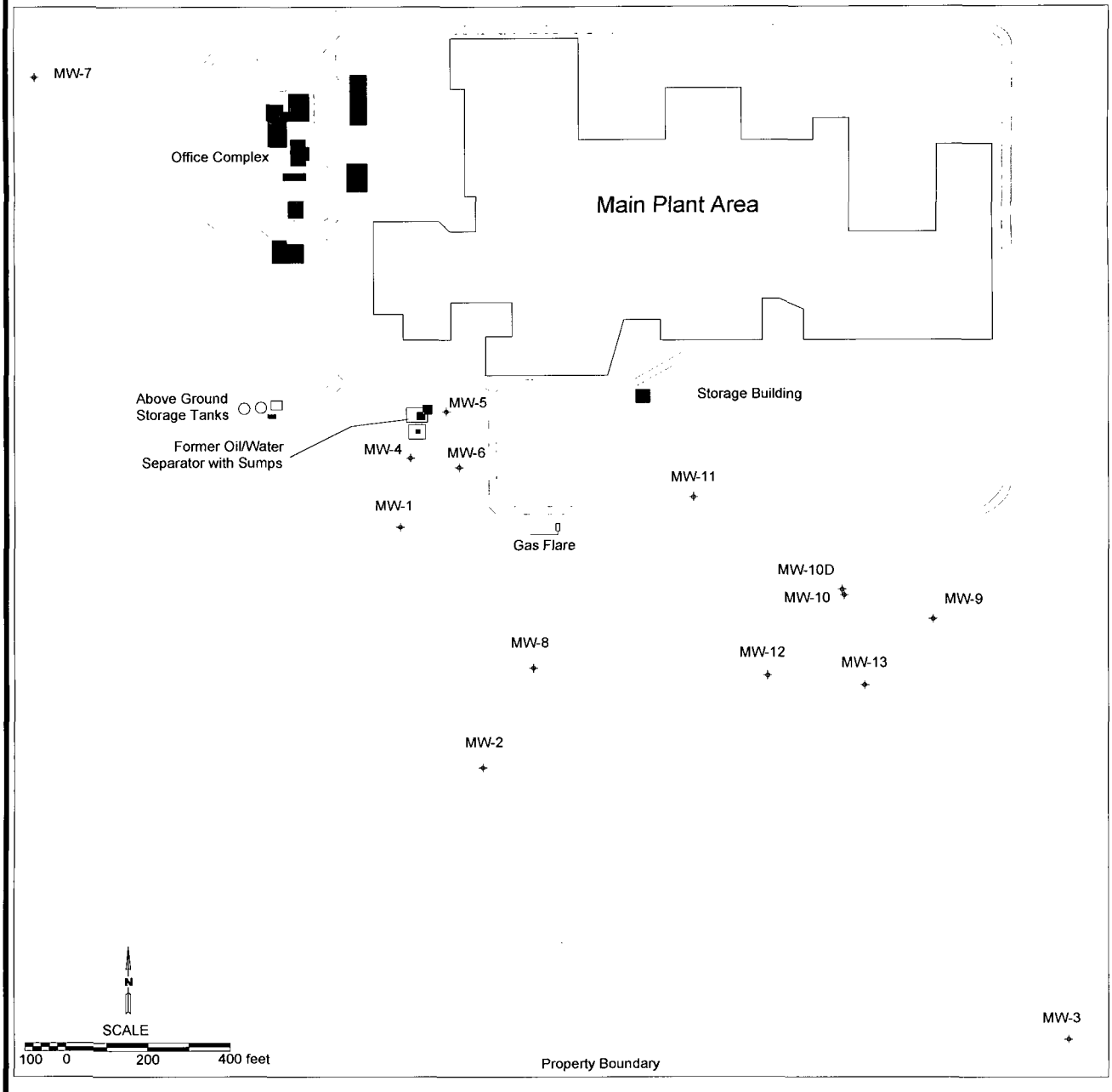
Figure 1 – Linam Ranch Gas Plant Location

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 7/05



Note: MW-12 is no longer monitored because of its proximity to the main plant flare.

Figure 2 – Monitor Well Locations
Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS
REVISED: 6/07
DATE: 6/07

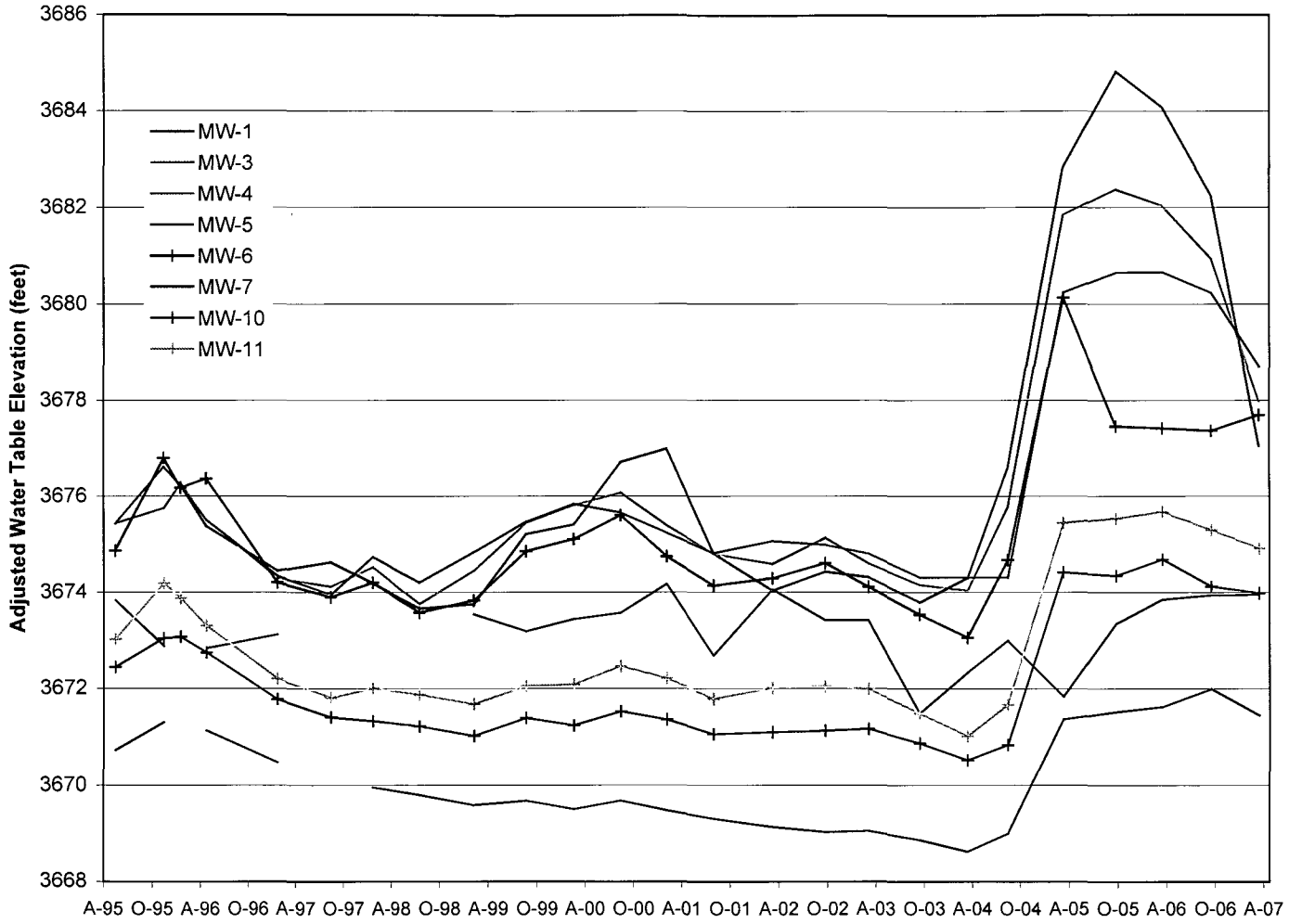


Figure 3 – Linam Ranch Gas Plant Hydrographs

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 6/07

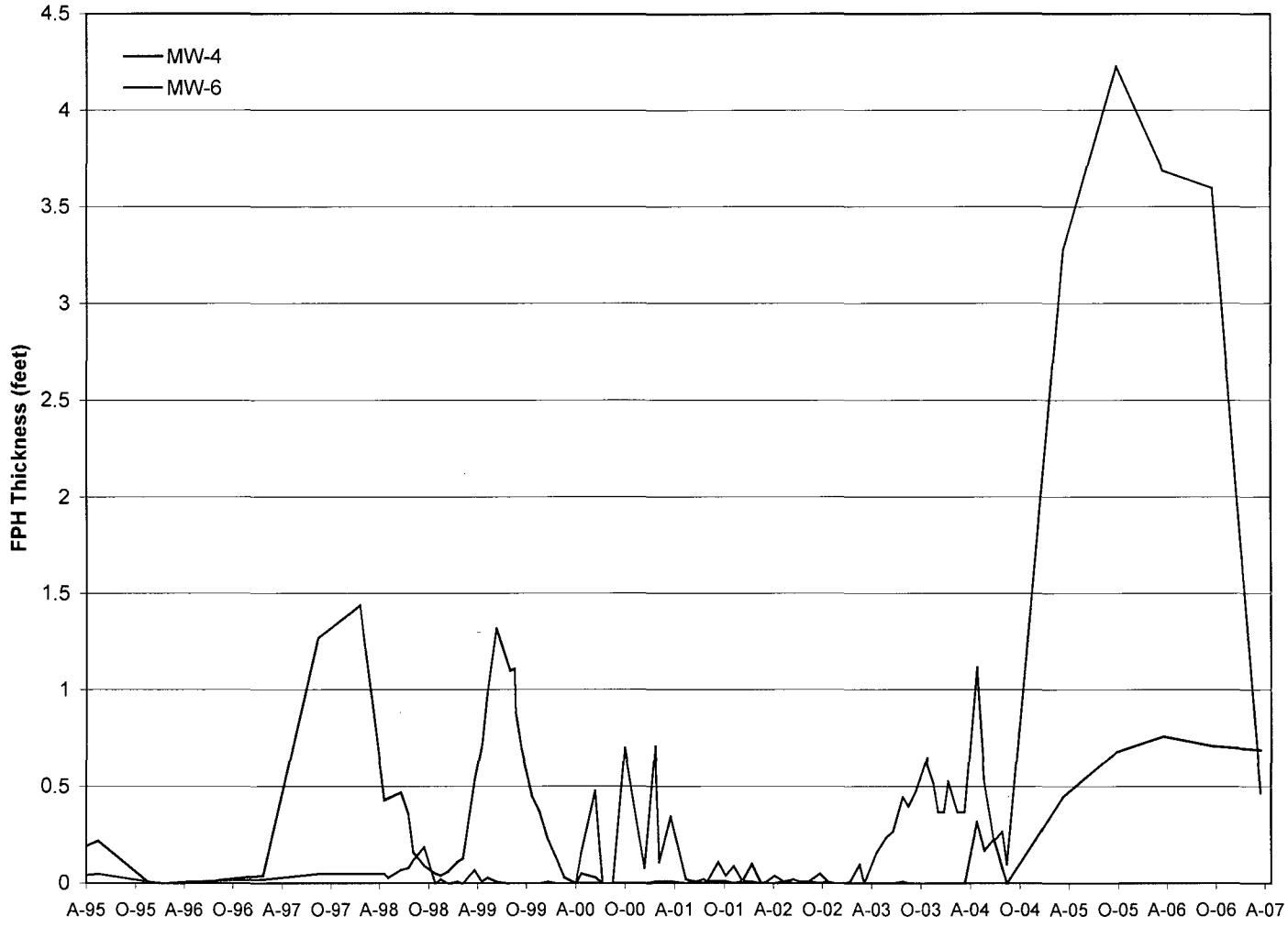


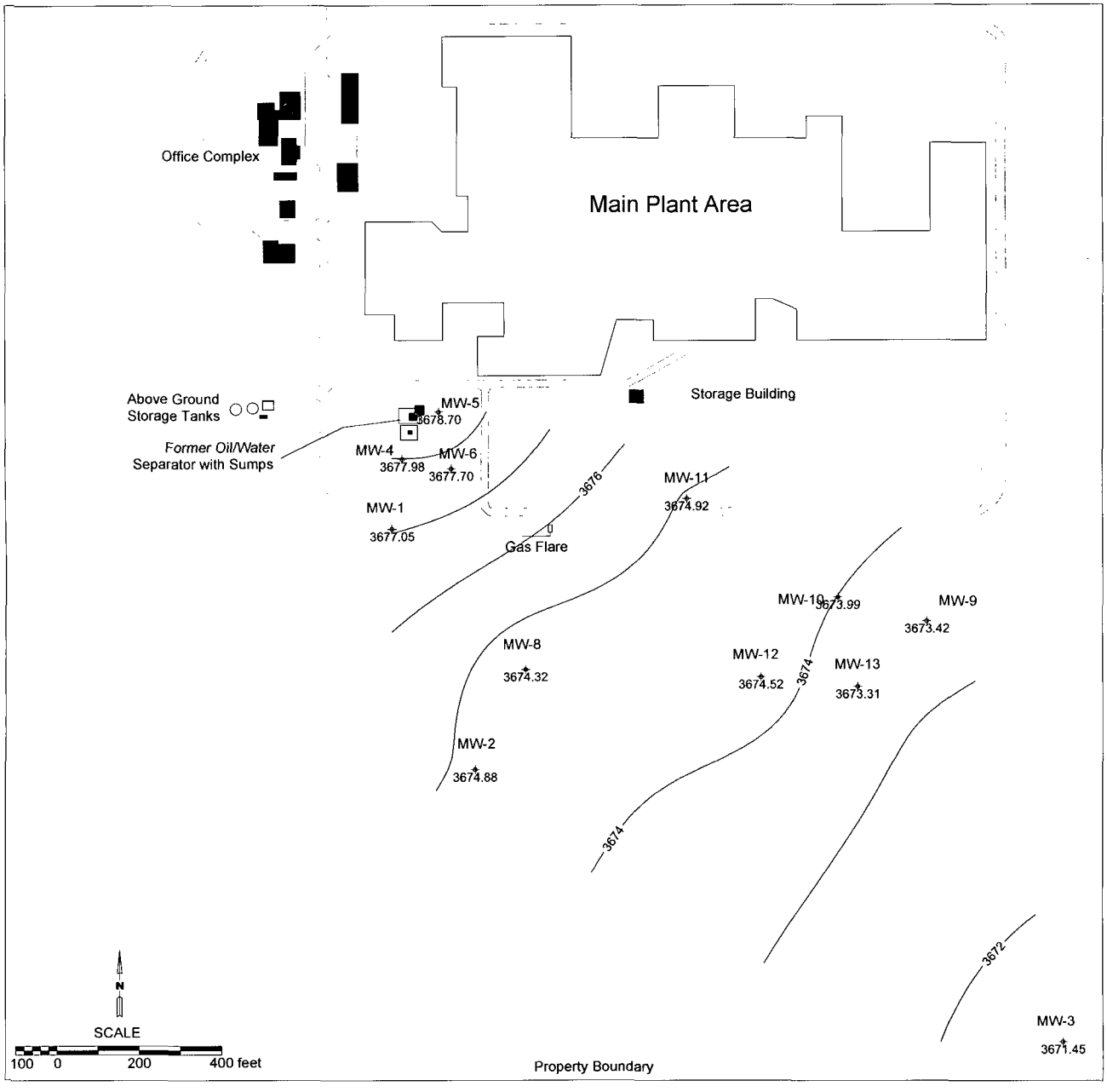
Figure 4 – Linam Ranch Free Phase Hydrocarbon Thickness

Linam Ranch Gas Plant Monitoring

DCP Midstream

DRAWN BY: MHS

DATE: 6/07



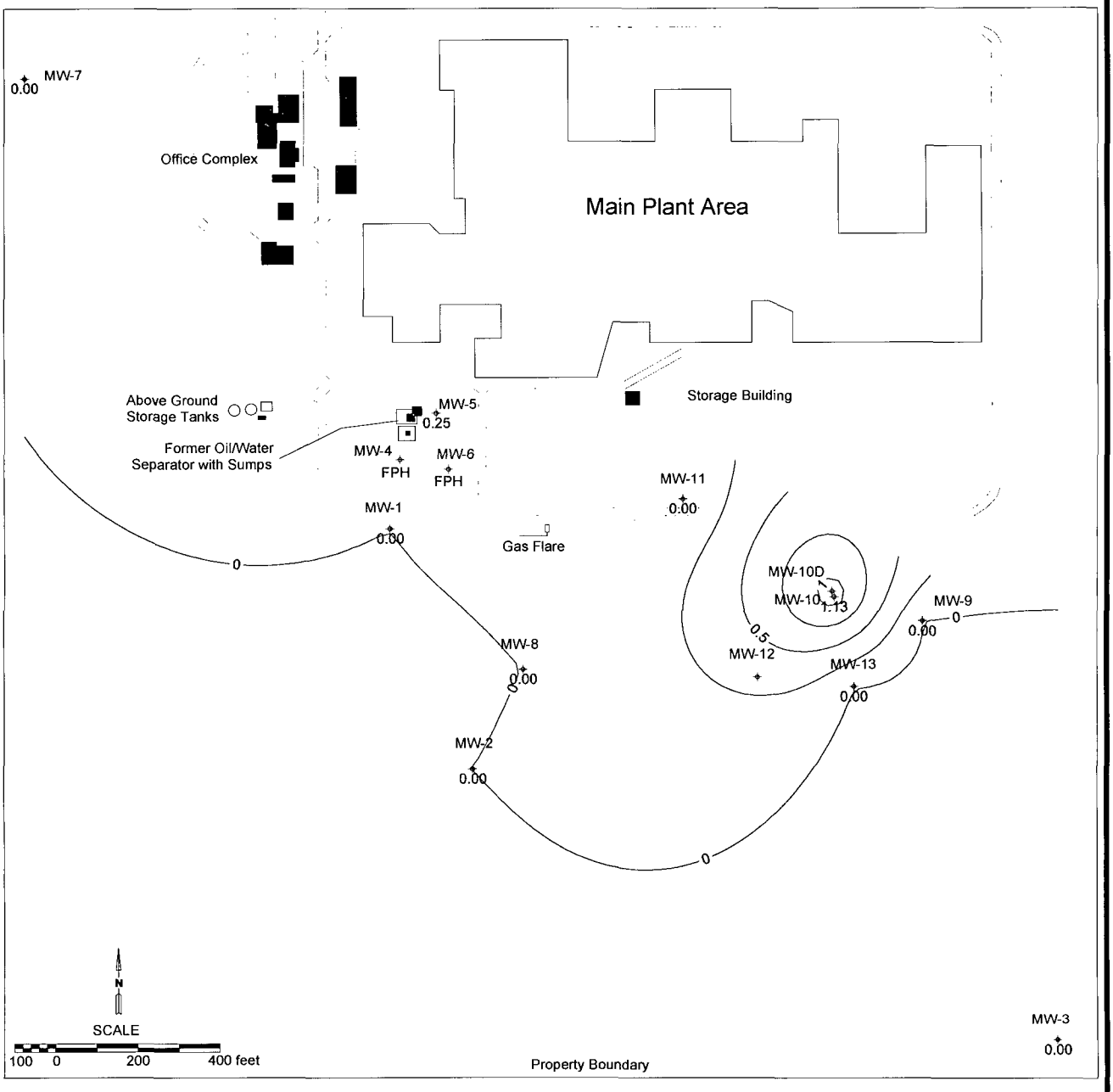
contour interval is 1 foot

Figure 5 – March 2007 Water Table Elevation Contours

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	6/07



FPH: Free phase hydrocarbons
Contour interval is 0.25 mg/l
Values shown as 0.00 are below the 0.001 mg/l method reporting limit

Figure 6 – March 2007 Benzene Distribution
Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	6/07

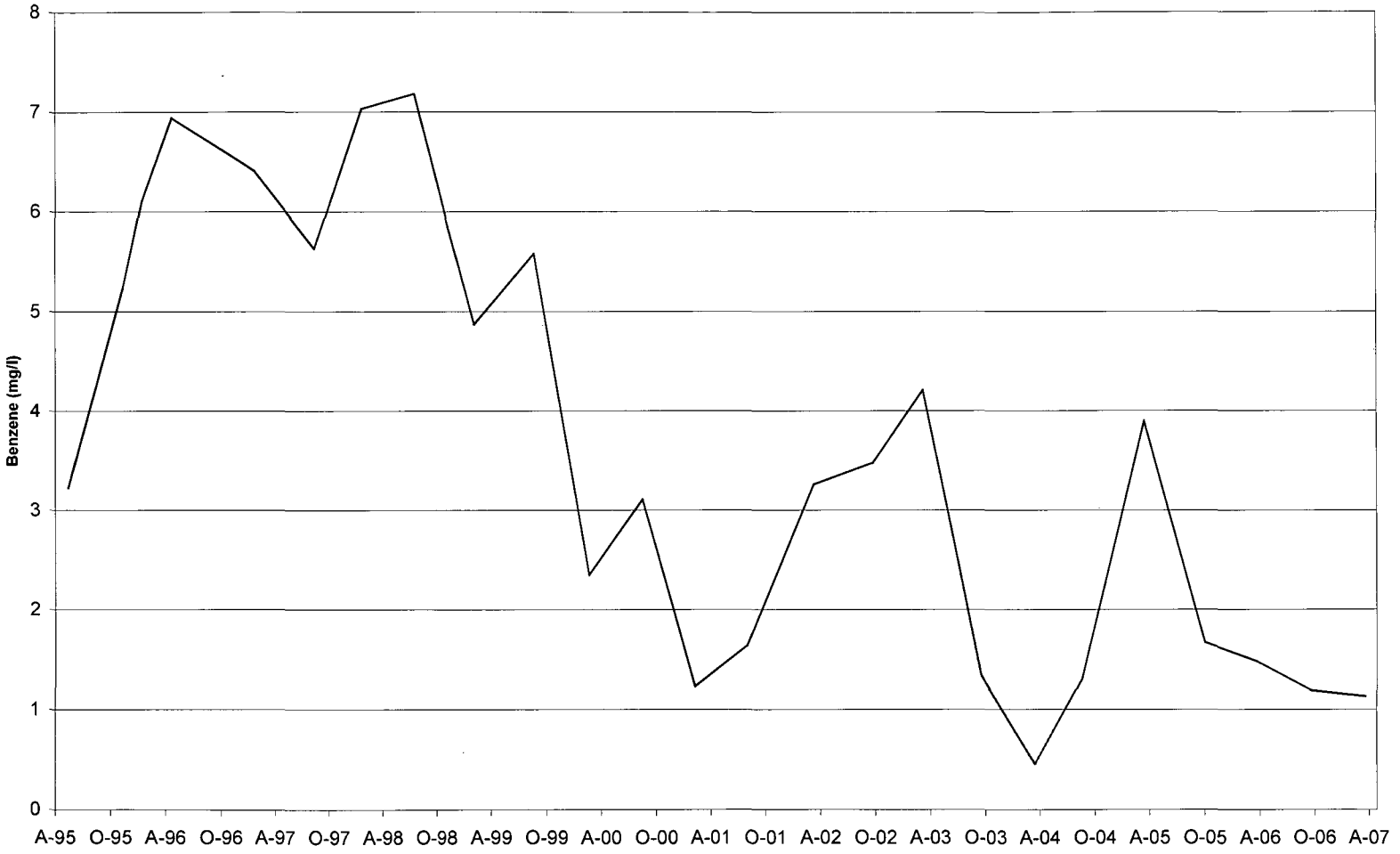


Figure 7 – BTEX Concentrations in MW-10

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 6/07

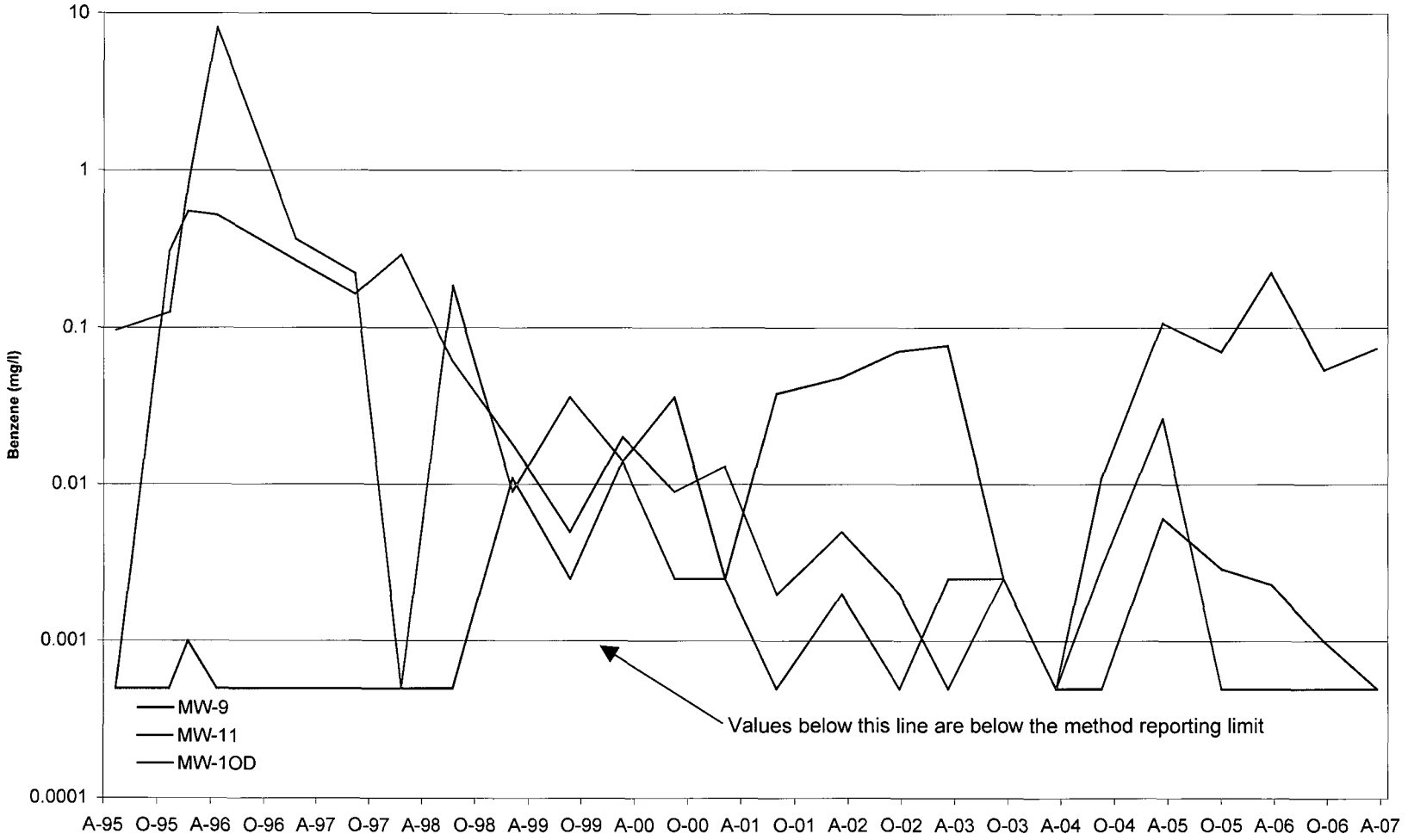


Figure 8 – BTEX Concentrations in MW-9, MW-10D and MW-11

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 6/07

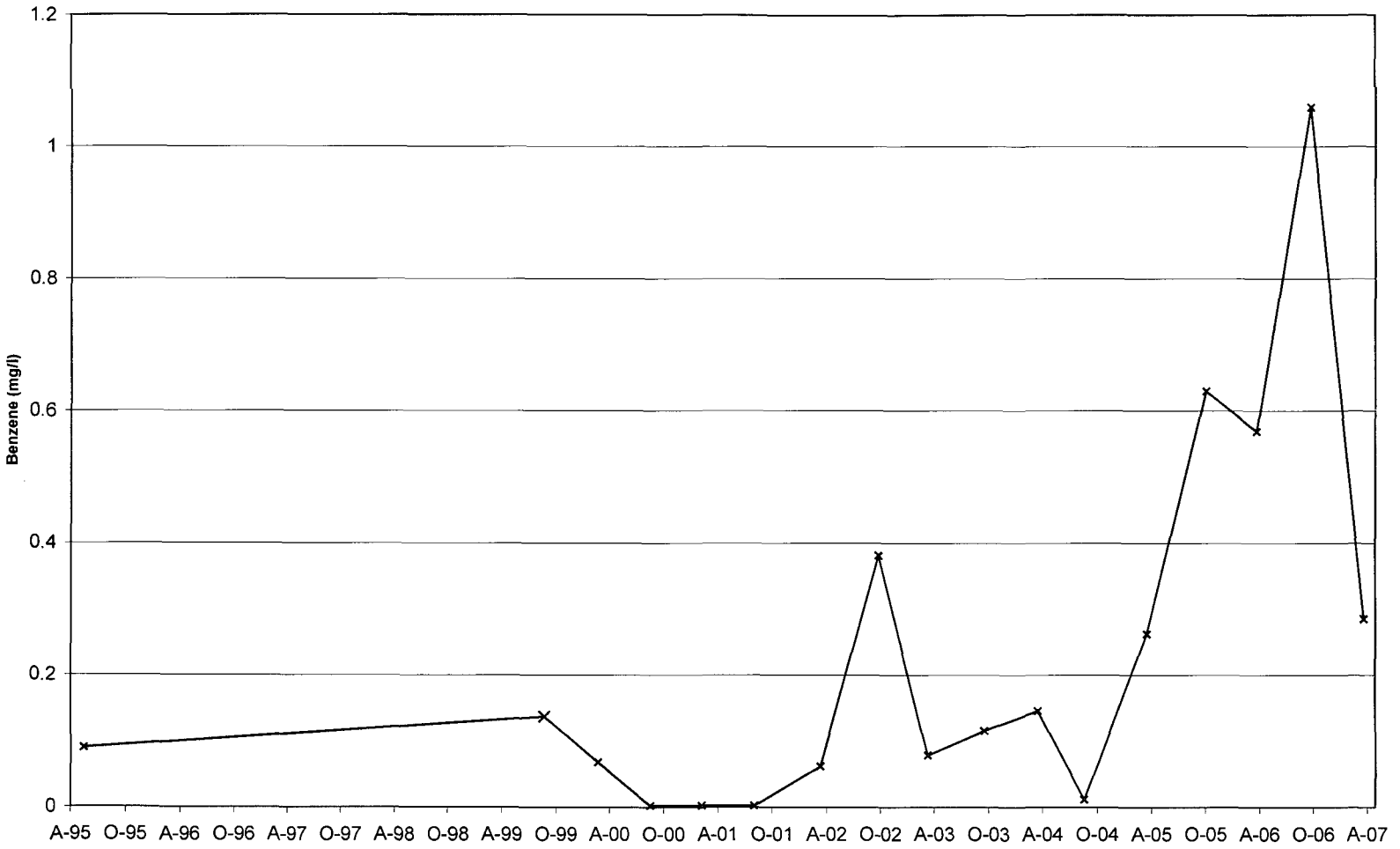


Figure 9 – BTEX Concentrations in MW-5

Linam Ranch Gas Plant Monitoring

DCP Midstream.

DRAWN BY: MHS

DATE: 6/07

FIELD SAMPLING DATA AND

LABORATORY ANALYTICAL REPORT

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-1**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 54.20 Feet
DEPTH TO WATER: 43.13 Feet
HEIGHT OF WATER COLUMN: 11.07 Feet
WELL DIAMETER: 2.0 Inch

5.4 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
12:16	0.0	-	-	-	-	-	Began Hand Bailing!
12:24	1.8	21.4	1.33	7.13	-	-	
12:32	3.6	20.1	1.37	7.11	-	-	
12:39	5.4	19.8	1.33	7.17	-	-	
0:23	:Total Time (hr:min)		**5.4**	:Total Vol (gal)		**0.23**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1245
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-2**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 50.50 Feet
DEPTH TO WATER: 42.36 Feet
HEIGHT OF WATER COLUMN: 8.14 Feet
WELL DIAMETER: 2.0 Inch

4.0 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
14:00	0.0	-	-	-	-	-	Began Hand Bailing!
14:05	1.4	21.6	0.50	7.36	-	-	
14:11	2.8	20.3	0.48	7.27	-	-	
14:17	4.2	19.9	0.49	7.31	-	-	
0:17	:Total Time (hr:min)		**4.2**	:Total Vol (gal)		**0.25**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1425
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-3**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 55.30 Feet
DEPTH TO WATER: 46.25 Feet
HEIGHT OF WATER COLUMN: 9.05 Feet
WELL DIAMETER: 2.0 Inch

4.4 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
16:14	0.0	-	-	-	-	-	Began Hand Bailing!
16:18	1.7	20.9	0.37	7.49	-	-	
16:26	3.4	20.5	0.36	7.55	-	-	
16:30	5.1	20.1	0.35	7.54	-	-	
0:16	:Total Time (hr:min)		**5.1**	:Total Vol (gal)		**0.32**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1635

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-5**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 55.20 Feet
DEPTH TO WATER: 44.90 Feet
HEIGHT OF WATER COLUMN: 10.30 Feet
WELL DIAMETER: 4.0 Inch

20.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
12:58	0.0	-	-	-	-	-	Began Hand Bailing!
13:07	7.0	22.5	2.45	7.18	-	-	
13:16	14.0	22.6	2.52	7.10	-	-	
13:25	21.0	22.5	2.54	7.14	-	-	
0:27	:Total Time (hr:min)		**21**	:Total Vol (gal)		**0.78**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070321 1330

ANALYSES: BTEX (8021-B)

COMMENTS: Collected Duplicate Sample No.: 0703201900 for BTEX (8021-B)

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-7**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 62.50 Feet
DEPTH TO WATER: 56.88 Feet
HEIGHT OF WATER COLUMN: 5.62 Feet
WELL DIAMETER: 2.0 Inch

2.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:41	0.0	-	-	-	-	-	Began Hand Bailing!
11:44	1.0	20.3	1.10	7.13	-	-	
11:50	2.0	19.9	1.10	7.26	-	-	
11:54	3.0	19.6	1.10	7.31	-	-	
0:13	:Total Time (hr:min)		**3**	:Total Vol (gal)		**0.23**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1200
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-8**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 58.30 Feet
DEPTH TO WATER: 41.86 Feet
HEIGHT OF WATER COLUMN: 16.44 Feet
WELL DIAMETER: 4.0 Inch

32.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
14:39	0.0	-	-	-	-	-	Began Hand Bailing!
14:52	11.0	20.7	0.63	7.27	-	-	
15:05	22.0	19.4	0.65	7.31	-	-	
15:20	33.0	19.7	0.67	7.41	-	-	
0:41	:Total Time (hr:min)		**33**	:Total Vol (gal)		**0.80**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1525

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-9**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 59.10 Feet
DEPTH TO WATER: 49.06 Feet
HEIGHT OF WATER COLUMN: 10.04 Feet
WELL DIAMETER: 2.0 Inch

4.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
16:51	0	-	-	-	-	-	Began Hand Bailing!
16:54	1.7	20.3	1.17	7.00	-	-	
17:02	3.4	20.2	1.17	7.04	-	-	
17:08	5.1	20.1	1.17	7.07	-	-	
0:17	:Total Time (hr:min)		**5.1**	:Total Vol (gal)		**0.30**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320 1715

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-10**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 65.00 Feet
DEPTH TO WATER: 48.91 Feet
HEIGHT OF WATER COLUMN: 16.09 Feet
WELL DIAMETER: 4.0 Inch

31.5 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
9:15	0.0	-	-	-	-	-	Began Hand Bailing!
9:32	11.0	20.0	1.65	7.09	-	-	
9:46	22.0	20.1	1.68	7.32	-	-	
10:01	33.0	20.0	1.67	7.44	-	-	
0:46	:Total Time (hr:min)		**33**	:Total Vol (gal)		**0.71**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070321 1005

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-10d**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 79.00 Feet
DEPTH TO WATER: 50.12 Feet
HEIGHT OF WATER COLUMN: 28.88 Feet
WELL DIAMETER: 2.0 Inch

14.1 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:21	0.0	-	-	-	-	-	Began Hand Bailing!
10:34	5.0	20.7	1.28	7.34	-	-	
10:47	10.0	20.8	1.25	7.36	-	-	
10:57	14.0	20.6	1.22	7.39	-	-	
0:36	:Total Time (hr:min)		**14**	:Total Vol (gal)		**0.39**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070321 1102
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-11**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 62.80 Feet
DEPTH TO WATER: 49.61 Feet
HEIGHT OF WATER COLUMN: 13.19 Feet
WELL DIAMETER: 4.0 Inch

25.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:14	0.0	-	-	-	-	-	Began Hand Bailing!
11:22	9.0	20.7	1.29	7.19	-	-	
11:31	18.0	20.8	1.28	7.19	-	-	
11:40	27.0	20.7	1.28	7.25	-	-	
0:26	:Total Time (hr:min)		**27**	:Total Vol (gal)		**1.03**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070321 1145
ANALYSES: BTEX (8021-B)
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-12**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 58.30 Feet
DEPTH TO WATER: 48.32 Feet
HEIGHT OF WATER COLUMN: 9.98 Feet
WELL DIAMETER: 4.0 Inch

19.5 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
	0.0	-	-	-	-	-	Began Hand Bailing!
0:00	:Total Time (hr:min)		**0**	:Total Vol (gal)		**#DIV/0!**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070320

ANALYSES: BTEX (8021-B)

COMMENTS: Did Not Gauge and Purge Monitoring Well!

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-13**
SITE NAME: Linam Ranch Gas Plant
DATE: 3/20/2007
PROJECT NO. F-114
SAMPLER: J. Fergerson

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 63.00 Feet
DEPTH TO WATER: 50.68 Feet
HEIGHT OF WATER COLUMN: 12.32 Feet
WELL DIAMETER: 4.0 Inch

24.1 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m* S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
17:30	0.0	-	-	-	-	-	Began Hand Bailing!
17:38	9.0	19.5	1.46	7.01	-	-	
17:48	17.0	19.6	1.52	7.10	-	-	
17:58	25.0	19.3	1.53	7.16	-	-	
0:28 :Total Time (hr:min)			**25** :Total Vol (gal)			**0.89** :Flow Rate (gal/min)	

SAMPLE NO.: Collected Sample No.: 070320 1810

ANALYSES: BTEX (8021-B)

COMMENTS: Collected MS/MSD Samples!

TRACEANALYSIS, INC.

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

Analytical and Quality Control Report

Mike Stewart
American Environmental Consulting
6885 South Marshall Street
Suite 3
Littleton, CO, 80128

Report Date: March 30, 2007

Work Order: 7032346

Project Location: Lea County,NM
Project Name: Linam Ranch Gas Plant
Project Number: Linam Ranch Gas Plant/Duke Energy Field Services

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
119800	MW-7 (0703201200)	water	2007-03-20	12:00	2007-03-23
119801	MW-1 (0703201245)	water	2007-03-20	12:45	2007-03-23
119802	MW-5 (0703201330)	water	2007-03-20	13:30	2007-03-23
119803	MW-2 (0703201425)	water	2007-03-20	14:25	2007-03-23
119804	MW-8 (0703201525)	water	2007-03-20	15:25	2007-03-23
119805	MW-3 (0703201635)	water	2007-03-20	16:35	2007-03-23
119806	MW-9 (0703201715)	water	2007-03-20	17:15	2007-03-23
119807	MW-13 (0703201810)	water	2007-03-20	18:10	2007-03-23
119808	Duplicate (0703201900)	water	2007-03-20	19:00	2007-03-23
119809	MW-10 (0703211005)	water	2007-03-21	10:05	2007-03-23
119810	MW-10d (0703211105)	water	2007-03-21	11:05	2007-03-23
119811	MW-11 (0703211145)	water	2007-03-21	11:45	2007-03-23
119812	Trip Blank	water	2007-03-21	00:00	2007-03-23

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

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

Michael Abel

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 119800 - MW-7 (0703201200)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0912	mg/L	1	0.100	91	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0806	mg/L	1	0.100	81	22.2 - 104.5

Sample: 119801 - MW-1 (0703201245)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0927	mg/L	1	0.100	93	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0715	mg/L	1	0.100	72	22.2 - 104.5

Sample: 119802 - MW-5 (0703201330)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.285**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.220**	mg/L	1	0.00100
Xylene		**0.0157**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.107	mg/L	1	0.100	107	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)	[1]	0.120	mg/L	1	0.100	120	22.2 - 104.5

Sample: 119803 - MW-2 (0703201425)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.00220**	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0917	mg/L	1	0.100	92	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0721	mg/L	1	0.100	72	22.2 - 104.5

Sample: 119804 - MW-8 (0703201525)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0737	mg/L	1	0.100	74	22.2 - 104.5

Sample: 119805 - MW-3 (0703201635)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100

[1]High surrogate recovery due to peak interference.

continued ...

sample 119805 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0925	mg/L	1	0.100	92	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0705	mg/L	1	0.100	70	22.2 - 104.5

Sample: 119806 - MW-9 (0703201715)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		**0.00750**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0819	mg/L	1	0.100	82	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0792	mg/L	1	0.100	79	22.2 - 104.5

Sample: 119807 - MW-13 (0703201810)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0938	mg/L	1	0.100	94	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0624	mg/L	1	0.100	62	22.2 - 104.5

Sample: 119808 - Duplicate (0703201900)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.218**	mg/L	5	0.00100
Toluene		<0.00500	mg/L	5	0.00100
Ethylbenzene		**0.175**	mg/L	5	0.00100
Xylene		**0.0285**	mg/L	5	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.426	mg/L	5	0.500	85	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.315	mg/L	5	0.500	63	22.2 - 104.5

Sample: 119809 - MW-10 (0703211005)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**1.13**	mg/L	10	0.00100
Toluene		**0.212**	mg/L	10	0.00100
Ethylbenzene		**0.222**	mg/L	10	0.00100
Xylene		**0.279**	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.865	mg/L	10	1.00	86	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.933	mg/L	10	1.00	93	22.2 - 104.5

Sample: 119810 - MW-10d (0703211105)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0736**	mg/L	10	0.00100
Toluene		**0.0563**	mg/L	10	0.00100
Ethylbenzene		<0.0100	mg/L	10	0.00100
Xylene		<0.0100	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.857	mg/L	10	1.00	86	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.883	mg/L	10	1.00	88	22.2 - 104.5

Sample: 119811 - MW-11 (0703211145)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0947	mg/L	1	0.100	95	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0637	mg/L	1	0.100	64	22.2 - 104.5

Sample: 119812 - Trip Blank

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	Sample Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0926	mg/L	1	0.100	93	23.9 - 107.4
4-Bromofluorobenzene (4-BFB)		0.0896	mg/L	1	0.100	90	22.2 - 104.5

Method Blank (1) QC Batch: 35881

QC Batch:	35881	Date Analyzed:	2007-03-26	Analyzed By:	ss
Prep Batch:	31139	QC Preparation:	2007-03-26	Prepared By:	ss

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001

continued ...

method blank continued ...

Parameter	Flag	MDL Result	Units	RL
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0926	mg/L	1	0.100	93	60.1 - 116.8
4-Bromofluorobenzene (4-BFB)		0.0908	mg/L	1	0.100	91	54.4 - 112.5

Laboratory Control Spike (LCS-1)

QC Batch: 35881 | Date Analyzed: 2007-03-26 | Analyzed By: ss
Prep Batch: 31139 | QC Preparation: 2007-03-26 | Prepared By: ss

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0982	mg/L	1	0.100	<0.000200	98	76.4 - 120.5
Toluene	0.102	mg/L	1	0.100	<0.000200	102	79.2 - 117.8
Ethylbenzene	0.100	mg/L	1	0.100	<0.000200	100	78.8 - 117.9
Xylene	0.305	mg/L	1	0.300	<0.000300	102	80 - 120.1

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0980	mg/L	1	0.100	<0.000200	98	76.4 - 120.5	0	20
Toluene	0.101	mg/L	1	0.100	<0.000200	101	79.2 - 117.8	1	20
Ethylbenzene	0.101	mg/L	1	0.100	<0.000200	101	78.8 - 117.9	1	20
Xylene	0.308	mg/L	1	0.300	<0.000300	103	80 - 120.1	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0872	0.0850	mg/L	1	0.100	87	85	59.5 - 117.8
4-Bromofluorobenzene (4-BFB)	0.0948	0.0949	mg/L	1	0.100	95	95	63.2 - 122.4

Matrix Spike (MS-1) Spiked Sample: 119807

QC Batch: 35881 | Date Analyzed: 2007-03-26 | Analyzed By: ss
Prep Batch: 31139 | QC Preparation: 2007-03-26 | Prepared By: ss

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0840	mg/L	1	0.100	<0.000200	84	75.9 - 114.2
Toluene	0.0847	mg/L	1	0.100	<0.000200	85	78.7 - 111.8
Ethylbenzene	0.0825	mg/L	1	0.100	<0.000200	82	78.3 - 112.3
Xylene	0.240	mg/L	1	0.300	<0.000300	80	79.3 - 114.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0846	mg/L	1	0.100	<0.000200	85	75.9 - 114.2	1	20
Toluene	0.0860	mg/L	1	0.100	<0.000200	86	78.7 - 111.8	2	20
Ethylbenzene	0.0844	mg/L	1	0.100	<0.000200	84	78.3 - 112.3	2	20
Xylene	0.245	mg/L	1	0.300	<0.000300	82	79.3 - 114.8	2	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0871	0.0849	mg/L	1	0.1	87	85	43.9 - 121.4
4-Bromofluorobenzene (4-BFB)	0.0616	0.0585	mg/L	1	0.1	62	58	54.2 - 120.1

Matrix Spike (MS-2) Spiked Sample: 119795

QC Batch: 35881 | Date Analyzed: 2007-03-26 | Analyzed By: ss
Prep Batch: 31139 | QC Preparation: 2007-03-26 | Prepared By: ss

Param		MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	[2]	0.0732	mg/L	10.084	0.100	<0.00202	73	75.9 - 114.2
Toluene	[3]	0.0731	mg/L	1	0.100	<0.000200	73	78.7 - 111.8
Ethylbenzene	[4]	0.0713	mg/L	1	0.100	<0.000200	71	78.3 - 112.3
Xylene	[5]	0.211	mg/L	1	0.300	0.0036	69	79.3 - 114.8

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0816	mg/L	10.084	0.100	<0.00202	82	75.9 - 114.2	11	20
Toluene	0.0839	mg/L	1	0.100	<0.000200	84	78.7 - 111.8	14	20
Ethylbenzene	0.0828	mg/L	1	0.100	<0.000200	83	78.3 - 112.3	15	20
Xylene	0.250	mg/L	1	0.300	0.0036	82	79.3 - 114.8	17	20

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

Surrogate		MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)		0.0815	0.0843	mg/L	1	0.1	82	84	43.9 - 121.4
4-Bromofluorobenzene (4-BFB)	[6]	0.0527	0.0629	mg/L	1	0.1	53	63	54.2 - 120.1

Standard (ICV-1)

QC Batch: 35881 | Date Analyzed: 2007-03-26 | Analyzed By: ss

[2]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[3]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[4]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[5]Matrix spike recovery out of control limits due to peak interference. Use LCS/LCSD to demonstrate analysis is under control.
[6]Surrogate out due to peak interference.

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0971	97	85 - 115	2007-03-26
Toluene		mg/L	0.100	0.101	101	85 - 115	2007-03-26
Ethylbenzene		mg/L	0.100	0.0978	98	85 - 115	2007-03-26
Xylene		mg/L	0.300	0.302	101	85 - 115	2007-03-26

Standard (CCV-1)

QC Batch: 35881 Date Analyzed: 2007-03-26 Analyzed By: ss

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0953	95	85 - 115	2007-03-26
Toluene		mg/L	0.100	0.0973	97	85 - 115	2007-03-26
Ethylbenzene		mg/L	0.100	0.0962	96	85 - 115	2007-03-26
Xylene		mg/L	0.300	0.285	95	85 - 115	2007-03-26

LAB Order ID # 7032546 Page 2 of 2

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

6015 Harris Pkwy., Suite 110
Ft. Worth, Texas 76132
Tel (817) 201-5260

Company Name: American Environmental Consulting — Phone #: 303-948-7733

Address: (Street, City, Zip) 8885 S. Marshall, Suite 3, Littleton, CO 80128 — Fax #: 303-948-7739

Contact Person: Tile Stewart — E-mail:

Invoice to: (If different from above) DCP Midstream Attn: Daniel Dick

Project #: — Project Name: DCP Midstream Linam Ranch Gas Plant

Project Location (including state): Lea County, New Mexico — Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE		PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE		SAMPLING: DATE	TIME
9811	MW-1 (070321 1145)	3	Voa	✓					✓				✓			3/21/07	1145
12	Trip Blank	2	Voa	✓					✓				✓				
	Temp Blank	1		✓									✓				

MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / 602 / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					Turn Around Time if different from standard	Hold
	✓																						
	✓																						

Relinquished by:	Date:	Time:	Received by:	Date:	Time:
	3/28/07	1615			
Relinquished by:	Date:	Time:	Received by:	Date:	Time:
Relinquished by:	Date:	Time:	Received at Laboratory by:	Date:	Time:
				3-23-07	16:10

LAB USE ONLY
Intact (Y) N
Headspace Y / (N)
Temp 3 °
Log-in-Review

REMARKS: all tests - Midland

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Courier

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

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LAB Order ID # 703234 6 Page 1 of 2

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

200 East Sunset Rd., Suite E
El Paso, Texas 79922
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6015 Harris Pkwy., Suite 110
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Company Name: American Environmental Consulting — Phone #: 303-948-7733

Address: (Street, City, Zip) 1885 S. Marshall, Suite 3, Littleton, CO 80128 — Fax #: 303-948-7739

Contact Person: Mike Stewart — E-mail:

Invoice to: (If different from above) DCP Midstream Attn: Daniel Dick

Project #: — Project Name: DCP Midstream - Linam Ranch Gas Plant

Project Location (including state): Lea County, New Mexico — Sampler Signature:

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / ~~602~~ / 8260B / 624	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content					MS/MSD	Turn Around Time if different from standard	Hold
0800	MW-7 (0703201200)	3	Voa	✓				✓				✓		3/20/07	1200		✓																					
01	MW-1 (0703201245)	3	Voa	✓				✓				✓		3/20/07	1245		✓																					
02	MW-5 (0703201330)	3	Voa	✓				✓				✓		3/20/07	1330		✓																					
03	MW-2 (0703201425)	3	Voa	✓				✓				✓		3/20/07	1425		✓																					
04	MW-8 (0703201525)	3	Voa	✓				✓				✓		3/20/07	1525		✓																					
05	MW-3 (0703201635)	3	Voa	✓				✓				✓		3/20/07	1635		✓																					
06	MW-9 (0703201715)	3	Voa	✓				✓				✓		3/20/07	1715		✓																					
07	MW-13 (0703201810)	9	Voa	✓				✓				✓		3/20/07	1810		✓																				✓	
08	Duplicate (0703201900)	3	Voa	✓				✓				✓		3/20/07	1900		✓																					
09	MW-10 (0703211005)	3	Voa	✓				✓				✓		3/21/07	1005		✓																					
10	MW-10d (0703211105)	3	Voa	✓				✓				✓		3/21/07	1105		✓																					

ANALYSIS REQUEST
(Circle or Specify Method No.)

Relinquished by: Date: 3/23/07 Time: 1615 — Received by: — Date: — Time:

Relinquished by: — Date: — Time: — Received by: — Date: — Time:

Relinquished by: — Date: — Time: — Received at Laboratory by: — Date: 3.23.07 Time: 1610

LAB USE ONLY
Intact Y / N
Headspace Y N
Temp 3 °C
Log-in-Review AT

REMARKS: all tests - Midland

☐ Dry Weight Basis Required
☐ TRRP Report Required
☐ Check If Special Reporting Limits Are Needed

Carrier # Carry-in

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

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370 17th Street, Suite 2500
Denver, Colorado 80202
303-605-1893 – main
303-605-1957 – fax

November 5, 2007

Mr. Wayne Price
Environmental Bureau Chief
New Mexico Oil Conservation Division
1220 S. St. Francis Dr.
Santa Fe, NM 87505

RE: Third Quarter 2007 Groundwater Monitoring Report for the DCP Linam Ranch Gas Plant (GW-015)
Unit B, Section 6, Township 19 South, Range 37 East

Dear Mr. Price:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the Third Quarter 2007 Groundwater Monitoring Report for the DCP Linam Ranch Gas Plant located in Lea County, New Mexico (Unit B Section 6, Township 19 South, Range 37 East).

Groundwater monitoring activities were completed on September 28, 2007. The data indicate that the groundwater conditions remain stable. The next monitoring event is scheduled for the end of First Quarter 2008.

If you have any questions regarding the report, please call at 303-605-1718 or e-mail me swweathers@dcpmidstream.com .

Sincerely,

DCP Midstream, LP

Stephen Weathers, P.G.
Sr. Environmental Specialist

Enclosure

cc: Larry Johnson – OCD District Office, Hobbs
Lynn Ward – DCP Midstream, Midland
Environmental Files

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

October 29, 2007

Mr. Stephen Weathers
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Summary of Third Quarter 2007 Groundwater Monitoring Event at the Linam Ranch Gas Plant, Lea County, New Mexico
Unit B, Section 6, Township 19 South, Range 37 East

Dear Steve:

This letter summarizes the activities completed and data generated during the third quarter 2007 groundwater-sampling event at the DCP Midstream, LP (DCP) Linam Ranch Gas Plant in Lea County New Mexico. The facility is located in New Mexico Oil Conservation Division (OCD) designated Unit B, Section 6, Township 19 South, Range 37 East (Figure 1). The coordinates are 32.6965 degrees north, 103.2883 degrees west. The facility is an active gas-processing plant.

The 14 monitoring well locations are shown on Figure 2. Construction information is included in Table 1. Well MW-12 can no longer be monitored because of DCP safety concerns. It is directly adjacent to the main flare, and the flare can ignite without warning. The down-gradient area in this vicinity is adequately monitored by MW-9 and MW-13.

The event included the measurement of fluid levels in all monitoring wells and the sampling of all wells that did not contain measurable free phase hydrocarbons (FPH). Trident Environmental of Midland Texas completed the sampling on September 28, 2007.

The fluid measurements, FPH thicknesses and corrected groundwater elevations are summarized in Table 2. The water-table elevations for the wells containing FPH were estimated using the following formula:

$GWE_{corr} = MGWE + (FPHT*PD)$: where

- MGWE is the actual measured groundwater elevation;
- FPHT is the measured free-phase hydrocarbon thickness; and
- PD is the free phase hydrocarbon density (assumed 0.81 based upon historic data).

The historic water-table elevation data are summarized in Table 3. Hydrographs for select wells throughout the study area are included on Figure 3. The water table generally declined throughout the area with the exception of MW-2. The water table in MW-2 increased by 19 feet. Examination of Figure 3 indicates that this phenomena, which originates from the well's location in an area where surface water ponds during precipitation events, has occurred to a lesser degree in the past.

The historical FPH thickness values in MW-4 and MW-6 are graphed in Figure 4. The FPH thickness in both wells rebounded. FPH was removed from MW-4 and MW-6 between April 1998 and August 2004. Only 12.2 gallons were removed from MW-4 and 14.3 gallons were removed from MW-6 over this 76-month period. This limited volume indicates that the FPH is relatively immobile and difficult to remove. DCP is currently evaluating alternative removal schemes that could be safely implemented within an active gas-processing plant.

A water-table contour map for the September 2007 data was generated using the program Surfer with its kriging option (Figure 5). Note that well MW-7 was not included in this map. The water-table elevation in MW-7 is lower than those measured in the wells in the central area (MW-1, MW-4, MW-5 and MW-6). Including this well results in a water-table configuration that suggests radial flow from the center of the property. Well MW-7 has never contained measurable benzene, toluene, ethylbenzene or xylenes. This lack of impacts suggests that the relatively higher water table measured in the central part of the site is localized so the contours should not be carried to the northwest.

The water-table contours shown on Figure 5 exhibit a radial groundwater flow pattern because of the high water table that was measured in MW-2. This change deflects the groundwater flow toward the north and the eastern property boundary.

The analytical results are summarized in Table 4, and the laboratory report is attached. The quality control evaluation is summarized in the bottom of Table 4. The results can be summarized as follows:

- There were no BTEX detections in the trip blank.
- The duplicate values for the detected constituents were less than 10 percent.
- All but two of the surrogate spikes were within their respective ranges.
- The laboratory the matrix spike and matrix spike duplicate analysis were all within their respective control limits.

The above facts establish that the data is suitable for all intended uses.

The constituents that exceed the potentially applicable New Mexico Water Quality Control Commission groundwater standards are highlighted in Table 4. The samples from wells MW-5, MW-10 and MW-10D exceeded the benzene standard but not the toluene, ethylbenzene and xylenes standards. None of the other wells, including down-gradient boundary wells MW-2, MW-8, MW-9 and MW-13 contained BTEX constituents above the method reporting limits.

Benzene isopleths generated by the Surfer program using the kriging option are plotted on Figure 6 for the September 2007 data. Figure 6 establishes the following facts:

- Any of the dissolved-phase BTEX constituents that emanate from the FPH in MW-4 and MW-6 attenuate to concentrations that are at or below the method reporting limits before encountering any of the boundary wells.
- The elevated dissolved-phase BTEX constituents that are measured at MW-10 and MW-10D attenuate to concentrations that are below the method reporting limits at the interior down gradient wells MW-9 and MW-13.
- The patterns described in the above two bullets have remained constant since the middle of 2001.
- The above data establishes that dissolved-phase releases from the FPH in this area attenuate to below the method reporting (and detection) limits approximately 1,000 feet from the nearest down-gradient property boundary.

The historical data for all wells is summarized in Table 5 for benzene, Table 6 for toluene, Table 7 for ethylbenzene and Table 8 for total xylenes. Graphs of benzene concentrations verses time are included for MW-10 in Figure 7. This graph indicates that the benzene concentration in MW-10 has remained constant since September 2006.

Time-benzene graphs for MW-9, MW-10D and MW-11 are included in Figure 8. Examination of these graphs indicates that benzene was not detected in MW-9 and MW-11 above the 0.001 method reporting limit while the concentration increased in MW-10D.

A benzene-time graph for MW-5, located upgradient from MW-4 and MW-6, is included as Figure 9. The benzene concentration declined for the second straight monitoring episode following a 2-year overall increasing trend.

The above results, particularly the lack of detects in the down-gradient wells, indicates that the plume is not expanding past its historic limits. Moreover, the land to the east owned by DCP provides an additional down-gradient buffer from the facility boundary to the property boundary (Figure 7).

The next semi-annual groundwater-monitoring episode is scheduled for the first quarter of 2008. Do not hesitate to contact me if you have any questions or comments on this report or any other aspects of the projects.

Sincerely,
AMERICAN ENVIRONMENTAL CONSULTING, LLC

Michael H. Stewart, PE
Principal Engineer

MHS/tbm

attachment

TABLES

Table 1 – Linam Ranch Gas Plant Well Construction Summary

Well	Well Elevation (Top of Casing)	Well Depth (TOC)	Well Diameter
	(feet)	(feet)	(inches)
MW-1	3718.29	54.20	2
MW-2	3714.80	50.50	2
MW-3	3715.50	55.30	2
MW-4	3720.46	54.13	4
MW-5	3721.53	55.20	4
MW-6	3720.99	54.10	4
MW-7	3728.57	62.50	2
MW-8	3714.18	58.30	4
MW-9	3720.48	59.10	2
MW-10	3720.76	65.00	4
MW-10D	3720.85	79.00	2
MW-11	3722.02	62.80	4
MW-12	Inaccessible because of safety concerns		
MW-13	3721.63	63.00	4

Table 2 –Linam Ranch Gas Plant March 20, 2007 Fluid Gauging Data

Well	Depth to Water	Depth to Product	Free Phase Hydrocarbon Thickness	Corrected Water Table Elevation
MW-1	43.13			3677.05
MW-2	42.36			3674.88
MW-3	46.25			3671.45
MW-4	44.99	44.30	0.69	3677.98
MW-5	44.90			3678.70
MW-6	45.74	45.27	0.47	3677.70
MW-7	56.88			3673.96
MW-8	41.86			3674.32
MW-9	49.06			3673.42
MW-10	48.91			3673.99
MW-10D	50.12			3673.42
MW-11	49.61			3674.92
MW-12	Inaccessible because of safety concerns			
MW-13	50.68			3673.31

Notes: All units in feet

Table 3 - Linam Ranch Gas Plant Summary of Historic Groundwater Elevation Data (feet)

Well	12/1/92	5/22/94	5/17/95	11/14/95	1/17/96	4/24/96	1/22/97	8/15/97	1/22/98	7/20/98	2/9/99	8/24/99	2/21/00	8/17/00	2/6/01
	-														
MW-1		3676.28	3674.68		3676.23	3675.37	3674.45	3674.63	3674.19	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99
MW-2		3682.29	3673.49				3673.19		3672.80	3672.37	3672.41	3674.43	3672.68	3679.43	3674.05
MW-3		3671.47	3670.72	3671.30		3671.13	3670.47		3669.96	3669.80	3669.59	3669.68	3669.51	3669.68	3669.48
MW-4	3677.10	3676.96	3675.43	3675.75	3676.27	3675.50	3674.29	3674.12	3674.52	3673.76	3674.45	3675.44	3675.81	3676.07	3675.39
MW-5	3677.65	3677.33	3675.43	3676.62	3676.23	3675.51	3674.35	3673.96	3674.74	3674.21	3674.84	3675.47	3675.84	3675.66	3675.24
MW-6	3676.87	3676.70	3674.87	3676.80	3676.18	3676.37	3674.21	3673.91	3674.21	3673.59	3673.84	3674.86	3675.11	3675.61	3674.75
MW-8		3674.83	3672.73		3674.47	3673.36	3672.78	3672.04	3671.87	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60
MW-9		3672.89	3671.88	3672.46	3672.64	3672.40	3671.52	3671.14	3671.00	3670.90	3670.67	3670.89	3670.78	3670.92	3670.86
MW-10			3672.45	3673.05	3673.08	3672.75	3671.78	3671.41	3671.33	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36
MW-10D			3672.16	3672.91	3672.81	3672.36	3671.43	3671.07	3671.13	3670.99	3670.78	3671.03	3670.98	3671.29	3670.97
MW-11			3673.03	3674.19	3673.88	3673.31	3672.21	3671.81	3672.01	3671.88	3671.68	3672.06	3672.09	3672.47	3672.22
MW-12			3672.37	3673.32	3673.25	3672.75	3671.74	3671.40	3671.34	3671.18	3671.00	3671.59	3671.33	3671.86	3671.50
MW-13			3672.02	3672.57	3672.66	3672.34	3671.43	3671.05	3670.93	3670.80	3670.60	3670.94	3670.74	3671.04	3670.88

Well	8/2/01	3/11/02	9/25/02	3/8/03	9/17/03	3/16/04	8/17/04	3/15/05	9/29/05	3/22/06	9/21/06	3/20/07	9/28/07
MW-1	3674.81	3674.04	3674.43	3674.32	3673.80	3674.30	3676.59	3682.86	3684.83	3684.08	3682.25	3677.05	3677.62
MW-2	3672.69	3672.07	3672.26	3672.21	3671.69	3671.26	3679.10	3679.39	3678.22	3676.04	3681.68	3674.88	3693.79
MW-3	3669.31	3669.14	3669.03	3669.06	3668.87	3668.63	3669.00	3671.37	3671.52	3671.63	3672.00	3671.45	3671.31
MW-4	3674.80	3674.59	3675.13	3674.60	3674.16	3674.04	3675.77	3681.85	3682.38	3682.04	3680.94	3677.98	3677.77
MW-5	3674.82	3675.07	3674.99	3674.81	3674.32	3674.32	3674.32	3680.24	3680.65	3680.66	3680.23	3678.70	3677.03
MW-6	3674.15	3674.30	3674.61	3674.12	3673.55	3673.07	3674.68	3680.13	3677.46	3677.42	3677.37	3677.70	3677.21
MW-8	3671.26	3671.51	3671.59	3671.59	3670.71	3670.67	3673.30	3676.74	3677.01	3675.71	3677.09	3674.32	3681.16
MW-9	3670.62	3670.61	3670.61	3670.68	3670.48	3670.15	3670.28	3673.36	3673.66	3674.00	3673.41	3673.42	3672.65
MW-10	3671.06	3671.10	3671.13	3671.17	3670.87	3670.52	3670.84	3674.42	3674.35	3674.69	3674.13	3673.99	3673.14
MW-10D	3670.76	3670.84	3670.81	3670.85	3670.46	3670.28	3670.51	3673.72	3674.03	3674.05	3673.75	3674.92	3672.70
MW-11	3671.79	3672.02	3672.05	3672.00	3671.49	3671.02	3671.67	3675.45	3675.54	3675.68	3675.30	3674.52	3673.80
MW-12	3671.07	3671.01	3671.09	3671.15	3670.81	3670.36	3671.10	3674.97	3674.46	3674.64	3674.52	NS	NS
MW-13	3670.58	3670.50	3670.50	3670.57	3670.32	3669.95	3670.31	3673.69	3673.61	3673.56	3673.50	3677.05	3672.57

NS: Not sampled due to safety concerns

Table 4 –Linam Ranch Gas Plant September 28, 2007 Sampling Results

Well	Benzene	Toluene	Ethylbenzene	Xylenes
NMWQCC	0.01	0.75	0.75	0.62
MW-1	<0.001	<0.001	<0.001	<0.001
MW-2	<0.001	<0.001	<0.001	<0.001
MW-3	<0.001	<0.001	<0.001	<0.001
MW-5	**0.0706**	<0.001	0.0359	<0.001
MW-5 Dup	**0.0769**	<0.001	0.0389	0.0012
MW-7	<0.001	<0.001	<0.001	<0.001
MW-8	<0.001	<0.001	<0.001	<0.001
MW-9	<0.001	<0.001	<0.001	<0.001
MW-10	**1.18**	0.246	0.163	0.213
MW-10d	**0.218**	0.0902	0.0212	0.0375
MW-11	<0.001	<0.001	<0.001	<0.001
MW-12	Not sampled due to safety concerns			
MW-13	<0.001	<0.001	<0.001	<0.001
Trip Blank	<0.001	<0.001	<0.001	<0.001

NMWQCC: New Mexico Water Quality Control Commission groundwater standards.
Bolded cells exceed the potentially-applicable NMWQCC standard
All units mg/l

Quality Assurance Evaluation for the September 2007 Data

MW-5 Duplicate Samples

	Benzene	Toluene	Ethylbenzene	Total Xylenes
RPD (%)	8.54%	NA	8.02%	NA

NA: Not analyzed because one or both of the constituents are below their method reporting limit(s).

MW-2 MS/MSD (percent recovery)

	Benzene	Toluene	Ethylbenzene	Total Xylenes
MS	95	96	97	97
MSD	92	95	98	99

MS: matrix spike
MSD: matrix spike duplicate

Table 5 - Linam Ranch Gas Plant Summary of Historical Results for Benzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0053	<0.001	<0.001											
11/3/1992	0.0015			16.0	0.003	0.34								
12/2/1992	0.0013			17.0	0.009	0.52								
1/12/1994	0.0039			18.0	0.300	0.77		<0.001						
5/17/1995	<0.002	<0.001	<0.001	20.9	0.090	0.98	<0.001	<0.001	<0.001	3.225	0.096	<0.001	<0.001	<0.001
11/14/1995									<0.001	5.23	0.125	0.306	<0.001	0.003
1/17/1996									0.001	6.11	0.841	0.549	<0.001	<0.001
4/24/1996									<0.001	6.94	8.14	0.52	<0.001	<0.001
1/22/1997									<0.001	6.41	0.365	0.267	<0.001	0.048
8/15/1997									<0.001	5.63	0.221	0.164	0.001	0.132
1/22/1998									<0.001	7.03	<0.001	0.291	<0.001	0.082
7/20/1998									<0.001	7.18	0.184	0.061	0.002	0.061
2/9/1999			<0.001						0.011	4.87	0.009	0.018	0.001	0.082
8/25/1999	<0.005	<0.005	<0.001		0.137		<0.005	<0.001	<0.005	5.58	0.036	0.005	0.003	0.062
2/22/2000	<0.005	<0.005	<0.001		0.068		<0.005	<0.005	0.014	2.35	0.014	0.02	<0.001	0.08
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	0.002	0.036	3.11	<0.005	0.009	<0.005	0.04
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	1.23	<0.005	0.013	<0.001	0.023
8/2/2001	0.003	0.007	0.002		<0.005		<0.005	<0.001	0.038	1.64	<0.001	0.002	<0.001	0.002
3/11/2002	<0.001	<0.001	<0.001	17.9	0.062		<0.001	<0.001	0.048	3.26	0.002	0.005	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	18.8	0.381	1.29	<0.005	<0.001	0.071	3.48	<0.001	0.002	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	16.9	0.079	0.16	<0.005	<0.001	0.077	4.21	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	15.8	0.116		<0.001	<0.005	<0.005	1.34	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	17.8	0.146		<0.001	<0.001	<0.001	0.456	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	16.6	0.012		<0.001	<0.001	<0.001	1.3	0.011	0.003	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.262		<0.001	<0.001	0.0061	3.91	0.107	0.0264	<0.001	<0.001
9/29/2005	0.0067	<0.001	<0.001		0.63		<0.001	<0.001	0.0029	1.67	0.0703	<0.001	<0.001	<0.001
3/22/2006	0.0028	<0.001	<0.001		0.569		<0.001	<0.001	0.0023	1.48	0.224	<0.001	<0.005	<0.001
9/21/2006	0.0011	<0.001	<0.001		1.06		<0.001	<0.001	0.001	1.19	0.0537	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.252		<0.001	<0.001	<0.001	1.13	0.0736	<0.001	NS	<0.001
9/28/07	<0.001	<0.001	<0.001		0.07375		<0.001	<0.001	<0.001	1.18	0.218	<0.001	NS	<0.001

All units mg/l and duplicate values are averaged.
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

Table 6 - Linam Ranch Gas Plant Summary of Historical Results for Toluene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.0067	<0.001	0.0021											
11/3/1992	0.0015			8.0	0.0034	0.023								
12/2/1992	*0.0014*			*8.2*	*0.0041*	*0.020*								
1/12/1994	<0.001			10.0	0.190	0.0029		<0.005						
5/17/1995	<0.002	<0.001	<0.001	1.35	0.014	0.007	<0.001	<0.001	<0.001	0.052	0.004	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.001	0.001	<0.001	<0.001	<0.001
1/17/1996									<0.001	0.863	0.001	0.004	<0.001	<0.001
4/24/1996									<0.001	<0.010	0.046	<0.002	<0.001	<0.001
1/22/1997									<0.001	1.63	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	1.35	<0.01	<0.001	<0.001	<0.001
1/22/1998									<0.001	1.93	<0.001	0.004	<0.001	<0.001
7/20/1998									<0.001	2.34	0.014	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.32	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.037		<0.005	<0.001	<0.005	0.658	<0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		<0.005		<0.005	<0.005	<0.005	0.129	<0.005	<0.001	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		<0.005		<0.005	<0.001	<0.005	0.025	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.082	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	<0.100	<0.001		<0.001	<0.001	<0.001	0.178	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	<0.050	<0.050	<0.005	<0.001	<0.001	<0.100	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	<0.100	<0.050	<0.100	<0.005	<0.001	<0.001	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.006	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.001	<0.001	<0.010	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.001	<0.001	<0.001	<0.020	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.303	0.0444	<0.005	<0.001	<0.001
9/29/2005	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.39	0.0453	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		<0.0100		<0.001	<0.001	<0.001	0.254	0.0614	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.0069		<0.001	<0.001	<0.001	0.197	0.0378	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		<0.005		<0.001	<0.001	<0.001	0.212	0.0563	<0.001	NS	<0.001
9/28/07	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.246	0.0902	<0.001	NS	<0.001

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.:
Blank cells note samples for wells that were either not install or not sampled

Table 7 - Linam Ranch Gas Plant Summary of Historical Results for Ethylbenzene

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	0.001	<0.001	<0.001											
11/3/1992	<0.001			0.7	0.003	0.051								
12/2/1992	<0.001			0.53	0.0082	0.058								
1/12/1994	0.0021			0.5	0.160	0.096		<0.005						
5/17/1995	<0.002	<0.001	<0.001	<0.2	0.138	0.087	<0.001	<0.001	<0.001	0.049	<0.001	<0.001	<0.001	<0.001
11/14/1995									<0.001	<0.001	<0.001	<0.001	<0.001	0.001
1/17/1996									<0.001	1.140	<0.001	0.002	<0.001	<0.001
4/24/1996									<0.001	1.190	1.170	<0.002	<0.001	<0.001
1/22/1997									<0.001	0.294	<0.005	<0.001	<0.001	<0.001
8/15/1997									<0.001	0.479	<0.01	0.002	<0.001	<0.001
1/22/1998									<0.001	0.802	<0.001	<0.001	<0.001	<0.001
7/20/1998									<0.001	0.777	0.008	<0.001	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.516	<0.005	<0.001	<0.001	<0.001
8/25/1999	<0.005	<0.005	<0.001		0.262		<0.005	<0.001	<0.005	0.557	0.001	<0.001	<0.001	<0.001
2/22/2000	<0.005	<0.005	<0.001		0.13		<0.005	<0.005	<0.005	0.164	<0.005	0.002	<0.001	<0.001
8/18/2000	<0.001	<0.001	<0.005		0.006		<0.005	<0.001	<0.005	0.072	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		0.084		<0.005	<0.005	<0.005	0.102	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	0.119	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.450	0.097		<0.001	<0.001	<0.001	0.251	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	0.526	0.588	0.134	<0.005	<0.001	<0.001	0.290	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.520	0.072	0.148	<0.005	<0.001	<0.001	0.303	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	0.259	0.182		<0.001	<0.005	<0.005	0.110	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	0.512	0.241		<0.001	<0.001	<0.001	0.047	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	0.403	0.081		<0.001	<0.001	<0.001	0.119	0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.309		<0.001	<0.001	<0.001	0.888	0.0143	<0.005	<0.001	<0.001
9/29/2005	0.011	<0.001	<0.001		0.267		<0.001	<0.001	<0.001	0.238	0.0061	<0.001	<0.001	<0.001
3/22/2006	0.0013	<0.001	<0.001		0.239		<0.001	<0.001	<0.001	0.241	0.0295	<0.001	<0.005	<0.001
9/21/2006	<0.001	<0.001	<0.001		0.407		<0.001	<0.001	<0.001	0.204	0.0075	<0.001	<0.001	<0.001
3/20/2007	<0.001	0.0022	0.0022		0.1975		<0.001	<0.001	<0.001	0.222	<0.001	<0.001	NS	<0.001
9/28/07	<0.001	<0.001	<0.001		0.0374		<0.001	<0.001	<0.001	0.163	0.0212	<0.001	NS	<0.001

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

Table 8 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

Date	MW-1	MW-2	MW-3	MW-4	MW-5	MW-6	MW-7	MW-8	MW-9	MW-10	MW-10D	MW-11	MW-12	MW-13
9/20/1991	<0.001	<0.001	<0.001											
11/3/1992	0.010			1.8	0.034	0.120								
12/2/1992	0.006			1.3	0.037	0.120								
1/12/1994	0.002			1.3	0.490	0.210		<0.005						
5/17/1995	<0.002	<0.001	<0.001	11.4	0.831	0.181	<0.001	<0.001	<0.001	0.169	0.008	<0.001	<0.001	<0.001
11/14/1995									<0.001	0.406	0.011	0.013	<0.001	<0.001
1/17/1996									0.001	1.050	0.047	0.031	<0.001	<0.001
4/24/1996									<0.001	0.127	0.076	<0.002	<0.001	<0.001
1/22/1997									<0.001	8.97	<0.005	0.017	<0.001	<0.001
8/15/1997									<0.001	0.453	<0.01	0.007	<0.001	0.005
1/22/1998									<0.001	0.635	<0.001	0.015	<0.001	<0.001
7/20/1998									<0.001	0.606	0.006	0.010	<0.001	<0.001
2/9/1999			<0.001						<0.001	0.372	<0.005	<0.001	<0.001	<0.001
8/25/1999	0.006	<0.005	<0.001		0.179		<0.005	<0.001	<0.005	0.359	0.002	<0.001	<0.001	<0.001
2/22/2000	0.006	<0.005	<0.001		0.09		<0.005	<0.005	<0.005	0.124	<0.005	0.008	<0.001	<0.001
8/18/2000	0.011	<0.001	<0.005		0.008		<0.005	<0.001	<0.005	0.038	<0.005	<0.005	<0.005	<0.005
2/7/2001	<0.005	<0.005	<0.005		<0.005		<0.005	<0.005	<0.005	0.086	<0.005	<0.001	<0.001	<0.005
8/2/2001	<0.001	<0.001	<0.001		<0.005		<0.005	<0.001	<0.001	<0.02	<0.001	<0.001	<0.001	<0.001
3/11/2002	<0.001	<0.001	<0.001	0.166	<0.001		<0.001	<0.001	<0.001	0.550	<0.001	<0.001	<0.001	<0.001
9/25/2002	<0.005	<0.001	<0.001	<0.100	0.112	0.058	<0.005	<0.001	0.002	0.155	<0.001	<0.001	<0.001	<0.001
3/10/2003	<0.001	<0.001	<0.001	0.151	<0.050	<0.100	<0.005	<0.001	0.003	<0.100	<0.005	<0.001	<0.001	<0.001
9/17/2003	<0.001	<0.001	<0.001	<0.200	<0.001		<0.001	<0.005	<0.005	0.044	<0.005	<0.005	<0.005	<0.005
3/16/2004	<0.001	<0.001	<0.001	<0.200	0.005		<0.001	<0.001	0.012	0.023	<0.001	<0.001	<0.001	<0.001
8/18/2004	<0.001	<0.001	<0.001	<0.100	<0.005		<0.00	<0.001	0.004	0.071	<0.001	<0.001	<0.001	<0.001
3/15/2005	<0.001	<0.001	<0.001		0.298		<0.001	<0.001	0.0049	1.09	0.0146	0.0115	<0.001	<0.001
9/29/2005	0.0081	<0.001	<0.001		0.327		<0.001	<0.001	<0.001	0.353	0.0119	<0.001	<0.001	<0.001
3/22/2006	<0.001	<0.001	<0.001		0.296		<0.001	<0.001	<0.001	0.304	0.0267	<0.001	<0.005	<0.001
9/21/2006	0.0017	<0.001	<0.001		0.178		0.0015	<0.001	<0.001	0.238	0.0205	<0.001	<0.001	<0.001
3/20/2007	<0.001	<0.001	<0.001		0.0221		<0.001	<0.001	0.0075	0.279	<0.001	<0.001	NS	<0.001
9/28/07	<0.001	<0.001	<0.001		<0.001		<0.001	<0.001	<0.001	0.213	0.0375	<0.001	NS	<0.001

All units mg/l and duplicate values are averaged:
NS: Not sampled due to safety concerns.
Blank cells note samples for wells that were either not install or not sampled

FIGURES

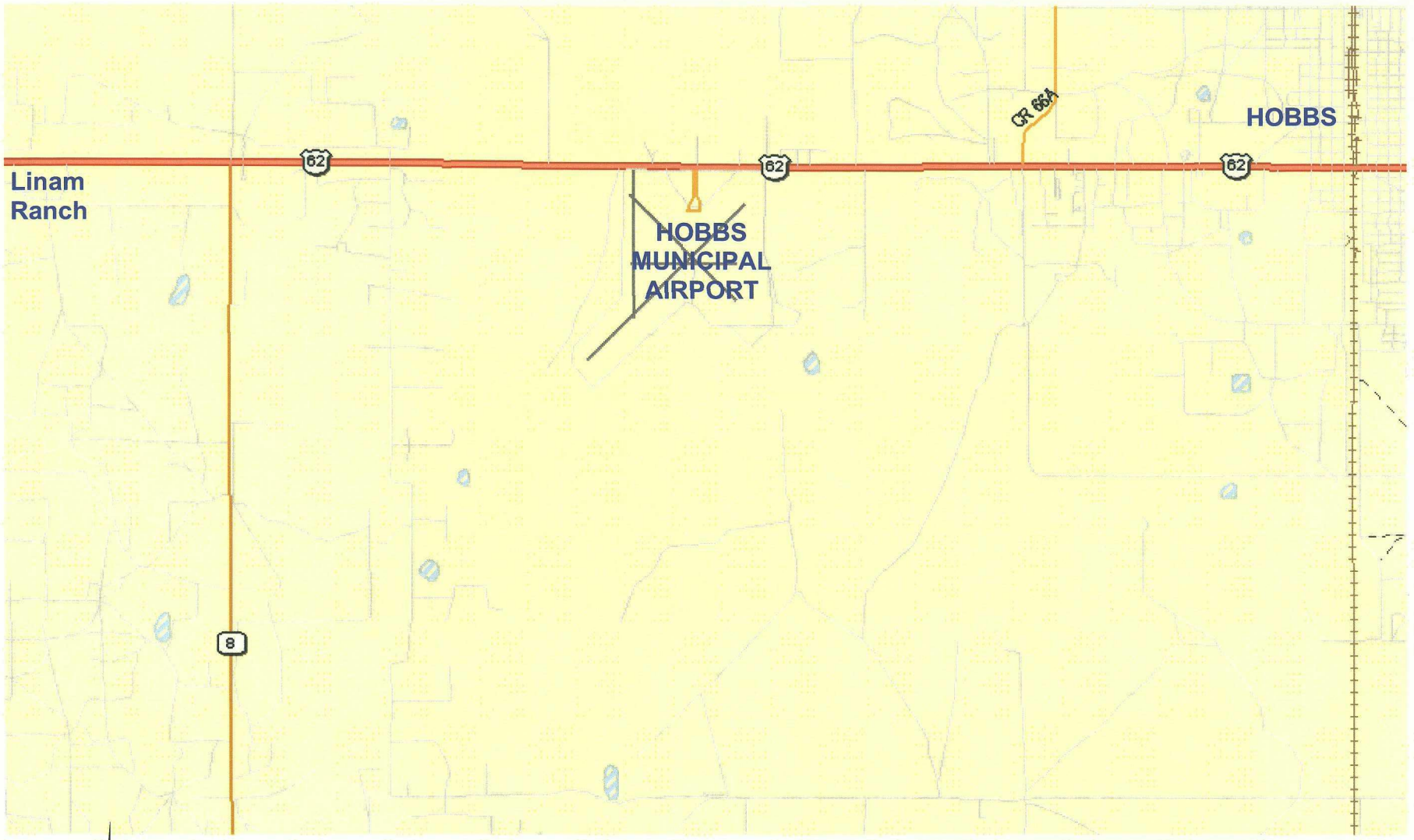


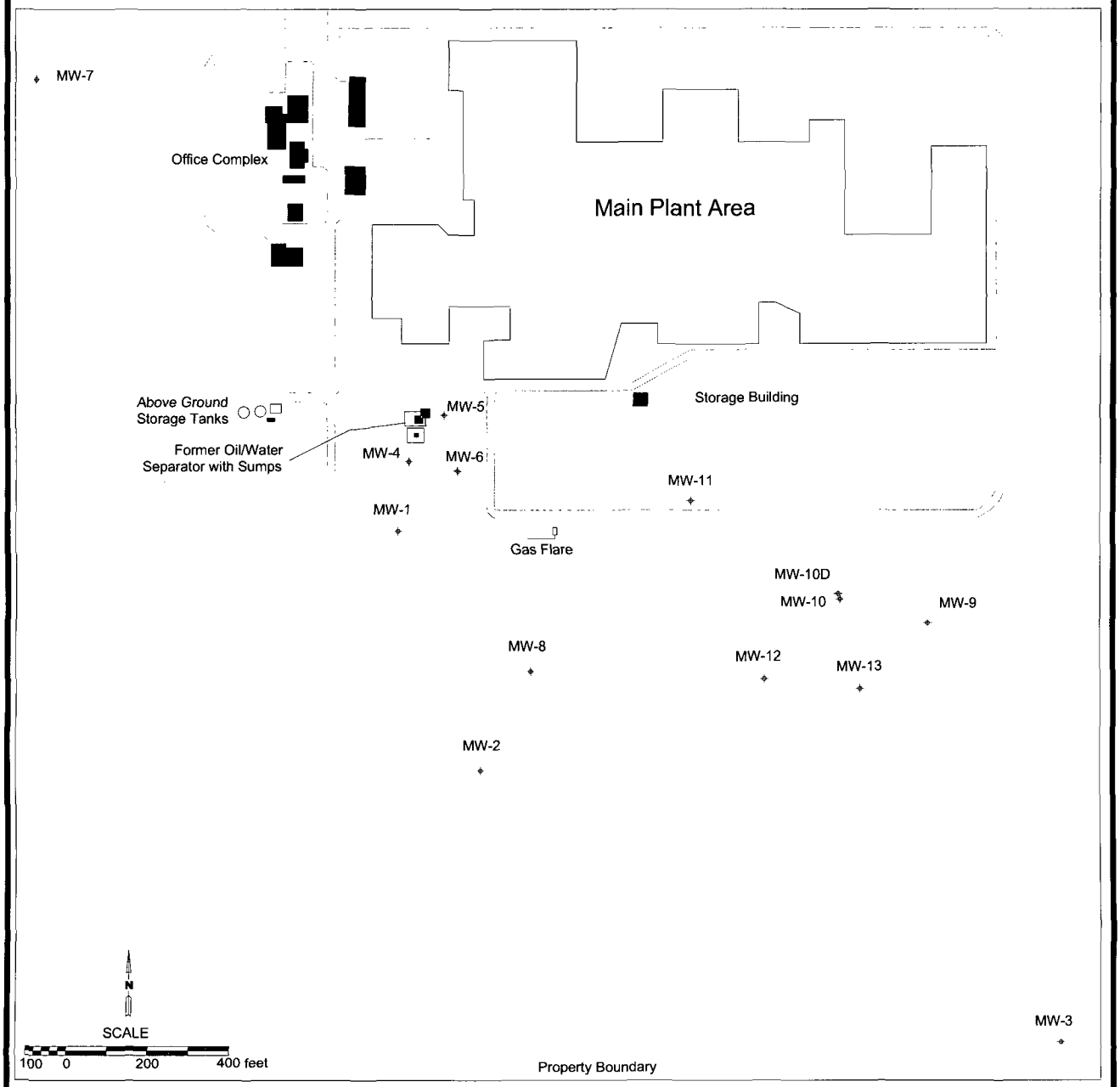
Figure 1 – Linam Ranch Gas Plant Location

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 7/05



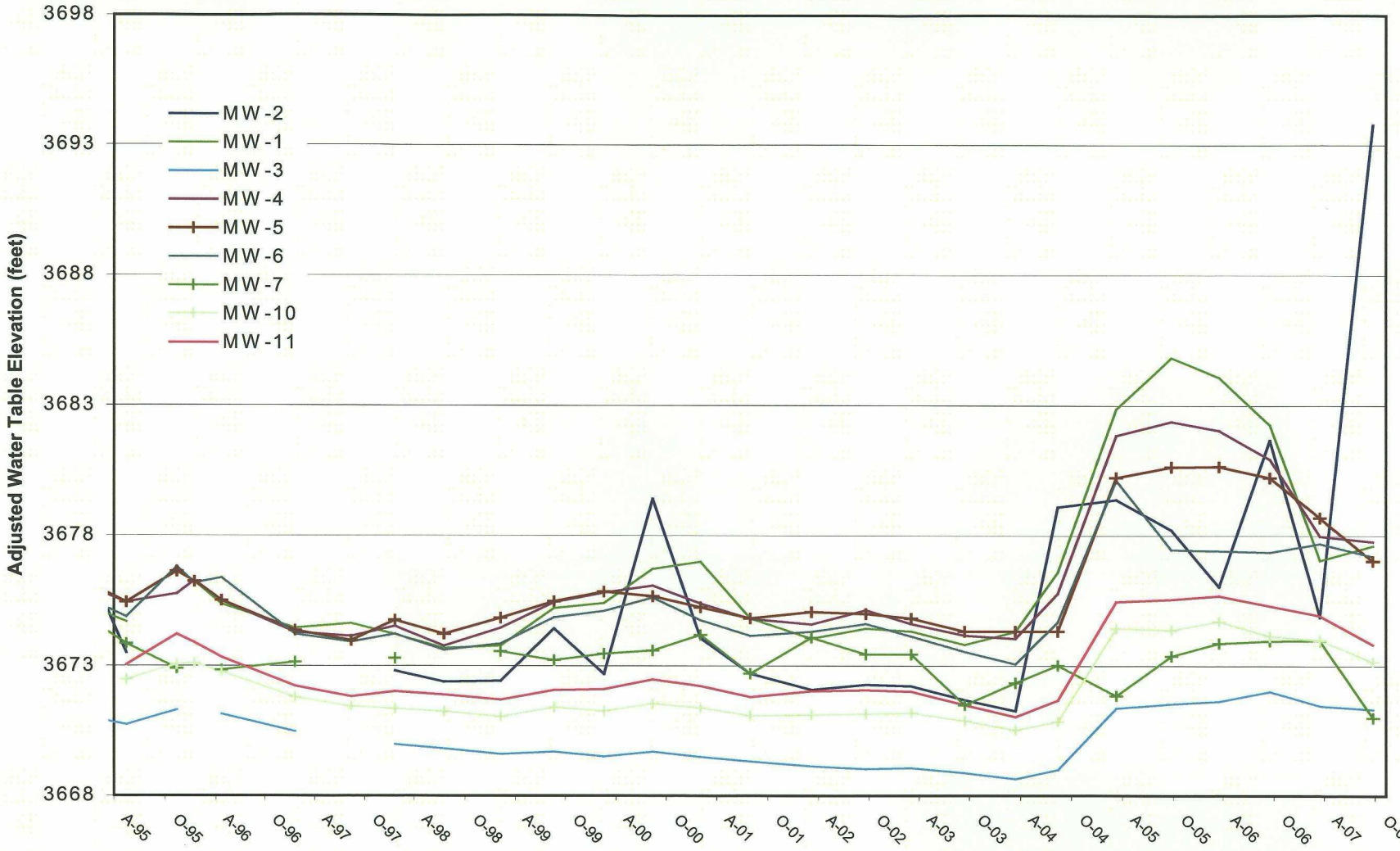
Note: MW-12 is no longer monitored because of its proximity to the main plant flare

Figure 2 – Monitor Well Locations

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	6/07
DATE:	6/07



Dates are April (A) and October (0)

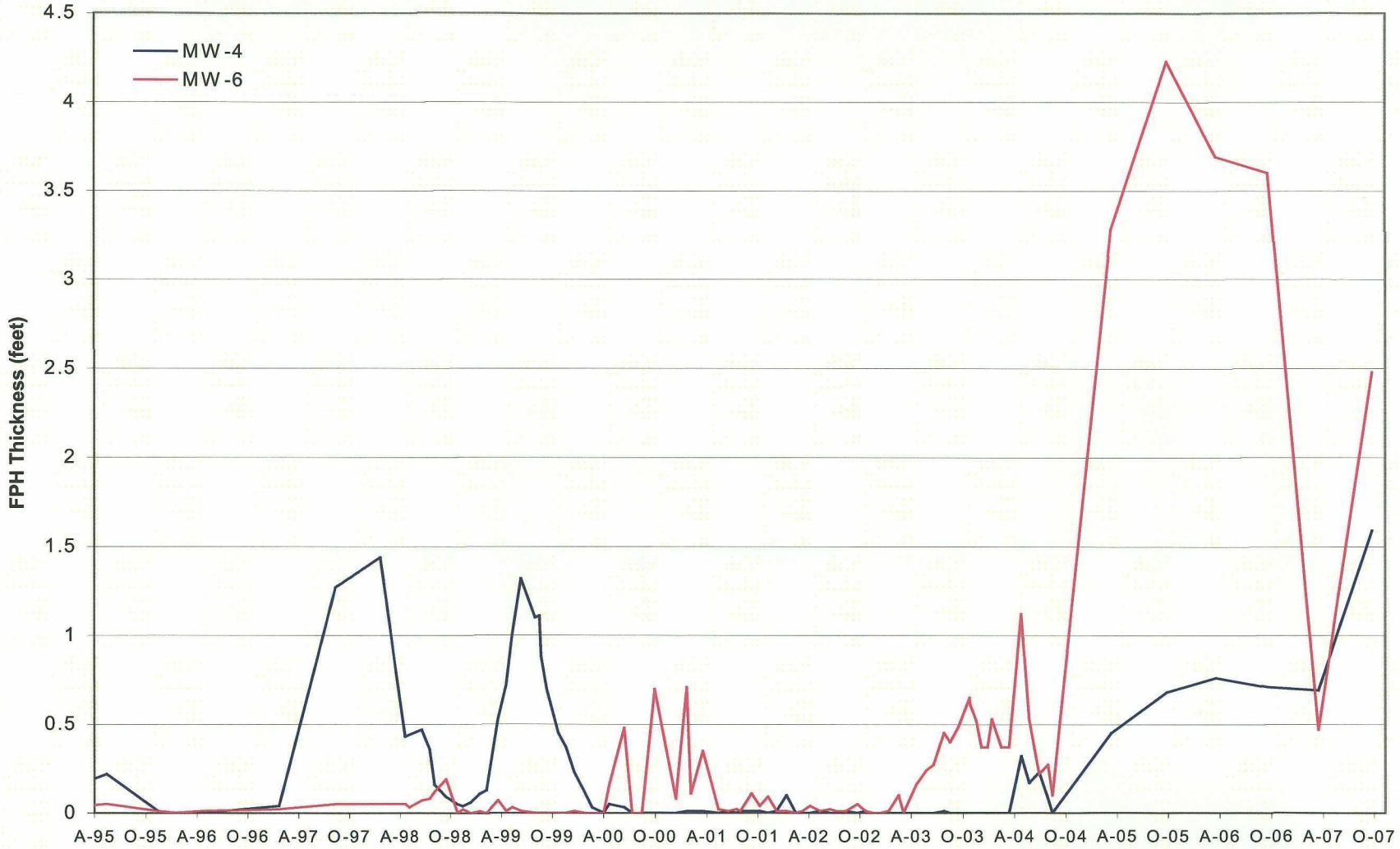
Figure 3 – Linam Ranch Gas Plant Hydrographs

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 10/07



Dates are April (A) and October (0)

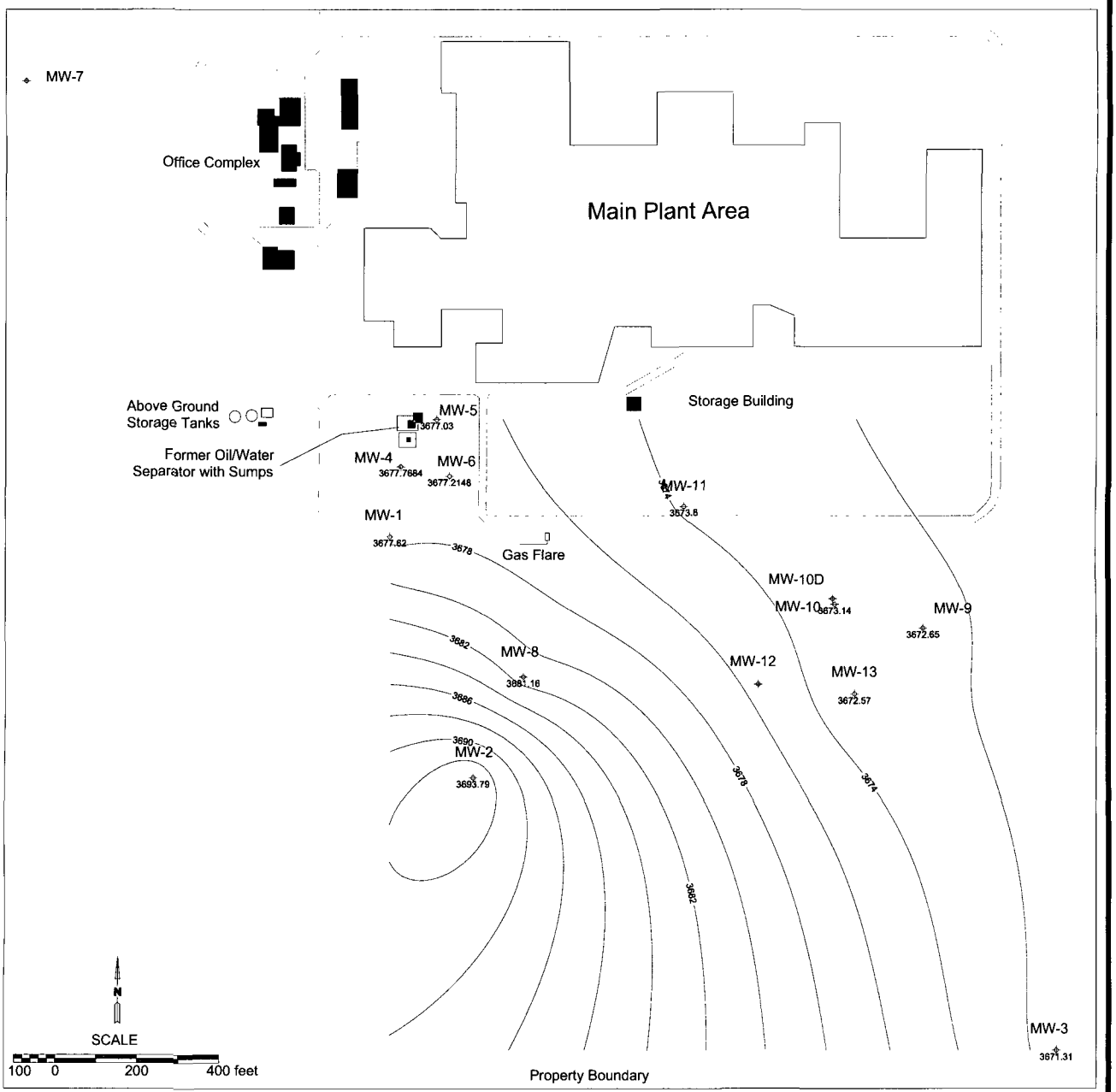
Figure 4 – Linam Ranch Free Phase Hydrocarbon Thickness

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 10/07



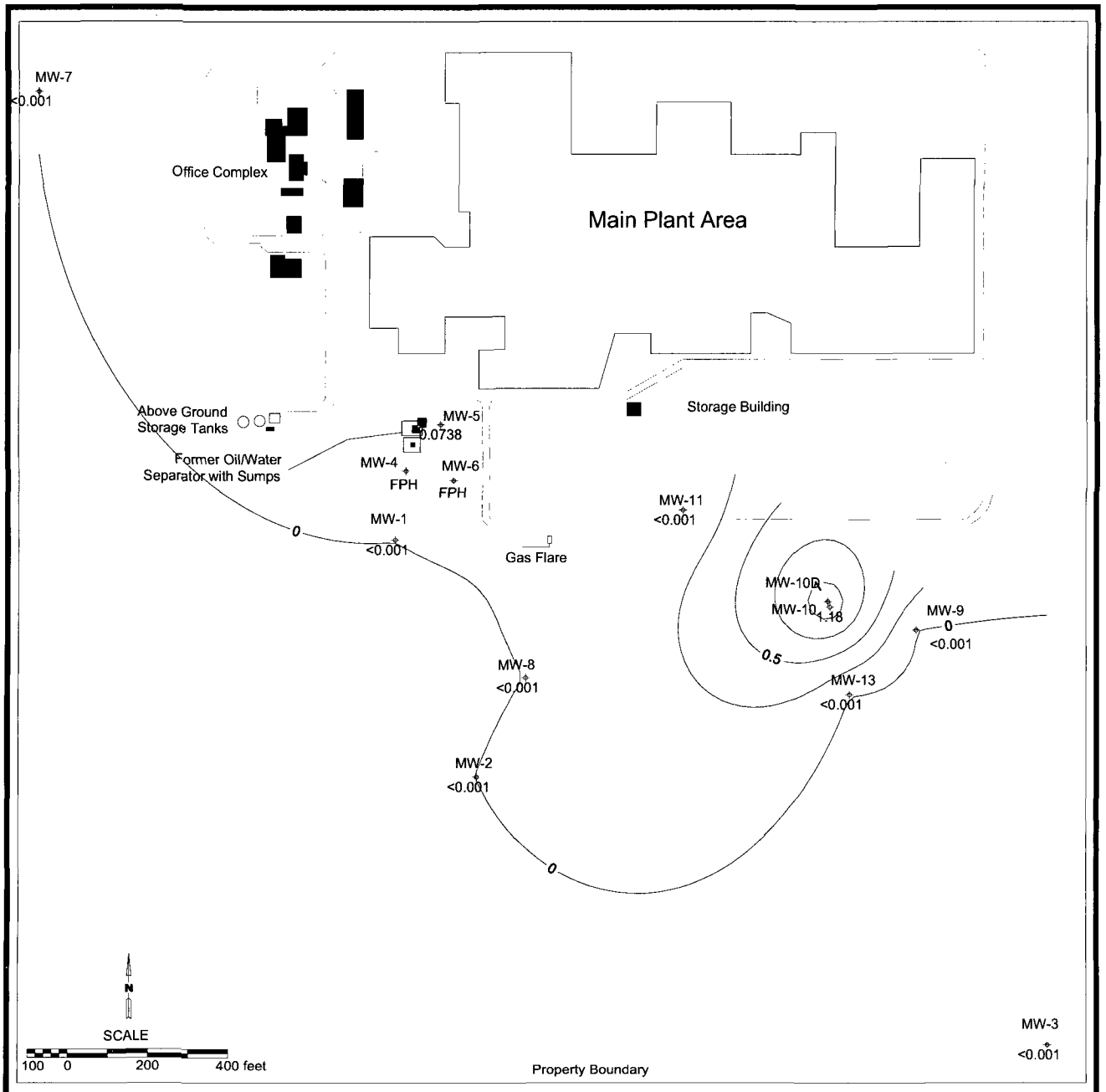
contour interval is 2 foot

Figure 5 – September 2007 Water Table Elevation Contours

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY:	MHS
REVISED:	
DATE:	10/07

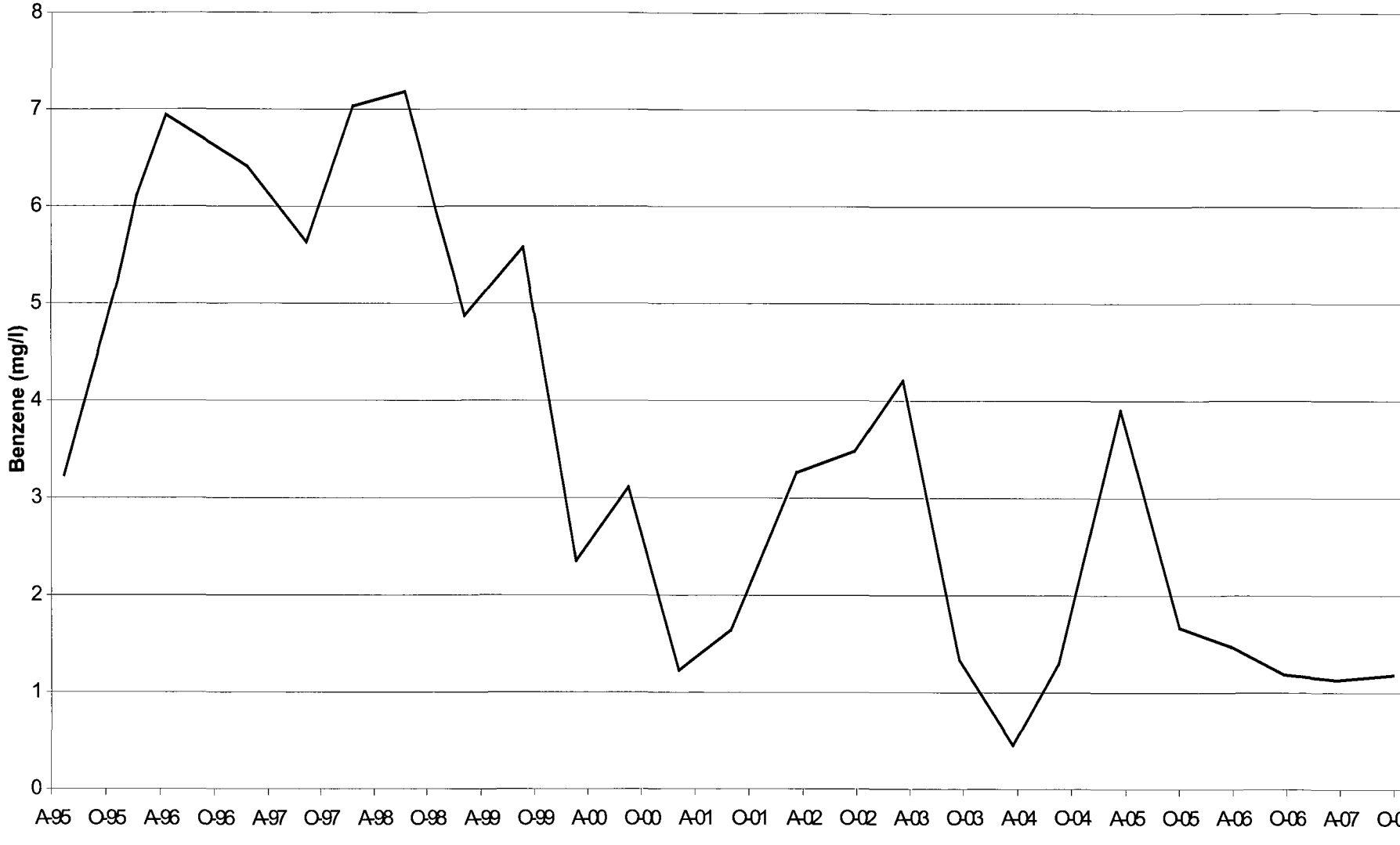


FPH: Free phase hydrocarbons
Contour interval is 0.25 mg/l
Values shown as 0.00 are below the 0.001 mg/l method reporting limit

Figure 6 – September 2007 Benzene Distribution
Linam Ranch Gas Plant Monitoring

DCP Midstream.

DRAWN BY:	MHS
REVISED:	
DATE:	10/07



Dates are April (A) and October (0)

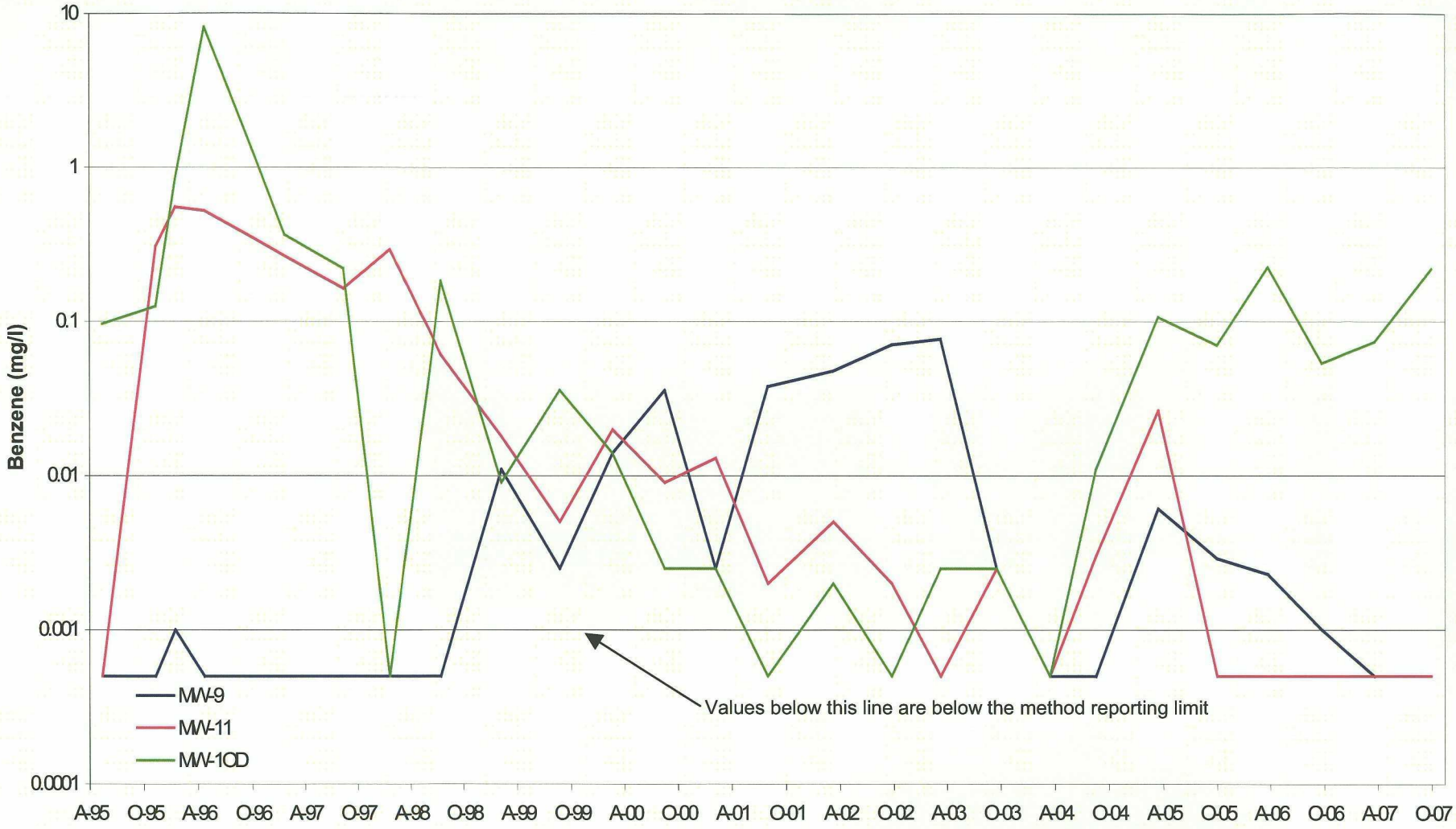
Figure 7 – BTEX Concentrations in MW-10

Linam Ranch Gas Plant Monitoring

Duke Energy Field Services

DRAWN BY: MHS

DATE: 10/07



Dates are April (A) and October (0)

Figure 8 – BTEX Concentrations in MW-9, MW-10D and MW-11

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 10/07

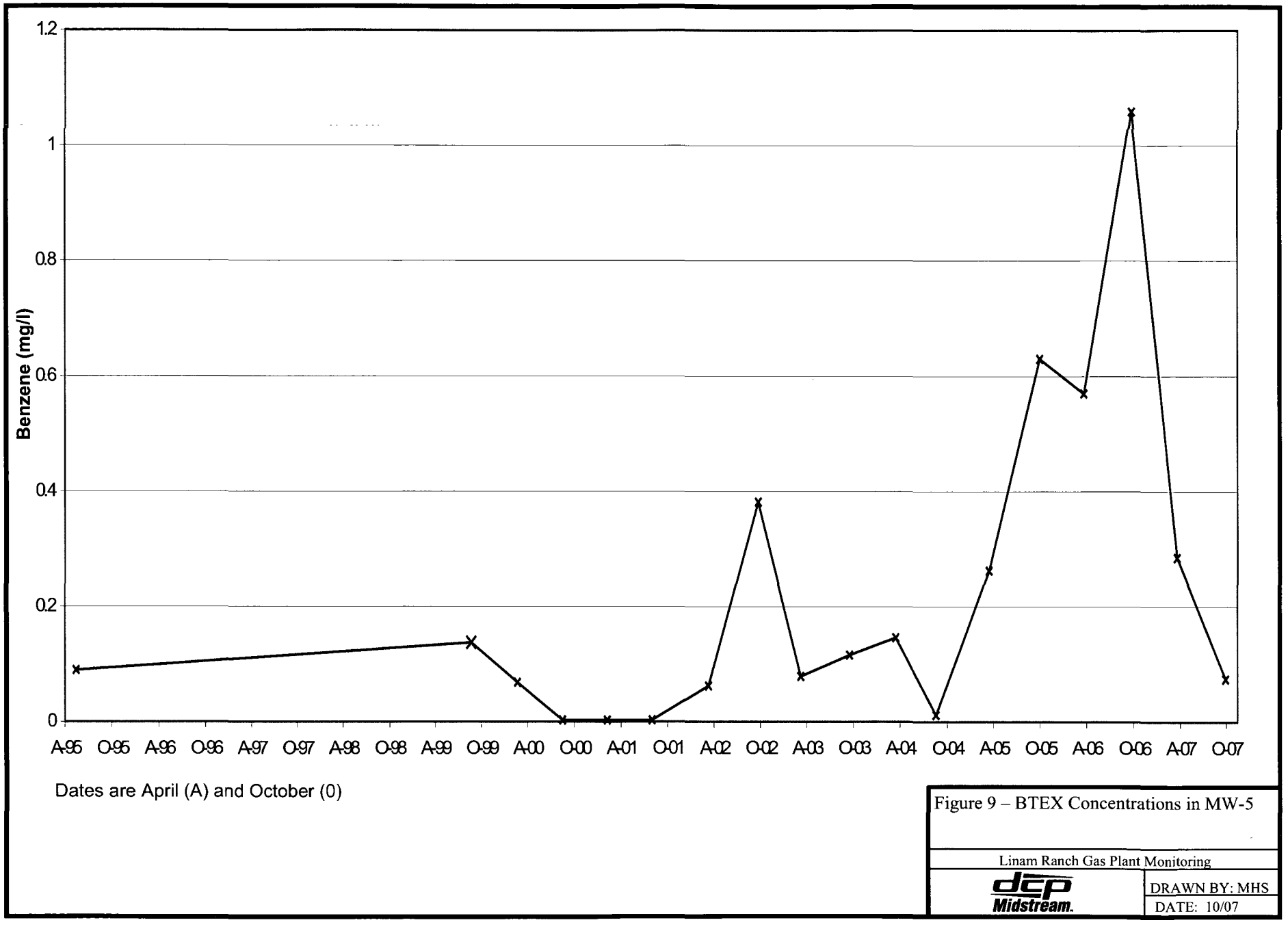


Figure 9 – BTEX Concentrations in MW-5

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 10/07

FIELD SAMPLING DATA AND

LABORATORY ANALYTICAL REPORT

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-1**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 54.20 Feet
DEPTH TO WATER: 42.56 Feet
HEIGHT OF WATER COLUMN: 11.64 Feet
WELL DIAMETER: 2.0 Inch

5.7 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:30	0.0	-	-	-	-	-	Began Hand Bailing!
10:35	2.0	19.1	1.49	7.08	-	-	
10:39	4.0	18.8	1.44	7.04	-	-	
10:44	6.0	18.8	1.49	7.06	-	-	
0:14	:Total Time (hr:min)		**6**	:Total Vol (gal)		**0.43**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 1045

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-2**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 50.50 Feet
DEPTH TO WATER: 23.45 Feet
HEIGHT OF WATER COLUMN: 27.05 Feet
WELL DIAMETER: 2.0 Inch

13.2 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
11:07	0.0	-	-	-	-	-	Began Hand Bailing!
11:18	5.0	19.3	0.45	7.32	-	-	
11:26	10.0	19.0	0.46	7.25	-	-	
11:37	14.0	19.4	0.46	7.25	-	-	
0:30	:Total Time (hr:min)		**14**	:Total Vol (gal)		**0.47**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 1140

ANALYSES: BTEX (8021-B)

COMMENTS: Collected MS/MSD Samples!

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-3**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 55.30 Feet
DEPTH TO WATER: 46.39 Feet
HEIGHT OF WATER COLUMN: 8.91 Feet
WELL DIAMETER: 2.0 Inch

4.4 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
8:05	0.0	-	-	-	-	-	Began Hand Bailing!
8:10	1.7	18.7	0.37	7.10	-	-	
8:14	3.3	18.8	0.35	7.41	-	-	
8:19	5.0	19.0	0.37	7.11	-	-	
0:14	:Total Time (hr:min)		**5**	:Total Vol (gal)		**0.36**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 0820

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-5**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 55.20 Feet
DEPTH TO WATER: 46.57 Feet
HEIGHT OF WATER COLUMN: 8.63 Feet
WELL DIAMETER: 4.0 Inch

16.9 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:56	0.0	-	-	-	-	-	Began Hand Bailing!
11:03	6.0	21.9	2.32	6.95	-	-	
11:12	12.0	21.9	2.33	7.00	-	-	
11:21	18.0	22.0	2.34	6.92	-	-	
0:25	:Total Time (hr:min)		**18**	:Total Vol (gal)		**0.72**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070929 1125

ANALYSES: BTEX (8021-B)

COMMENTS: Collected Duplicate Sample No.: 0709281800 for BTEX (8021-B)

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-7**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 62.50 Feet
DEPTH TO WATER: 59.84 Feet
HEIGHT OF WATER COLUMN: 2.66 Feet
WELL DIAMETER: 2.0 Inch

1.3 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. mS/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
7:50	0.0	-	-	-	-	-	Began Hand Bailing!
7:54	0.3	18.3	1.09	7.20	-	-	
10:14	0.5	19.5	1.09	7.25	-	-	
13:12	0.8	21.3	1.04	7.16	-	-	
5:22	:Total Time (hr:min)		**0.75**	:Total Vol (gal)		**0.00**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 1315

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-8**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 58.30 Feet
DEPTH TO WATER: 35.02 Feet
HEIGHT OF WATER COLUMN: 23.28 Feet
WELL DIAMETER: 4.0 Inch

45.6 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
12:15	0.0	-	-	-	-	-	Began Hand Bailing!
12:27	15.0	21.2	0.36	7.39	-	-	
12:40	30.0	20.2	0.36	7.30	-	-	
12:57	47.0	19.9	0.36	7.23	-	-	
0:42	:Total Time (hr:min)		**47**	:Total Vol (gal)		**1.12**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 1300

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-9**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 59.10 Feet
DEPTH TO WATER: 49.83 Feet
HEIGHT OF WATER COLUMN: 9.27 Feet
WELL DIAMETER: 2.0 Inch

4.5 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
8:38	0	-	-	-	-	-	Began Hand Bailing!
8:45	1.7	19.0	1.10	6.56	-	-	
8:47	3.4	19.0	1.10	6.73	-	-	
8:49	5.1	19.1	1.10	6.84	-	-	
0:11	:Total Time (hr:min)		**5.1**	:Total Vol (gal)		**0.46**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 0850

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-10**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 65.00 Feet
DEPTH TO WATER: 49.76 Feet
HEIGHT OF WATER COLUMN: 15.24 Feet
WELL DIAMETER: 4.0 Inch

29.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
9:07	0.0	-	-	-	-	-	Began Hand Bailing!
9:17	10.0	19.9	1.49	7.09	-	-	
9:28	20.0	20.1	1.54	7.17	-	-	
9:42	31.0	20.2	1.54	7.19	-	-	
0:35	:Total Time (hr:min)		**31**	:Total Vol (gal)		**0.88**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 0945

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-10d**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☐ Surface Discharge ☐ Drums ☑ Disposal Facility

TOTAL DEPTH OF WELL: 79.00 Feet
DEPTH TO WATER: 50.84 Feet
HEIGHT OF WATER COLUMN: 28.16 Feet
WELL DIAMETER: 2.0 Inch

13.8 Minimum Gallons to purge 3 well volumes (Water Column Height x 0.49)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
9:07	0.0	-	-	-	-	-	Began Hand Bailing!
9:22	5.0	19.5	1.16	7.18	-	-	
9:37	10.0	19.9	1.14	7.23	-	-	
9:52	15.0	20.2	1.12	7.25	-	-	
0:45	:Total Time (hr:min)		**15**	:Total Vol (gal)		**0.33**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070929 0955

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-11**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 62.80 Feet
DEPTH TO WATER: 50.73 Feet
HEIGHT OF WATER COLUMN: 12.07 Feet
WELL DIAMETER: 4.0 Inch

23.6 Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
10:11	0.0	-	-	-	-	-	Began Hand Bailing!
10:19	8.0	20.1	1.10	6.85	-	-	
10:28	16.0	20.0	1.13	6.94	-	-	
10:38	24.0	20.0	1.13	6.95	-	-	
0:27	:Total Time (hr:min)		**24**	:Total Vol (gal)		**0.89**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070929 1040

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: **DCP Midstream** WELL ID: **MW-13**

SITE NAME: Linam Ranch Gas Plant DATE: 9/28/2007

PROJECT NO. F-114 SAMPLER: J. Fergerson/G. Van Deventer

PURGING METHOD: ☑ Hand Bailed ☐ Pump If Pump, Type: _____

SAMPLING METHOD: ☑ Disposable Bailer ☐ Direct from Discharge Hose ☐ Other: _____

DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL:

☑ Gloves ☐ Alconox ☐ Distilled Water Rinse ☐ Other: _____

DISPOSAL METHOD OF PURGE WATER: ☑ Surface Discharge ☐ Drums ☐ Disposal Facility

TOTAL DEPTH OF WELL: 63.00 Feet
DEPTH TO WATER: 51.42 Feet
HEIGHT OF WATER COLUMN: 11.58 Feet
WELL DIAMETER: 4.0 Inch

22.7 *Minimum Gallons to purge 3 well volumes (Water Column Height x 1.96)*

TIME	VOLUME PURGED	TEMP. °C	COND. *m*S/cm	pH	DO mg\L	Turb	PHYSICAL APPEARANCE AND REMARKS
8:21	0.0	-	-	-	-	-	Began Hand Bailing!
8:27	9.0	19.2	1.29	6.78	-	-	
8:37	17.0	19.3	1.31	6.80	-	-	
8:46	25.0	19.3	1.31	6.83	-	-	
0:25	:Total Time (hr:min)		**25**	:Total Vol (gal)		**1.00**	:Flow Rate (gal/min)

SAMPLE NO.: Collected Sample No.: 070928 0850

ANALYSES: BTEX (8021-B)

COMMENTS: _____

TRACEANALYSIS, INC.

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

Analytical and Quality Control Report

Mike Stewart
American Environmental Consulting
6885 South Marshall Street
Suite 3
Littleton, CO, 80128

Report Date: October 4, 2007

Work Order: 7100115

Project Location: Lea County,NM
Project Name: Linam Ranch Gas Plant
Project Number: Linam Ranch Gas Plant/Duke Energy Field Services

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

Sample	Description	Matrix	Date Taken	Time Taken	Date Received
137995	MW-1 (0709281045)	water	2007-09-28	10:45	2007-10-01
137996	MW-2 (0709281140)	water	2007-09-28	11:40	2007-10-01
137997	MW-3 (0709280820)	water	2007-09-28	08:20	2007-10-01
137998	MW-5 (0709281125)	water	2007-09-28	11:25	2007-10-01
137999	MW-7 (0709281315)	water	2007-09-28	13:15	2007-10-01
138000	MW-8 (0709281300)	water	2007-09-28	13:00	2007-10-01
138001	MW-9 (0709280850)	water	2007-09-28	08:50	2007-10-01
138002	MW-10 (0709280945)	water	2007-09-28	09:45	2007-10-01
138003	MW-10d (0709280955)	water	2007-09-28	09:55	2007-10-01
138004	MW-11 (0709281040)	water	2007-09-28	10:40	2007-10-01
138005	MW-13 (0709280850)	water	2007-09-28	08:50	2007-10-01
138006	Duplicate (0709281400)	water	2007-09-28	14:00	2007-10-01
138007	Trip Blank	water	2007-09-28	00:00	2007-10-01

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

This report consists of a total of 9 pages and shall not be reproduced except in its entirety, without written approval of TraceAnalysis, Inc.

Dr. Blair Leftwich, Director

Standard Flags

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

Analytical Report

Sample: 137995 - MW-1 (0709281045)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0916	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0621	mg/L	1	0.100	62	47.6 - 121.4

Sample: 137996 - MW-2 (0709281140)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0917	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0616	mg/L	1	0.100	62	47.6 - 121.4

Sample: 137997 - MW-3 (0709280820)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	Result	RL Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0916	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0594	mg/L	1	0.100	59	47.6 - 121.4

Sample: 137998 - MW-5 (0709281125)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.0706**	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		**0.0359**	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.101	mg/L	1	0.100	101	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0718	mg/L	1	0.100	72	47.6 - 121.4

Sample: 137999 - MW-7 (0709281315)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0916	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0621	mg/L	1	0.100	62	47.6 - 121.4

Sample: 138000 - MW-8 (0709281300)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

continued ...

sample 138000 continued ...

Parameter	Flag	RL Result	Units	Dilution	RL

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0916	mg/L	1	0.100	92	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0620	mg/L	1	0.100	62	47.6 - 121.4

Sample: 138001 - MW-9 (0709280850)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0848	mg/L	1	0.100	85	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0669	mg/L	1	0.100	67	47.6 - 121.4

Sample: 138002 - MW-10 (0709280945)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**1.18**	mg/L	10	0.00100
Toluene		**0.246**	mg/L	10	0.00100
Ethylbenzene		**0.163**	mg/L	10	0.00100
Xylene		**0.213**	mg/L	10	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.629	mg/L	10	1.00	63	55.9 - 102.7

continued ...

sample continued ...

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
4-Bromofluorobenzene (4-BFB)		0.779	mg/L	10	1.00	78	47.6 - 121.4

Sample: 138003 - MW-10d (0709280955)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		**0.218**	mg/L	1	0.00100
Toluene		**0.0902**	mg/L	1	0.00100
Ethylbenzene		**0.0212**	mg/L	1	0.00100
Xylene		**0.0375**	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0781	mg/L	1	0.100	78	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)	[1]	0.145	mg/L	1	0.100	145	47.6 - 121.4

Sample: 138004 - MW-11 (0709281040)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100
Toluene		<0.00100	mg/L	1	0.00100
Ethylbenzene		<0.00100	mg/L	1	0.00100
Xylene		<0.00100	mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0865	mg/L	1	0.100	86	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0676	mg/L	1	0.100	68	47.6 - 121.4

Sample: 138005 - MW-13 (0709280850)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	RL Result	Units	Dilution	RL
Benzene		<0.00100	mg/L	1	0.00100

[1] High surrogate recovery due to peak interference.

continued ...

sample 138005 continued ...

Parameter	Flag	Result	RL	Units	Dilution	RL
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0788	mg/L	1	0.100	79	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0629	mg/L	1	0.100	63	47.6 - 121.4

Sample: 138006 - Duplicate (0709281400)

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		**0.0769**		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		**0.0389**		mg/L	1	0.00100
Xylene		**0.00120**		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)	[2]	0.114	mg/L	1	0.100	114	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0772	mg/L	1	0.100	77	47.6 - 121.4

Sample: 138007 - Trip Blank

Analysis:	BTEX	Analytical Method:	S 8021B	Prep Method:	S 5030B
QC Batch:	41709	Date Analyzed:	2007-10-03	Analyzed By:	
Prep Batch:	36013	Sample Preparation:	2007-10-02	Prepared By:	

Parameter	Flag	Result	RL	Units	Dilution	RL
Benzene		<0.00100		mg/L	1	0.00100
Toluene		<0.00100		mg/L	1	0.00100
Ethylbenzene		<0.00100		mg/L	1	0.00100
Xylene		<0.00100		mg/L	1	0.00100

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0930	mg/L	1	0.100	93	55.9 - 102.7
4-Bromofluorobenzene (4-BFB)		0.0644	mg/L	1	0.100	64	47.6 - 121.4

[2]High surrogate recovery due to peak interference.

Method Blank (1) QC Batch: 41709

QC Batch: 41709 | Date Analyzed: 2007-10-03 | Analyzed By:
Prep Batch: 36013 | QC Preparation: 2007-10-02 | Prepared By:

Parameter	Flag	MDL Result	Units	RL
Benzene		<0.000200	mg/L	0.001
Toluene		<0.000200	mg/L	0.001
Ethylbenzene		<0.000200	mg/L	0.001
Xylene		<0.000300	mg/L	0.001

Surrogate	Flag	Result	Units	Dilution	Spike Amount	Percent Recovery	Recovery Limits
Trifluorotoluene (TFT)		0.0939	mg/L	1	0.100	94	54.8 - 117.8
4-Bromofluorobenzene (4-BFB)		0.0652	mg/L	1	0.100	65	46.7 - 110.4

Laboratory Control Spike (LCS-1)

QC Batch: 41709 | Date Analyzed: 2007-10-03 | Analyzed By:
Prep Batch: 36013 | QC Preparation: 2007-10-02 | Prepared By:

Param	LCS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0929	mg/L	1	0.100	<0.000200	93	66.7 - 120.6
Toluene	0.0947	mg/L	1	0.100	<0.000200	95	73.1 - 118.2
Ethylbenzene	0.0956	mg/L	1	0.100	<0.000200	96	73.7 - 116.2
Xylene	0.288	mg/L	1	0.300	<0.000300	96	75.2 - 116.3

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

Param	LCSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0927	mg/L	1	0.100	<0.000200	93	66.7 - 120.6	0	20
Toluene	0.0941	mg/L	1	0.100	<0.000200	94	73.1 - 118.2	1	20
Ethylbenzene	0.0964	mg/L	1	0.100	<0.000200	96	73.7 - 116.2	1	20
Xylene	0.290	mg/L	1	0.300	<0.000300	97	75.2 - 116.3	1	20

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

Surrogate	LCS Result	LCSD Result	Units	Dil.	Spike Amount	LCS Rec.	LCSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0864	0.0866	mg/L	1	0.100	86	87	51.7 - 106.3
4-Bromofluorobenzene (4-BFB)	0.0794	0.0799	mg/L	1	0.100	79	80	51.4 - 117.9

Matrix Spike (MS-1) Spiked Sample: 137996

QC Batch: 41709 | Date Analyzed: 2007-10-03 | Analyzed By:
Prep Batch: 36013 | QC Preparation: 2007-10-02 | Prepared By:

continued ...

matrix spikes continued ...

Param	MS Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit
Benzene	0.0949	mg/L	1	0.100	<0.000200	95	10 - 180.3
Toluene	0.0955	mg/L	1	0.100	<0.000200	96	10 - 180.3
Ethylbenzene	0.0974	mg/L	1	0.100	<0.000200	97	10 - 173
Xylene	0.292	mg/L	1	0.300	<0.000300	97	10 - 173.3

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

Param	MSD Result	Units	Dil.	Spike Amount	Matrix Result	Rec.	Rec. Limit	RPD	RPD Limit
Benzene	0.0925	mg/L	1	0.100	<0.000200	92	10 - 180.3	3	20
Toluene	0.0953	mg/L	1	0.100	<0.000200	95	10 - 180.3	0	20
Ethylbenzene	0.0984	mg/L	1	0.100	<0.000200	98	10 - 173	1	20
Xylene	0.296	mg/L	1	0.300	<0.000300	99	10 - 173.3	1	20

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

Surrogate	MS Result	MSD Result	Units	Dil.	Spike Amount	MS Rec.	MSD Rec.	Rec. Limit
Trifluorotoluene (TFT)	0.0849	0.0811	mg/L	1	0.1	85	81	35.6 - 123
4-Bromofluorobenzene (4-BFB)	0.0797	0.0758	mg/L	1	0.1	80	76	50.8 - 122.8

Standard (ICV-1)

QC Batch: 41709 Date Analyzed: 2007-10-03 Analyzed By:

Param	Flag	Units	ICVs True Conc.	ICVs Found Conc.	ICVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0936	94	85 - 115	2007-10-03
Toluene		mg/L	0.100	0.0961	96	85 - 115	2007-10-03
Ethylbenzene		mg/L	0.100	0.0970	97	85 - 115	2007-10-03
Xylene		mg/L	0.300	0.293	98	85 - 115	2007-10-03

Standard (CCV-1)

QC Batch: 41709 Date Analyzed: 2007-10-03 Analyzed By:

Param	Flag	Units	CCVs True Conc.	CCVs Found Conc.	CCVs Percent Recovery	Percent Recovery Limits	Date Analyzed
Benzene		mg/L	0.100	0.0931	93	85 - 115	2007-10-03
Toluene		mg/L	0.100	0.0944	94	85 - 115	2007-10-03
Ethylbenzene		mg/L	0.100	0.0957	96	85 - 115	2007-10-03
Xylene		mg/L	0.300	0.288	96	85 - 115	2007-10-03

LAB Order ID # [redacted] Page [redacted] of [redacted]

TraceAnalysis, Inc.

email: lab@traceanalysis.com

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

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

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

8808 Camp Bowie Blvd. West, Suite 180
Ft. Worth, Texas 76116
Tel (817) 201-5260
Fax (817) 560-4336

Company Name: American Environmental Consulting
Phone #: 303-948-7733
Address: (Street, City, Zip) 6885 S. Marshall, Suite 3, Littleton, CO 80125
Fax #:
Contact Person: Mike Stewart
E-mail:
Invoice to: DCP Midstream
(If different from above) Attn: Steve Weathers
Project #:
Project Name: DCP Midstream Lyman Ranch Gas Plant
Project Location (including state): Lea County, New Mexico
Sampler Signature: Jack Fry

ANALYSIS REQUEST (Circle or Specify Method No.)

| LAB # (LAB USE ONLY) | FIELD CODE | # CONTAINERS | Volume / Amount | MATRIX: WATER | SOIL | AIR | SLUDGE | PRESERVATIVE METHOD: HCl | HNO_3 | H_2SO_4 | NaOH | ICE | NONE | SAMPLING: DATE | TIME | MTBE 8021B / 602 / 8260B / 624 | BTEX 8021B / ~~602 / 8260B / 624~~ | TPH 418.1 / TX1005 / TX1005 Ext(C35) | TPH 8015 GRO / DRO / TVHC | PAH 8270C / 625 | Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 | TCLP Metals Ag As Ba Cd Cr Pb Se Hg | TCLP Volatiles | TCLP Semi Volatiles | TCLP Pesticides | RCI | GC/MS Vol. 8260B / 624 | GC/MS Semi. Vol. 8270C / 625 | PCB's 8082 / 608 | Pesticides 8081A / 608 | BOD, TSS, pH | Moisture Content | | |

LAB Order ID# [redacted] Page [redacted] of [redacted]

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Company Name: American Environmental Consulting
Phone #: 303-948-7733
Address: (Street, City, Zip) 6885 S. Marshall, Suite 3, Littleton, CO 80128
Fax #:
Contact Person: Mike Stewart
E-mail:
Invoice to: (If different from above) DCP Midstream Attn: Steve Weathers
Project #:
Project Name: DCP Midstream - Linam Ranch Gas Plant
Project Location (including state): Lea County, New Mexico
Sampler Signature:

ANALYSIS REQUEST (Circle or Specify Method No.)

LAB # (LAB USE ONLY)	FIELD CODE	# CONTAINERS	Volume / Amount	MATRIX: WATER	SOIL	AIR	SLUDGE	PRESERVATIVE METHOD: HCl	HNO_3	H_2SO_4	NaOH	ICE	NONE	SAMPLING: DATE	TIME	MTBE 8021B / 602 / 8260B / 624	BTEX 8021B / ~~602~~ / 8260B / ~~624~~	TPH 418.1 / TX1005 / TX1005 Ext(C35)	TPH 8015 GRO / DRO / TVHC	PAH 8270C / 625	Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7	TCLP Metals Ag As Ba Cd Cr Pb Se Hg	TCLP Volatiles	TCLP Semi Volatiles	TCLP Pesticides	RCI	GC/MS Vol. 8260B / 624	GC/MS Semi. Vol. 8270C / 625	PCB's 8082 / 608	Pesticides 8081A / 608	BOD, TSS, pH	Moisture Content	Turn Around Time if different from standard	Hold
138006	Duplicate (0710728400)	3		✓				✓				✓		9/28/07	1400		✓																	
07	Trip Blank	2		✓				✓				✓					✓																	

Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
[signature]	Trident	10/1/07	1450	[signature]		10/1/07	14.50	
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:
Relinquished by:	Company:	Date:	Time:	Received by:	Company:	Date:	Time:	Temp°c:

LAB USE ONLY
Intact Y / N
Headspace Y / N / NA
3.4°C
Log-in-Review [signature]

REMARKS:

- ☐ Dry Weight Basis Required
- ☐ TRRP Report Required
- ☐ Check If Special Reporting Limits Are Needed

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

Carrier #

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