GW-015

2nd Semi Annual GW Mon. Report

DATE:
2009

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

November 17, 2009

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

RE: 2nd 2009 Semi Annual Groundwater Monitoring Report
DCP Linam Ranch Gas Plant (GW-015)
Unit B, Section 6, Township 19 South, Range 37 East

Dear Mr. Lowe:

DCP Midstream, LP (DCP) is pleased to submit for your review one copy of the 2nd 2009 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 and abandonment events were completed on September 24, 2009. The data indicate that the groundwater conditions remain stable. The next monitoring event is scheduled for the first half of 2010.

If you have any questions regarding the report, please call at 303-605-1695 or e-mail me CECole@dcpmidstream.com .

Sincerely,

DCP Midstream, LP

Chandler E Cole.
Senior Environmental Specialist

Enclosure

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

AEC AMERICAN ENVIRONMENTAL CONSULTING, LLC

November 6, 2009

Mr. Chandler Cole
DCP Midstream, LP
370 Seventeenth Street, Suite 2500
Denver, Colorado 80202

Subject: Report on 2009 Second Semi Annual Groundwater Monitoring
Linam Ranch Gas Plant, Lea County, New Mexico **GW-015**
Unit B, Section 6, Township 19 South, Range 37 East

Dear Chandler:

This letter summarizes the activities completed and provides conclusions on the second 2009 semiannual groundwater-sampling program 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.

Ongoing semiannual groundwater monitoring began in 1997. The 13 monitoring well locations are shown on Figure 2. Well MW-12 was abandoned in April 2009 because of safety concerns. Construction information for the wells is included in Table 1.

The sampling was completed on September 24, 2009. The activities completed included the measurement of fluid levels in all monitoring wells and the sampling of the wells that contained sufficient water and did not contain measurable free phase hydrocarbons (FPH).

These fluid measurements are summarized in Table 2 along FPH thicknesses and the resulting corrected groundwater elevations. Well MW-7 was dry. The water-table elevations for the wells containing FPH were calculated 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 are included on Figure 3. The water table declined in all wells except MW-3.

A water-table contour map for the September 2009 data was generated using the program Surfer® with its kriging option (Figure 4). Groundwater flow is toward the southeast. The groundwater gradient decreased to the southeast of the actual facility.

The historical FPH thickness values in MW-4 and MW-6 are graphed in Figure 5. The FPH thickness increased in both wells.

Ten 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 it was dry.

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 forms are attached. The affected purge water was disposed of at the DCP Linam Ranch 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 8260B.

No duplicate sample was collected. Many of the bottles had defective septa, and zero-headspace samples could not be collected. A matrix spike, matrix spike duplicate was collected from MW-2. The quality control evaluation can be summarized as follows:

- All of the samples were analyzed within the required holding times;
- The BTEX constituents in the trip blank were all below their method detection limits;
- All of the individual surrogate spikes were within their control limits;
- The method blank and blank spike evaluations were all acceptable;
- Some of the matrix spike and matrix spike duplicate results were outside of their respective control ranges but reanalysis was not warranted based upon the laboratory report

The quality control results indicate that the data is suitable for groundwater monitoring evaluation.

The analytical results are summarized in Table 4 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 4. The samples from MW-5, MW-10 and MW-10d exceeded the benzene standard. There were no other exceedances. In addition, none of the 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 2009 data. Figure 6 indicates the following:

1. There appears to be two hydrocarbon source areas. The first area includes wells MW-4, MW-5 and MW-6. The second is associated with the MW-10/MW-10D cluster.
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 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.
4. The attenuation patterns described for above the two sources have remained constant since the middle of 2001.
5. There is an additional 1,000-foot buffer zone from the boundary wells discussed above and the down-gradient DCP property boundary at or near well MW-3 Figure 6).

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. Figure 7 graphs the benzene concentration verses time relationship for MW-5. The benzene concentration rebounded in a manner that duplicates similar historic trends. This rebound has not affected the down-gradient concentrations as discussed in bullet 2 immediately above.

Time-benzene graphs for MW-10 and MW-10D are included in Figure 8. The benzene concentrations appear to be relatively stable in both wells. 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 as discussed in bullet 3 above.

The above results, particularly the lack of detectable BTEX in the down-gradient wells, indicate that the plume is not expanding. Also, the land to the east that is owned by DCP provides an additional down-gradient buffer from the facility boundary to the property boundary as discussed in bullet 5 above.

AEC recommends no additional activities other than continued groundwater sampling be completed at this site. The next semi-annual groundwater-monitoring episode is scheduled for the first half of 2010. 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-13	3721.63	63.00	4

Well MW-12 plugged and abandoned 4/29/09

Table 2 –Linam Ranch Gas Plant September 2009 Gauging Data

Well	Depth to Water	Depth to Product	Free Phase Hydrocarbon Thickness	Corrected Water Table Elevation
MW-1	46.07			3674.11
MW-2	44.74			3672.50
MW-3	47.78			3669.92
MW-4	48.06	47.4	0.66	3674.89
MW-5	47.89			3675.71
MW-6	50.82	48.62	2.20	3673.93
MW-7				DRY
MW-8	44.19			3671.99
MW-9	51.10			3671.38
MW-10	51.15			3671.75
MW-10D	52.32			3671.22
MW-11	52.21			3672.32
MW-13	52.74			3671.25

All units are feet

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

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	4/29/09
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	3674.29
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	3672.78
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	3669.92
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	3675.14
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	3675.97
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	3674.28
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	3672.01
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	3671.77
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	3672.22
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	3671.64
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	3672.74
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	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	3671.60

NS: Not sampled due to safety concerns, all units in feet

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

Well	9/24/09
MW-1	3674.11
MW-2	3672.50
MW-3	3669.92
MW-4	3674.89
MW-5	3675.71
MW-6	3673.93
MW-7	DRY
MW-8	3671.99
MW-9	3671.38
MW-10	3671.75
MW-10D	3671.22
MW-11	3672.32
MW-13	3671.25

(all units in feet)

Table 4 –Linam Ranch Gas Plant September 2009 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-4	FPH			
MW-5	**0.0272**	<0.002	0.227	<0.006
MW-6	FPH			
MW-7	DRY			
MW-8	<0.002	<0.002	<0.002	<0.006
MW-9	<0.002	<0.002	<0.002	<0.006
MW-10	**1.07**	0.126	0.148	0.154
MW-10d	**0.103**	0.0496	0.0127	0.0261
MW-11	<0.002	<0.002	<0.002	<0.006
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 NMWQCC standard
All units mg/l
FPH: Free phase hydrocarbons present so no samples collected
NS: Not sampled because of insufficient water.
MW-12 was plugged and abandoned in April 2009

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		<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
3&4/2009	<0.002	<0.002	<0.002		0.0095			<0.002	<0.00046	0.883	0.179	<0.00046		<0.00046
9/24/2009	<0.002	<0.002	<0.002		0.0272			<0.002	<0.002	1.07	0.103	<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 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
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
3&4/2009	<0.002	<0.002	<0.002		<0.002			<0.002	<0.00048	0.230	0.0772	<0.00048		<0.00048
9/24/2009	<0.002	<0.002	<0.002		<0.002			<0.002	<0.002	0.126	0.0496	<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 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
3&4/2009	<0.002	<0.002	<0.002		0.104			<0.002	<0.00045	0.0859	0.0203	<0.00045		<0.00045
9/24/2009	<0.002	<0.002	<0.002		0.227			<0.002	<0.002	0.148	0.0127	<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 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
3&4/2009	<0.006	<0.006	<0.006		<0.006			<0.006	<0.0014	0.0759	0.0296	<0.0014		<0.0014
9/24/2009	<0.006	<0.006	<0.006		<0.006			<0.006	<0.006	0.154	0.0261	<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

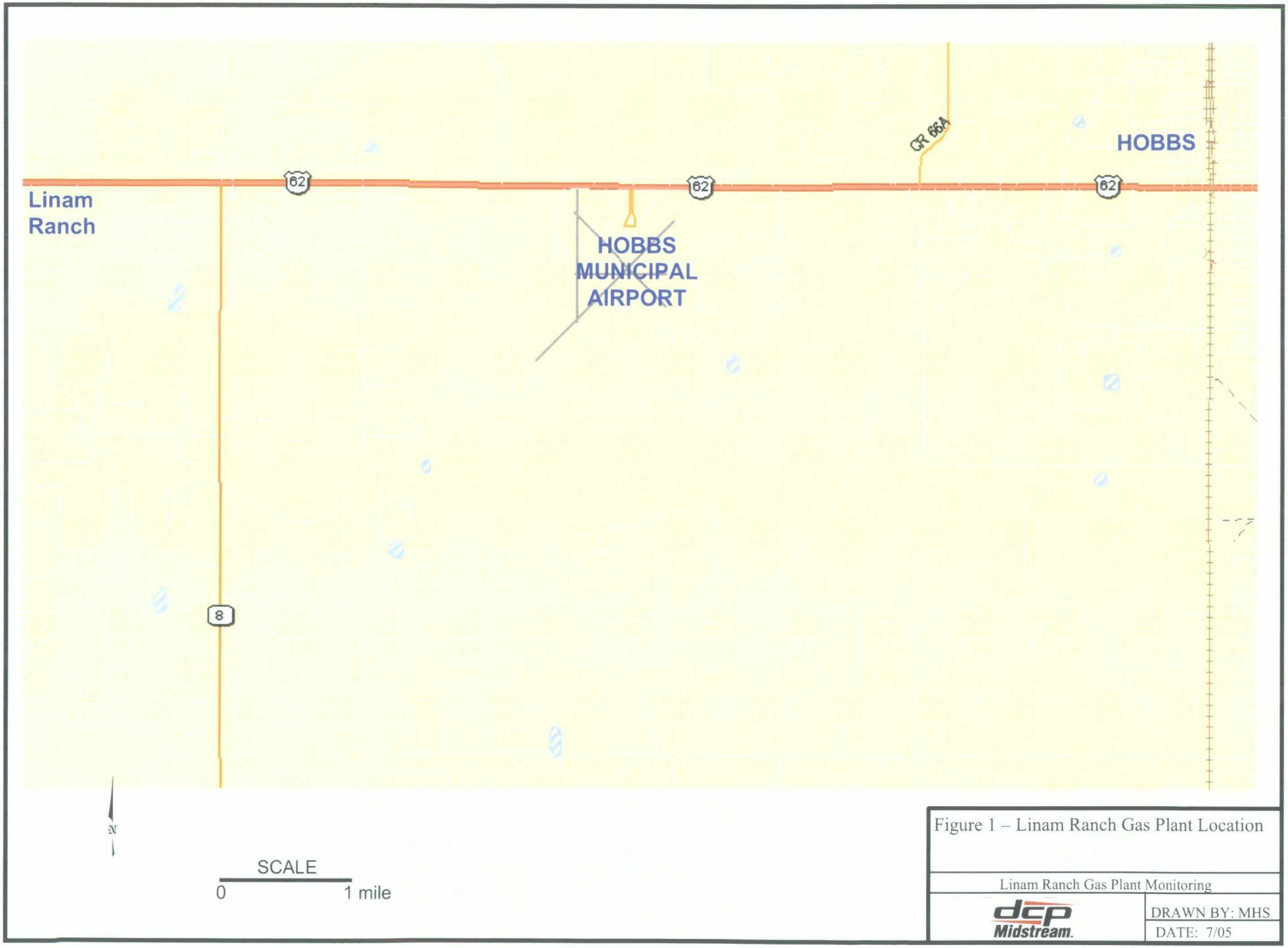


Figure 1 – Linam Ranch Gas Plant Location

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 7/05

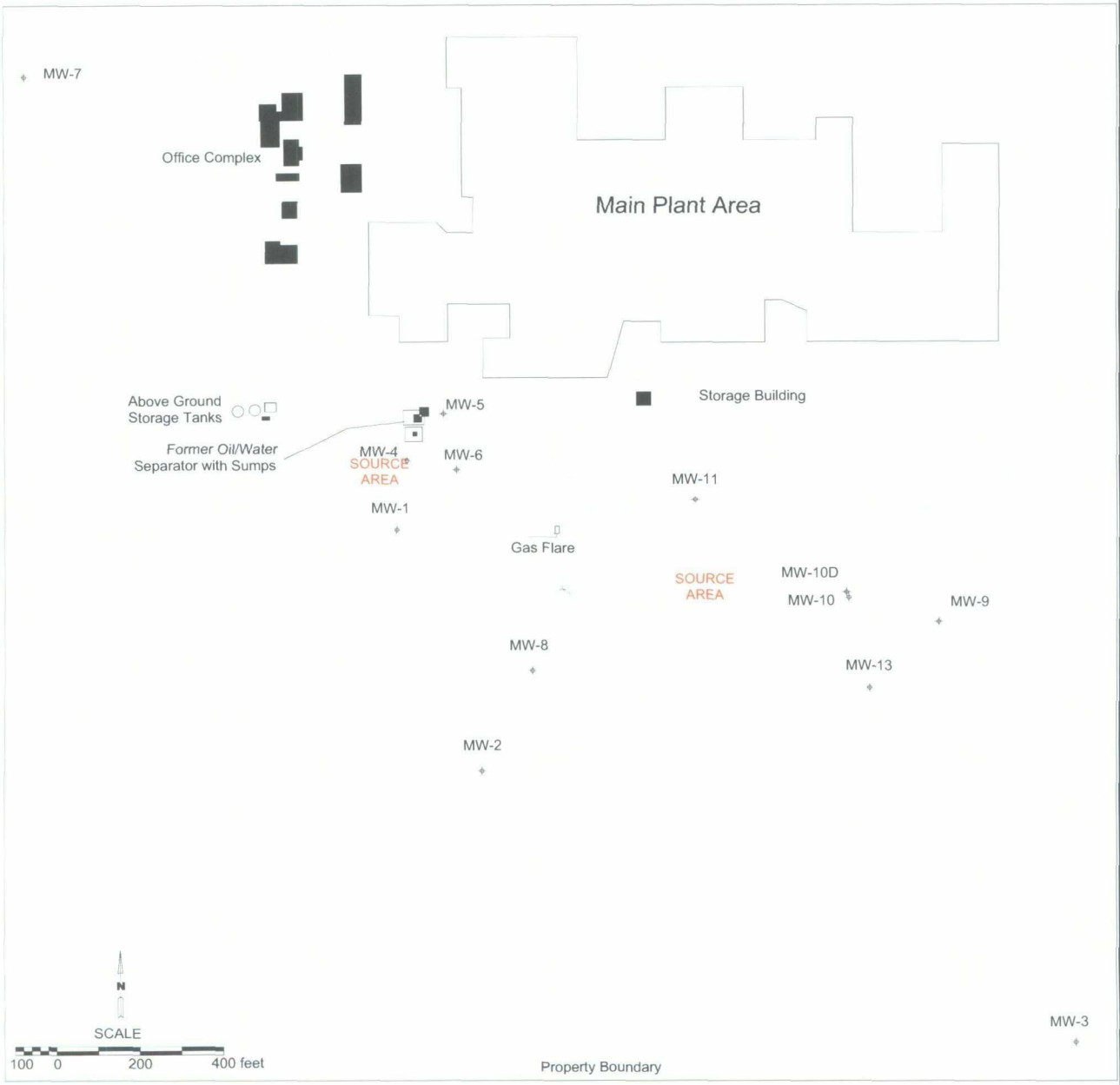


Figure 2 – Monitor Well Locations

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	10/09
DATE:	6/07

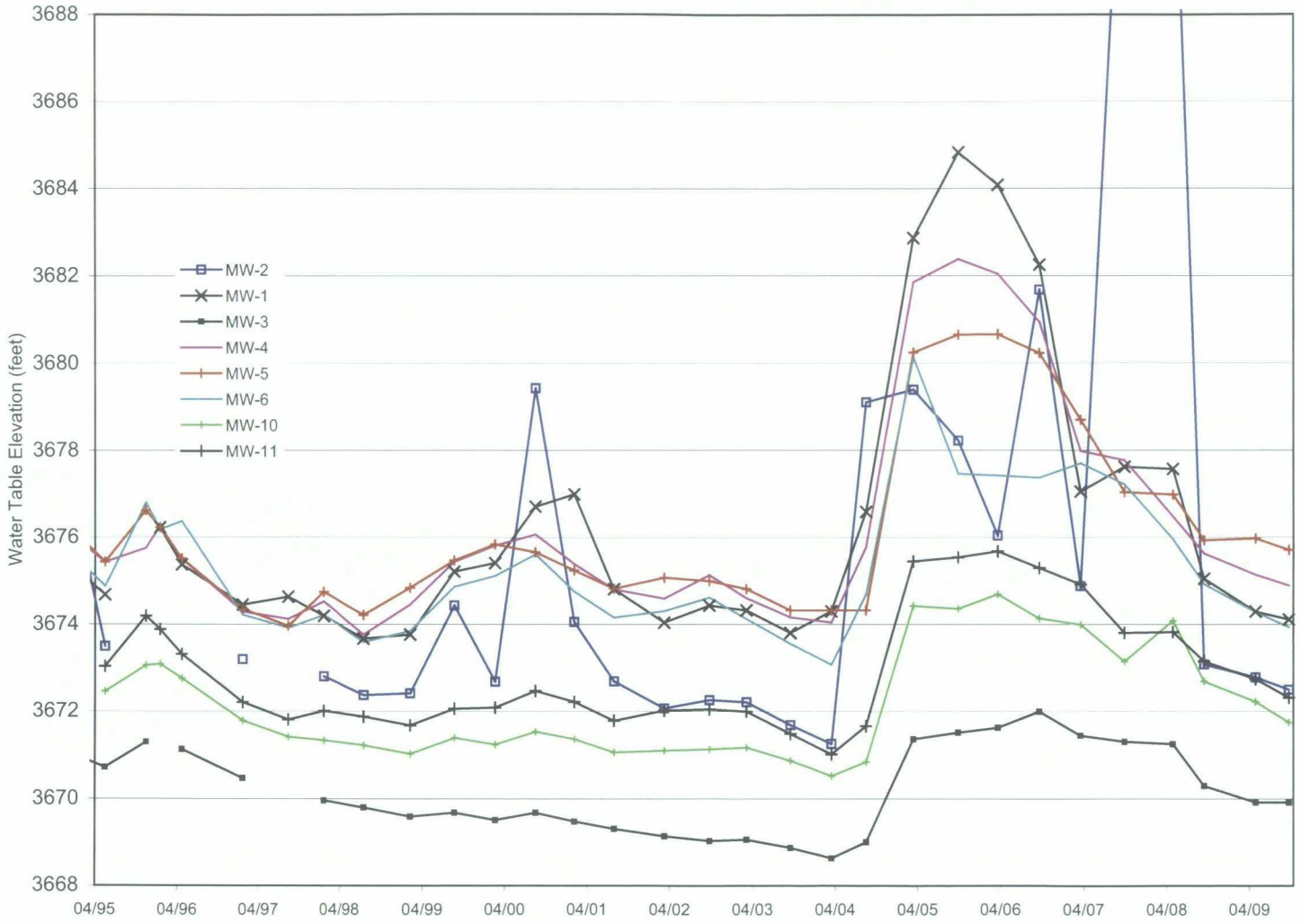


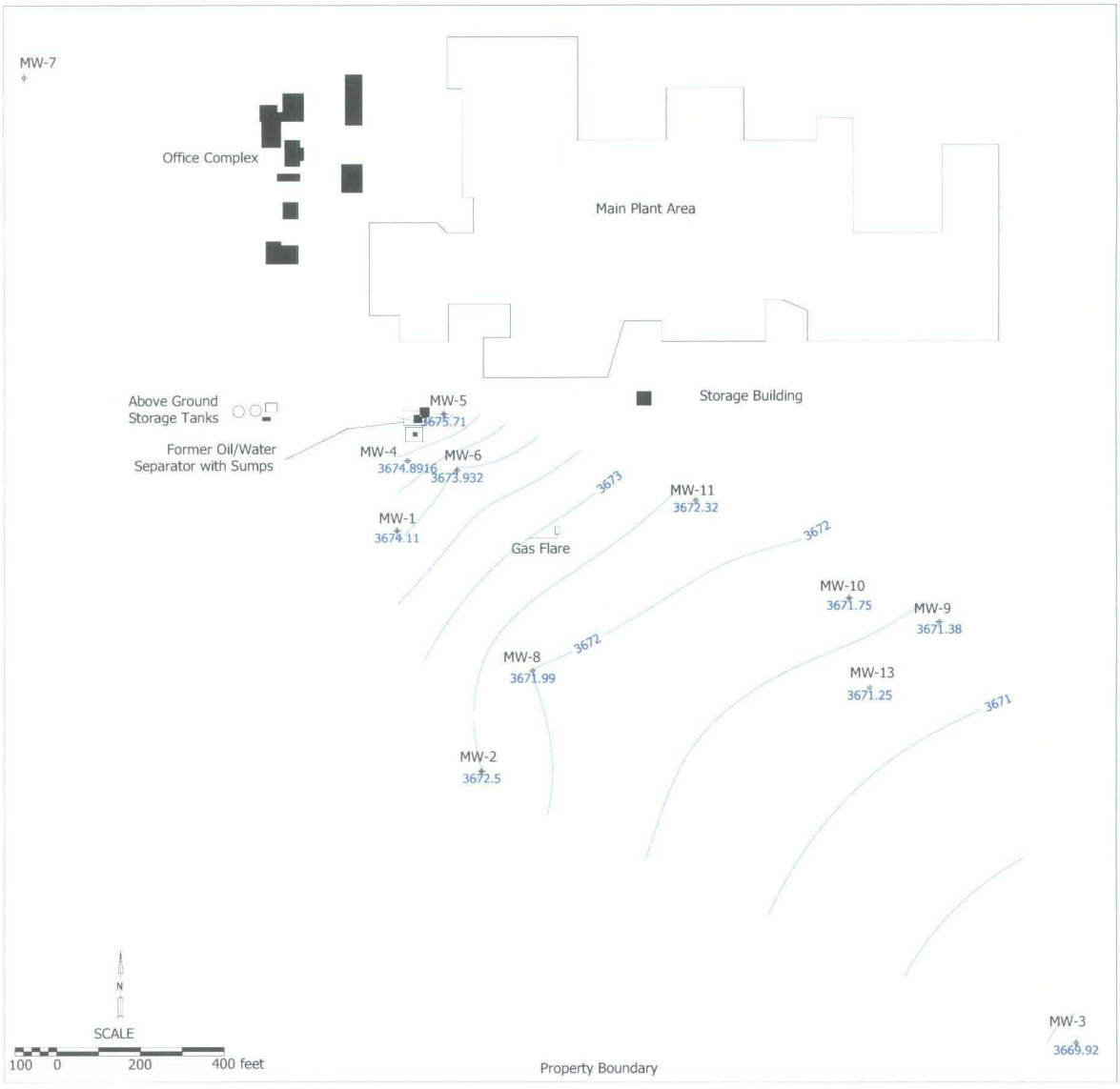
Figure 3 – Linam Ranch Gas Plant Hydrographs

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 10/09



contour interval is 0.5 feet

Figure 4 – September 2009 Water Table Elevation Contours

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY:	MHS
REVISED:	
DATE:	10/09

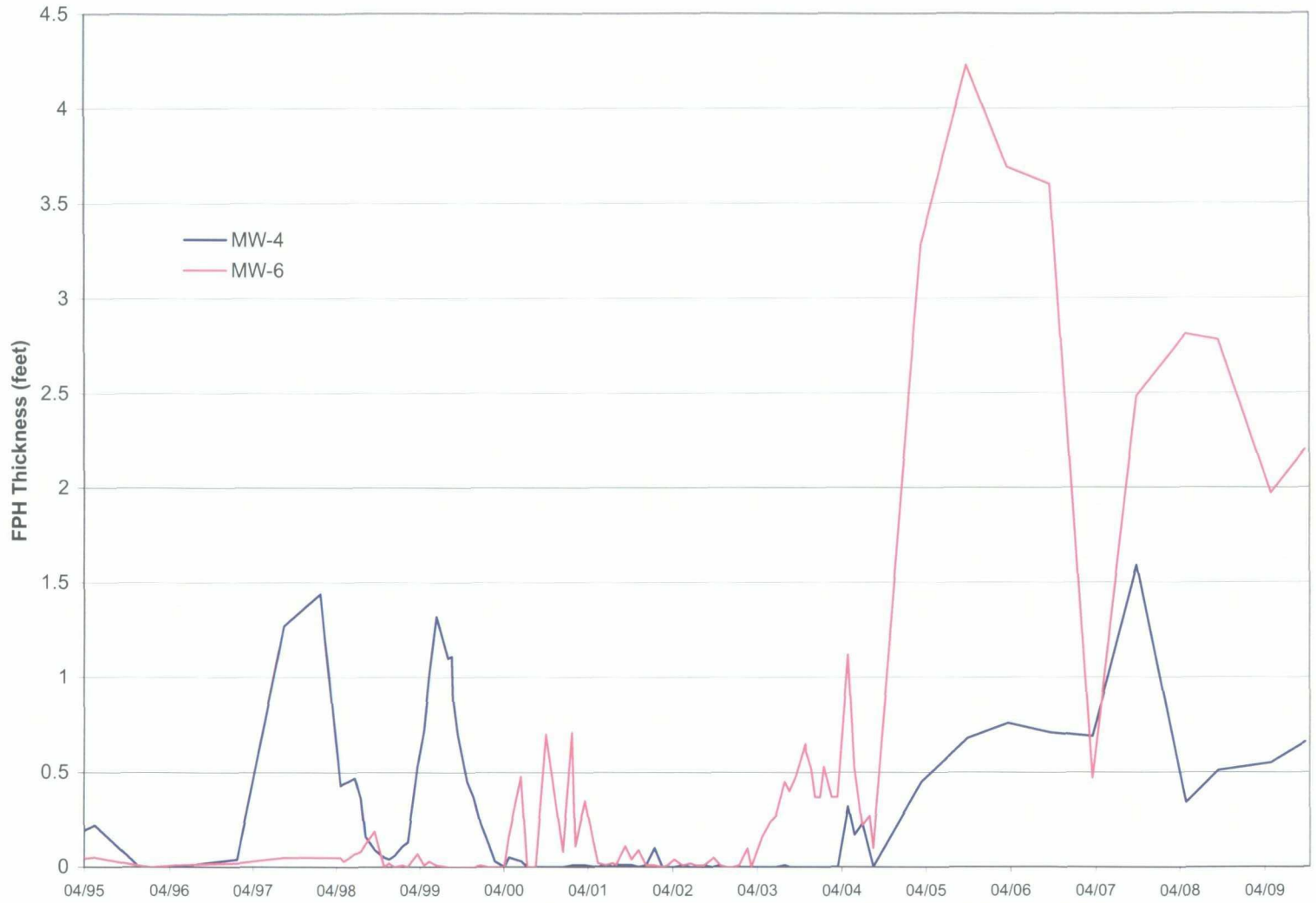


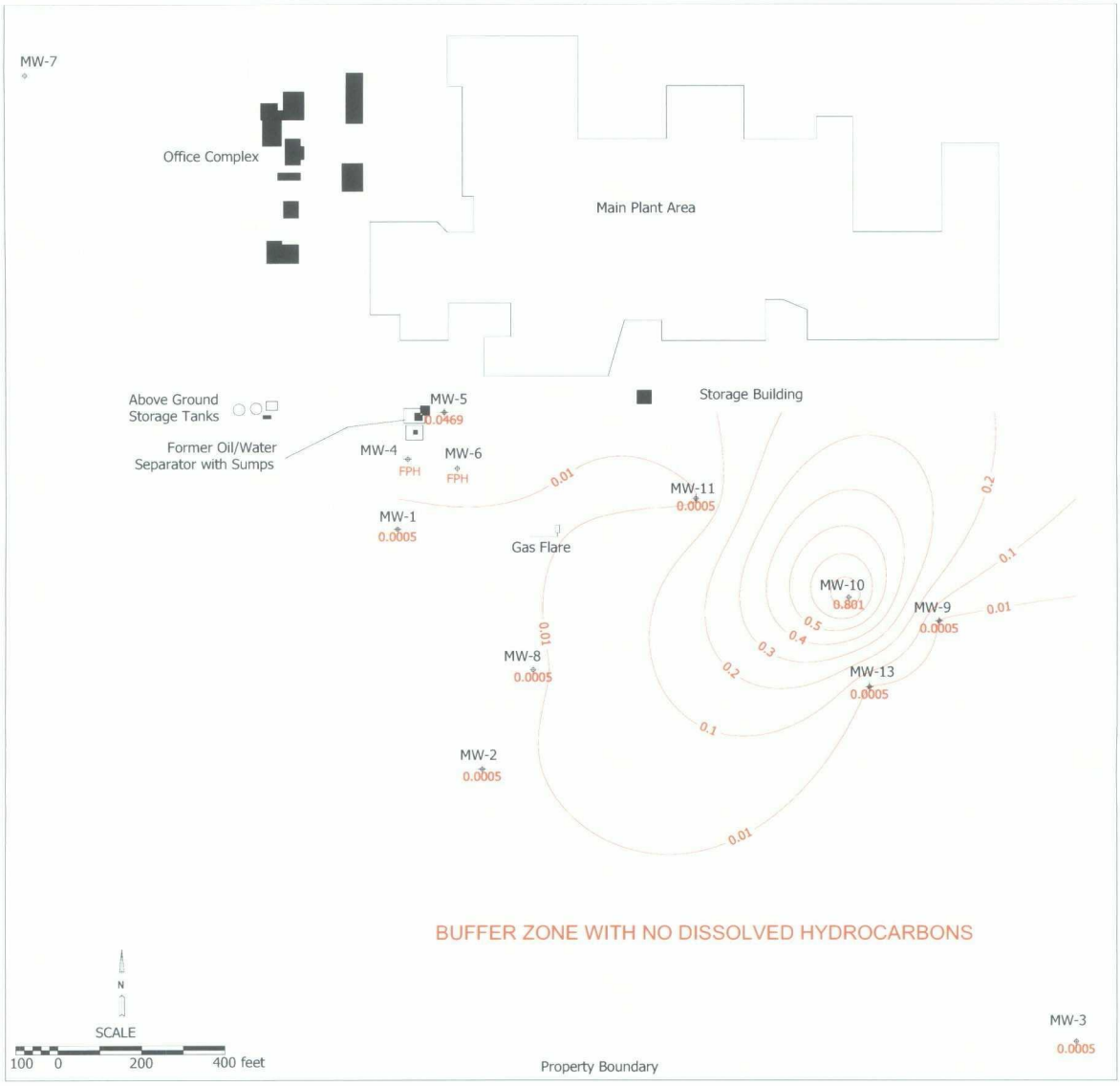
Figure 5 – Linam Ranch Free Phase Hydrocarbon Thickness

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 10/09



FPH: Free phase hydrocarbons
Contour interval is 0.1 mg/l with an additional 0.01 mg/l isopleth
Wells with a 0.005 mg/l value are below the method reporting limit

Figure 6 – March 2009 Benzene Distribution
Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS
REVISED:
DATE: 10/09

Figure 7 – Benzene Concentrations in MW-5

Linam Ranch Gas Plant Monitoring

dcp Midstream

DRAWN BY: MHS

DATE: 10/09

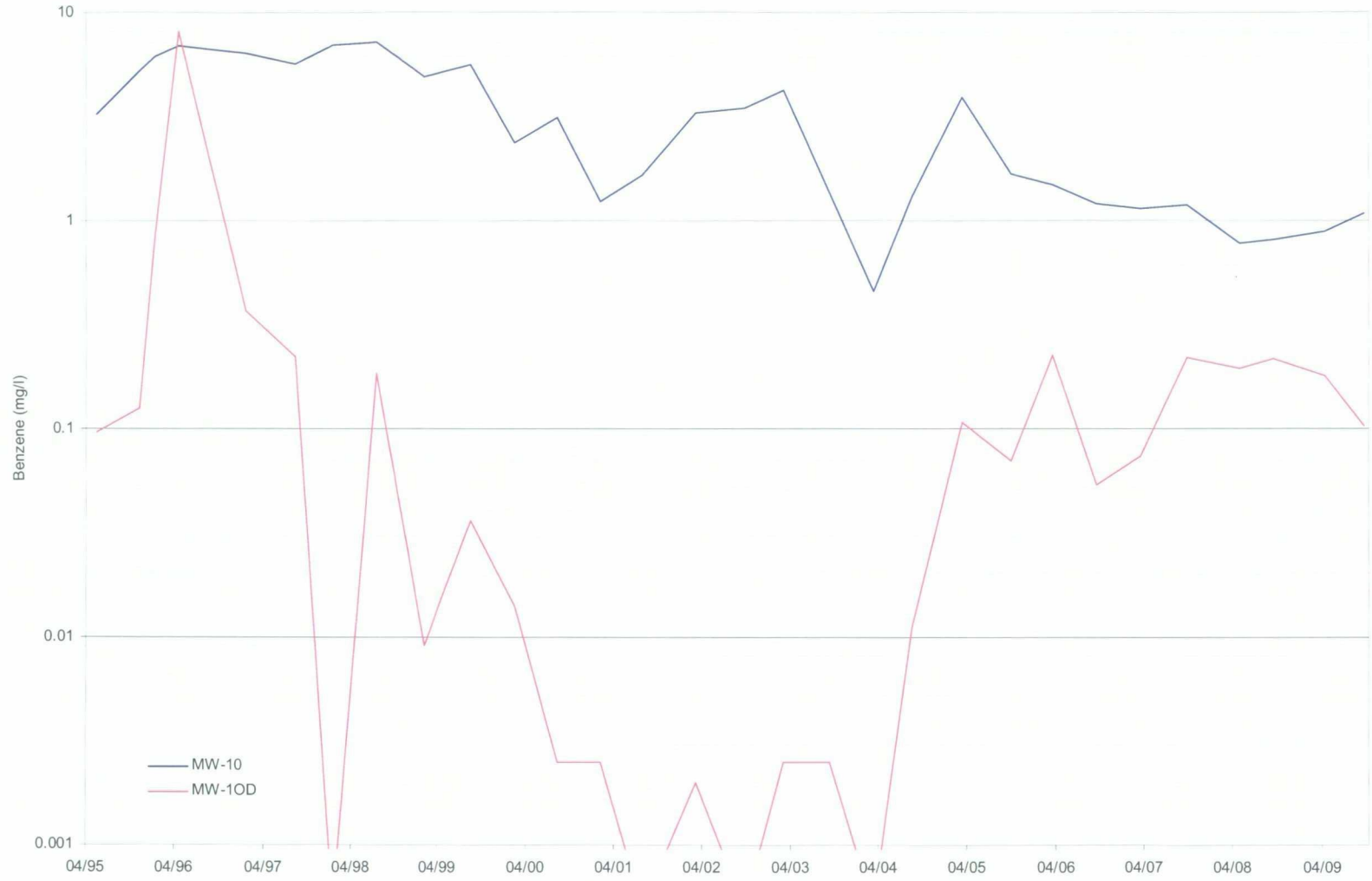


Figure 8 – Benzene Concentrations for MW-10 and MW-10d

Linam Ranch Gas Plant Monitoring

dcp Midstream.

DRAWN BY: MHS

DATE: 10/09

FIELD SAMPLING DATA AND

LABORATORY ANALYTICAL REPORT

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-1**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO. _____
SAMPLER: A Taylor/M Stewart

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: 46.07 Feet
HEIGHT OF WATER COLUMN: 8.13 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
	1.5	19.5	1.31	6.83			
	3.0	19.3	1.26	6.81			
	4.9	19.1	1.19	6.84			Sampled at: 1415
			4.9	:Total Vol (gal)			

SAMPLE NO.: Collected Sample No.: MW-1
ANALYSES: 8260B
COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-2**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO. _____
SAMPLER: A Taylor/M Stewart

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: 44.74 Feet
HEIGHT OF WATER COLUMN: 5.76 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
	1.3	19.2	0.42	7.26			
	2	18.2	0.41	7.36			Bailed down
							Sampled at: 1150
			2	:Total Vol (gal)			

SAMPLE NO.: Collected Sample No.: MW-2

ANALYSES: 8260B

COMMENTS: Collected sample for MS/MSD evaluation

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-3**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 47.78 Feet
HEIGHT OF WATER COLUMN: 7.52 Feet
WELL DIAMETER: 2.0 Inch

3.7 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
	1.3	19.3	0.37	7.72			
	2.6	19.2	0.36	7.69			
	3.9	19.1	0.38	7.70			Sampled at: 1545
			3.9 :Total Vol (gal)				

SAMPLE NO.: Collected Sample No.: MW-3
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-5**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 47.89 Feet
HEIGHT OF WATER COLUMN: 7.31 Feet
WELL DIAMETER: 4.0 Inch

14.3 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
	5.0	21.7	2.01	6.75			
	10.0	21.5	2.06	6.83			
	15.0	21.2	2.09	6.94			Sampled at: 1450
			15 :Total Vol (gal)				

SAMPLE NO.: Collected Sample No.: MW-5
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: Duke Energy Field Services
WELL ID: **MW-7**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
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: Dry at 58.2 Feet
HEIGHT OF WATER COLUMN: #VALUE! Feet
WELL DIAMETER: 2.0 Inch

#VALUE! 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
11:41	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.: 090924 1200

ANALYSES: BTEX (8021-B)

COMMENTS: _____

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-8**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 44.19 Feet
HEIGHT OF WATER COLUMN: 14.11 Feet
WELL DIAMETER: 4.0 Inch

27.6 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
	9.0	18.5	0.37	7.45			
	19.0	17.8	0.37	7.50			
	28.5	17.8	0.37	7.59			Sampled at: 1150
			28.5 :Total Vol (gal)				

SAMPLE NO.: Collected Sample No.: MW-8
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-9**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 51.10 Feet
HEIGHT OF WATER COLUMN: 8.00 Feet
WELL DIAMETER: 2.0 Inch

3.9 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
	1.3	20	0.98	6.82			
	2.6	20.5	0.98	6.83			
	3.9	19.2	0.98	6.83			Sampled at: 1330
			3.9	:Total Vol (gal)			

SAMPLE NO.: Collected Sample No.: MW-9
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-10**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 51.15 Feet
HEIGHT OF WATER COLUMN: 13.85 Feet
WELL DIAMETER: 4.0 Inch

27.1 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
	9.3	19.5	1.24	7.20			
	18.6	19.6	1.32	7.31			
	27.9	19.8	1.30	7.33			Sampled at: 1255
			27.9 :Total Vol (gal)				

SAMPLE NO.: Collected Sample No.: MW-10

ANALYSES: 8260B

COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-10d**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 52.32 Feet
HEIGHT OF WATER COLUMN: 26.68 Feet
WELL DIAMETER: 2.0 Inch

13.1 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
	4.5	19.5	0.92	7.24			
	9.0	19.8	0.93	7.15			
	13.5	19.9	0.91	7.17			Sampled at: 1245
			13.5 :Total Vol (gal)				

SAMPLE NO.: Collected Sample No.: MW-10D
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-11**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 52.21 Feet
HEIGHT OF WATER COLUMN: 10.59 Feet
WELL DIAMETER: 4.0 Inch

20.7 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
	7.0	19.8	1.03	6.87			
	14.0	19.5	1.03	6.85			
	21.0	19.4	1.03	6.91			Sampled at: 1525
			21	:Total Vol (gal)			

SAMPLE NO.: Collected Sample No.: MW-11
ANALYSES: 8260B
COMMENTS:

WELL SAMPLING DATA FORM

CLIENT: DCP Midstream, LP
WELL ID: **MW-13**
SITE NAME: Linam Ranch Gas Plant
DATE: 9/24/2009
PROJECT NO.
SAMPLER: A Taylor/M Stewart

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: 52.74 Feet
HEIGHT OF WATER COLUMN: 10.26 Feet
WELL DIAMETER: 4.0 Inch

20.1 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
	7.0	20	1.07				
	14.0	19.1	1.08				
	21.0	19.1	1.08				Sampled at: 1335
			21	:Total Vol (gal)			

SAMPLE NO.: Collected Sample No.: MW-13
ANALYSES: 8260B
COMMENTS:

Gulf Coast ACCUTEST Laboratories

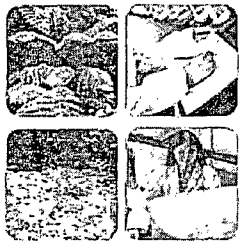
IT'S ALL IN THE CHEMISTRY

10/23/09

Technical Report for

DCP Midstream, LLC

AECCOLI: DCP Midstream Linam Ranch



Accutest Job Number: T38370

Sampling Date: 09/24/09

Report to:

American Environmental Consulting

mstewart@aecdenver.com

ATTN: Mike Stewart

Total number of pages in report: 27

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: Georgia Jones 713-271-4700

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

Sections: 1 2 3 4

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Sample Summary

DCP Midstream, LLC

Job No: T38370

AECCOLI: DCP Midstream Linam Ranch

Sample Number	Collected Date	Time	By	Received	Matrix Code	Matrix Type	Client Sample ID
T38370-1	09/24/09	14:15		09/25/09	AQ	Ground Water	MW-1
T38370-2	09/24/09	11:50		09/25/09	AQ	Ground Water	MW-2
T38370-2D	09/24/09	11:50		09/25/09	AQ	Water Dup/MSD	MW-2 MSD
T38370-2S	09/24/09	11:50		09/25/09	AQ	Water Matrix Spike	MW-2 MS
T38370-3	09/24/09	15:45		09/25/09	AQ	Ground Water	MW-3
T38370-4	09/24/09	14:50		09/25/09	AQ	Ground Water	MW-5
T38370-5	09/24/09	11:50		09/25/09	AQ	Ground Water	MW-8
T38370-6	09/24/09	13:30		09/25/09	AQ	Ground Water	MW-9
T38370-7	09/24/09	12:55		09/25/09	AQ	Ground Water	MW-10
T38370-8	09/24/09	12:45		09/25/09	AQ	Ground Water	MW-10D
T38370-9	09/24/09	15:25		09/25/09	AQ	Ground Water	MW-11
T38370-10	09/24/09	13:35		09/25/09	AQ	Ground Water	MW-13
T38370-11	09/24/09	00:00		09/25/09	AQ	Trip Blank Water	TRIP BLANK

Sample Results

Report of Analysis

Report of Analysis

Client Sample ID:	MW-1		
Lab Sample ID:	T38370-1	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035851.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	101%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	85%		80-133%

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:	T38370-2	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035847.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	107%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	95%		87-119%
460-00-4	4-Bromofluorobenzene	89%		80-133%

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:	T38370-3	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035852.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	100%		79-122%
17060-07-0	1,2-Dichloroethane-D4	105%		75-121%
2037-26-5	Toluene-D8	98%		87-119%
460-00-4	4-Bromofluorobenzene	82%		80-133%

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:	T38370-4	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035857.D	1	09/29/09	JL	n/a	n/a	VY2320
Run #2	Y0035860.D	5	09/29/09	JL	n/a	n/a	VY2320

	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	0.0272	0.0020	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	0.227 [a]	0.010	0.0027	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	79%	91%	79-122%
17060-07-0	1,2-Dichloroethane-D4	106%	91%	75-121%
2037-26-5	Toluene-D8	97%	100%	87-119%
460-00-4	4-Bromofluorobenzene	106%	110%	80-133%

(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:	T38370-5	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035853.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	92%		79-122%
17060-07-0	1,2-Dichloroethane-D4	95%		75-121%
2037-26-5	Toluene-D8	104%		87-119%
460-00-4	4-Bromofluorobenzene	81%		80-133%

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:	T38370-6	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035854.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	111%		79-122%
17060-07-0	1,2-Dichloroethane-D4	106%		75-121%
2037-26-5	Toluene-D8	107%		87-119%
460-00-4	4-Bromofluorobenzene	87%		80-133%

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:	T38370-7	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035964.D	10	10/01/09	AP	n/a	n/a	VY2324
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	1.07	0.020	0.0050	mg/l	
108-88-3	Toluene	0.126	0.020	0.0043	mg/l	
100-41-4	Ethylbenzene	0.148	0.020	0.0055	mg/l	
1330-20-7	Xylene (total)	0.154	0.060	0.017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	89%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	110%		87-119%
460-00-4	4-Bromofluorobenzene	133%		80-133%

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:	T38370-8	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035858.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.103	0.0020	0.00050	mg/l	
108-88-3	Toluene	0.0496	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	0.0127	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	0.0261	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	98%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	107%		80-133%

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:	T38370-9	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035855.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	93%		79-122%
17060-07-0	1,2-Dichloroethane-D4	100%		75-121%
2037-26-5	Toluene-D8	88%		87-119%
460-00-4	4-Bromofluorobenzene	95%		80-133%

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-13		
Lab Sample ID:	T38370-10	Date Sampled:	09/24/09
Matrix:	AQ - Ground Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035856.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	86%		79-122%
17060-07-0	1,2-Dichloroethane-D4	96%		75-121%
2037-26-5	Toluene-D8	100%		87-119%
460-00-4	4-Bromofluorobenzene	113%		80-133%

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@39483 10:52 23-Oct-2009

Report of Analysis

Client Sample ID:	TRIP BLANK		
Lab Sample ID:	T38370-11	Date Sampled:	09/24/09
Matrix:	AQ - Trip Blank Water	Date Received:	09/25/09
Method:	SW846 8260B	Percent Solids:	n/a
Project:	AECCOLI: DCP Midstream Linam Ranch		

	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
Run #1	Y0035846.D	1	09/29/09	JL	n/a	n/a	VY2320
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	0.00050	mg/l	
108-88-3	Toluene	ND	0.0020	0.00043	mg/l	
100-41-4	Ethylbenzene	ND	0.0020	0.00055	mg/l	
1330-20-7	Xylene (total)	ND	0.0060	0.0017	mg/l	

CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits
1868-53-7	Dibromofluoromethane	104%		79-122%
17060-07-0	1,2-Dichloroethane-D4	108%		75-121%
2037-26-5	Toluene-D8	101%		87-119%
460-00-4	4-Bromofluorobenzene	83%		80-133%

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

ACCUTEST Laboratories

10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page ___ of

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # T38370

Client / Reporting Information

Company Name: DCP Midstream

Project Contact: ~~Stephen Weathers~~ Chandler Cole | E-Mail: ccole SWWeathers@dcpmidstream.com

Address: 370 Seventeenth Street, Suite 2500

City: Denver | State: CO | Zip: 80202

Phone No.: 303-605-1718 | Fax No.:

Samplers's Name:

Project Information

Project Name / No.: DCP Midstream Linam Ranch

Bill to: Same | Invoice Attn.:

Address:

City | State | Zip

Phone No. | Fax No.

Client Purchase Order #

Requested Analyses

BTEX 8260B

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Wastewater
SO - Soil
SL - Sludge
OI - Oil
LIQ - Liquid
SOL - Other Solid

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles	BTEX 8260B	LAB USE ONLY
1	MW-1 time adj	9/24	~~1150~~	GW	3	3	X	
2	MW-2	9/24	1150	GW	3	3	X	
3	MW-3	9/24	345	GW	~~3~~ 2	~~3~~ 2	X	
4	MW-5	9/24	950	GW	3	3	X	
~~5~~	MW-7	No sample	—	GW	—		X	
5	MW-8	9/24	1150	GW	2	2	X	
6	MW-9	9/24	130	GW	3	3	X	
7	MW-10	9/24	1255	GW	2	2	X	
8	MW-10d	9/24	1245	GW	2	2	X	
	MW-2 MS/MSD	9/24	1150	GW	4/4/6		X	

Turnaround Time (Business days)

- [ ] 10 Day STANDARD — Approved By:/ Date:
- [X] 7 Day
- [ ] 4 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only

Commercial "B" = Results & Standard QC

Comments / Remarks

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		9/24/09	1	2	9.25-9	2
3	Relinquished by:	Date Time: 600 PM	Received By: 3	Relinquished By: 4	Date Time:	Received By: 4
5	Relinquished by:	Date Time:	Received By: 5	Custody Seal #	Preserved where applicable	On Ice / Cooler Temp. 3.2

3.1

T38370: Chain of Custody
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CHAIN OF CUSTODY

ACCUTEST Laboratories
10165 Harwin, Suite 150 - Houston, TX 77036 - 713-271-4700 fax: 713-271-4770

Page ___ of

FED-EX Tracking # | Bottle Order Control #

Accutest Quote # | Accutest Job # T38370

Client / Reporting Information

Company Name: DCP Midstream

Project Contact: Chandler Cole / Stephen Weathers | E-Mail: CCole, SWWeathers@dcpmidstream.com

Address: 370 Seventeenth Street, Suite 2500

City: Denver | State: CO | Zip: 80202

Phone No.: 303-605-1718 | Fax No.:

Samplers's Name:

Project Information

Project Name / No.: DCP Midstream Linam Ranch

Bill to: Same | Invoice Attn.:

Address:

City | State | Zip

Phone No. | Fax No.

Client Purchase Order #

Requested Analyses

Matrix Codes

DW - Drinking Water
GW - Ground Water
WW - Wastewater
SO - Soil
SL - Sludge
OI - Oil
LIQ - Liquid
SOL - Other Solid

Accutest Sample #	Field ID / Point of Collection	Collection Date	Collection Time	Matrix	# of bottles	Number of preserved bottles: HCl	NaOH	HNO3	H2SO4	ENCORE	NaHSO4	MEOH	NONE	BTEX 8260B	LAB USE ONLY
9	MW-11	9/24	325	GW	3	3								X	
	MW-12	No Sample	—	GW	—	—								X	
10	MW-13	9/24	135	GW	3	3								X	
	Dup			GW										X	
11	Trip Blank Yes	9/24	Lab	WTB	3	—								X	

Turnaround Time (Business days)

- [ ] 10 Day *STANDARD* — Approved By:/ Date:
- [X] 7 Day
- [ ] 4 Day *RUSH*
- [ ] 3 Day *EMERGENCY*
- [ ] 2 Day *EMERGENCY*
- [ ] 1 Day *EMERGENCY*
- [ ] Other

Real time analytical data available via Lablink

Data Deliverable Information

- [ ] Commercial "A"
- [X] Commercial "B"
- [ ] Reduced Tier 1
- [ ] Full Data Package
- [ ] TRRP-13
- [ ] EDD Format
- [ ] Other

Commercial "A" = Results Only
Commercial "B" = Results & Standard QC

Comments / Remarks

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		9/24/09	1	2 Fed Ex	9.25-9 941	2
2	Relinquished by:	Date Time: 600 PM	Received By:	Relinquished By:	Date Time:	Received By:
3			3	4		4
5	Relinquished by:	Date Time:	Received By:	Custody Seal #	Preserved where applicable ☐	On Ice ☐ Cooler Temp.

SAMPLE INSPECTION FORM

Accutest Job Number: T38370 Client: DCP MidStream Date/Time Received: 9-25-9 945

# of Coolers Received: 1 Thermometer #: IR-1 Temperature Adjustment Factor: +.4

Cooler Temps: #1: 3.2° #2: _____ #3: _____ #4: _____ #5: _____ #6: _____ #7: _____ #8: _____

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

Airbill Numbers: _____

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 revd 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] 9-25-9

INFORMATION AND SAMPLE LABELING VERIFIED BY: _____

CORRECTIVE ACTIONS

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

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

Client Instructions:

3.1

T38370: Chain of Custody
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SAMPLE RECEIPT LOG

JOB #: T38370 DATE/TIME RECEIVED: 9-25-9 945

CLIENT: DCP Midstream INITIALS: SC

COOLER#	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	PH	
1	1	MW-1	9.24.9 215	W	40 ml	1-3	VR	1 (2) 3 4 5 6 7 8	<2	>12
	2	MW-2	1150			1-3		1 (2) 3 4 5 6 7 8	<2	>12
	2	-2 MS				4-6		1 (2) 3 4 5 6 7 8	<2	>12
	2	-2 MSD	↓			7-9		1 (2) 3 4 5 6 7 8	<2	>12
	3	-3	345			1-2		1 (2) 3 4 5 6 7 8	<2	>12
	4	-5	250			1-3		1 (2) 3 4 5 6 7 8	<2	>12
	5	-8	1150			1-2		1 (2) 3 4 5 6 7 8	<2	>12
	6	-9	130			1-3		1 (2) 3 4 5 6 7 8	<2	>12
	7	-10	1255			1-2		1 (2) 3 4 5 6 7 8	<2	>12
	8	-10D	1245			1-2		1 (2) 3 4 5 6 7 8	<2	>12
	9	-11	325			1-3		1 (2) 3 4 5 6 7 8	<2	>12
	10	-13	135					1 (2) 3 4 5 6 7 8	<2	>12
↓	11	T.B Blank	—	↓	↓	1-2	↓	1 (2) 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12
								1 2 3 4 5 6 7 8	<2	>12

9.25.9

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 awn

T38370: Chain of Custody
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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: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2320-MB	Y0035845.D	1	09/29/09	JL	n/a	n/a	VY2320

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

T38370-1, T38370-2, T38370-3, T38370-4, T38370-5, T38370-6, T38370-8, T38370-9, T38370-10, T38370-11

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	111%	79-122%
17060-07-0	1,2-Dichloroethane-D4	104%	75-121%
2037-26-5	Toluene-D8	102%	87-119%
460-00-4	4-Bromofluorobenzene	86%	80-133%

Method Blank Summary

Job Number: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2324-MB	Y0035949.D	1	10/01/09	AP	n/a	n/a	VY2324

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

T38370-7

CAS No.	Compound	Result	RL	MDL	Units	Q
71-43-2	Benzene	ND	2.0	0.50	ug/l	
100-41-4	Ethylbenzene	ND	2.0	0.55	ug/l	
108-88-3	Toluene	ND	2.0	0.43	ug/l	
1330-20-7	Xylene (total)	ND	6.0	1.7	ug/l	

CAS No.	Surrogate Recoveries		Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	95%	75-121%
2037-26-5	Toluene-D8	109%	87-119%
460-00-4	4-Bromofluorobenzene	126%	80-133%

Blank Spike Summary

Job Number: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2320-BS	Y0035843.D	1	09/29/09	JL	n/a	n/a	VY2320

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

T38370-1, T38370-2, T38370-3, T38370-4, T38370-5, T38370-6, T38370-8, T38370-9, T38370-10, T38370-11

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	20.2	81	76-118
100-41-4	Ethylbenzene	25	21.2	85	75-112
108-88-3	Toluene	25	21.1	84	77-114
1330-20-7	Xylene (total)	75	69.8	93	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	103%	79-122%
17060-07-0	1,2-Dichloroethane-D4	103%	75-121%
2037-26-5	Toluene-D8	101%	87-119%
460-00-4	4-Bromofluorobenzene	102%	80-133%

Blank Spike Summary

Job Number: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
VY2324-BS	Y0035947.D	1	10/01/09	AP	n/a	n/a	VY2324

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

T38370-7

CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	Limits
71-43-2	Benzene	25	22.3	89	76-118
100-41-4	Ethylbenzene	25	23.3	93	75-112
108-88-3	Toluene	25	24.0	96	77-114
1330-20-7	Xylene (total)	75	63.3	84	75-111

CAS No.	Surrogate Recoveries	BSP	Limits
1868-53-7	Dibromofluoromethane	90%	79-122%
17060-07-0	1,2-Dichloroethane-D4	97%	75-121%
2037-26-5	Toluene-D8	106%	87-119%
460-00-4	4-Bromofluorobenzene	120%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T38370-2MS	Y0035848.D	1	09/29/09	JL	n/a	n/a	VY2320
T38370-2MSD	Y0035849.D	1	09/29/09	JL	n/a	n/a	VY2320
T38370-2	Y0035847.D	1	09/29/09	JL	n/a	n/a	VY2320

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

T38370-1, T38370-2, T38370-3, T38370-4, T38370-5, T38370-6, T38370-8, T38370-9, T38370-10, T38370-11

CAS No.	Compound	T38370-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	18.8	75*	17.3	69*	8	76-118/16
100-41-4	Ethylbenzene	ND		25	20.5	82	18.1	72*	12	75-112/12
108-88-3	Toluene	ND		25	18.2	73*	21.9	88	18*	77-114/12
1330-20-7	Xylene (total)	ND		75	63.4	85	63.3	84	0	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T38370-2	Limits
1868-53-7	Dibromofluoromethane	103%	101%	107%	79-122%
17060-07-0	1,2-Dichloroethane-D4	109%	101%	105%	75-121%
2037-26-5	Toluene-D8	93%	95%	95%	87-119%
460-00-4	4-Bromofluorobenzene	83%	85%	89%	80-133%

Matrix Spike/Matrix Spike Duplicate Summary

Job Number: T38370
Account: DUKE DCP Midstream, LLC
Project: AECCOLI: DCP Midstream Linam Ranch

Sample	File ID	DF	Analyzed	By	Prep Date	Prep Batch	Analytical Batch
T38383-2MS	Y0035953.D	1	10/01/09	AP	n/a	n/a	VY2324
T38383-2MSD	Y0035954.D	1	10/01/09	AP	n/a	n/a	VY2324
T38383-2	Y0035952.D	1	10/01/09	AP	n/a	n/a	VY2324

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

T38370-7

CAS No.	Compound	T38383-2 ug/l	Q	Spike ug/l	MS ug/l	MS %	MSD ug/l	MSD %	RPD	Limits Rec/RPD
71-43-2	Benzene	ND		25	22.7	91	22.8	91	0	76-118/16
100-41-4	Ethylbenzene	ND		25	23.6	94	22.8	91	3	75-112/12
108-88-3	Toluene	ND		25	23.8	95	23.9	96	0	77-114/12
1330-20-7	Xylene (total)	ND		75	64.9	87	63.3	84	2	75-111/12

CAS No.	Surrogate Recoveries	MS	MSD	T38383-2	Limits
1868-53-7	Dibromofluoromethane	89%	91%	88%	79-122%
17060-07-0	1,2-Dichloroethane-D4	100%	99%	97%	75-121%
2037-26-5	Toluene-D8	105%	107%	109%	87-119%
460-00-4	4-Bromofluorobenzene	115%	116%	121%	80-133%