# **GW - 015**

# MONITORING REPORTS

# DATE: 2007-2009



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

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2008 DEC 5 PM 3 45

December 3, 2008

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

## RE: 2<sup>nd</sup> 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 2<sup>nd</sup> 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 <u>swweathers@dcpmidstream.com</u>.

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).

6885 South Marshall St., Suite 3, Littleton, CO 80128 phone 303-948-7733 fax 303-948-7739

Mr. Stephen Weathers November 26, 2008 Page 2

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:

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- 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.

Mr. Stephen Weathers November 26, 2008 Page 4

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

Muchael H. Stewart

Michael H. Stewart, PE Principal Engineer

MHS/tbm

attachment

# TABLES

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 beca	use of safety	concerns
MW-13	3721.63	63.00	4

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Table 1 – Linam Ranch Gas Plant Well Construction Summary

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	Inac	ccessible be	cause of safety co	oncerns
MW-13	51.93			3,672.06

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

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	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	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	3676.28 3674.68		3676.23	3675.37	3674.45	3674.63	3676.23 3675.37 3674.45 3674.63 3674.19 3673.67 3673.76 3675.21 3675.41 3676.71 3676.99 3674.81	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99	3674.81
MW-2		3682.29	3682.29 3673.49				3673.19		3672.80 3672.37 3672.41 3674.43 3672.68 3679.43 3674.05 3672.69	3672.37	3672.41	3674.43	3672.68	3679.43	3674.05	3672.69
MW-3		3671.47	3670.72	3671.47 3670.72 3671.30		3671.13 3670.47	3670.47		3669.96	3669.80	3669.59	3669.68	3669.51	3669.68	3669.96 3669.80 3669.59 3669.68 3669.51 3669.68 3669.48 3669.3	3669.31
MW-4	3677.10	3676.96	3675.43	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	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	3677.65 3677.33 3675.43 3676.62 3676.23 3675.51 3674.35 3673.96 3674.74 3674.21 3674.84 3675.47 3675.47 3675.84 3675.66 3675.24 3674.82	3676.23	3675.51	3674.35	3673.96	3674.74	3674.21	3674.84	3675.47	3675.84	3675.66	3675.24	3674.82
9-MM	3676.87	3676.70	3674.87	3676.87 3676.70 3674.87 3676.80 3676.18 3676.37 3674.21 3673.91 3674.21 3673.59 3673.59 3673.84 3674.86 3675.11 3675.61 3674.75 3674.15	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	3674.83 3672.73		3674.47	3673.36	3672.78	3672.04	3674.47 3673.36 3672.78 3672.04 3671.87 3671.61 3671.48 3672.56 3671.93 3674.66 3672.60 3671.26	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60	3671.26
6-WW		3672.89	3671.88	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	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	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 3671.36	3673.08	3672.75	3671.78	3671.41	3671.33	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36	3671.06
<b>MW-10D</b>			3672.16	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 3670.97	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	3673.03 3674.19 3673.88 3673.31 3672.21 3671.81 3672.01 3671.88 3671.68 3672.06 3672.09 3672.09 3672.47 3672.22 3671.79	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	3672.37 3673.32 3673.25 3672.75 3671.74 3671.40 3671.34 3671.18 3671.00 3671.59 3671.33 3671.33 3671.86 3671.50 3671.07	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	3672.02 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	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	3/11/02 9/25/02	3/8/03	9/17/03	9/17/03 3/16/04	8/17/04	3/15/05	8/17/04 3/15/05 9/29/05 3/22/06 9/21/06 3/20/07	3/22/06	9/21/06	3/20/07	9/28/07	4/30/08 9/15/08	9/15/08
MW-1	3674.04	3674.04 3674.43	3674.32	3673.80	3674.30	3676.59	3682.86	3673.80 3674.30 3676.59 3682.86 3684.83 3684.08 3682.25 3677.05 3677.62 3677.57 3675.05	3684.08	3682.25	3677.05	3677.62	3677.57	3675.05
MW-2	3672.07	3672.07 3672.26 3672.21	3672.21	3671.69	3671.26	3679.10	3679.39	3671.69 3671.26 3679.10 3679.39 3678.22 3676.04 3681.68 3674.88 3693.79 3693.74 3673.08	3676.04	3681.68	3674.88	3693.79	3693.74	3673.08
MW-3	3669.14	3669.03	MW-3 3669.14 3669.03 3669.06	3668.87	3668.63	3669.00	3671.37	3668.87 3668.63 3669.00 3671.37 3671.52 3671.63 3672.00 3671.45 3671.31 3671.26 3670.30	3671.63	3672.00	3671.45	3671.31	3671.26	3670.30
MW-4	3674.59	3675.13	3674.59 3675.13 3674.60	3674.16	3674.04	3675.77	3681.85	3674.16 3674.04 3675.77 3681.85 3682.38 3682.04 3680.94 3677.98 3677.77 3676.48 3675.63	3682.04	3680.94	3677.98	3677.77	3676.48	3675.63
MW-5	MW-5 3675.07 3674.99	3674.99	3674.81	3674.32	3674.32	3674.32	3680.24	3674.32 3674.32 3674.32 3680.24 3680.65 3680.66 3680.23 3678.70 3677.03 3676.98 3675.93	3680.66	3680.23	3678.70	3677.03	3676.98	3675.93
MW-6	MW-6 3674.30 3674.61 3674.12	3674.61	3674.12	3673.55	3673.07	3674.68	3680.13	3673.55 3673.07 3674.68 3680.13 3677.46 3677.42 3677.37 3677.70 3677.21 3675.96 3674.92	3677.42	3677.37	3677.70	3677.21	3675.96	3674.92
MW-8	3671.51	3671.59	MW-8 3671.51 3671.59 3671.59	3670.71	3670.67	3673.30	3676.74	3670.71 3670.67 3673.30 3676.74 3677.01 3675.71 3677.09 3674.32 3681.16 3672.09 3672.47	3675.71	3677.09	3674.32	3681.16	3672.09	3672.47
6-MM	3670.61	3670.61	MW-9 3670.61 3670.61 3670.68		3670.15	3670.28	3673.36	3670.48 3670.15 3670.28 3673.36 3673.66 3674.00 3673.41 3673.42 3672.65 3681.10 3672.20	3674.00	3673.41	3673.42	3672.65	3681.10	3672.20
MW-10	MW-10 3671.10 3671.13	3671.13	3671.17	3670.87	3670.52	3670.84	3674.42	3670.87 3670.52 3670.84 3674.42 3674.35 3674.69 3674.13 3673.99 3673.14 3674.08 3672.69	3674.69	3674.13	3673.99	3673.14	3674.08	3672.69
MW-10D	3670.84	3670.81	MW-10D 3670.84 3670.81 3670.85		3670.28	3670.51	3673.72	3670.46 3670.28 3670.51 3673.72 3674.03 3674.05 3673.75 3674.92 3672.70 3672.59 3672.3	3674.05	3673.75	3674.92	3672.70	3672.59	3672.31
MW-11	3672.02	3672.05	MW-11 3672.02 3672.05 3672.00	3671.49	3671.02	3671.67	3675.45	3671.49 3671.02 3671.67 3675.45 3675.54 3675.68 3675.30 3674.52 3673.80 3672.58 3673.15	3675.68	3675.30	3674.52	3673.80	3672.58	3673.15
MW-12	3671.01	3671.09	MW-12 3671.01 3671.09 3671.15 3670.81 3670.36 3671.10 3674.97 3674.46 3674.64 3674.52	3670.81	3670.36	3671.10	3674.97	3674.46	3674.64	3674.52	NS	NS	NS	NS
MW-13	3670.50	3670.50	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 3672.60	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	mpled due	to safety cc	ncerns											

### 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%
	10.0 %	1.00	5.070	10.070

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

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	No	t sampled due	e to safety conce	rns
MW-13	< 0.002	<0.002	< 0.002	< 0.006

Table 5 – Linam Ranch Gas Plant September 2008 Sampling Results

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

IW-13					<0.001	0.003	<0.001	<0.001	0.048	0.132	0.082	0.061	0.082	0.062	0.08	0.04	0.023	0.002	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
1W-12 N				-	<0.001 <	<0.001 (	<0.001 <	<0.001 <	<0.001 (	0.001	<0.001 0	0.002	0.001	0.003	<0.001	<0.005	<0.001	<0.001	<0.001 <	<0.001 <	<0.001 <	<0.005 <	<0.001 <		<0.001 <	<0.001 <	<0.005 <	<0.001 <	· .	V			of included
11-W1					<0.001 <	0.306 <	0.549 <	0.52 <	0.267 <	0.164	0.291 <	0.061	0.018	0.005	0.02 <	o.009 <	0.013 <	0.002 <	0.005 <	0.002 <	<0.001 <	<0.005 <	<0.001 <	0.003 <	0.0264 <	<0.001	<0.001 <	<0.001	<0.001	<0.001	<0.002	<0.002	fiers are n
MW-10 MW-10D MW-11 MW-12 MW-13		-			0.096	0.125	0.841	8.14	0.365	0.221	<0.001	0.184	0.009	0.036	0.014	<0.005	<0.005	<0.001	0.002	<0.001	<0.005	<0.005	<0.001	0.011	0.107	0.0703	0.224	0.0537	0.0736	0.218	0.195	0.216	ne: 3) Mod
4W-10 N					3.225	5.23	6.11	6.94	6.41	5.63	7.03	7.18	4.87	5.58	2.35	3.11	1.23	1.64	3.26	3.48	4.21	1.34	0.456	1.3	3.91	1.67	1.48	1.19	1.13	1.18	0.769	0.801	Fetty concer
6-MM					<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	0.011	<0.005	0.014	0.036	<0.005	0.038	0.048	0.071	0.077	<0.005	<0.001	<0.001	0.0061	0.0029	0.0023	0.001	<0.001	< 0.001	<0.002	<0.002	duo to 00
MW-8				<0.001	<0.001									<0.001	<0.005	0.002	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001 0.0029	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	90/0 -040
MW-7					<0.001									<0.005	<0.005	<0.005	<0.005	<0.005	< 0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		bolamos
MW-6		0.34	0.52	0.77	0.98															1.29	0.16										~~~~~		
MW-5		0.003	0.009	0.300	060.0									0.137	0.068	<0.005	<0.005	<0.005	0.062	0.381	0.079	0.116	0.146	0.012	0.262	0.63	0.569	1.06	0.252	0.07375	0.0108	0.0469	TAK C P
MW-4		16.0	17.0	18.0	20.9														17.9	18.8	16.9	15.8	17.8	16.6									
MW-3	<0.001				<0.001								<0.001	<0.001	<0.001	<0.005	<0.005	0.002	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	.001 <0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	to portion
MW-2	<0.001				<0.001									<0.005	<0.005	<0.001	<0.005	0.007	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	l'inlineto
MW-1	0.0053	0.0015	0.0013	0.0039										<0.005	<0.005	<0.001	<0.005	0.003		<0.005							0.0028	0.0011	<0.001	<0.001	<0.002	<0.002	h han har
Date	9/20/1991	11/3/1992 0.0015	12/2/1992 0.0013	1/12/1994 0.0039	5/17/1995 <0.002	11/14/1995	1/17/1996	4/24/1996	1/22/1997	8/15/1997	1/22/1998	7/20/1998	2/9/1999	8/25/1999	2/22/2000	8/18/2000	2/7/2001	8/2/2001	3/11/2002 <0.001	9/25/2002 <0.005	3/10/2003 <0.001	9/17/2003 <0.001	3/16/2004 <0.001	8/18/2004 <0.001	3/15/2005 <0.001	9/29/2005 0.0067	3/22/2006 0.0028	9/21/2006 0.0011	3/20/2007	9/28/2007	4/30/2008	9/15/2008 <0.002	1) All units model and durations and accounted and all of the destruction of the duration of the destruction

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MW-13					<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	
MW-12			1		<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.005	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001					of included
11-WM					<0.001	<0.001	0.004	<0.002	<0.001	<0.001	0.004	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	fiere are n
MW-10D MW-11 MW-12 MW-13					0.004	0.001	0.001	0.046	<0.005	<0.01	<0.001	0.014	<0.005	<0.001	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	0.0444	0.0453	0.0614	0.0378	0.0563	0.0902	0.0677	0.0883	ibold 2) Modi
MW-10					0.052	0.001	0.863	<0.010	1.63	1.35	1.93	2.34	0.32	0.658	0.129	0.025	0.082	<0.02	0.178	<0.100	<0.100	0.006	<0.010	<0.020	0.303	0.39	0.254	0.197	0.212	0.246	0.0457	0.0508	fety concer
6-MW					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	< 0.001	<0.005	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.002	<0.002	due to ca
6-WM 8-WM				<0.005	<0.001									<0.005 <0.001	<0.005 <0.005 <0.005	<0.005 <0.001	<0.005 <0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001 <0.001	< 0.001 < 0.001 < 0.001 < 0.001	<0.001 <0.001 <0.001	<0.001 <0.001 <0.001	<0.001 <0.001 <0.001	< 0.001 < 0.001 < 0.001	<0.001 <0.001 <0.001	<0.002 <0.002 <0.002	<0.002 <0.002	fter 0/06
7-WM 6-WM					<0.001									<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002		pelamo
		0.023	0.020	0.0029	0.007															<0.050	<0.100												
MW-5		0.0034	0.0041	0.190	0.014									0.037	<0.005	<0.005	<0.005	<0.005	<0.001	<0.050	<0.050	<0.001	<0.001	<0.005	<0.005	<0.0100>	<0.0100	0.0069	<0.005	<0.001	<0.002	0.0008	AVANC .
MW-3 MW-4		8.0	8.2	10.0	1.35														<0.100	<0.100	<0.100	<0.200	<0.200	<0.100 <0.005									1100 CTOYO
MW-3	0.0021				<0.001								<0.001	<0.001	<0.001	<0.005	<0.005	< 0.001	<0.001	<0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	alues are
MW-2	<0.001				<0.001									<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	unlicate v
MW-1	0.0067	0.0015	0.0014	<0.001	<0.002									<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.005	<0.001	< 0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.002	<0.002	10/ and d
Date	9/20/1991	11/3/1992	12/2/1992	1/12/1994	5/17/1995	11/14/1995	1/17/1996	4/24/1996	1/22/1997	8/15/1997	1/22/1998	7/20/1998	2/9/1999	8/25/1999	2/22/2000 <0.005	8/18/2000 <0.001	2/7/2001	8/2/2001	3/11/2002	9/25/2002	3/10/2003	9/17/2003	3/16/2004	8/18/2004	3/15/2005	9/29/2005 <0.001	3/22/2006 <0.001	9/21/2006 <0.001	3/20/2007 <0.001	9/28/2007 <0.001	4/30/2008 <0.002	9/15/2008	(1) All units mull and dunlicete values are averaged: 2) MW-12 Not samuled after 0/06 due to cafety concerns: 3) Modiffers are not included

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

920(1991         0.001          0.01          0.01          0.01          0.01          0.01          0.01          0.01          0.01          0.01          0.01         0.01         0.01         0.01         0.001
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0.182         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002         <0.002 </td
0.2375 <a></a> <0.002

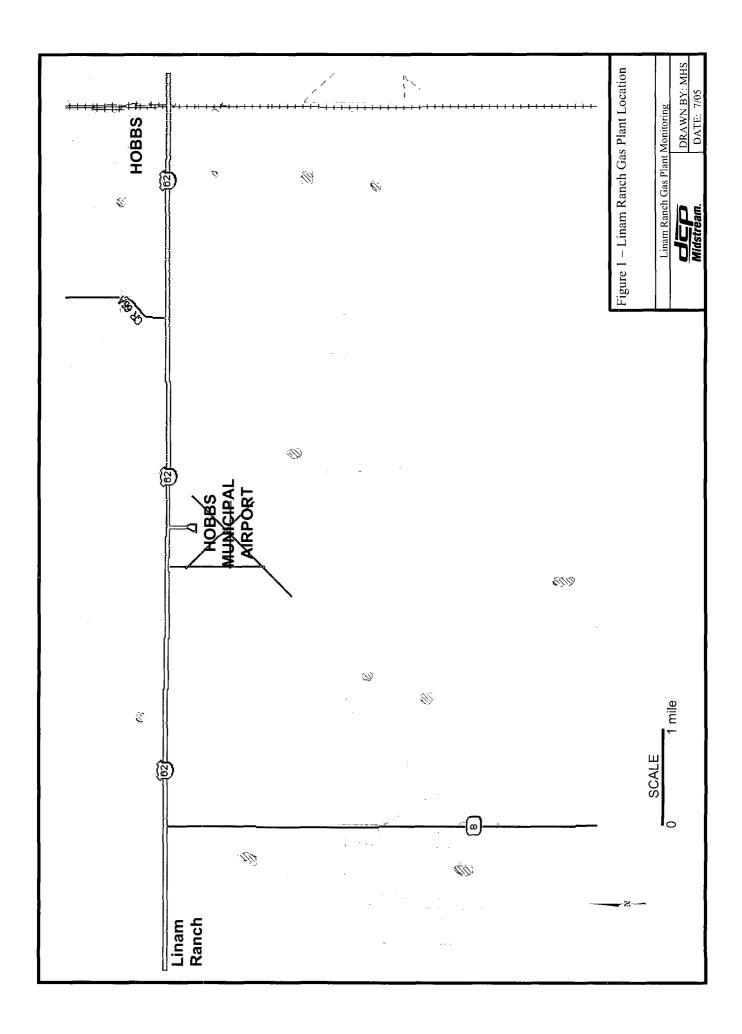
Table 9 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

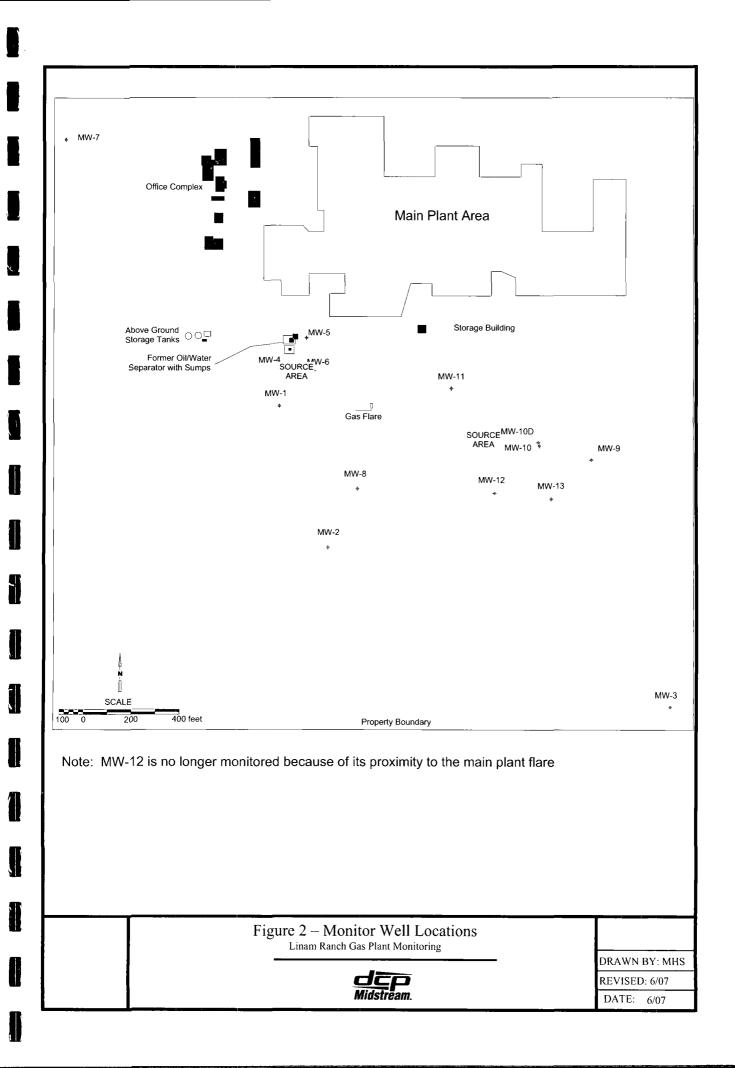
MW-13					<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	d:
MW-12					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001					ot include
MW-11					< 0.001	0.013	0.031	<0.002	0.017	0.007	0.015	0.010	< 0.001	< 0.001	0.008	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	0.0115	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	ifiers are n
MW-10 MW-10D MW-11 MW-12 MW-13					0.008	0.011	0.047	0.076	<0.005	<0.01	<0.001	0.006	<0.005	0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	0.0146	0.0119	0.0267	0.0205	<0.001	0.0375	<0.006	0.0347	ns: 3) Mod
MW-10					0.169	0.406	1.050	0.127	8.97	0.453	0.635	0.606	0.372	0.359	0.124	0.038	0.086	<0.02	0.550	0.155	<0.100	0.044	0.023	0.071	1.09	0.353	0.304	0.238	0.279	0.213	0.05	0.0433	fety concer
6-MM					< 0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005	<0.001	< 0.001	0.002	0.003	<0.005	0.012	0.004	0.0049	< 0.001	<0.001	< 0.001	0.0075	<0.001	0.05	<0.006 <0.006	due to sa
-2 MW-3 MW-4 MW-5 MW-6 MW-7 MW-8 MW-9				<0.005	<0.001									<0.001	<0.005 <0.005 <0.005	<0.005 <0.001	<0.005 <0.005	<0.001	<0.001	<0.001	< 0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001 <0.001	<0.006 <0.006	<0.006	after <u>9/</u> 06 مما
MW-7					<0.001									<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	<0.001	< 0.001	<0.00	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.006		sampled
9-ММ		0.120	0.120	0.210	0.181															0.058	< 0.100												V-12 Not
MW-5		0.034	0.037	0.490	0.831									0.179	0.09	0.008	<0.005	<0.005	<0.001	0.112	<0.050	<0.001	0.005	<0.005	0.298	0.327	0.296	0.178	0.0221	<0.001	0.0039	0.3400	d: 2) MW
MW-4		1.8	1.3	1.3	11.4														0.166	<0.100	0.151	<0.200	<0.200	<0.100									e average
MW-3	< 0.001				<0.001								<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	values ar
MW-2	<0.001				<0.001									<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	<0.006	duplicate
I-WM	<0.001	0.010	0.006	0.002	<0.002									0.006	0.006	0.011	<0.005	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	0.0081	<0.001	0.0017	<0.001	<0.001	<0.006	<0.006	mg/l and
Date	9/20/1991 <0.001	11/3/1992	12/2/1992	1/12/1994	5/17/1995	11/14/1995	1/17/1996	4/24/1996	1/22/1997	8/15/1997	1/22/1998	7/20/1998	2/9/1999	8/25/1999	2/22/2000 0.006	8/18/2000 0.011	2/7/2001 <0.005	8/2/2001 <0.001	3/11/2002 <0.001	9/25/2002	3/10/2003	9/17/2003	3/16/2004	8/18/2004	3/15/2005 <0.00	9/29/2005 0.008	3/22/2006 <0.00	9/21/2006 0.0017	3/20/2007 <0.001	9/28/2007 <0.001	4/30/2008 < 0.006	9/15/2008 <0.006 <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:

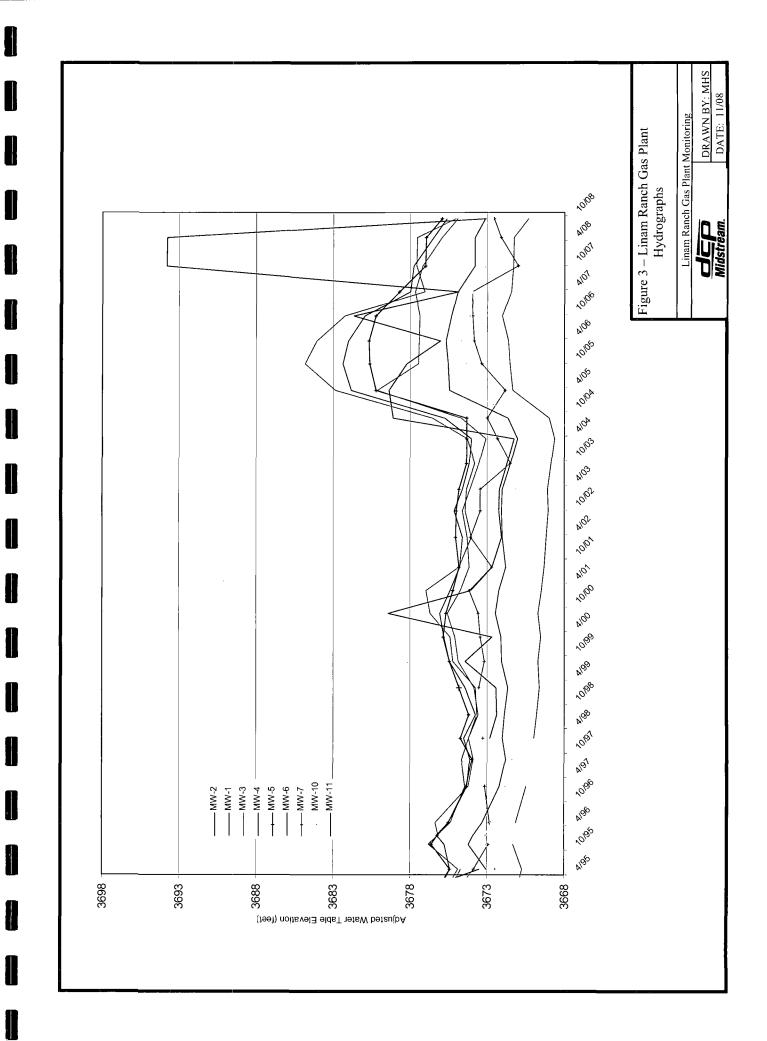
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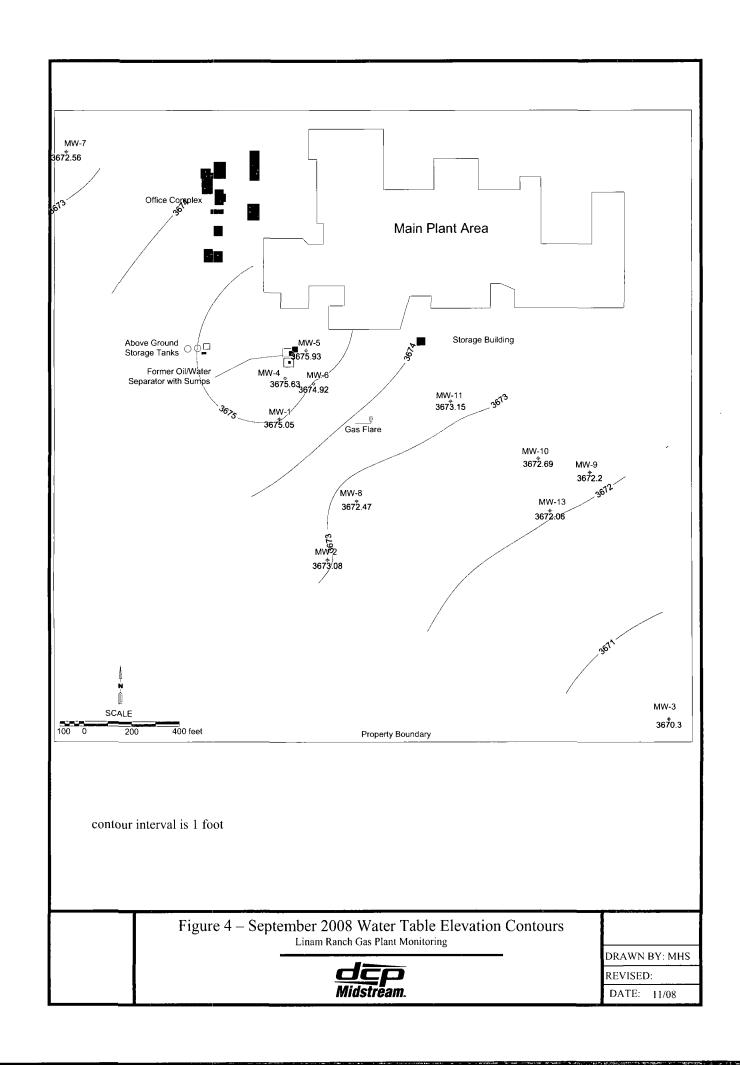
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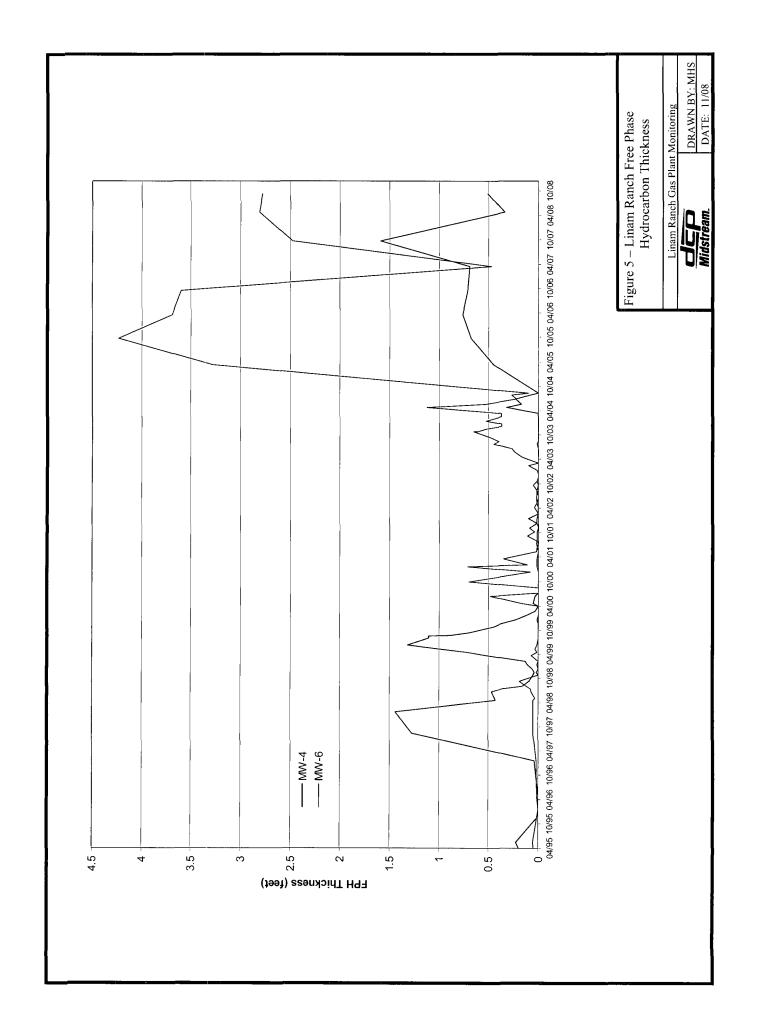
# FIGURES

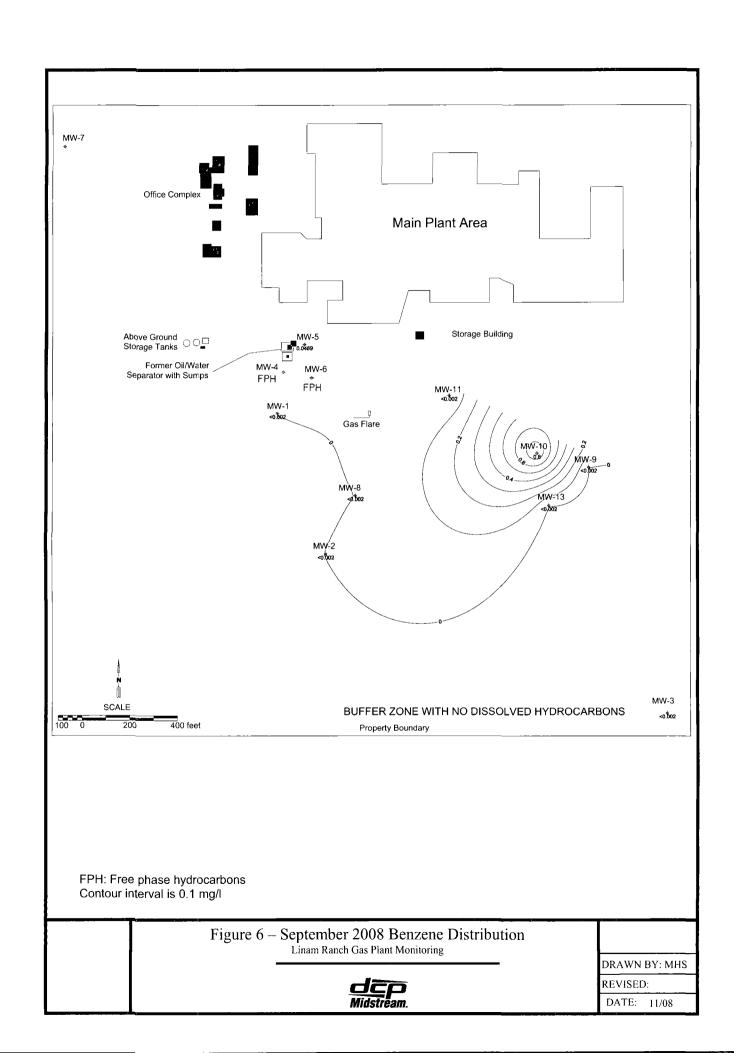


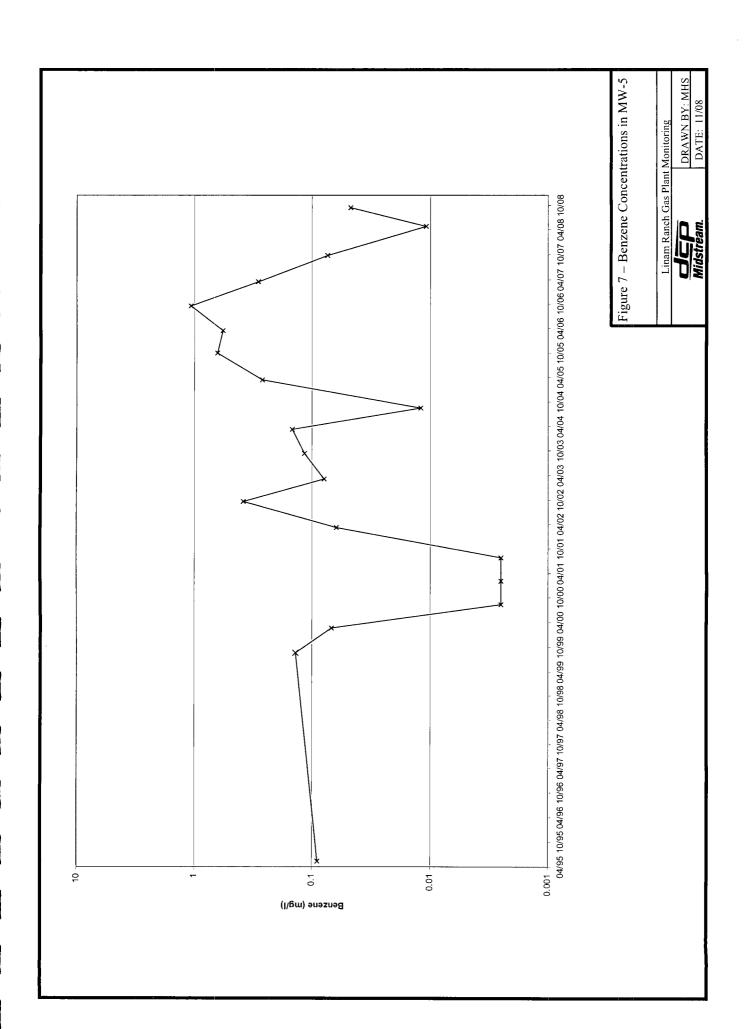


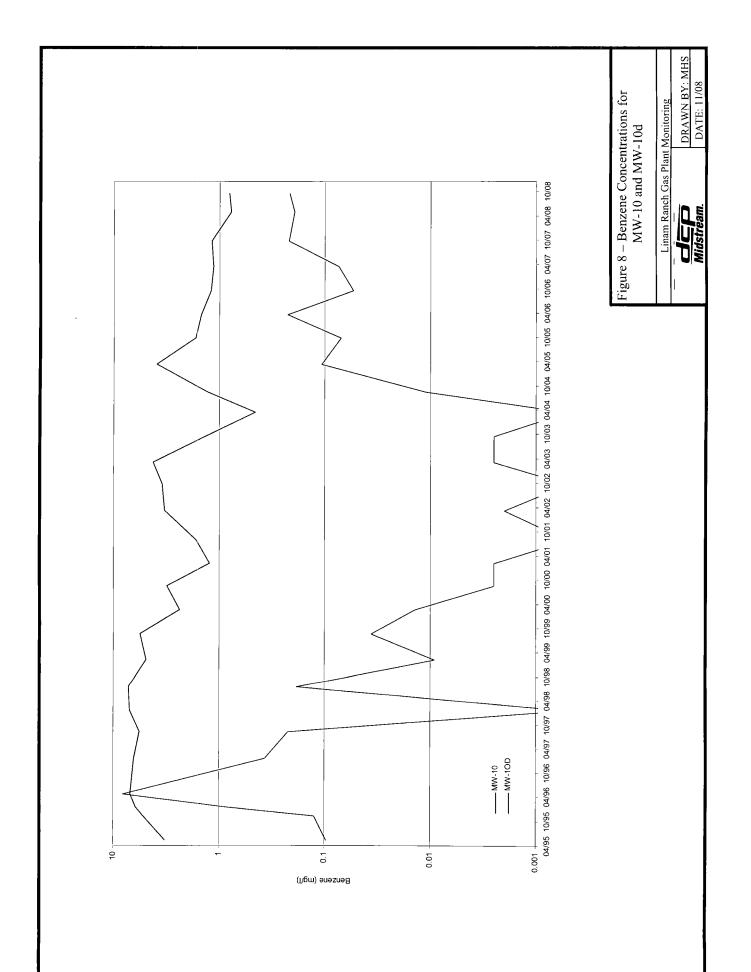












# FIELD SAMPLING DATA AND

# LABORATORY ANALYTICAL REPORT

Arc Environmenta		menta							ASURE	MENT	Ind OB	SERVA	FIELD MEASUREMENT and OBSERVATION LOG	
P. O. Box 1772 ~ Lovington, NM 88260 (575) 631-9310	772 ~ Lovingtor (575) 631-9310	ton, NM 8 10		PROJECT N	NAME: DCP Midstream	idstream		PROJECT LOCATION: DCP Midstream Linam Ranch Gas Plant PROJECT NUMBER: F-114	DCATION: E JMBER: F-	DCP Midstr 114	eam Linan	r Ranch Ga	is Plant	Date Sampled: 9-15-2008
PROJECT MANAGER: Michael H. Stewart, P.E., C.P.G.	Aichael H. St	ewart, P.E.,	c.P.G.			FIELD TEC	FIELD TECHNICIAN:	Rozanne J	Rozanne Johnson - Arc Environmental	c Environ	nental			Notes: Water was disposed of at an approved salt-water disposal.
WELL # /SAMPLE LOCATION TOTAL WELL	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)	Hd	Cond. (mS/cm)	Тіте	SAMPLE CHARACTERISTICS (odor, color, sheen)
Monitor Well #1	54.20		45.13	20.6		0.16	1.5	e.	9	21.1	7.06	1.47	15:05	15:05 Collected MS/MSD Samples
Monitor Well #2	50.50		44.16	6.34		0.16	1.0	m	Ð	21.0	7.31	0.46	15:35	
Monitor Well #3	55.30		47.40	7.90		0.16	1.3	n	9	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	m	15	21.0	6.94	2.25	16:00	Collected Duplicate Sample ~ Black 16:00 Color to Clear Strong Odor
Monitor Well #6	54.10	47.49	50.27	3.83	2.78			e						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	n	50	21.1	7.25	0.42	16:50	
Monitor Well #9	59.10		50.28	8.82		0.16	1.4	'n	9	20.0	6.96	1.21	10:30	
Monitor Well #10	65.00		50.21	14.79		0.65	9.6	, n	35	20.9	7.26	1.66	14:00	14:00 Strong Odor
Monitor Well #10d	78.95		51.23	27.72	-	0.16	4.4	ю	15	20.7	7.19	1.20	13:05	13:05 Strong Odor
Monitor Well #11	62.80		51.38	11.42		0.65	7.4	m	25	19.6	6.82	1.25	9:50	
Monitor Well #13	63.00		51.93	11.07		0.65	7.2	0	25	20.1	6.92	1.36	12:15	



#### 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



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 Canevano

1 of 30

accutest.

Lab

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T23869

Paul Canevaro Laboratory Director

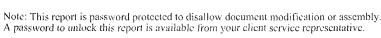


Client Service contact: Agnes Vicknair 713-271-4700

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

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

Gulf Coast • 10165 Harwin Drive • Suite 150 • Houston, TX 77036 • tel: 713-271-4700 • fax: 713-271-4770 • http://www.accutest.com



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# Sample Summary

#### American Environmental Consulting

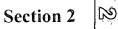
#### Job No: T23869

DCP Midstream- Linham Ranch

Sample Number	Collected Date Tin	me By Rea	ceived	Matri Code		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

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Report of Analysis

Client Samj Lab Sample Matrix: Method: Project:				Date Sampled Date Received Percent Solids	: 09/18/08	
Run #1 Run #2	File ID         DF           F009806.D         1	Analyzed 09/21/08	By · RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml					
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q	
71-43-2 108-88-3	Benzene Toluene	ND ND	0.0020 0.0020	0.00046 mg/l 0.00048 mg/l		
100-41-4 1330-20-7	Ethylbenzene Xylene (total)	ND ND	0.0020	0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	98% 99% 102%		73-126% 61-136% 80-125%		
460-00-4	4-Bromofluorobenzene	102%		65-147%		

ND = Not detectedMDL - 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 Samp Lab Sample Matrix: Method: Project:	ID: T23869 AQ - C SW846	Ground Wate 88260B	er Linham Ranch		Date San Date Rec Percent S	eived:	09/15/08 09/18/08 n/a	
1	File ID F009810.D	DF 1	Analyzed 09/21/08	By RR	Prep Date n/a	2	Prep Batch n/a	Analytical Batch VF3101
	Purge Volume 5.0 ml							
Purgeable A	romatics							
CAS No.	Compound		Result	RL	MDL U	Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)		ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 r 0.00048 r 0.00045 r 0.0014 r	ng/l		
CAS No.	Surrogate Re	coveries	Run# 1	Run# 2	Limits			
1868-53-7 17060-07-0 2037-26-5	Dibromofluor 1,2-Dichloroe Toluene-D8		102% 103% 102%		73-126 61-136 80-125	%		

2037-26-5 Toluene-D8 102% 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 Date Received: 09/18/08 AQ - Ground Water Matrix: Method: SW846 8260B Percent Solids: n/a Project: DCP Midstream- Linham Ranch Prep Date Prep Batch Analytical Batch File ID DF Analvzed By Run #1 F009811.D 09/21/08 RR VF3101 1 n/a n/a Run #2 Purge Volume Run #1 5.0 ml Run #2 **Purgeable Aromatics** CAS No. RL MDL Q Compound Result Units 71-43-2 ND 0.0020 0.00046 mg/l Benzene 0.0020 108-88-3 Toluene ND 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%

101%

101%

ND = Not detected MDL - Method Detection Limit **RL** = Reporting Limit

E = Indicates value exceeds calibration range

2037-26-5

460-00-4

Toluene-D8

4-Bromofluorobenzene

J = Indicates an estimated value

80-125%

65-147%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





Lab Sampl Matrix: Method: Project:	AQ - G SW846	round Wate 8260B	er Linham Ranch		Date Sa Date Ro Percent	eceived:	09/18/08	
Run #1 Run #2	File ID F009812.D Y0026870.D	DF 1 2	Analyzed 09/21/08 09/24/08	By RR JL	Prep Da n/a n/a	te	Prep Batch n/a n/a	Analytical Batch VF3101 VY1893
Run #1 Run #2	Purge Volume 5.0 ml 5.0 ml							
Purgeable	Aromatics							
CAS No.	Compound		Result	RL	MDL	Units	Q	
				0.0000	0 00040	. /1		
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)		0.0430 0.00080 0.233 a 0.322	0.0020 0.0020 0.0040 0.0060	0.00046 0.00048 0.00091 0.0014	mg/l	J	
108-88-3 100-41-4	Toluene Ethylbenzene	overies	0.00080 0.233 <sup>a</sup>	0.0020 0.0040	0.00048 0.00091	mg/l mg/l mg/l	J	

**Report of Analysis** 

(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 Samj Lab Sample Matrix: Method: Project:	E ID: T23869-5 AQ - Groun SW846 826			Date Sampled: Date Received: Percent Solids:	: 09/18/08	
Run #1 Run #2	File ID         D           F009813.D         1	F Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml				У С	
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q,	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recover	ries Run#1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromet 1,2-Dichloroethane Toluene-D8 4-Bromofluorobenz	e-D4 100% 102%		73-126% 61-136% 80-125% 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



		Repo	rt of An	alysis		Page 1 of 1
Client Sam Lab Sampl Matrix: Method: Project:				Date Sampled: Date Received Percent Solids:	: 09/18/08	
Run #1 Run #2	File ID         DF           F009814.D         1	Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml					
Purgeable	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8	101% 105% 101%		73-126% 61-136% 80-125%		

102%

ND = Not detected MDL - Method Detection Limit

RL = Reporting Limit

E = Indicates value exceeds calibration range

4-Bromofluorobenzene

460-00-4

J = Indicates an estimated value

65-147%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound





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Report of Analysis

Client Sam Lab Sample Matrix: Method: Project:				Date R	ampled: eceived t Solids	: 09/18/08	
Run #1 Run #2	File ID DF F009819.D 10	Analyzed 09/21/08	By RR	Prep Da n/a	ite	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml						· · ·
Purgeable	Aromatics						
CAS No.	Compound	Result	RL	MDL	Units	<b>Q</b> .	
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	Limi	its		
1868-53-7	Dibromofluoromethane	<b>99</b> %		73-12	26%		
17060-07-0		<b>98</b> %		61-13	36%		
2037-26-5	Toluene-D8	102%		80-12	25%		
460-00-4	4-Bromofluorobenzene	105%		65-14	47%		

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





		Repo	rt of An	alysis		Page 1 of 1
Client Sam Lab Sample Matrix: Method: Project:	e ID: T23869-8 AQ - Ground SW846 8260E			Date Sampled Date Received Percent Solids	: 09/18/08	
Run #1 Run #2	File ID         DF           F009815.D         1           F009841.D         2	Analyzed 09/21/08 09/22/08	By RR JL	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch VF3101 VF3102
Run #1 Run #2	Purge Volume 5.0 ml 5.0 ml					
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	0.216 <sup>a</sup> 0.0883 0.0235 0.0347	0.0040 0.0020 0.0020 0.0060	0.00092 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recoverie	s Run#1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluorometha 1,2-Dichloroethane-E Toluene-D8 4-Bromofluorobenzer	04 101% 101%	102% 105% 101% 102%	73-126% 61-136% 80-125% 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 Samj Lab Sample Matrix: Method: Project:				Date Sampled: Date Received Percent Solids	: 09/18/08	
Run #1 Run #2	File ID         DF           F009816.D         1	Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml					
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (totał)	ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 17060-07-0	Dibromofluoromethane 1,2-Dichloroethane-D4	101% 102%	J	73-126% 61-136%		

.102%

103%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit

E = Indicates value exceeds calibration range

2037-26-5

460-00-4

Toluene-D8

4-Bromofluorobenzene

J = Indicates an estimated value

80-125%

65-147%

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



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Report of Analysis

Client Sam Lab Sampl Matrix: Method: Project:	e ID: T23869-10 AQ - Ground V SW846 8260B			Date Sampled Date Received Percent Solids	: 09/18/08	
Run #1 Run #2	File ID         DF           F009817.D         1	Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
Run #1 Run #2	Purge Volume 5.0 ml					
Purgeable	Aromatics					
CAS No.	Compound	Result	RL	MDL Units	Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	ND ND ND ND	0.0020 0.0020 0.0020 0.0060	0.00046 mg/l 0.00048 mg/l 0.00045 mg/l 0.0014 mg/l		
CAS No.	Surrogate Recoveries	s Run#1	Run# 2	Limits		
1868-53-7	Dibromofluoromethan	ie 103%		73-126%		

103%

101%

102%

17060-07-0

2037-26-5

460-00-4

ND = Not detected	MDL - Method Detection Limit
RL = Reporting Limit	

E = Indicates value exceeds calibration range

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

61-136%

80-125%

65-147%

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





		Report	of Ana	alysis		Page 1 of 1
Client Sam Lab Sample Matrix: Method: Project:				Date Sample Date Receive Percent Solie	ed: 09/18/08	
Run #1 Run #2	File ID         DF           F009818.D         1           F009842.D         2	09/21/08	By RR	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch VF3101 VF3102
Run #1 Run #2	Purge Volume 5.0 ml 5.0 ml					
Purgeable A	Aromatics					
CAS No.	Compound	Result	RL	MDL Unit	s Q	
71-43-2 108-88-3 100-41-4 1330-20-7	Benzene Toluene Ethylbenzene Xylene (total)	0.0508 0.00075 0.242 <sup>a</sup> 0.358	0.0020 0.0020 0.0040 0.0060	0.00046 mg/l 0.00048 mg/l 0.00091 mg/l 0.0014 mg/l	J	
CAS No.	Surrogate Recoveries	Run# 1	Run# 2	Limits		
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	100% 102% 101% 103%	100% 105% 100% 104%	73-126% 61-136% 80-125% 65-147%		

(a) Result is from Run# 2

ND = Not detected MDL - Method Detection Limit

J = Indicates an estimated value

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



2.11 2

RL = Reporting Limit E = Indicates value exceeds calibration range



Misc. Forms

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Custody Documents and Other Forms

Includes the following where applicable:

• Chain of Custody





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2	MW-10	CI-15	14:00	120	GW	3	x	ΗF		x			1					1		1		
ģ	MW-10d	10-16	13:05	20	GW	3	x	H	+	x	-		<u> </u>		-			1		1	1	
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T23869: Chain of Custody Page 1 of 4



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DCP Mids	Client Information				35 Route	:130, E									Accutes	Job#:	T>:	3869	P			01			
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ame 370 Sever	stream	·*			lity infor		I		<u>.</u>	Ė		-	Anal	tical inf	i ormation T			1	·						
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Denver	nteenth Street, St	uite 2500	Location		lnam Ra	anch				1		1								an					
Chry	CO State	80202 Zlp	Project/PO #		bs, New	Mexic	0					1								MS/MSD BTEX 8260B					
Stephen We Send Report to:					Li	nam Ra	anch													ñ					
	03.605.1718		FAX #:	<u> </u>						8260B										DBT					
		2008	Collection	Sempled	-	# of	1Pre	eserva	tion	BTEX 8										SWS					
	oint of Collection	Date	Time	BY	Metrix	bottles	ġ	<u> </u>	E P								<u> </u>			<u>×</u>					
MW-11		9-15	9:50	Kor.	GW	3	×		+	×			+	- 0-	hPL	e0									
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T23869: Chain of Custody Page 2 of 4



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ccutest Job Number:       T23769       Client: <i>AEC</i> ate/Time Received:       09 //6/08       # of Coolers Received:         boler Temps:       #1:       2. 6       #2:       #3:       #4:       #5:         ethod of Delivery:       FEDEX       UPS       Accutest Courier       Greyhound         rbill Numbers:       2.46.4       2.313       COOLER INFORMATION       SAMPLE INFORMATION         Custody seal missing or not intact       Temperature criteria not met       Sample containers received broken       VOC vials have headspace         Wet ice received in cooler       Sample labels missing or illegible       ID on COC does not match label(s)       D/T on COC does not match label(s)	#6: #7: #8: Delivery Other TRIP BLANK INFORMATION Trip Blank on COC but not received Trip Blank roc COC but not received Trip Blank roc intact Received Water Trip Blank	
cooler Temps: #1:	#6: #7: #8: Delivery Other TRIP BLANK INFORMATION Trip Blank on COC but not received Trip Blank roc COC but not received Trip Blank roc intact Received Water Trip Blank	
ethod of Delivery: FEDEX UPS Accutest Courier Greyhound rbill Numbers: UPS Accutest Courier Greyhound rbill Numbers: UPS Accutest Courier Greyhound Could 3 2 464 2 313 COOLER INFORMATION SAMPLE INFORMATION Custody seal missing or not intact Temperature criteria not met Wet ice received in cooler Sample labels missing or illegible iD on COC does not match label(s)	Delivery Other TRIP BLANK INFORMATION Trip Blank on COC but not received Trip Blank roc intact Received Water Trip Blank	
rbill Numbers: U263 2464 2313  COOLER INFORMATION Custody seal missing or not intact Temperature criteria not met Wet ice received in cooler Wet ice received in cooler Custody seal missing or not intact Temperature criteria not met Custody seal missing or not intact Custody seal missing seal missing seal missing seal missing or n	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	
COOLER INFORMATION     SAMPLE INFORMATION       Custody seal missing or not intact     Sample containers received broken       Temperature criteria not met     VOC vials have headspace       Wet ice received in cooler     Sample labels missing or illegible       ID on COC does not match label(s)	Trip Blank on COC but not received Trip Blank received but not on COC Trip Blank not intact Received Water Trip Blank	
Custody seal missing or not intact Temperature criteria not met Wet ice received in cooler Bampie labels missing or illegible iD on COC does not match label(s)	Trip Blank on COC but not received Trip Blank received but not on COC Trip Blank not intact Received Water Trip Blank	
Temperature criteria not met VOC vials have headspace Wet ice received in cooler Sample labels missing or illegible ID on COC does not match label(s)	Trip Blank received but not on COC Trip Blank not intact Received Water Trip Blank	
Wet ice received in cooler Sample labels missing or illegible iD on COC does not match label(s)	Trip Blank not intact Received Water Trip Blank	
ID on COC does not match label(s)	Received Water Trip Blank	
	hanned i	
D/ on coc does not match label(s)	Received Soil 773	
Chain of Custody not received Sample/Bottles revelout no analysis on COC		
Sample D/T unclear or missing Sample listed on COC, but not received	·	
Analyses unclear or missing Bottles missing for requested analysis	Number of Encores?	
COC not properly executed Insufficient volume for analysis	Number of 5035 kits?	
Sample received improperly preserved	Number of lab-filtered metals?	
ECHNICIAN SIGNATURE/DATE	09/18/08	
FORMATION AND SAMPLE LABELING VERIFIED BY: SWUM Huil	9.18.08	•
• • • • • • • • • • • • CORRECTIVE ACTI	ONS · · · · · · · · ·	
ent Representative Notified:	Date:	
Accutest Representative:	Via: Phone Email	
ent Instructions:		
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T23869: Chain of Custody Page 3 of 4



			SAMPLE R	ECEIPT	LOG					
JOB #:	.+	23869		DATE/TIME	RECEIVED:	09/1	8/08	0720		
CLIENT:	A	23869 EC			INITIALS:		2 <u>B</u>			
	SAMPLE ID	FIELD ID	DATE	MATRIX	VOL	BOTTLE #	LOCATION	PRESERV	P	н
1	/	MW-1	09/15 1505	W	YONL	/-3	VK	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<2	>12
	7	MW-1 MS/MSD	4			4-9		1 (2) 3 4 5 6 7 8	<2	>12
	2	MW-2	09/ 15 1535			1-3		1 (2) 3 4 5 8 7 8	<2	>12
	3	MW-3	09/15 11/5			1		1 (27 3 4 5 6 7 8	<2	>12
	4	MW-S	09/15- 1600					1 6 3 4 5 6 7 8	<2	>12
	5	MW-8	09/15 1650					$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	<2	>12
	4	MW-9	09/15 1030					$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<2	>12
	7	MW-10	09/15- 1400	<u> </u>				5 6 7 B 1 <b>Q</b> 3 4	<2	>12
	8	MW-10D	09/15 1305		<b>_</b>			5 <u>6</u> 7 <u>8</u> 1 <u>(2)</u> 3 4	<2	>12
	9	MW-II	09/15 0950					<u>5678</u> 1(2)34	<2	>12
	10	Mw-13	09/15 1215					5 <u>6</u> 7 <u>8</u> 1 (2) 3 4	<2	>12
<b> </b>	1	DUP	09115					5 6 7 8 1 (2) 3 4	<2	>12
	12	TRIP BLANK	09/10 1605	ł	<i>•</i>	1,2	<b>*</b>	<u>5 6 7 8</u> 1 2 3 4	<2	>12
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		9.18.08						5 6 7 8 1 2 3 4	<2	>12
		04,10.						5 6 7 8 1 2 3 4	<2	>12
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								$\begin{array}{cccccccccccccccccccccccccccccccccccc$	<2	>12
PRESERVA	TIVES: 1: Non	e 2: HCL 3: HNO3 4: H2SO4 5: NA	AOH 6: DI 7: MeOH 8:	1 Other	F	.1	I		1	
	: 1: Walk-In #1 13/01 ewp	(Waters) 2: Walk-In #2 (Soils) VR: Vol	atile Fridge M: Metals SU	B: Subcontract	EF: Encore F	reezer			<u> </u>	

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T23869: Chain of Custody Page 4 of 4 3. .

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## Section 4

## **GC/MS Volatiles**

QC Data Summaries

### Includes the following where applicable:

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



21 of 30

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T23869

## Method Blank Summary

Job Number: Account: Project:	T23869 AECCOLI A DCP Midstr		n Environmental nham Ranch	Consulting	3		
Sample VF3101-MB	File ID F009803.D	DF 1	Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101
The QC report	ted here appl	ies to the	e following sam	ples:		Method: SW	/846 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
71-43-2 100-41-4 108-88-3 1330-20-7	Benzene Ethylbenzene Toluene Xylene (total)	ND ND ND ND	2.0 2.0 2.0 6.0	0.46 0.45 0.48 1.4	ug/l ug/l ug/l ug/l
CAS No.	Surrogate Recoveries		Limi	ts	
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	101% 104% 100% 102%	73-12 61-13 80-12 65-14	86% 25%	



Page 1 of 1

4.1

# Method Blank Summary Job Number: T23869

Job Number: Account: Project:	: 123869 AECCOLI America DCP Midstream- Li		Consultir	ıg			
Sample VF3102-MB	File ID DF F009827.D 1	Analyzed 09/22/08	By JL	Prep i n/a	Date	Prep Batch n/a	Analytical Batch VF3102
The QC repo T23869-8, T2	orted here applies to th 23869-11	e following sam	ples:			Method: SW	/846 8260B
CAS No. (	Compound	Result	RL	MDL	Units	Q	
	Benzene Ethylbenzene	ND ND	2.0 2.0	0.46 0.45	ug/l ug/l		
CAS No.	Surrogate Recoveries		Limi	ts			
17060-07-0 1 2037-26-5	Dibromofluoromethane I,2-Dichloroethane-D4 Foluene-D8 4-Bromofluorobenzene	101% 105% 100% 101%	73-12 61-12 80-12 65-14	36% 25%			

Page 1 of 1

4.1 Q



## Method Blank Summary

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Job Number: Account: Project:	T23869 AECCOLI A DCP Midstre			Consulting	•			
Sample VY1893-MB	File ID Y0026858.D		Analyzed 9/24/08	By JL	Prep I n/a	Date	Prep Batch n/a	Analytical Batch VY1893
	ted here applie	es to the follo	owing samp	les:			Method: SV	V846 8260B
Г23869-4								
CAS No. Co	mpound		Result	RL	MDL	Units	Q	
100-41-4 Etl	hylbenzene		ND	2.0	0.45	ug/l		
CAS No. Su	rrogate Recov	veries		Limits				
1868-53-7 Di	bromofluorome	ethane	99%	73-126	%			
17060-07-0 1,2	2-Dichloroethar	ne-D4	<b>99</b> %	61-136	%			
2037-26-5 To	luene-D8 Bromofluorobe		95%	80-125	%			
					%			

# Blank Spike Summary Job Number: T23869

Account: Project:	AECCOLI A DCP Midstr		n Environmental nham Ranch	Consultin	ng			
Sample VF3101-BS	File ID F009800.D	DF 1	Analyzed 09/21/08	By RR	Prep Date n/a	Prep Batch n/a	Analytical Batch VF3101	
The QC repo	rted here appl	ies to the	e following sam	ples:		Method: SW	/846 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	Liı	nits	
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%	



4.2

## Blank Spike/Blank Spike Duplicate Summary

Job Number Account: Project:	: T23869 AECCOLI American DCP Midstream- Lin		al Consul	lting				
Sample VF3102-BS VF3102-BSD	File ID         DF           F009824.D         1           D         F009825.D         1	Analyzed 09/22/08 09/22/08	By JL JL	P1 n/ n/	-	Date Prep Batch n/a n/a		Analytical Batch VF3102 VF3102
The QC report T23869-8, T	orted here applies to the 23869-11	e following sar	nples:			Met	hod: SV	V846 8260B
CAS No.	Compound	Spike ug/l	BSP ug/l	BSP %	BSD ug/l	BSD %	RPD	Limits Rec/RPD
	Benzene Ethylbenzene	25 25	24.2 22.5	97 90	23.8 22.1	95 88	2 2	41-145/30 49-135/30
CAS No.	Surrogate Recoveries	BSP	BS	SD	Limits			
1868-53-7Dibromofluoromethane17060-07-01,2-Dichloroethane-D42037-26-5Toluene-D8460-00-44-Bromofluorobenzene		98% 102% 100% 100%	102%1049100%1009		4% 61-1369 0% 80-1259			

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# Blank Spike Summary

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Job Number: Account: Project:	T23869 AECCOLI American DCP Midstream- Lini		l Consul	lting				
Sample VY1893-BS	File ID DF Y0026856.D 1	Analyzed 09/24/08	By JL	P: n/	rep Date 'a	Prep Batch n/a	Analytical Batch VY1893	+ + 2
The QC repo T23869-4	rted here applies to the	following san	ples:			Method: SW	7846 8260B	_]
CAS No. C	Compound	Spike ug/1	BSP ug/l	BSP %	Limits			
100-41-4 E	Ethylbenzene	25	20.0	80	49-135			
CAS No. S	urrogate Recoveries	BSP	Li	mits				
17060-07-0 1 2037-26-5 T	Dibromofluoromethane ,2-Dichloroethane-D4 Toluene-D8 -Bromofluorobenzene	90% 86% 87% 88%	. 61 80	-126% -136% -125% -147%				

Page 1 of 1

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## Matrix Spike/Matrix Spike Duplicate Summary

Job Number: Account: Project:	T23869 AECCOLI American Environmental Consulting 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				
Т23869-1	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	T2	3869-1	Limits			
1868-53-7	Dibromofluoromethane	93%	97%	989	%	73-1269	%		
17060-07-0	1,2-Dichloroethane-D4	104%	105%	<b>99</b> 9	%	61-136	%		
2037-26-5	Toluene-D8	101%	101%	102	2%	80-1259	%		
460-00-4	4-Bromofluorobenzene	100%	100%	102	2%	65-1479	%		



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# Matrix Spike/Matrix Spike Duplicate Summary Job Number: T23869

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

Sample T23839-7MS T23839-7MSD		DF 1 1	Analyzed 09/22/08 09/22/08	By JL JL	Prep Date n/a n/a	Prep Batch n/a n/a	Analytical Batch VF3102 VF3102 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
71-43-2 100-41-4	Benzene Ethylbenzene	ND ND	25 25	30.6 24.3	122 97	31.3 24.6	125 98	2 1	60-131/12 58-127/13
CAS No.	Surrogate Recoveries	MS	MSD	T23	3839-7	Limits			
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane ) 1,2-Dichloroethane-D4 Tołuene-D8 4-Bromofluorobenzene	106% 112% 100% 100%	97% 108% 101% 99%	105 110 999 102	)% %	73-1269 61-1369 80-1259 65-1479	% %		





### Matrix Spike/Matrix Spike Duplicate Summary Job Number: T23869

1

Job Numbe Account: Project:	r: T23869 AECCOLI American El DCP Midstream- Linha		consulting							
Sample T23908-1M3 T23908-1M3 T23908-1		Analyzed 09/24/08 09/24/08 09/24/08	By JL JL JL	Prep D n/a n/a n/a	ate	Prep Batch n/a n/a n/a	VY VY	alytical /1893 /1893 /1893 /1893	Batch	
The QC rep T23869-4	ported here applies to the fo	llowing sampl	es:			Method:	SW846	8260B		
CAS No.	Compound	T23908-1 ug/1 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	T2:	3908-1	Limits				
1868-53-7 17060-07-0 2037-26-5 460-00-4	Dibromofluoromethane 1,2-Dichloroethane-D4 Toluene-D8 4-Bromofluorobenzene	113% 112% 107% 100%	106% 104% 100% 94%	104 106 103	6% 8%	73-126% 61-136% 80-125% 65-147%	, , , ,			



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# RECEIVED

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

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 <u>swweathers@dcpmidstream.com</u>.

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

May 23, 2008

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and Surai

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** 

Rep Children and C

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<sub>corr</sub> = 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).

6885 South Marshall St., Suite 3, Littleton, CO 80128 phone 303-948-7733 fax 303-948-7739

Mr. Stephen Weathers May 23, 2008 Page 2

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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 watertable 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. Mr. Stephen Weathers May 23, 2008 Page 3

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).

Mr. Stephen Weathers May 23, 2008 Page 4

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.

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Sincerely, AMERICAN ENVIRONMENTAL CONSULTING, LLC

Mechael H. Stewart

Michael H. Stewart, PE Principal Engineer

MHS/tbm

attachment

TABLES

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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 beca	use of safety	concerns
MW-13	3721.63	63.00	4

Table 1 – Linam Ranch Gas Plant Well Construction Summary

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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	Ina	ccessible be	cause of safety co	oncerns
MW-13	51.49			3672.50

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

All units are feet

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Table 3

Well	12/1/92	5/22/94	12/1/92 5/22/94 5/17/95 11/14/	11/14/95	1/17/96	4/24/96	1/22/97	8/15/97	95 1/17/96 4/24/96 1/22/97 8/15/97 1/22/98 7/20/98	7/20/98	2/9/99	2/9/99 8/24/99 2/21/00 8/17/00	2/21/00	8/17/00	2/6/01
MW-1		3676.28	3676.28 3674.68		3676.23	3675.37	3674.45	3674.63	3676.23 3675.37 3674.45 3674.63 3674.19 3673.67 3673.76 3675.21 3675.41 3676.71 3676.99	3673.67	3673.76	3675.21	3675.41	3676.71	3676.99
MW-2		3682.29	3682.29 3673.49				3673.19		3672.80	3672.37	3672.41	3672.80 3672.37 3672.41 3674.43 3672.68 3679.43 3674.05	3672.68	3679.43	3674.05
MW-3		3671.47	3671.47 3670.72	3671.30		3671.13 3670.47	3670.47		3669.96	3669.80	3669.59	3669.96 3669.80 3669.59 3669.68 3669.51 3669.68 3669.48	3669.51	3669.68	3669.48
MW-4	3677.10	3676.96	3675.43	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	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	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	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	3676.87 3676.70 3674.87 3676.80 3676.18 3676.37 3674.21 3673.91 3674.21 3673.59 3673.59 3673.84 3674.86 3675.11 3675.61 3674.75	3676.18	3676.37	3674.21	3673.91	3674.21	3673.59	3673.84	3674.86	3675.11	3675.61	3674.75
8-WM		3674.83	3674.83 3672.73		3674.47	3673.36	3672.78	3672.04	3674.47 3673.36 3672.78 3672.04 3671.87 3671.61 3671.48 3672.56 3671.93 3674.66 3672.60	3671.61	3671.48	3672.56	3671.93	3674.66	3672.60
6-WW		3672.89	3672.89 3671.88 3672.	3672.46	3672.64	3672.40	3671.52	3671.14	46         3672.64         3671.52         3671.14         3671.00         3670.90         3670.67         3670.89         3670.78         3670.92         3670.86	3670.90	3670.67	3670.89	3670.78	3670.92	3670.86
MW-10			3672.45 3673.	3673.05	3673.08	3672.75	3671.78	3671.41	05 3673.08 3672.75 3671.78 3671.41 3671.33 3671.22 3671.02 3671.39 3671.24 3671.53 3671.36	3671.22	3671.02	3671.39	3671.24	3671.53	3671.36
MW-10D			3672.16	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	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	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	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	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	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.	3672.57	3672.66	3672.34	3671.43	3671.05	<u>57</u> 3672.66 3672.34 3671.43 3671.05 3670.93 3670.80 3670.60 3670.94 3670.74 3671.04 3670.88	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	9/17/03 3/16/04 8/17/04	8/17/04	3/15/05	9/29/05	3/22/06	9/21/06	9/29/05 3/22/06 9/21/06 3/20/07 9/28/07	9/28/07	4/30/08
											i.			
MW-1	3674.81	3674.81 3674.04 3674.	3674.43	(43)         3674.32         3674.30         3676.59         3682.86         3684.83         3684.08         3682.25         3677.05         3677.62         3677.57	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	3672.69 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	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	3669.31 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	3668.87	3668.63	3669.00	3671.37	3671.52	3671.63	3672.00	3671.45	3671.31	3671.26
MW-4	3674.80	3674.80 3674.59 3675.	3675.13	13 3674.60 3674.16 3674.04 3675.77 3681.85 3682.38 3682.04 3680.94 3677.98 3677.77 3676.48	3674.16	3674.04	3675.77	3681.85	3682.38	3682.04	3680.94	3677.98	3677.77	3676.48
MW-5	3674.82	3674.82 3675.07 3674.	3674.99	<u>99</u> 3674.81 3674.32 3674.32 3674.32 3680.24 3680.65 3680.66 3680.23 3678.70 3677.03 3676.98	3674.32	3674.32	3674.32	3680.24	3680.65	3680.66	3680.23	3678.70	3677.03	3676.98
9-MM	3674.15	3674.30	3674.61	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	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	3671.26 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	3670.71	3670.67	3673.30	3676.74	3677.01	3675.71	3677.09	3674.32	3681.16	3672.09
6-WM	3670.62	3670.61	3670.61	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	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	3671.06 3671.10 3671.13 3671.17 3670.87 3670.87 3670.84 3674.42 3674.35 3674.69 3674.13 3673.99 3673.14 3674.08	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 3674.05 3674.92 3672.70 3672.59	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	3671.79 3672.02 3672.	3672.05	05 3672.00 3671.49 3671.02 3671.67 3675.45 3675.54 3675.68 3675.30 3674.52 3673.80 3672.58	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	3671.07 3671.01 3671.09 3671.15 3670.81 3670.36 3671.10 3674.97 3674.46 3674.64 3674.52	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	3670.58 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	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	npled due to	o safety cor	ıcems											I

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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 du	e to safety conc	erns
MW-13	< 0.002	< 0.002	< 0.002	< 0.006
Trip Blank	< 0.002	< 0.002	< 0.002	< 0.006

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

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

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MSD: matrix spike duplicate

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

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

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

NS: Not sampled due to safety concerns.: Blank cells note samples for wells that were either not install or not sampled

<0.002 MW-10 |MW-10D |MW-11 |MW-12 |MW-13 <0.005 <0.005 <0.001 <0.001 <0.001 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 0.001 <0.001 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.005 <0.001 <0.001 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 SZ SZ SZ <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.002 <0.001 0.002<0.001 <0.001 <0.001 <0.001 0.002 <0.001 <0.002 <0.001 0.002 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.005 <0.001 <0.001 0.0143 0.0295 0.008 0.0075 0.0212 0.0144 <0.001 1.170 <0.005 <0.01 0.001 <0.001 0.001 <0.001 <0:001 <0.001 <0.001 0.0061 0.119 0.888 0.110 0.0851 1.140 0.294 0.479 0.802 0.516 0.557 0.164 0.072 0.102 0.290 0.303 0.047 0.119 0.238 0.204 0.222 0.163 0.049 <0.001 1.190 0.7770.251 0.241 MW-1 | MW-2 | MW-3 | MW-4 | MW-5 | MW-6 | MW-7 | MW-8 | MW-9 | <0.002 <0.002 <0.002 < 0.005 | < 0.001 | < 0.005 |< 0.005 < 0.001 < 0.0050.138 0.087 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.005 <0.005 <0.005 <0.005 <0.005 <0.001 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.005 < 0.001 < 0.001 <0.001 < 0.001 < 0.001 <0.005 <0.001 <0.001 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 <0.001 < 0.001 |< 0.001 |< 0.001 |<0.001<0.001<0.001<0.001 <0.001 <0.001 <0.001 <0.001 <0.005 <0.001 <0.001 <0.001 0.520 0.072 0.148 <0.001 < 0.001 0.526 0.588 0.134 0.160 0.096 0.0082 0.058 0.003 0.051 <0.005 0.1975 0.0374 0.006 0.0840.097 0.309 0.267 0.239 0.182 0.262 0.13 0.407 9/17/2003 < 0.001 < 0.001 < 0.001 0.259 0.182 3/16/2004 <0.001 <0.001 <0.001 0.512 0.241 8/18/2004 <0.001 <0.001 <0.001 0.403 0.081 <0.001 <0.001 0.450 <0.2 0.53 0.7 0.5 <0.001 <0.001 <0.005 <0.005 <0.005 4/30/2008 < 0.002 < 0.002 < 0.002 <0.001 <0.001 8/25/1999 | <0.005 |<0.005 |<0.001 3/15/2005 | <0.001 |<0.001 |<0.001 3/22/2006 0.0013 <0.001 <0.001 3/20/2007 | <0.001 |0.0022 |0.0022 <0.005 <0.005 <0.001 <0.001 <0.001 <0.001 <0.001 9/21/2006 | <0.001 |<0.001 |<0.001 9/28/2007 | <0.001 |<0.001 |<0.001 |<0.001|<0.001|<0.001 <0.005 <0.005 <0.001 <0.001 5/17/1995 <0.002 9/20/1991 0.001 9/29/2005 0.011 <0.001 |2/2/1992| < 0.0011/12/1994 0.0021 8/18/2000 1/14/1995 2/22/2000 3/11/2002 9/25/2002 3/10/2003 11/3/1992 1/17/1996 4/24/1996 1/22/1997 8/15/1997 1/22/1998 7/20/1998 2/7/2001 8/2/2001 2/9/1999 Date

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

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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

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MW-13					<0.001	<0.001	<0.001	<0.001	<0.001	0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	
MW-12					<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.005	<0.001	NS	NS	<0.006	
MW-11					<0.001	0.013	0.031	<0.002	0.017	0.007	0.015	0.010	<0.001	<0.001	0.008	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	< 0.001	<0.001	0.0115	<0.001	<0.001	<0.001	<0.001	<0.001	NS	
MW-10D MW-11 MW-12 MW-13					0.008	0.011	0.047	0.076	<0.005	<0.01	<0.001	0.006	<0.005	0.002	<0.005	<0.005	<0.005	<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	0.0146	0.0119	0.0267	0.0205	<0.001	0.0375	<0.006	
MW-10					0.169	0.406	1.050	0.127	8.97	0.453	0.635	0.606	0.372	0.359	0.124	0.038	0.086	<0.02	0.550	0.155	<0.100	0.044	0.023	0.071	1.09	0.353	0.304	0.238	0.279	0.213	0.0221	
0-WM					<0.001	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.005	<0.005	<0.005	<0.005 <0.005 <0.005	<0.001	<0.001	0.002	0.003	<0.005	0.012	0.004	<0.001 0.0049	<0.001	<0.001	<0.001	0.0075	<0.001	0.05	
MW-8	ļ			<0.005	<0.001									<0.001	<0.005	<0.001	<0.005	<0.005 <0.001	<0.001	<0.001	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	
MW-7					<0.001									<0.005	<0.005	<0.005	<0.005	<0.005	<0.001	<0.005	<0.005	< 0.001	<0.001	<0.00	<0.001	<0.001	<0.001	0.0015	<0.001	<0.001	<0.006 <0.006 <0.006	
MW-5 MW-6 MW-7		0.120	0.120	0.210	0.181															0.058	<0.100										<0.006	
MW-5		0.034	0.037	0.490	0.831									0.179	0.09	0.008	<0.005	<0.005	<0.001	0.112	<0.050	< 0.001	0.005	<0.005	0.298	0.327	0.296	0.178	0.0221	<0.001		
MW-4		1.8	1.3	1.3	11.4														0.166	<0.100	0.151	<0.200	<0.200	<0.100							0.0039J	eraced.
MW-3	<0.001				<0.001								<0.001	<0.001	<0.001	<0.005	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	< 0.001	< 0.001	< 0.001	<0.001	<0.001	<0.001	<0.001	<0.001		les are av
MW-2	<0.001				<0.001									<0.005	<0.005	<0.001	<0.005	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.006	licate vali
MW-1	<0.001	0.010	0.006	0.002	<0.002									900'0	900'0	0.011	<0.005	<0.001	_	<0.005	<0.001	<0.001	<0.001	-		0.0081	<0.001	0.0017	<0.001		<0.006	and dup
Date	9/20/1991	11/3/1992	12/2/1992	1/12/1994	5/17/1995	11/14/1995	9661//1/1	4/24/1996	1/22/1997	8/15/1997	1/22/1998	7/20/1998	2/9/1999	8/25/1999	2/22/2000	8/18/2000	2/7/2001	8/2/2001	3/11/2002 <0.001	9/25/2002	3/10/2003	9/17/2003	3/16/2004 <0.00	8/18/2004 <0.001	3/15/2005 <0.001	9/29/2005 0.0081	3/22/2006	9/21/2006 0.0017	3/20/2007 <0.001	9/28/2007 <0.001	4/30/2008 <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

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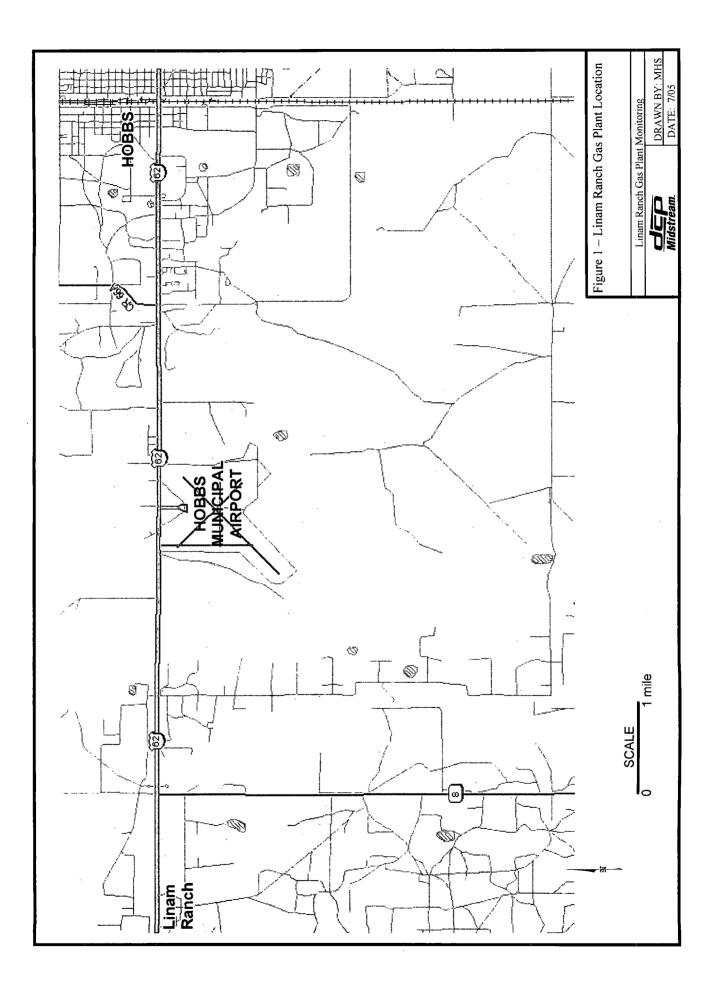
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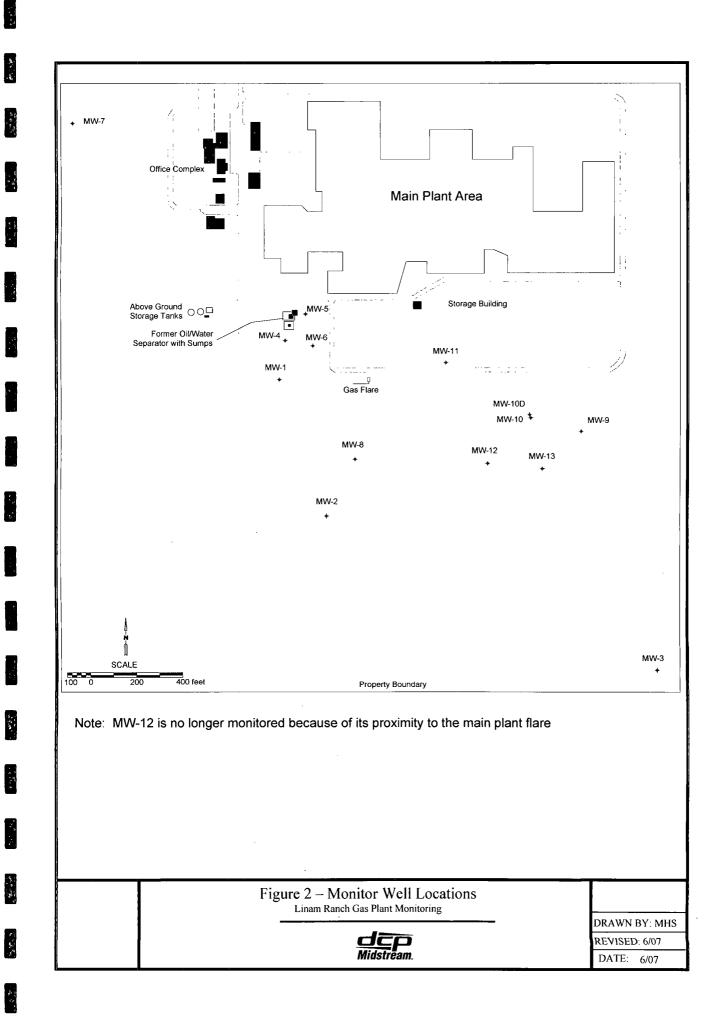
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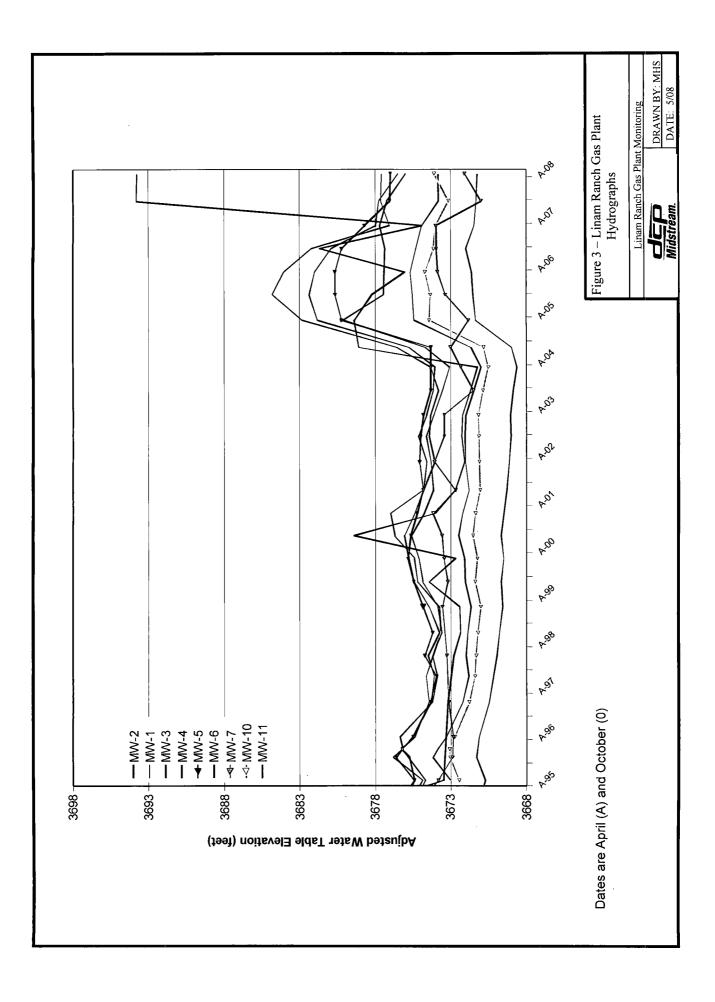
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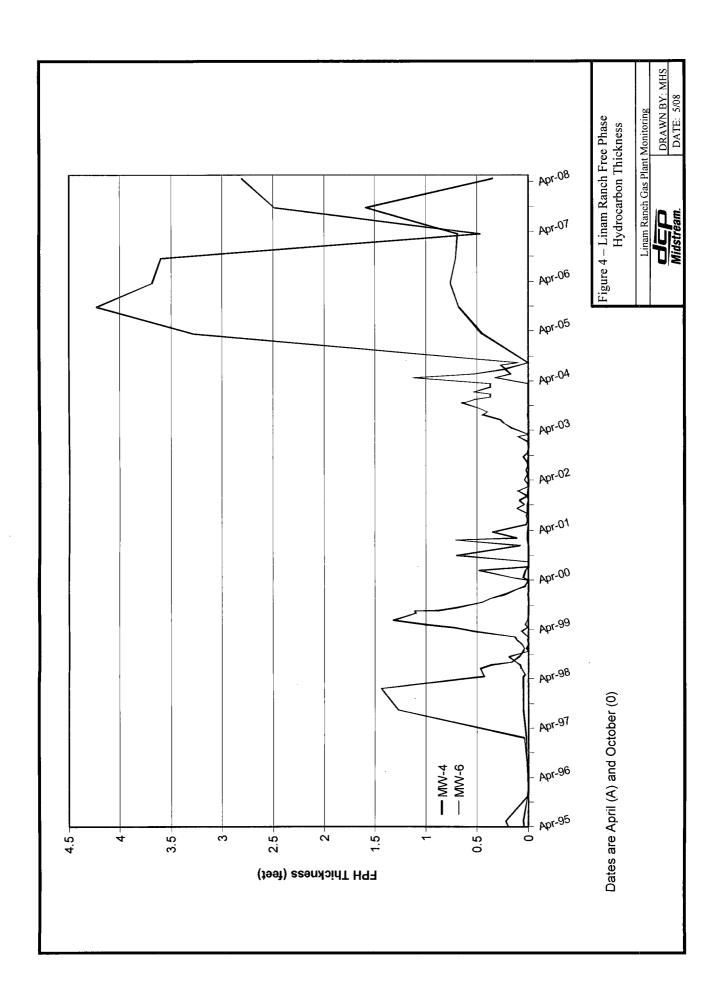


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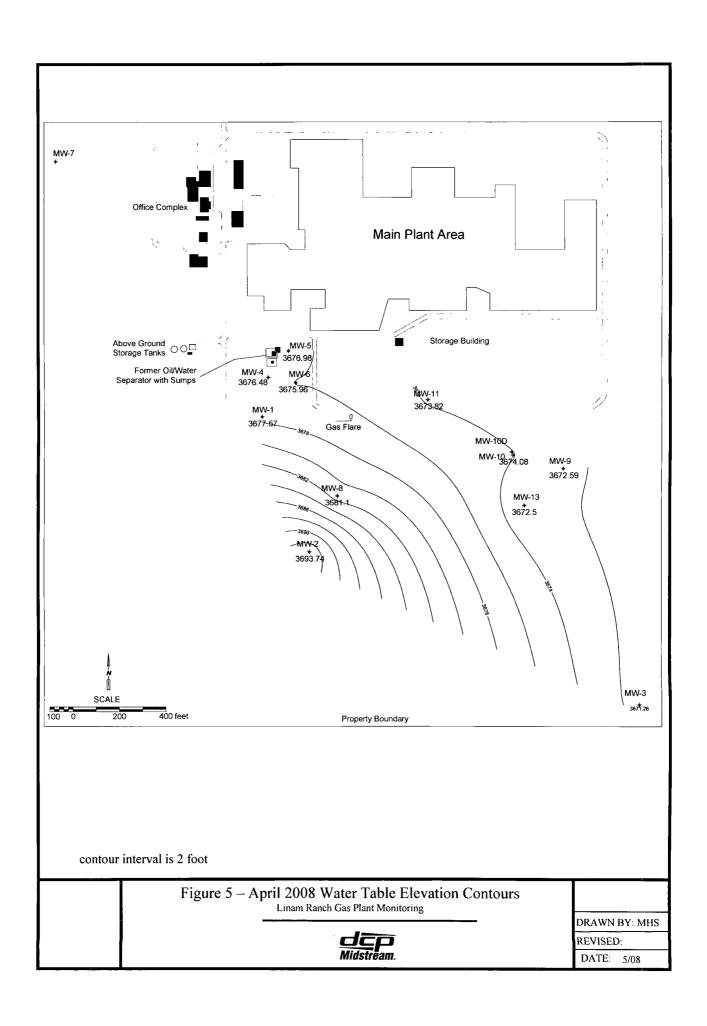
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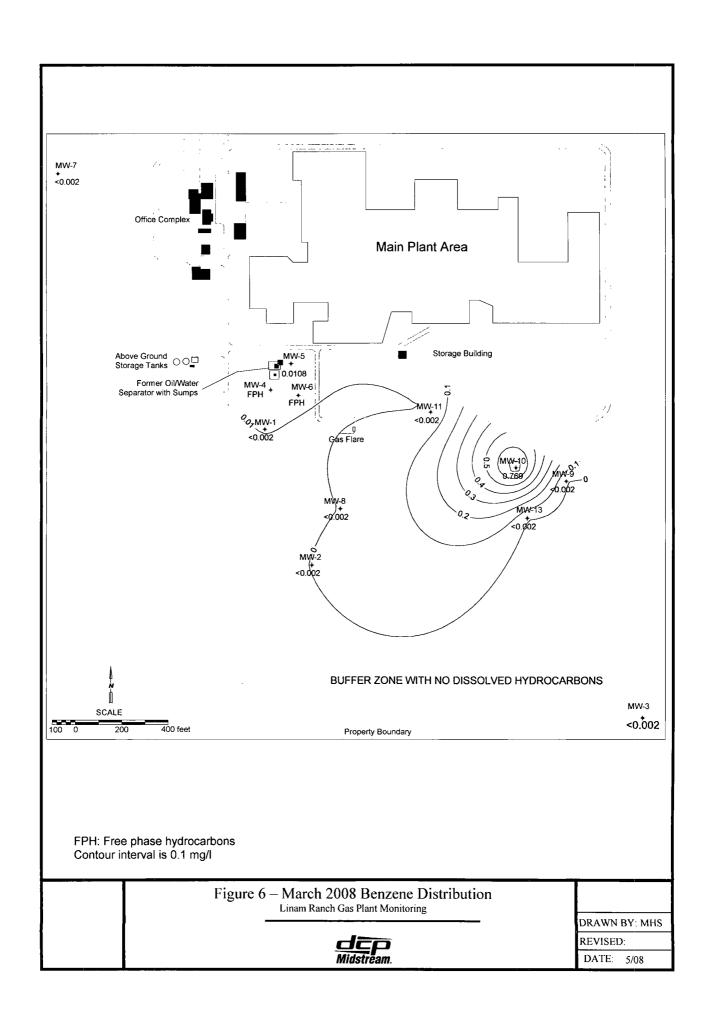
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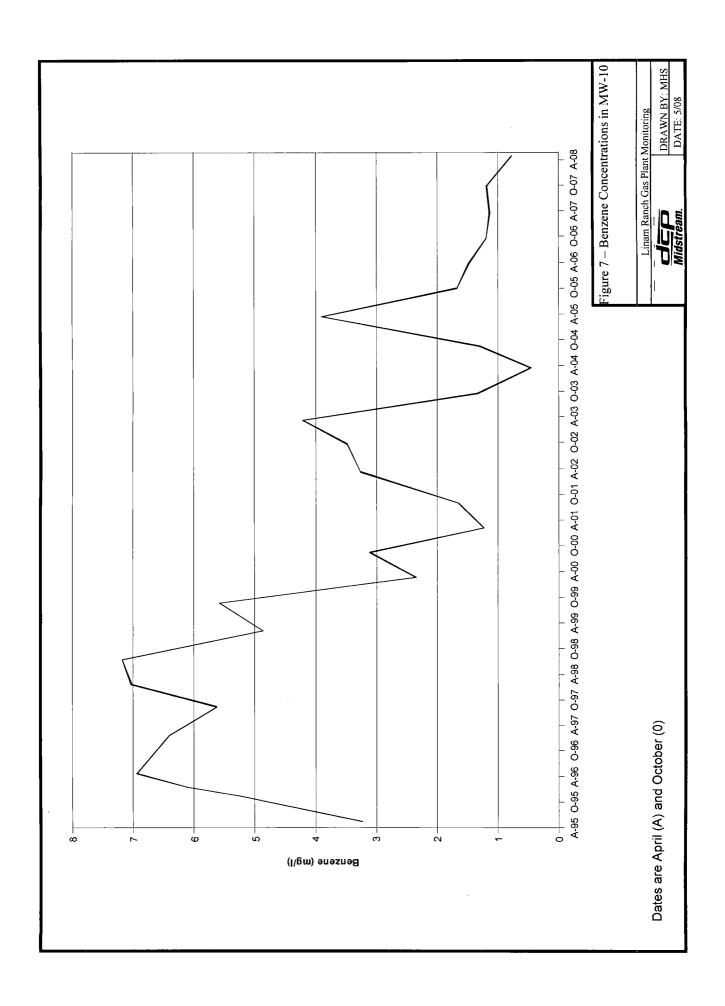
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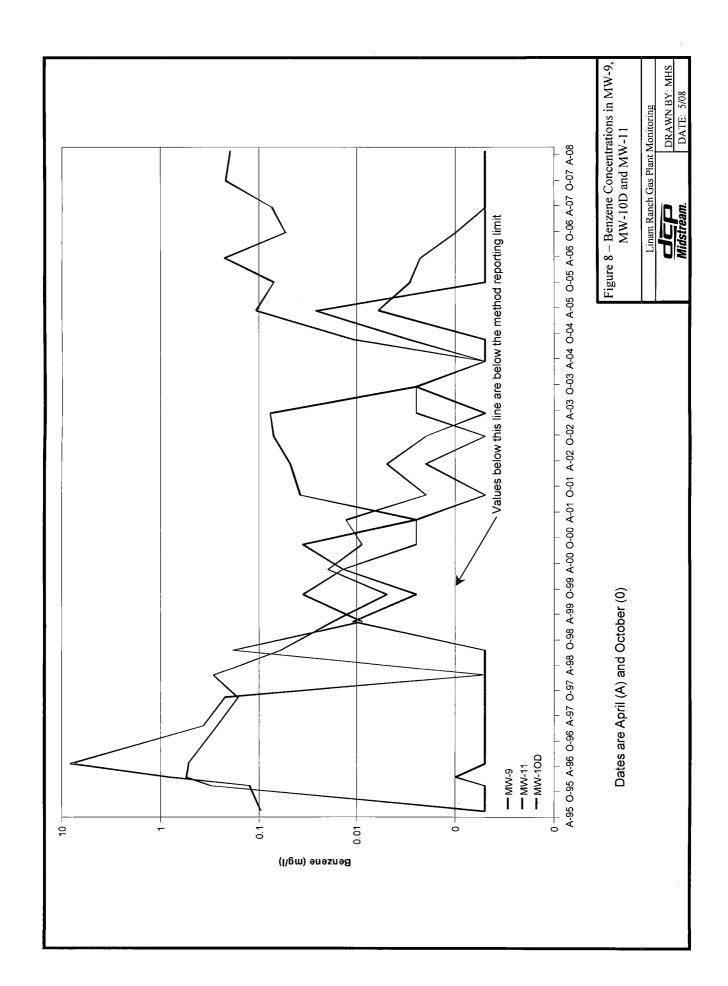
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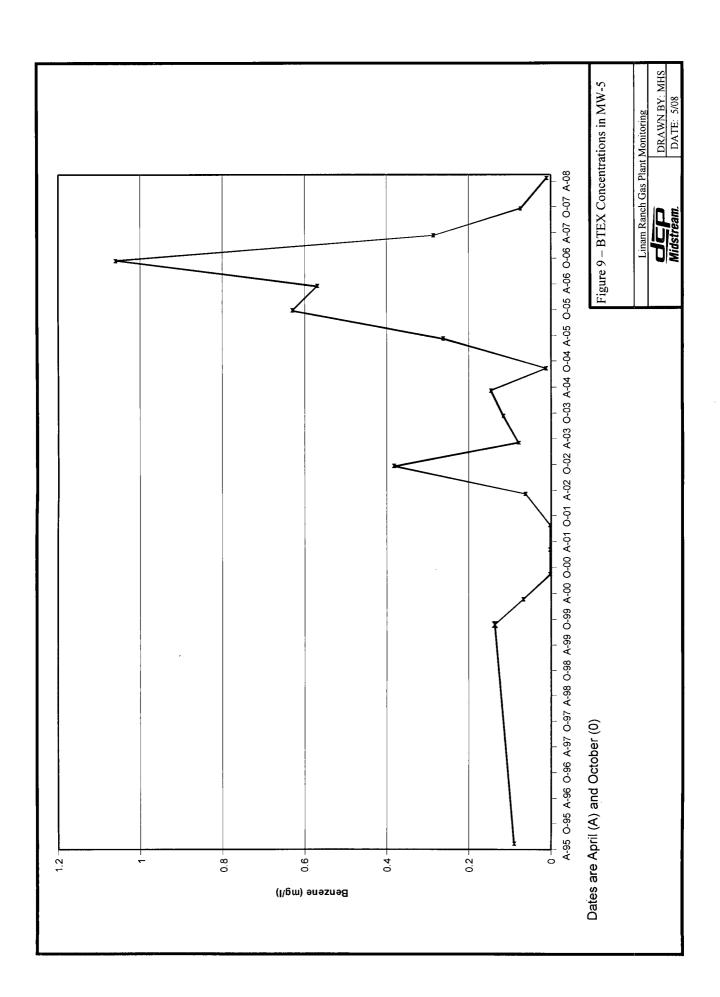
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## FIELD SAMPLING DATA AND

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## LABORATORY ANALYTICAL REPORT

SAMPLE CHARACTERISTICS (odor, color, sheen) Notes: Water was disposed of at an approved salt-water disposal. Product Present ~ No Sample Taken Product Present ~ No Sample Taken 5/2 9:00 Color to Clear Strong Odor Date Sampled: 4-30-2008 and 5-2-2008 9:40 Collected MS/MSD Samples 5/2 14:25 Well Bailed Dry 4/30 9:20 Strong Odor 4/30 10:00 Strong Odor 4/30 10:50 5/2 10:15 5/2 11:40 5/2 10:55 4/30 8:40 4/30 10:35 FIELD MEASUREMENT and OBSERVATION LOG Date and Time PROJECT LOCATION: DCP Midstream Linam Ranch Gas Plant PROJECT NUMBER: F-114 5/2 1.20 1.48 0.45 0.36 2.24 0.41 1.67 1.20 1.25 1.37 1.01 Cond. (mS/cm) 7.03 7.15 6.88 7.12 7.20 6.87 7.23 7.16 6.76 7.24 6.81 Rozanne Johnson - Arc Environmental Ŧ 22.0 19.4 21.8 21.2 21.3 21.2 20.8 19.6 19.9 19.7 Temp (°C) 19.7 ø ω 15 Q 35 12 25 25 20 50 TOTAL PURGED (gallons) Э NUMBER OF WELL VOLUMES PURGED ო З e Э З ĉ Э З 3 e ĉ 10.5 CALC. WELL VOLUME (gallons) <u>و</u>. 4.3 4.1 5.6 0.6 1.5 4.5 7.5 7.9 FIELD TECHNICIAN: 15.1 0.16 0.65 0.16 0.65 0.16 0.16 0.16 0.65 0.16 0.65 WELL FACTOR 2"=.16 4"=.65 5"=1.02 0.65 PROJECT NAME: DCP Midstream 0.34 PSH THICKNESS (feet) 2.81 11.59 27.00 8.86 16.18 27.99 8.58 4.84 3.75 23.22 12.09 11.51 9.21 HEIGHT WATER COLUMN (feet) 58.75 DEPTH TO WATER (feet) 42.61 23.50 46.44 46.23 46.62 49.26 35.08 49.89 48.82 50.96 50.71 51.49 ROJECT MANAGER: Michael H. Stewart, P.E., C.P.G. P. O. Box 1772 ~ Lovington, NM 88260 (575) 631-9310 Arc Environmental 45.89 46.45 DEPTH TO PRODUCT (feet) TOTAL WELL DEPTH (feet) 54.20 54.10 59.10 62.80 63.00 50.50 55.30 54.13 55.20 62.50 58.30 65.00 78.95 WELL # /SAMPLE LOCATION Vonitor Well #10d Monitor Well #13 Monitor Well #10 Monitor Well #11 Monitor Well #5 Monitor Well #3 Monitor Well #4 Monitor Well #6 **Monitor Well #1** Monitor Well #2 Monitor Well #7 Monitor Well #8 Monitor Well #9

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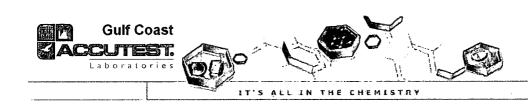
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05/14/08

**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



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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 Carrevaro

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

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#### Job No:

No: T22071

### **AEC/DCP Midstream Linam Ranch**

| Sample<br>Number | Collected<br>Date | Time By  | Received | Matr<br>Code |                    | Client<br>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

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Job No: T22071

**AEC/DCP Midstream Linam Ranch** 

| Sample<br>Number | Collected<br>Date | Time By  | Received | Matr<br>Code |                  | Client<br>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          |  |







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Sample Results

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**Report of Analysis** 



17060-07-0 1,2-Dichloroethane-D4

**Toluene-D8** 

4-Bromofluorobenzene

2037-26-5

460-00-4

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ь. А. **Report of Analysis** 

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T22071-1<br>AQ - Ground<br>SW846 8260          |                      | nch                                  | Date Sampled<br>Date Received<br>Percent Solids             | : 05/06/08        |                            |
|-----------------------------------------------------------|------------------------------------------------------|----------------------|--------------------------------------|-------------------------------------------------------------|-------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID         DF           Y0022474.D         1    | Analyzed<br>05/08/08 | <b>By</b><br>NAZ                     | <b>Prep Date</b><br>n/a                                     | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | Purge Volume<br>5.0 ml                               |                      |                                      |                                                             |                   |                            |
| Purgeable                                                 | Aromatics                                            |                      |                                      |                                                             |                   |                            |
| CAS No.                                                   | Compound                                             | Result               | RL                                   | MDL Units                                                   | Q                 |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | ND<br>ND<br>ND<br>ND | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/l<br>0.00048 mg/l<br>0.00045 mg/l<br>0.0014 mg/l |                   |                            |
| CAS No.                                                   | Surrogate Recover                                    | ies Run# 1           | Run# 2                               | Limits                                                      |                   |                            |
| 1868-53-7                                                 | Dibromofluorometh                                    | ane 87%              |                                      | 73-126%                                                     |                   |                            |

86%

100%

113%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

J = Indicates an estimated value

61-136%

80-125%

65-147%

N = Indicates presumptive evidence of a compound



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B = Indicates analyte found in associated method blank

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17060-07-0

2037-26-5

460-00-4

**Report of Analysis** 

| Client Sam<br>Lab Sample<br>Matrix:<br>Method:<br>Project: |                                                      |                      | nch                                  | Date Sampled:<br>Date Received<br>Percent Solids            | : 05/06/08        |                            |
|------------------------------------------------------------|------------------------------------------------------|----------------------|--------------------------------------|-------------------------------------------------------------|-------------------|----------------------------|
| Run #1<br>Run #2                                           | File ID         DF           Y0022462.D         1    | Analyzed<br>05/07/08 | <b>By</b><br>NAZ                     | <b>Prep Date</b><br>n/a                                     | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                           | Purge Volume<br>5.0 ml                               |                      |                                      |                                                             |                   |                            |
| Purgeable                                                  | Aromatics                                            |                      |                                      |                                                             |                   |                            |
| CAS No.                                                    | Compound                                             | Result               | RL                                   | MDL Units                                                   | Q                 |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7               | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | ND<br>ND<br>ND<br>ND | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/l<br>0.00048 mg/l<br>0.00045 mg/l<br>0.0014 mg/l |                   |                            |
| CAS No.                                                    | Surrogate Recoveries                                 | Run# 1               | Run# 2                               | Limits                                                      |                   |                            |
| 1868-53-7                                                  | Dibromofluoromethane                                 | 93%                  |                                      | 73-126%                                                     |                   |                            |

87%

**99%** 

108%

ND = Not detected MDL - Method Detection Limit **RL** = Reporting Limit E = Indicates value exceeds calibration range

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

61-136%

80-125%

65-147%

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



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460-00-4

Report of Analysis

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: |                                                      |                      | nch                                  | Date Sampled:<br>Date Received<br>Percent Solids            | : 05/06/08               |                            |
|-----------------------------------------------------------|------------------------------------------------------|----------------------|--------------------------------------|-------------------------------------------------------------|--------------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID         DF           Y0022463.D         1    | Analyzed<br>05/07/08 | <b>By</b><br>NAZ                     | <b>Prep Date</b><br>n/a                                     | <b>Prep Batch</b><br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | Purge Volume<br>5.0 ml                               |                      |                                      |                                                             |                          |                            |
| Purgeable .                                               | Aromatics                                            |                      |                                      |                                                             |                          |                            |
| CAS No.                                                   | Compound                                             | Result               | RL                                   | MDL Units                                                   | Q                        |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | ND<br>ND<br>ND<br>ND | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/l<br>0.00048 mg/l<br>0.00045 mg/l<br>0.0014 mg/l |                          |                            |
| CAS No.                                                   | Surrogate Recoveries                                 | Run# 1               | Run# 2                               | Limits                                                      |                          |                            |
| 1868-53-7                                                 | Dibromofluoromethane                                 | 88%                  |                                      | 73-126%                                                     |                          |                            |

84%

94%

103%

ND = Not detected MDL - Method Detection Limit RL = Reporting Limit E = Indicates value exceeds calibration range

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Toluene-D8** 

J = Indicates an estimated value

61-136%

80-125%

65-147%

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



**2.3** 

108-88-3

100-41-4 1330-20-7

CAS No.

1868-53-7

17060-07-0

2037-26-5

460-00-4

Toluene

Ethylbenzene

Xylene (total)

Toluene-D8

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Report of Analysis** Page 1 of 1 Client Sample ID: MW-5 05/02/08 Lab Sample ID: T22071-4 Date Sampled: 05/06/08 Matrix: AO - Ground Water Date Received: Percent Solids: n/a Method: SW846 8260B Project: **AEC/DCP Midstream Linam Ranch** File ID **Analytical Batch** DF Prep Date **Prep Batch** Analyzed By Run #1 VY1700 Y0022464.D 1 05/07/08 NAZ n/a n/a Run #2 Purge Volume 5.0 ml Run #1 Run #2 **Purgeable Aromatics** CAS No. Compound Result RL MDL Units Q 71-43-2 Benzene 0.0108 0.0020 0.00046 mg/l

0.0020

0.0020

0.0060

Run#2

0.00048 mg/l

0.00045 mg/l

Limits

73-126%

61-136%

80-125%

65-147%

mg/l

J

0.0014

ND

0.184

0.0039

Run#1

92%

87%

94%

104%

| ND = Not detected       | MDL - Method Detection Limit |
|-------------------------|------------------------------|
| RL = Reporting Limit    |                              |
| E = Indicates value exc | eeds calibration range       |

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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**Report of Analysis** 

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T22071-5<br>AQ - Grou<br>SW846 82              |         | nam Ranch      |                  | Date Sa<br>Date Re<br>Percent           | ceived:      |                          |                            |
|-----------------------------------------------------------|------------------------------------------------------|---------|----------------|------------------|-----------------------------------------|--------------|--------------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID         E           Y0022465.D         1     |         | •              | -                | Prep Dat<br>n/a                         | e            | <b>Prep Batch</b><br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | Purge Volume<br>5.0 ml                               |         |                |                  |                                         |              |                          |                            |
| Purgeable                                                 | Aromatics                                            |         |                |                  |                                         |              |                          |                            |
| CAS No.                                                   | Compound                                             | F       | Result         | RL               | MDL                                     | Units        | Q                        |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | N<br>N  | 1D<br>1D<br>1D | 0.0020<br>0.0020 | 0.00046<br>0.00048<br>0.00045<br>0.0014 | mg/l<br>mg/l |                          |                            |
| CAS No.                                                   | Surrogate Recove                                     | eries F | Run# 1         | Run# 2           | Limit                                   | S            |                          |                            |

95%

87%

101%

115%

1868-53-7

460-00-4

17060-07-0 2037-26-5

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| ND = Not detected       | MDL - Method Detection Limit |
|-------------------------|------------------------------|
| RL = Reporting Limit    |                              |
| E = Indicates value exc | eeds calibration range       |

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

J = Indicates an estimated value

73-126%

61-136%

80-125%

65-147%

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



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2037-26-5

460-00-4

Report of Analysis

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T22071-6<br>AQ - Ground V<br>SW846 8260B       | Vater<br>Istream Linam Rai | nch                                  | Date Sampled<br>Date Received<br>Percent Solids             | : 05/06/08               |                            |
|-----------------------------------------------------------|------------------------------------------------------|----------------------------|--------------------------------------|-------------------------------------------------------------|--------------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID         DF           Y0022466.D         1    | <b>Analyzed</b> 05/07/08   | <b>By</b><br>NAZ                     | Prep Date<br>n/a                                            | <b>Prep Batch</b><br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | <b>Purge Volume</b><br>5.0 ml                        |                            |                                      |                                                             |                          |                            |
| Purgeable                                                 | Aromatics                                            |                            |                                      |                                                             |                          |                            |
| CAS No.                                                   | Compound                                             | Result                     | RL                                   | MDL Units                                                   | Q                        |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | ND<br>ND<br>ND<br>ND       | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/l<br>0.00048 mg/l<br>0.00045 mg/l<br>0.0014 mg/l |                          |                            |
| CAS No.                                                   | Surrogate Recoveries                                 | Run# 1                     | Run# 2                               | Limits                                                      |                          |                            |
| 1868-53-7                                                 | Dibromofluoromethan                                  | e <b>89</b> %              |                                      | 73-126%                                                     |                          |                            |

84%

100%

114%

| ND = Not detected       | MDL - Method Detection Limit |
|-------------------------|------------------------------|
| RL = Reporting Limit    |                              |
| E = Indicates value exc | eeds calibration range       |

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Toluene-D8** 

J = Indicates an estimated value

61-136%

80-125%

65-147%

B = Indicates analyte found in associated method blank

N = Indicates presumptive evidence of a compound



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1330-20-7

CAS No.

1868-53-7 17060-07-0

2037-26-5

460-00-4

Xylene (total)

**Toluene-D8** 

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Report of Analysis** Page 1 of 1 Client Sample ID: MW-9 04/30/08 Lab Sample ID: T22071-7 Date Sampled: 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 Prep Date **Prep Batch Analytical Batch** By Run #1 Y0022467.D 05/07/08 NAZ VY1700 1 n/a n/a Run #2 Purge Volume Run #1 5.0 ml Run #2 **Purgeable** Aromatics CAS No. Compound Result RL MDL Units Q ND 0.0020 0.00046 mg/l 71-43-2 Benzene 0.00048 mg/l 108-88-3 Toluene ND 0.0020 0.00045 mg/l 100-41-4 Ethylbenzene ND 0.0020 0.0014 mg/l

0.0060

Run#2

Limits

73-126%

61-136%

80-125%

65-147%

ND

Run#1

86%

82%

97%

109%

| ND = Not detected       | MDL - Method Detection Limit |
|-------------------------|------------------------------|
| RL = Reporting Limit    |                              |
| E = Indicates value exc | eeds calibration range       |

- I = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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|                                                           |                                                      |                             | Repo                                             | rt of An                           | alysis                                |         |                                 | Page 1 of 1                                                                                                     |
|-----------------------------------------------------------|------------------------------------------------------|-----------------------------|--------------------------------------------------|------------------------------------|---------------------------------------|---------|---------------------------------|-----------------------------------------------------------------------------------------------------------------|
| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T2207<br>AQ - 0<br>SW84                        | 1-8<br>Ground Wa<br>6 8260B | iter<br>ream Linam Ra                            | nch                                | Date Sa<br>Date Re<br>Percent         | eceived | : 05/06/08                      | 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - |
| Run #1<br>Run #2                                          | File ID<br>Y0022468.D<br>Y0022509.D                  | DF<br>1<br>200              | Analyzed<br>05/07/08<br>05/08/08                 | <b>By</b><br>NAZ<br>NAZ            | Prep Da<br>n/a<br>n/a                 | te      | <b>Prep Batch</b><br>n/a<br>n/a | Analytical Batch<br>VY1700<br>VY1702                                                                            |
| Run #1<br>Run #2                                          | Purge Volume<br>5.0 ml<br>5.0 ml                     | ;                           |                                                  |                                    |                                       |         |                                 |                                                                                                                 |
| Purgeable                                                 | Aromatics                                            |                             |                                                  |                                    |                                       |         |                                 |                                                                                                                 |
| CAS No.                                                   | Compound                                             |                             | Result                                           | RL                                 | MDL                                   | Units   | Q                               |                                                                                                                 |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) |                             | 0.769 <sup>a</sup><br>0.0457<br>0.0851<br>0.0500 | 0.40<br>0.0020<br>0.0020<br>0.0060 | 0.092<br>0.00048<br>0.00045<br>0.0014 | 0       |                                 |                                                                                                                 |

| 1330-20-7  | Xylene (total)        | 0.0500 | 0.0060       | 0.0014 mg/      |
|------------|-----------------------|--------|--------------|-----------------|
| CAS No.    | Surrogate Recoveries  | Run# 1 | Run# 2       | Limits          |
| 1868-53-7  | Dibromofluoromethane  | 91%    | <b>92</b> %  | 73-126%         |
| 17060-07-0 | 1,2-Dichloroethane-D4 | 104%   | 90%          | 61-136%         |
| 2037-26-5  | Toluene-D8            | 97%    | <b>99%</b>   | <b>80</b> -125% |
| 460-00-4   | 4-Bromofluorobenzene  | 107%   | <b>103</b> % | <b>65</b> -147% |

(a) Result is from Run# 2

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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



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ي. جو Report of Analysis

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T22071-9<br>AQ - Groun<br>SW846 8260           |                                     | nch                                  | Date Sampled<br>Date Received<br>Percent Solids             | : 05/06/08               |                            |
|-----------------------------------------------------------|------------------------------------------------------|-------------------------------------|--------------------------------------|-------------------------------------------------------------|--------------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID         DF           Y0022469.D         1    | Analyzed<br>05/07/08                | <b>By</b><br>NAZ                     | Prep Date<br>n/a                                            | <b>Prep Batch</b><br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | Purge Volume<br>5.0 ml                               |                                     |                                      |                                                             |                          |                            |
| Purgeable                                                 | Aromatics                                            |                                     |                                      |                                                             |                          |                            |
| CAS No.                                                   | Compound                                             | Result                              | RL                                   | MDL Units                                                   | Q                        |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) | 0.195<br>0.0677<br>0.0144<br>0.0221 | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/l<br>0.00048 mg/l<br>0.00045 mg/l<br>0.0014 mg/l |                          |                            |
| CAS No.                                                   | Surrogate Recover                                    | ies Run# 1                          | Run# 2                               | Limits                                                      |                          |                            |
| 1868-53-7                                                 | Dibromofluorometh                                    | ane 92%                             |                                      | <b>73-126</b> %                                             |                          |                            |

90%

97%

110%

| ND = Not detected       | MDL - Method Detection Limit |
|-------------------------|------------------------------|
| RL = Reporting Limit    |                              |
| E = Indicates value exc | eeds calibration range       |

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Toluene-D8** 

17060-07-0

2037-26-5

460-00-4

J = Indicates an estimated value

61-136%

80-125%

65-147%

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



Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Toluene-D8** 

CAS No.

1868-53-7 17060-07-0

2037-26-5

460-00-4

Report of Analysis

| Client Sam<br>Lab Samp<br>Matrix:<br>Method:<br>Project: | le ID: T22072<br>AQ - Q<br>SW846                     | l-10<br>Fround Wa<br>5 8260B | iter<br>ream Linam Ra | nch                                  | Date Sampl<br>Date Receiv<br>Percent Soli               | ed: 05/06/08      |                            |
|----------------------------------------------------------|------------------------------------------------------|------------------------------|-----------------------|--------------------------------------|---------------------------------------------------------|-------------------|----------------------------|
| Run #1<br>Run #2                                         | File ID<br>Y0022470.D                                | DF<br>1                      | Analyzed<br>05/08/08  | By<br>NAZ                            | <b>Prep Date</b><br>n/a                                 | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                         | <b>Purge Volume</b><br>5.0 ml                        |                              |                       |                                      |                                                         |                   |                            |
| Purgeable                                                | Aromatics                                            |                              |                       |                                      |                                                         |                   |                            |
| CAS No.                                                  | Compound                                             |                              | Result                | RL                                   | MDL Uni                                                 | ts Q              |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7             | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) |                              | ND<br>ND<br>ND<br>ND  | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046 mg/<br>0.00048 mg/<br>0.00045 mg/<br>0.0014 mg/ | 1                 |                            |

Run# 2

Limits

73-126%

61-136%

80-125%

65-147%

Run# 1

94%

**87**%

102%

118%

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



1330-20-7

CAS No.

1868-53-7

17060-07-0

2037-26-5

460-00-4

Xylene (total)

Toluene-D8

Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Report of Analysis** Page 1 of 1 Client Sample ID: MW-13 Lab Sample ID: T22071-11 Date Sampled: 04/30/08 AQ - Ground Water Date Received: 05/06/08 Matrix: Method: Percent Solids: n/a SW846 8260B Project: **AEC/DCP Midstream Linam Ranch Prep Date Prep Batch Analytical Batch** File ID DF Analyzed By 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 Ethylbenzene 0.0020 0.00045 mg/l 100-41-4 ND

0.0060

Run#2

ND

Run#1

88%

**8**5%

100%

113%

0.0014

Limits

73-126%

61-136%

80-125%

65-147%

mg/l

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound





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Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

**Toluene-D8** 

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1868-53-7

17060-07-0

2037-26-5

460-00-4

Report of Analysis

| Client Sam<br>Lab Sampl<br>Matrix:<br>Method:<br>Project: | e ID: T22071<br>AQ - G<br>SW846                      | round Wa<br>8260B | iter<br>ream Linam Ra           | nch                                  | Date Sa<br>Date R<br>Percent            | eceived | : 05/06/08        |                            |
|-----------------------------------------------------------|------------------------------------------------------|-------------------|---------------------------------|--------------------------------------|-----------------------------------------|---------|-------------------|----------------------------|
| Run #1<br>Run #2                                          | File ID<br>Y0022472.D                                | DF<br>1           | <b>Analyzed</b> 05/08/08        | By<br>NAZ                            | Prep Da<br>n/a                          | te      | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                          | <b>Purge Volume</b><br>5.0 ml                        |                   |                                 |                                      |                                         |         |                   |                            |
| Purgeable                                                 | Aromatics                                            |                   |                                 |                                      |                                         |         |                   |                            |
| CAS No.                                                   | Compound                                             |                   | Result                          | RL                                   | MDL                                     | Units   | Q                 |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7              | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) |                   | 0.0107<br>ND<br>0.179<br>0.0039 | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046<br>0.00048<br>0.00045<br>0.0014 | mg/l    | J                 |                            |

Run# 2

Limits

73-126%

61-136%

80-125%

65-147%

Run# 1

83%

**80**%

**9**1%

101%

| ND = Not detected        | MDL - Method Detection Limit |
|--------------------------|------------------------------|
| RL = Reporting Limit     |                              |
| E = Indicates value exce | eeds calibration range       |

- J = Indicates an estimated value
- B = Indicates analyte found in associated method blank
- N = Indicates presumptive evidence of a compound



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Surrogate Recoveries

Dibromofluoromethane

1,2-Dichloroethane-D4

4-Bromofluorobenzene

Toluene-D8

CAS No.

1868-53-7

17060-07-0

2037-26-5 460-00-4

### **Report of Analysis**

| Client Sam<br>Lab Samp<br>Matrix:<br>Method:<br>Project: | le ID: T2207<br>AQ - T<br>SW846                      | rip Blank<br>8260B | Water<br>ream Linam Ra | nch                                  | Date R                                  | ampled:<br>eceived:<br>t Solids: | : 05/06/08        |                            |
|----------------------------------------------------------|------------------------------------------------------|--------------------|------------------------|--------------------------------------|-----------------------------------------|----------------------------------|-------------------|----------------------------|
| Run #1<br>Run #2                                         | File ID<br>Y0022473.D                                | DF<br>1            | Analyzed<br>05/08/08   | <b>By</b><br>NAZ                     | Prep Da<br>n/a                          | ite                              | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| Run #1<br>Run #2                                         | Purge Volume<br>5.0 ml                               |                    |                        |                                      |                                         |                                  |                   |                            |
| Purgeable                                                | Aromatics                                            |                    |                        |                                      |                                         |                                  |                   |                            |
| CAS No.                                                  | Compound                                             |                    | Result                 | RL                                   | MDL                                     | Units                            | Q                 |                            |
| 71-43-2<br>108-88-3<br>100-41-4<br>1330-20-7             | Benzene<br>Toluene<br>Ethylbenzene<br>Xylene (total) |                    | ND<br>ND<br>ND<br>ND   | 0.0020<br>0.0020<br>0.0020<br>0.0060 | 0.00046<br>0.00048<br>0.00045<br>0.0014 | mg/l                             |                   |                            |

Run# 2

Limits

73-126%

61-136%

80-125%

65-147%

Run#1

89%

**8**5%

**99**%

112%

ND = Not detectedMDL - 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



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Section 3

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Misc. Forms

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المي 1 - 1 1 - 1 **Custody Documents and Other Forms** 

Includes the following where applicable:

• Chain of Custody



| , - <b>-</b>                                                                                                     |                                                                                                                |            |              | Fre<br>22:    | HAN<br>sh Ponds<br>35 Route<br>2-329-020 | Corpore<br>130, De | ate Vill<br>syton, I | lage, I<br>NJ 0 | Buildi<br>8810        | ing B       |              |             | ~₽¢                                          | Accutest | Job #:    | BZ<br>1220                 | -<br>171 |          | , 2 <u>-</u> |       |
|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|------------|--------------|---------------|------------------------------------------|--------------------|----------------------|-----------------|-----------------------|-------------|--------------|-------------|----------------------------------------------|----------|-----------|----------------------------|----------|----------|--------------|-------|
|                                                                                                                  | Client Information                                                                                             | n          |              | Facili        | ity Inforn                               | nation             | Harris I.            | 3985            |                       |             |              | Anal        | ytical Info                                  | ormation | -         |                            |          | T        |              |       |
| DCP Mid                                                                                                          | stream                                                                                                         |            | Am           | erican Envi   | ronment                                  | al Cons            | uiting,              | , LP            |                       |             | 1            |             |                                              |          |           | 1                          | Τ        | 1        | 1            |       |
| lame<br>370 Seve                                                                                                 | nteenth Street, Su                                                                                             | ulte 2500  | Project Name | 0             |                                          |                    |                      |                 |                       |             |              |             |                                              |          |           |                            |          |          | 8260B        |       |
| Address<br>Denver                                                                                                | co                                                                                                             | 80202      | Location     |               |                                          |                    |                      |                 |                       | 1           |              |             |                                              | ]        |           |                            |          |          |              |       |
| City<br>Stephen We                                                                                               | State                                                                                                          | Zip        | Project/PO # |               | P Midst                                  | ream L             | inam                 | Rand            | ch                    |             |              |             |                                              |          |           |                            |          |          | R BTEX       |       |
| Send Report to:<br>Phone #:                                                                                      | 303.605.1718                                                                                                   |            | FAX #:       |               |                                          |                    |                      |                 |                       | 11<br>8260B |              |             |                                              |          |           |                            |          |          | 0 FO         |       |
| Field ID / F                                                                                                     | Point of Collection                                                                                            | 200 B      | Collection   | Sampled<br>Bv | Matrix                                   | # of<br>bottles    | Pres                 | serva<br>Serva  | ation                 | -1 X        | 0            |             |                                              |          | 0         |                            |          |          | ISM/SM       |       |
| VIW-1                                                                                                            |                                                                                                                | 5/2        | 9:40         | er            | GW                                       | 3                  | x                    |                 |                       | X           | <u> </u>     | <u> </u>    |                                              |          |           | 1                          | 1        | <u> </u> |              |       |
| WV-2                                                                                                             |                                                                                                                | 5/2        | 10:15        | eb            | GW                                       | 3                  | x                    |                 |                       | X           |              |             |                                              |          |           |                            |          |          |              |       |
| MW-3                                                                                                             |                                                                                                                | 5/2        | 11:40        | RF            | GW                                       | 3                  | x                    |                 |                       | X           |              |             |                                              |          |           |                            |          |          |              |       |
| AW-5                                                                                                             |                                                                                                                | 5/2        | 9:00         | RO            | GW                                       | 3                  | x                    |                 |                       | X           |              |             |                                              |          |           |                            |          |          |              |       |
| WW-7                                                                                                             |                                                                                                                | 5/2        | 14:25        | PF            | GW                                       | 3                  | x                    |                 |                       | X           |              |             |                                              |          |           |                            |          |          |              |       |
| VW-8                                                                                                             |                                                                                                                | 5/2        | 10:55        | 26            | GW                                       | 3                  | x                    | $\square$       |                       | x           |              |             |                                              |          |           |                            |          |          |              |       |
| MW-9                                                                                                             |                                                                                                                | 4/20       | 10:50        | Ry            | GW                                       | 3                  | x                    | $\downarrow$    |                       | X           |              |             |                                              |          |           |                            |          |          |              |       |
| WW-10                                                                                                            |                                                                                                                | 4/30       | 10:00        | Rr            | GW                                       | 3                  | x                    | $\downarrow$    |                       | X           | <b>_</b>     |             |                                              |          |           |                            |          |          |              |       |
| MW-10d                                                                                                           |                                                                                                                | 4/20       | 9:20         | 14.80         | GW                                       | 3                  | X                    | $\downarrow$    |                       | X           | <b> </b>     | <u> </u>    | <b>_</b>                                     |          |           | ļ                          | ļ        |          | ļ            |       |
| MW-1 MS/MS                                                                                                       | D                                                                                                              | 5/2        | 9:40         | Kr.           | GW                                       | 6                  | X                    |                 | _                     | ļ           |              |             | L                                            |          |           | Ļ                          | ļ        | I        | x            |       |
| a state of the second | 0                                                                                                              |            |              |               | 0                                        |                    |                      |                 |                       |             | -            |             |                                              |          |           |                            |          |          |              |       |
|                                                                                                                  | Turnaround Informatio                                                                                          | <u>n </u>  |              |               |                                          | Data               | Deliver              | able I          | Inform                | nation      |              |             | <u> ////////////////////////////////////</u> | Comme    | nts / Ren | narks                      |          |          |              |       |
| 21 Day St                                                                                                        | andard                                                                                                         | Арргочес   | i By:        | NJ Rec        | luced -                                  |                    | L (                  | Comm            | ierclai               | "A"         |              |             |                                              |          |           |                            |          |          |              |       |
| 14 Day                                                                                                           |                                                                                                                |            |              | NJ Ful        | I                                        |                    | [] (                 | Comm            | ercial                | "B"         |              | L.          |                                              |          |           |                            |          |          |              |       |
| X 7 Days El                                                                                                      | IERGENCY                                                                                                       |            |              | FULL O        | CLP                                      |                    | A:                   | SP Ca           | tegory                | y B         |              |             | Include                                      |          |           |                            |          |          |              | abel. |
| Other                                                                                                            | (Days)                                                                                                         |            |              | 🗌 Ölsk D      | eliverable                               |                    |                      | State I         | Forms                 |             |              | Accute      | st to inv                                    | VOICE DU | or Mid:   | suream,                    | Attn: 51 | eve we   | ainer\$      |       |
| RUSH TAT is tuniess previo                                                                                       | for FAX data<br>usly approved.                                                                                 |            |              | X Other       | (Specify)                                |                    |                      | ŧ               | #REF                  | ·)          | -            |             |                                              |          |           |                            |          |          |              |       |
| $\sim$                                                                                                           | and a second | Date Time: | ust be docum | iented below  | each tim                                 | e sample           | is chan              | ige po          | ssesi                 | on, includi | ng courier ( | lelivery.   |                                              |          |           |                            |          | <b>M</b> |              |       |
| Ka                                                                                                               | the-                                                                                                           |            | 13:00        | ARRI          | ti@                                      | Mi                 | Ga                   | ùĊ              | z)                    | ulshed By:  |              |             | Date Time:                                   |          |           | Received                   | -        |          |              |       |
| Relinquis fett by<br>3<br>Relinquished by                                                                        | Sampler:                                                                                                       |            | 667          | 3 A A         | ICK                                      | 2NC                | Ŵ                    |                 | Reling<br>4<br>Seal # | uished By:  | P            | reserved wi | Date Time:                                   |          |           | Received  <br>4<br>On Ice: | 1        | -        |              |       |
| ,,                                                                                                               |                                                                                                                | i Ö        |              | 5             |                                          |                    |                      |                 | -                     |             |              |             |                                              |          |           | 1                          | /        | 4.8      |              |       |

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T22071: Chain of Custody Page 1 of 3



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|                                |             |              | Fre<br>223                            | HAIN<br>sh Ponds<br>35 Route<br>2-329-020 | Corpor<br>130, Da | ate V<br>ayton | 'illage<br>, NJ | , Bui<br>0881 | lding<br>10 | в                    |                 |             | ~                                       | PA<br>Accutost |             | 2 B<br>T220   | , <u>2</u><br>11 | د <sub>۲</sub>   | • •      |           |
|--------------------------------|-------------|--------------|---------------------------------------|-------------------------------------------|-------------------|----------------|-----------------|---------------|-------------|----------------------|-----------------|-------------|-----------------------------------------|----------------|-------------|---------------|------------------|------------------|----------|-----------|
| Client Informa                 | tion        |              | Facil                                 | ity Inform                                | nation            |                | . 303           |               |             |                      | 9214163         | Ana         | ytical info                             | ormation       |             |               | -                | 0.000            | 646860   | 101130000 |
| DCP Midstream                  |             |              | verican Envi                          | ronment                                   | al Cons           | ultin          | ig, LP          |               |             |                      |                 |             |                                         |                |             |               |                  | 1                |          |           |
| Name<br>370 Seventeenth Street | Suite 2500  | Project Nam  | le                                    |                                           |                   |                |                 |               |             |                      |                 |             |                                         |                |             |               |                  | }                | 1        |           |
| Address                        |             | Location     |                                       |                                           | · · ·             |                |                 |               |             |                      |                 |             |                                         |                |             |               |                  |                  |          |           |
| Denver CO<br>City State        | 80202       |              |                                       |                                           |                   |                |                 |               |             |                      |                 |             |                                         |                |             |               |                  |                  |          |           |
| City State<br>Stephen Weathers | Zip         | Project/PO # |                                       | P Midst                                   | ream L            | inan           | n Rai           | nch           |             |                      |                 |             |                                         |                |             |               |                  | ļ                |          |           |
| Send Report to:                |             | 1            |                                       |                                           |                   |                |                 |               |             | æ                    |                 |             |                                         |                |             |               |                  |                  |          |           |
| Phone #: 303.605.1718          |             | FAX #:       |                                       |                                           |                   |                |                 | _             |             | 126(                 | Ì               |             |                                         |                |             |               |                  |                  |          | 1         |
|                                |             | Collection   | · · · · · · · · · · · · · · · · · · · | [                                         | [                 | Pr             | reserv          | ation         | n           | X 8                  | 1               |             |                                         |                |             |               |                  |                  |          |           |
| Field ID / Point of Collection |             | Time         | Sampled<br>By                         | Matrix                                    | # of<br>bottles   | ЧĊ             | Na OH<br>HNO3   | H2So4         | None        | BTEX 8260B           | 0               | o           | 0                                       | 0              | 0           | 0             |                  | 0                | 0        |           |
| VW-11                          | 4/30        | 8:40         | RX                                    | GW                                        | 3                 | X              |                 |               |             | X                    |                 |             |                                         |                |             |               |                  |                  |          |           |
| W-12                           |             |              |                                       | GW-                                       | 3                 | X              |                 |               |             | - X                  |                 | <u> </u>    | NOT                                     | SAM            | DLED        | 200           | 1                |                  | Ţ        |           |
| WW-13                          | 4/20        | 10:35        | Bb                                    | GW                                        | 3                 | X              |                 |               |             | х                    |                 |             |                                         |                |             |               |                  |                  | 1        |           |
| Dup C                          | 000         | $\infty$     |                                       | GW                                        | 3                 | X              |                 |               |             | X                    |                 | 1           | 1                                       |                |             |               |                  |                  | 1        |           |
| T.B AP                         | 0           |              | -0                                    | 0                                         |                   | Π              |                 |               |             |                      |                 |             |                                         |                |             |               |                  | <u> </u>         | 1        |           |
|                                | 0           |              |                                       | 0                                         |                   |                |                 |               |             |                      |                 |             |                                         |                |             |               | 1                |                  | -        | +         |
|                                | 0           | 1            |                                       | 0                                         |                   |                |                 | $\square$     |             |                      | 1               | 1           |                                         | 1              |             |               | t                | $\mathbf{t}$     | t        | t1        |
|                                | 0           |              | -                                     | 0                                         |                   |                |                 |               |             |                      |                 |             |                                         |                |             |               |                  | +                | +        | +{        |
|                                | 0           |              |                                       | 0                                         | <u> </u>          | Ħ              |                 | $\top$        |             |                      |                 | -           |                                         |                |             |               |                  | +                | +        |           |
|                                | 0           |              |                                       | 0                                         |                   |                |                 | +1            |             |                      | +               | +           |                                         |                |             |               |                  | 1                |          | +         |
|                                |             |              | <u> </u>                              | <b>–</b>                                  |                   | ⊢              |                 | ┼┥            |             |                      | +               | <u> </u>    | <u> </u>                                |                |             |               | ÷                |                  | ┼───     |           |
| Turnaround Inform              | ation       |              |                                       | 1                                         | Data              | Deliv          | erable          | ) Info        | rmati       | ion .                |                 |             | <b> </b><br>                            | Comme          | ents / Rema | arke          |                  | 1                | <u> </u> | L         |
| 21 Day Standard                | Approve     | 1 8          | NJ Rec                                |                                           |                   | $\square$      |                 | merc          |             |                      | Note that you'r | <u></u>     | ( ) ) ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) |                |             |               | Residence of     | Allona ya Paliyu | <u></u>  | <u> </u>  |
|                                | Approve     | 1            |                                       |                                           |                   | 님              |                 |               |             |                      |                 |             |                                         |                |             |               |                  |                  |          |           |
| 14 Day                         |             |              | 12 .                                  |                                           |                   | 님              |                 | merc          |             |                      |                 | Blonco      | include                                 | Plad           | for Steve   | n Manti       | ha               | <b></b>          |          |           |
| X 7 Days EMERGENCY             |             |              |                                       | CLP                                       |                   |                | ASP C           | atego         | ory B       |                      |                 |             |                                         |                | CP Mids     |               |                  |                  |          | acei.     |
| Other (Day                     | B}          |              | Disk D                                | eliverable                                |                   |                | State           | For           | ns          |                      |                 |             |                                         |                | er unda     | - confr i     | - aui. Oi        |                  |          |           |
| RUSH TAT is for FAX data       |             |              | X Other                               | (Specify)                                 |                   |                |                 | #RE           | FI          |                      | _               |             |                                         |                |             |               |                  |                  |          |           |
| unless previously approved.    |             |              |                                       |                                           |                   |                |                 |               |             |                      |                 | 1           |                                         | r              |             |               |                  |                  |          |           |
| Ballow Ballow Sageton          | Date Time:  | ust be docur | Received By                           | each tim                                  | e sample          | n 1            | ange p<br>Q     | Refl          | nquisi      | , includi<br>hed By: | ng courier      | delivery.   | Date Time:                              | L              |             | Received B    | <u>Бу</u> .      |                  |          |           |
| Kali-                          | 5-5-0       | 3 13:00      | atri                                  | the C                                     | 15                | ũ              | ño              | Þ             |             |                      |                 |             |                                         |                |             | 2             |                  |                  |          |           |
| Relinquished by Stampler:      | Date Time:  | 9:27         | Received By                           | 1/11                                      | ph                | 01             | ìЛ              | Reli          | nquisi      | hed By:              |                 |             | Date Time:                              | · -            | 1           | Received B    | ly:              |                  |          |           |
| 3<br>Relinquished by Sampler:  | Date Minte: | 08.          | Received By                           | (VII                                      | $\mathcal{M}$     | w              | <u>v</u> ·      | 4<br>9eal     |             |                      | 1               | reserved wi | ere applicat                            |                |             | 4<br>On lice: | /                | 10 7             |          |           |
|                                |             |              |                                       |                                           |                   |                |                 |               |             |                      |                 |             |                                         |                |             |               |                  |                  |          |           |

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T22071: Chain of Custody Page 2 of 3



|                          | anation):<br>ithin temp. range.<br>roper containers.<br>n chain of custody.                                                                                                                                                                                          | PRESERV. PH                                                                                                                              | 1(2)3,4,5,6 U, 2, >12 ma | 12,3,4,5,6 U, 2, >12, MA | 123,45.6 U. C. >12, MA |          | 1.2.3,4,0,0 U, 2, 712, NA | 3  d | ii | 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, Q, >12, NA | 1,2.3,4,5,6 U, -2, >12, NA | 1,2,3,4,5,6 U, 2, >12, NA |                                                                |                                          | COOLER TEMP:<br>COOLER TEMP:<br>Form: SM012, Rev. 07/28/06, DAD | 3.1<br> |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------------|------------------------|----------|---------------------------|------|----|---------------------------|----------------------------|----------------------------|---------------------------|---------------------------|---------------------------|----------------------------|---------------------------|----------------------------------------------------------------|------------------------------------------|-----------------------------------------------------------------|---------|
| U DV 9:57                | circled, see variance for explanation).<br>N Samples received within temp. range.<br>N Sample received in proper comainers.<br>N Sample received with chain of custody<br>condiners.                                                                                 | on bottles.                                                                                                                              | 40 mg                    |                          |                        |          |                           |      |    |                           |                            |                            | _                         | /                         | 4                         |                            |                           | EF: Encore Freezer<br>:: Other<br>ments:                       |                                          | COOLER TEMP. UK                                                 |         |
| EST. SAMPLE RECEIPT LOG  | If "N" is<br>2<br>4<br>hysis on                                                                                                                                                                                                                                      | A Custody sear received intact and tamper not evident on bottles.<br>NA) Custody sear received intact and tamper not evident on bottles. |                          |                          | 4/30/08                | Ma L     |                           | 1    |    |                           |                            |                            |                           |                           |                           |                            |                           | SUB: Supcontract<br>4: H2SO4 5: NADH E<br>Con                  |                                          |                                                                 |         |
| CUTEST.<br>2207 MidshCan | tion/Variance (Circle "Y" for yes and "N" for no or NA.<br>M Sample received in undamaged condition.<br>M Sample received with proper pH.<br>Sample volume sufficient for analysis.<br>N Chain of Custody matches sample IDs and ana<br>Samples Headspace acceptable | Custody seal received in A Custody seal received in                                                                                      | U 1-3                    | 6-1                      | -19 1-3                | 2 2<br>2 |                           |      |    |                           |                            | -                          |                           |                           |                           |                            |                           | WY WAIK-IN VR: VOIATIS REFTIG.<br>TVES: 1: NONE 2: HCL 3: HNO3 | pH of waters checked excluding volatiles | ph of soits N/A<br>Delivery method: Courier: FUL                | -       |
|                          | Condition/Vari<br>3. (V) Sar<br>5. (N) Sar<br>5. (N) Sar<br>8. (N) Cha                                                                                                                                                                                               | Z7-4                                                                                                                                     | SAMPLEOF                 | . 0                      | 4                      | -        | X                         |      |    |                           |                            |                            |                           |                           |                           |                            |                           | PRESERVATIVES                                                  | pH of waters                             | pH of soirs N/A<br>Delivery meth                                |         |

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T22071: Chain of Custody Page 3 of 3



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## Section 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

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| Job Number:<br>Account:<br>Project: | T22071<br>DUKE DCP<br>AEC/DCP N |           | am, LLC<br>n Linam Ranch |                  |                         |                   | U                          |
|-------------------------------------|---------------------------------|-----------|--------------------------|------------------|-------------------------|-------------------|----------------------------|
| Sample<br>VY1700-MB                 | File ID<br>Y0022461.D           | DF<br>1   | Analyzed<br>05/07/08     | <b>By</b><br>NAZ | <b>Prep Date</b><br>n/a | Prep Batch<br>n/a | Analytical Batch<br>VY1700 |
| The QC repor                        | ted here appli                  | es to the | e following sam          | ples:            |                         | Method: SW        | /846 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<br>100-41-4<br>108-88-3<br>1330-20-7 | Benzene<br>Ethylbenzene<br>Toluene<br>Xylene (total) | ND<br>ND<br>ND<br>ND | 2.0<br>2.0<br>2.0<br>6.0 | 0.46<br>0.45<br>0.48<br>1.4 | ug/l<br>ug/l<br>ug/l<br>ug/l |
| CAS No.                                      | Surrogate Recoveries                                 |                      | Limi                     | ts                          |                              |

| 1868-53-7  | Dibromofluoromethane  | <b>90</b> % | 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

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| Job Number<br>Account:<br>Project:               | r: T22071<br>DUKE DCP Midstrean<br>AEC/DCP Midstream                                |                             |                                  |               |       |                   | , in the second s |
|--------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------|----------------------------------|---------------|-------|-------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sample<br>VY1702-MI                              | File ID DF<br>3 Y0022497.D 1                                                        | <b>Analyzed</b><br>05/08/08 | <b>By</b><br>NAZ                 | Prep ]<br>n/a | Date  | Prep Batch<br>n/a | Analytical Batch<br>VY1702                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| The QC rep<br>T22071-8                           | ported here applies to the                                                          | following sam               | ples:                            |               |       | Method: SW        | /846 8260B                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| CAS No.                                          | Compound                                                                            | Result                      | RL                               | MDL           | Units | Q                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 71-43-2                                          | Benzene                                                                             | ND                          | 2.0                              | 0.46          | ug/l  |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| CAS No.                                          | Surrogate Recoveries                                                                |                             | Limit                            | ts            |       |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| 1868-53-7<br>17060-07-0<br>2037-26-5<br>460-00-4 | Dibromofluoromethane<br>1,2-Dichloroethane-D4<br>Toluene-D8<br>4-Bromofluorobenzene | 87%<br>86%<br>100%<br>114%  | 73-12<br>61-13<br>80-12<br>65-14 | 6%<br>5%      |       |                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |



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## Blank Spike/Blank Spike Duplicate Summary

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

| File ID    | DF         | Analyzed                     | By                    | Prep Date                 | Prep Batch                    | Analytical Batch                  |
|------------|------------|------------------------------|-----------------------|---------------------------|-------------------------------|-----------------------------------|
| Y0022458.D | 1          | 05/07/08                     | NAZ                   | n/a                       | n/a                           | VY1700                            |
| Y0022459.D | 1          | 05/07/08                     | NAZ                   | n/a                       | n/a                           | VY1700                            |
|            | Y0022458.D | Y0022458.D 1<br>Y0022459.D 1 | Y0022458.D 1 05/07/08 | Y0022458.D 1 05/07/08 NAZ | Y0022458.D 1 05/07/08 NAZ n/a | Y0022458.D 1 05/07/08 NAZ n/a n/a |

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<br>ug/l | BSP<br>ug/l | BSP<br>% | BSD<br>ug/l | BSD<br>% | RPD | Limits<br>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           | BS          | D        | Limits      |          |     |                   |
| 1868-53-7  | Dibromofluoromethane  | 92%           | 85          | %        | 73-126      | %        |     |                   |
| 17060-07-0 | 1,2-Dichloroethane-D4 | <b>87</b> %   | 82          | %        | 61-136      | %        |     |                   |
| 2037-26-5  | Toluene-D8            | <b>96%</b>    | 90          | %        | 80-125      | %        |     |                   |
| 460-00-4   | 4-Bromofluorobenzene  | 1 <b>07</b> % | 99          | %        | 65-147      | %        |     |                   |

Page 1 of 1

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#### Blank Spike Summary Job Number: T22071

1868-53-7 Dibromofluoromethane

17060-07-0 1,2-Dichloroethane-D4

4-Bromofluorobenzene

2037-26-5 Toluene-D8

460-00-4

| Account:<br>Project:       | DUKE DCP Midstrea          |                      | 1                |          |                |                   |                            |
|----------------------------|----------------------------|----------------------|------------------|----------|----------------|-------------------|----------------------------|
| <b>Sample</b><br>VY1702-BS | File ID DF<br>Y0022494.D 1 | Analyzed<br>05/08/08 | <b>By</b><br>NAZ |          | rep Date<br>/a | Prep Batch<br>n/a | Analytical Batch<br>VY1702 |
| The QC rep<br>T22071-8     | orted here applies to th   | e following san      | nples:           |          |                | Method: SW        | /846 8260B                 |
| CAS No.                    | Compound                   | Spike<br>ug/l        | BSP<br>ug/l      | BSP<br>% | Limits         |                   |                            |
| 71-43-2                    | Benzene                    | 25                   | 23.0             | 92       | 41-145         |                   |                            |
| CAS No.                    | Surrogate Recoveries       | BSP                  | Lim              | lits     |                |                   |                            |

73-126%

61-136%

80-125%

65-147%

**88**%

83%

**97%** 

107%

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# Matrix Spike/Matrix Spike Duplicate Summary

| Job Number: | 122071                        |
|-------------|-------------------------------|
| Account:    | DUKE DCP Midstream, LLC       |
| Project:    | AEC/DCP Midstream Linam Ranch |

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| D DF     | Analyzed                         | By                | Prep Date             | Prep Batch                | Analytical Batch              |
|----------|----------------------------------|-------------------|-----------------------|---------------------------|-------------------------------|
| 2475.D 1 | 05/08/08                         | NAZ               | n/a                   | n/a                       | VY1700                        |
| 2476.D 1 | 05/08/08                         | NAZ               | n/a                   | n/a                       | VY1700                        |
| 2474.D 1 | 05/08/08                         | NAZ               | n/a                   | n/a                       | VY1700                        |
|          |                                  |                   |                       |                           |                               |
| 2        | 2475.D 1<br>2476.D 1<br>2474.D 1 | 2476.D 1 05/08/08 | 2476.D 1 05/08/08 NAZ | 2476.D 1 05/08/08 NAZ n/a | 2476.D 1 05/08/08 NAZ n/a n/a |

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<br>ug/l Q | Spike<br>ug/l | MS<br>ug/l | MS<br>% | MSD<br>ug/l | MSD<br>% | RPD | Limits<br>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           | T2         | 2071-1  | Limits      |          |     |                   |
| 1868-53-7  | Dibromofluoromethane  | 91%                | 91%           | 87         | %       | 73-126      | %        |     |                   |
| 17060-07-0 | 1,2-Dichloroethane-D4 | <b>89</b> %        | <b>88</b> %   | 869        | %       | 61-136      | %        |     |                   |
| 2037-26-5  | Toluene-D8            | 101%               | 100%          | 10         | 0%      | 80-125      | %        |     |                   |
| 460-00-4   | 4-Bromofluorobenzene  | 109%               | · 108%        | 11         | 3%      | 65-147      | %        |     |                   |





#### Matrix Spike/Matrix Spike Duplicate Summary Job Number: T22071

| JOO NUMBEL. | 122011                        |
|-------------|-------------------------------|
| Account:    | DUKE DCP Midstream, LLC       |
| Project:    | AEC/DCP Midstream Linam Ranch |

| Sample<br>T22027-14MS<br>T22027-14MSD<br>T22027-14 | File ID<br>Y0022507.I<br>Y0022508.I<br>Y0022506.I | D 1           | Analyzed<br>05/08/08<br>05/08/08<br>05/08/08 | <b>By</b><br>NAZ<br>NAZ<br>NAZ | Prep Date<br>n/a<br>n/a<br>n/a | Prep Batch<br>n/a<br>n/a<br>n/a | Analytical Batch<br>VY1702<br>VY1702<br>VY1702<br>VY1702 |
|----------------------------------------------------|---------------------------------------------------|---------------|----------------------------------------------|--------------------------------|--------------------------------|---------------------------------|----------------------------------------------------------|
| The QC report                                      | ed here appl                                      | ies to the fo | ollowing samp                                | ples:                          |                                | Method: SW                      | /846 8260B                                               |
| T22071-8                                           |                                                   |               |                                              |                                |                                |                                 |                                                          |
|                                                    |                                                   |               |                                              |                                |                                |                                 |                                                          |

| CAS No.                                          | Compound                                                                              | T22027-14<br>ug/l Q      | Spike<br>ug/l            | MS<br>ug/l               | MS<br>% | MSD<br>ug/l                              | MSD<br>% | RPD | Limits<br>Rec/RPD |
|--------------------------------------------------|---------------------------------------------------------------------------------------|--------------------------|--------------------------|--------------------------|---------|------------------------------------------|----------|-----|-------------------|
| 71-43-2                                          | Benzene                                                                               | ND                       | 25                       | 22.3                     | 89      | 24.9                                     | 100      | 11  | 60-131/12         |
| CAS No.                                          | Surrogate Recoveries                                                                  | MS                       | MSD                      | T22                      | 2027-14 | Limits                                   |          |     |                   |
| 1868-53-7<br>17060-07-0<br>2037-26-5<br>460-00-4 | Dibromofluoromethane<br>) 1,2-Dichloroethane-D4<br>Toluene-D8<br>4-Bromofluorobenzene | 90%<br>87%<br>96%<br>94% | 91%<br>88%<br>99%<br>99% | 879<br>849<br>959<br>989 | 6<br>6  | 73-1269<br>61-1369<br>80-1259<br>65-1479 | 6<br>6   |     |                   |

## Page 1 of 1

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370 17<sup>th</sup> Street, Suite 2500 Denver, Colorado 80202 303-605-1893 - main 303-605-1957 - fax

August 31, 2007

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

W-15 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



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

Mr. Daniel Dick August 23, 2007 Page 2

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. Mr. Daniel Dick August 23, 2007 Page 3

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

Muchael H. Stewart

Michael H. Stewart, PE Principal Engineer

MHS/tbm

attachment

TABLES

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| Well   | Well<br>Elevation<br>(Top of Casing) | Well<br>Depth<br>(TOC) | Well<br>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 1 – Linam Ranch Gas Plant Well Construction Summary

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| Well   | Depth to<br>Water | Depth to<br>Product | Free Phase<br>Hydrocarbon<br>Thickness | Corrected<br>Water Table<br>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  | Inac              | ccessible bed       | cause of safety co                     | oncerns                               |
| MW-13  | 50.68             |                     |                                        | 3673.31                               |

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

Notes: All units in feet

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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 | 12/1/92 5/22/94 5/17/95 11/14/95 |                 | 1/17/96 | 4/24/96         | 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          | 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 | 3676.28 3674.68                  |                 | 3676.23 | 3675.37         | 3676.23 3675.37 3674.45 3674.63 3674.19 3673.67 3673.76 3675.21 3675.41 3676.71 3676.99 | 3674.63 | 3674.19 | 3673.67                                                 | 3673.76 | 3675.21 | 3675.41 | 3676.71 | 3676.99 |
| MW-2   |         | 3682.29 | 3682.29 3673.49                  |                 |         |                 | 3673.19                                                                                 | :       | 3672.80 | 3672.80 3672.37 3672.41 3674.43 3672.68 3679.43 3674.05 | 3672.41 | 3674.43 | 3672.68 | 3679.43 | 3674.05 |
| MW-3   |         | 3671.47 | 3671.47 3670.72                  | 3671.30         |         | 3671.13 3670.47 | 3670.47                                                                                 |         | 3669.96 | 3669.96 3669.80 3669.59 3669.68 3669.51 3669.68 3669.48 | 3669.59 | 3669.68 | 3669.51 | 3669.68 | 3669.48 |
| MW-4   | 3677.10 | 3676.96 | 3677.10 3676.96 3675.43 3675.75  | 3675.75         | 3676.27 | 3675.50         | 3676.27 3675.50 3674.29 3674.12 3674.52 3673.76 3674.45 3675.44 3675.81 3676.07 3675.39 | 3674.12 | 3674.52 | 3673.76                                                 | 3674.45 | 3675.44 | 3675.81 | 3676.07 | 3675.39 |
| MW-5   | 3677.65 | 3677.33 | 3677.65 3677.33 3675.43 3676.62  | 3676.62         | 3676.23 | 3675.51         | 3676.23 3675.51 3674.35 3673.96 3674.74 3674.21 3674.84 3675.47 3675.84 3675.86 3675.24 | 3673.96 | 3674.74 | 3674.21                                                 | 3674.84 | 3675.47 | 3675.84 | 3675.66 | 3675.24 |
| MW-6   | 3676.87 | 3676.70 | 3676.87 3676.70 3674.87 3676.80  | 3676.80         | 3676.18 | 3676.37         | 3676.18 3676.37 3674.21 3673.91 3674.21 3673.59 3673.84 3674.86 3675.11 3675.61 3674.75 | 3673.91 | 3674.21 | 3673.59                                                 | 3673.84 | 3674.86 | 3675.11 | 3675.61 | 3674.75 |
| MW-8   |         | 3674.83 | 3674.83 3672.73                  |                 | 3674.47 | 3673.36         | 3674.47 3673.36 3672.78 3672.04 3671.87 3671.61 3671.48 3672.56 3671.93 3674.66 3672.60 | 3672.04 | 3671.87 | 3671.61                                                 | 3671.48 | 3672.56 | 3671.93 | 3674.66 | 3672.60 |
| MW-9   |         | 3672.89 | 3672.89 3671.88 3672.46          |                 | 3672.64 | 3672.40         | 3672.64 3672.40 3671.52 3671.14 3671.00 3670.90 3670.67 3670.89 3670.78 3670.92 3670.86 | 3671.14 | 3671.00 | 3670.90                                                 | 3670.67 | 3670.89 | 3670.78 | 3670.92 | 3670.86 |
| MW-10  |         |         | 3672.45                          | 3672.45 3673.05 | 3673.08 | 3672.75         | 3673.08 3672.75 3671.78 3671.41 3671.33 3671.22 3671.02 3671.39 3671.24 3671.53 3671.36 | 3671.41 | 3671.33 | 3671.22                                                 | 3671.02 | 3671.39 | 3671.24 | 3671.53 | 3671.36 |
| MW-10D |         |         | 3672.16                          | 3672.16 3672.91 | 3672.81 | 3672.36         | 3672.81 3672.36 3671.43 3671.07 3671.13 3670.99 3670.78 3671.03 3670.98 3671.29 3670.97 | 3671.07 | 3671.13 | 3670.99                                                 | 3670.78 | 3671.03 | 3670.98 | 3671.29 | 3670.97 |
| MW-11  |         |         | 3673.03                          | 3673.03 3674.19 | 3673.88 | 3673.31         | 3673.88 3673.31 3672.21 3671.81 3672.01 3671.88 3671.68 3672.06 3672.09 3672.47 3672.22 | 3671.81 | 3672.01 | 3671.88                                                 | 3671.68 | 3672.06 | 3672.09 | 3672.47 | 3672.22 |
| MW-12  |         |         | 3672.37                          | 3672.37 3673.32 | 3673.25 | 3672.75         | 3673.25 3672.75 3671.74 3671.40 3671.34 3671.18 3671.00 3671.59 3671.33 3671.86 3671.50 | 3671.40 | 3671.34 | 3671.18                                                 | 3671.00 | 3671.59 | 3671.33 | 3671.86 | 3671.50 |
| MW-13  |         |         | 3672.02                          | 3672.02 3672.57 | 3672.66 | 3672.34         | 3672.66 3672.34 3671.43 3671.05 3670.93 3670.80 3670.60 3670.94 3670.74 3671.04 3670.88 | 3671.05 | 3670.93 | 3670.80                                                 | 3670.60 | 3670.94 | 3670.74 | 3671.04 | 3670.88 |
|        |         |         |                                  |                 |         |                 |                                                                                         |         |         |                                                         |         |         |         |         |         |

| Well        | 8/2/01  | 3/11/02 | 3/11/02 9/25/02 | 3/8/03                                                                                          | 9/17/03 | 3/16/04 | 8/17/04 | 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 | 9/29/05 | 3/22/06 | 9/21/06 | 3/20/07 |
|-------------|---------|---------|-----------------|-------------------------------------------------------------------------------------------------|---------|---------|---------|------------------------------------------------------------------------|---------|---------|---------|---------|
|             |         |         |                 |                                                                                                 |         |         |         |                                                                        |         |         |         |         |
| MW-1        | 3674.81 |         | 3674.43         | 3674.04 3674.43 3674.32 3673.80 3674.30 3676.59 3682.86 3684.83 3684.08 3682.25 3677.05         | 3673.80 | 3674.30 | 3676.59 | 3682.86                                                                | 3684.83 | 3684.08 | 3682.25 | 3677.05 |
| MW-2        | 3672.69 |         | 3672.26         | 3672.07 3672.26 3672.21 3671.69 3671.26 3679.10 3679.39 3678.22 3676.04 3681.68 3674.88         | 3671.69 | 3671.26 | 3679.10 | 3679.39                                                                | 3678.22 | 3676.04 | 3681.68 | 3674.88 |
| <b>MW-3</b> | 3669.31 | 3669.14 | 3669.03         | 3669.31 3669.14 3669.03 3669.06 3668.87 3668.63 3669.00 3671.37 3671.52 3671.63 3672.00 3671.45 | 3668.87 | 3668.63 | 3669.00 | 3671.37                                                                | 3671.52 | 3671.63 | 3672.00 | 3671.45 |
| MW-4        | 3674.80 |         | 3675.13         | 3674.59 3675.13 3674.60 3674.16 3674.04 3675.77 3681.85 3682.38 3682.04 3680.94 3677.98         | 3674.16 | 3674.04 | 3675.77 | 3681.85                                                                | 3682.38 | 3682.04 | 3680.94 | 3677.98 |
| MW-5        | 3674.82 | 3675.07 | 3674.99         | 3675.07 3674.99 3674.81 3674.32 3674.32 3674.32 3680.24 3680.65 3680.66 3680.23 3678.70         | 3674.32 | 3674.32 | 3674.32 | 3680.24                                                                | 3680.65 | 3680.66 | 3680.23 | 3678.70 |
| MW-6        | 3674.15 |         | 3674.61         | 3674.30 3674.61 3674.12 3673.55 3673.07 3674.68 3680.13 3677.46 3677.42 3677.37 3677.70         | 3673.55 | 3673.07 | 3674.68 | 3680.13                                                                | 3677.46 | 3677.42 | 3677.37 | 3677.70 |
| MW-8        | 3671.26 | 3671.51 | 3671.59         | 3671.26 3671.51 3671.59 3671.59 3670.71 3670.67 3673.30 3676.74 3677.01 3675.71 3677.09 3674.32 | 3670.71 | 3670.67 | 3673.30 | 3676.74                                                                | 3677.01 | 3675.71 | 3677.09 | 3674.32 |
| 0-WM        | 3670.62 |         | 3670.61         | 3670.61 3670.61 3670.68 3670.48 3670.15 3670.28 3673.36 3673.66 3674.00 3673.41 3673.42         | 3670.48 | 3670.15 | 3670.28 | 3673.36                                                                | 3673.66 | 3674.00 | 3673.41 | 3673.42 |
| MW-10       | 3671.06 | 3671.10 | 3671.13         | 3671.10 3671.13 3671.17 3670.87 3670.52 3670.84 3674.42 3674.35 3674.69 3674.13 3673.99         | 3670.87 | 3670.52 | 3670.84 | 3674.42                                                                | 3674.35 | 3674.69 | 3674.13 | 3673.99 |
| MW-10D      | 3670.76 | 3670.84 | 3670.81         | 3670.84 3670.81 3670.85 3670.46 3670.28 3670.51 3673.72 3674.03 3674.05 3673.75 3674.92         | 3670.46 | 3670.28 | 3670.51 | 3673.72                                                                | 3674.03 | 3674.05 | 3673.75 | 3674.92 |
| MW-11       | 3671.79 |         | 3672.05         | 3672.02 3672.05 3672.00 3671.49 3671.02 3671.67 3675.45 3675.54 3675.68 3675.30 3674.52         | 3671.49 | 3671.02 | 3671.67 | 3675.45                                                                | 3675.54 | 3675.68 | 3675.30 | 3674.52 |
| MW-12       | 3671.07 | 3671.01 | 3671.09         | 3671.07 3671.01 3671.09 3671.15 3670.81 3670.36 3671.10 3674.97 3674.46 3674.64 3674.52 3673.31 | 3670.81 | 3670.36 | 3671.10 | 3674.97                                                                | 3674.46 | 3674.64 | 3674.52 | 3673.31 |
| MW-13       | 3670.58 | 3670.50 | 3670.50         | 3670.58 3670.50 3670.50 3670.57 3670.32 3669.95 3670.31 3673.69 3673.61 3673.56 3673.50 3677.05 | 3670.32 | 3669.95 | 3670.31 | 3673.69                                                                | 3673.61 | 3673.56 | 3673.50 | 3677.05 |

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| 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 du | e to safety conce | erns    |
| MW-13    | < 0.001 | < 0.001    | < 0.001           | < 0.001 |

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

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

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

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|              |           |           |       |           |           |           |            | -         | -         |           |           |           |           |          |           |           |              |                      | -        |           |                                     |           |           |               |                        |           |               |                        |                  |                      | nstal                                                                                                                                                     |
|--------------|-----------|-----------|-------|-----------|-----------|-----------|------------|-----------|-----------|-----------|-----------|-----------|-----------|----------|-----------|-----------|--------------|----------------------|----------|-----------|-------------------------------------|-----------|-----------|---------------|------------------------|-----------|---------------|------------------------|------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------|
| MW-13        |           |           |       |           |           | <0.001    | 0.003      | <0.001    | <0.001    | 0.048     | 0.132     | 0.082     | 0.061     | 0.082    | 0.062     | 0.08      | 0.04         | 0.023                | 0.002    | <0.001    | <0.001                              | <0.001    | <0.005    | <0.001        | <0.001                 | <0.001    | <0.001        | <0.001                 | <0.001           | <0.001               | ither not i                                                                                                                                               |
| MW-12        |           |           |       |           |           | <0.001    | <0.001     | <0.001    | <0.001    | <0.001    | 0.001     | <0.001    | 0.002     | 0.001    | 0.003     | <0.001    | <0.005       | <0.001               | <0.001   | <0.001    | <0.001                              | <0.001    | <0.005    | <0.001        | <0.001                 | <0.001    | <0.001        | <0.005                 | <0.001           | NS                   | nat were e                                                                                                                                                |
| MW-11        |           |           |       |           |           | <0.001    | 0.306      | 0.549     | 0.52      | 0.267     | 0.164     | 0.291     | 0.061     | 0.018    | 0.005     | 0.02      | 0.009        | 0.013                | 0.002    | 0.005     | 0.002                               | <0.001    | <0.005    | <0.001        | 0.003                  | 0.0264    | <0.001        | <0.001                 | <0.001           | <0.001               | for wells t                                                                                                                                               |
| MW-10D MW-11 |           |           |       |           |           | 0.096     | 0.125      | 0.841     | 8.14      | 0.365     | 0.221     | <0.001    | 0.184     | 0.009    | 0.036     | 0.014     | <0.005       | <0.005               | <0.001   | 0.002     | <0.001                              | <0.005    | <0.005    | <0.001        | 0.011                  | 0.107     | 0.0703        | 0.224                  | 0.0537           | 0.0736               | ote samples                                                                                                                                               |
| MW-10        |           |           |       |           |           | 3.225     | 5.23       | 6.11      | 6.94      | 6.41      | 5.63      | 7.03      | 7.18      | 4.87     | 5.58      | 2.35      | 3.11         | 1.23                 | 1.64     | 3.26      | 3.48                                | 4.21      | 1.34      | 0.456         | 1.3                    | 3.91      | 1.67          | 1.48                   | 1.19             | 1.13                 | nk cells no                                                                                                                                               |
| 6-MM         |           |           |       |           |           | <0.001    | <0.001     | 0.001     | <0.001    | <0.001    | <0.001    | <0.001    | <0.001    | 0.011    | <0.005    | 0.014     | 0.036        | <0.005               | 0.038    | 0.048     | 0.071                               | 0.077     | <0.005    | <0.001        | <0.001                 | 0.0061    | <0.001 0.0029 | 0.0023                 | 0.001            | <0.001               | cerns. Bla                                                                                                                                                |
| MW-8         |           |           |       |           | <0.001    | <0.001    |            |           |           |           |           |           |           |          | <0.001    | <0.005    | 0.002        | <0.005               | <0.001   | <0.001    | <0.001                              | <0.001    | <0.005    | <0.001 <0.001 | <0.001                 | <0.001    |               | <0.001 0.0023          | <0.001           | <0.001 <0.001 <0.001 | ifety conc                                                                                                                                                |
| MW-6 MW-7    |           |           |       |           |           | <0.001    |            |           |           |           |           |           |           |          | <0.005    | <0.005    | <0.005       | <0.005               | <0.005   | <0.001    | <0.005                              | <0.005    | <0.001    | <0.001        | <0.001                 | <0.001    | <0.001        | <0.001                 | <0.001           | <0.001               | due to sa                                                                                                                                                 |
|              |           |           | 0.34  | 0.52      | 0.77      | 0.98      |            |           |           |           |           |           |           |          |           |           |              |                      | _        |           | 1.29                                | 0.16      |           |               |                        |           |               |                        |                  |                      | sampled                                                                                                                                                   |
| MW-5         |           |           | 0.003 | 0.009     | 0.300     | 060.0     |            |           |           |           |           |           |           |          | 0.137     | 0.068     | <0.005       | <0.005               | <0.005   | 0.062     | 0.381                               | 0.079     | 0.116     | 0.146         | 0.012                  | 0.262     | 0.63          | 0.569                  | 1.06             | 0.252                | NS: Not                                                                                                                                                   |
| MW-3 MW-4    |           | 0.21      | 10.0  | 17.0      | 18.0      | 20.9      |            |           |           |           |           |           |           |          |           |           |              |                      |          | 17.9      | 18.8                                | 16.9      | 15.8      | 17.8          | 16.6                   |           |               |                        |                  |                      | eraged.                                                                                                                                                   |
|              | 100.02    | 100.0>    |       |           |           | <0.001    |            |           |           |           |           |           |           | <0.001   | <0.001    | <0.001    | <0.005       | <0.005               | 0.002    | <0.001    | 1 < 0.001                           | <0.001    | <0.001    | <0.001        | <0.001                 | <0.001    | <0.001        | <0.001                 | <0.001           | 1 <0.001             | tes are av                                                                                                                                                |
| MW-2         | 100.02    | 100.0>    |       |           |           | <0.001    |            |           |           |           |           |           |           |          | <0.005    | <0.005    | <0.001       | <0.005 <0.005 <0.005 | 0.007    | <0.001    | <0.001                              | <0.001    | <0.001    | <0.001        | <0.001                 | <0.001    | <0.001        | <0.001                 | <0.001           | <0.001               | icate valı                                                                                                                                                |
| MW-1         | 0.0052    |           |       | 0.0013    | 0.0039    | <0.002    |            |           |           |           |           |           |           |          | <0.005    | <0.005    | <0.001 <0.00 | <0.005               | 0.003    | <0.001    | <0.005                              | <0.001    | <0.001    | <0.001 <0.00  | <0.001                 | <0.001    | 0.0067        | 0.0028                 | 0.0011           | <0.001 <0.00         | and dupl                                                                                                                                                  |
| Date         | 1001/00/0 | 1661/07/6 |       | 12/2/1992 | 1/12/1994 | 5/17/1995 | 11/14/1995 | 1/17/1996 | 4/24/1996 | 1/22/1997 | 8/15/1997 | 1/22/1998 | 7/20/1998 | 2/9/1999 | 8/25/1999 | 2/22/2000 | 8/18/2000    | 2/7/2001             | 8/2/2001 | 3/11/2002 | <u>9/25/2002 &lt;0.005 &lt;0.00</u> | 3/10/2003 | 9/17/2003 | 3/16/2004     | 8/18/2004 <0.001 <0.00 | 3/15/2005 | 9/29/2005     | 3/22/2006 0.0028 <0.00 | 9/21/2006 0.0011 | 3/20/2007            | 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 |

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

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

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| Date                                             | MW-1        | MW-2          | MW-3          | MW-4  | MW-5   | 9-MM  | <u>MW-2</u> <u>MW-3</u> <u>MW-4</u> <u>MW-5</u> <u>MW-6</u> <u>MW-7</u> <u>MW-8</u> |                      | 6-MM   | MW-10  | MW-10D MW-11 MW-12 | MW-11  |        | 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                                                                | <0.001               | <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                                        |             |               |               |       |        |       |                                                                                     | - <u>·</u>           | <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        | 005 <0.001    |       | 0.262  |       | <0.005                                                                              | <0.005 <0.001 <0.005 | <0.005 | 0.557  | 0.001              | <0.001 | <0.001 | <0.001 |
| 2/22/2000                                        | <0.005      | 0.0           | 005 <0.001    |       | 0.13   |       | <0.005                                                                              | <0.005 <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      | ?             | 005 <0.005    | _     | 0.084  |       | <0.005                                                                              | <0.005 <0.005 <0.005 | <0.005 | 0.102  | <0.005             | <0.001 | <0.001 | <0.005 |
| 8/2/2001                                         | <0.001 <0.0 | <0.001        | 001 < 0.001   |       | <0.005 |       | <0.005                                                                              | <0.005 <0.001 <0.001 | <0.001 | 0.119  | <0.001             | <0.001 | <0.001 | <0.001 |
| 3/11/2002                                        | <0.001      | <0.001        | 001 < 0.001   | 0.450 | 0.097  |       | <0.001                                                                              | <0.001 <0.001 <0.001 | <0.001 | 0.251  | <0.001             | <0.001 | <0.001 | <0.001 |
| 9/25/2002                                        | <0.005      | °0.0          | 100.0 > 100   | 0.526 | 0.588  | 0.134 | <0.005 <0.001 <0.001                                                                | <0.001               | <0.001 | 0.290  | <0.001             | <0.001 | <0.001 | <0.001 |
| 3/10/2003                                        | <0.001      | 0.<br>0       | 001 <0.001    | 0.520 | 0.072  | 0.148 | <0.005 <0.001 <0.001                                                                | <0.001               | <0.001 | 0.303  | <0.005             | <0.001 | <0.001 | <0.001 |
| 9/17/2003                                        | <0.001      | <0.001        | 001 < 0.001   | 0.259 | 0.182  |       | <0.001                                                                              | <0.001 <0.005 <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        | <0.001 | 0.047  | <0.001             | <0.001 | <0.001 | <0.001 |
| 8/18/2004                                        | <0.001      | <0.001        | 001 < 0.001   | 0.403 | 0.081  |       | <0.001                                                                              | <0.001 <0.001 <0.001 | <0.001 | 0.119  | 0.001              | <0.001 | <0.001 | <0.001 |
| 3/15/2005                                        | <0.001      | <0.001        | 001 <0.001    |       | 0.309  |       | <0.001                                                                              | <0.001 <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 <0.001 | <0.001 | 0.238  | 0.0061             | <0.001 | <0.001 | <0.001 |
| 3/22/2006                                        | 0.0013      | <0.001 <0.001 | <0.001        |       | 0.239  |       | <0.001                                                                              | <0.001 <0.001 <0.001 | <0.001 | 0.241  | 0.0295             | <0.001 | <0.005 | <0.001 |
|                                                  | <0.001      | <0.001 <0.001 | <0.001        |       | 0.407  |       | <0.001                                                                              | <0.001 <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 0.0022 |       | 0.1975 |       | <0.001                                                                              | <0.001 <0.001 <0.001 | <0.001 | 0.222  | <0.001             | <0.001 |        | <0.001 |
| All units mg/l and duplicate values are averaged | and duplic  | cate value    | ss are ave    | raged |        |       |                                                                                     |                      |        |        |                    |        |        |        |

All units mg/l and upplicate 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

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| Date                                             | MW-1     | MW-2        | MW-3       | MW-4   | MW-5   | MW-6   | MW-7                        | MW-8          | 6-WM    | 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 | <0.005  | 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 | <0.005  | 0.086  | <0.005 | <0.001 | <0.001 | <0.005 |
| 8/2/2001                                         | <0.001   | <0.001      | <0.001     |        | <0.005 |        | <0.005                      | <0.005 <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      | <0.001     | 0.151  | <0.050 | <0.100 | <0.050 <0.100 <0.005 <0.001 | <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                      | <0.001 <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      | <0.001     | <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      | <0.001     |        | 0.298  |        | <0.001                      | <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                                 | 0.0017   | <0.001      | <0.001     |        | 0.178  |        | 0.0015                      | 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 | and dupl | icate value | ss are ave | raged  |        |        |                             |               |         |        |        |        |        |        |

All units mg/l and duplicate values are averaged Blank cells note samples for wells that were either not install or not sampled FIGURES

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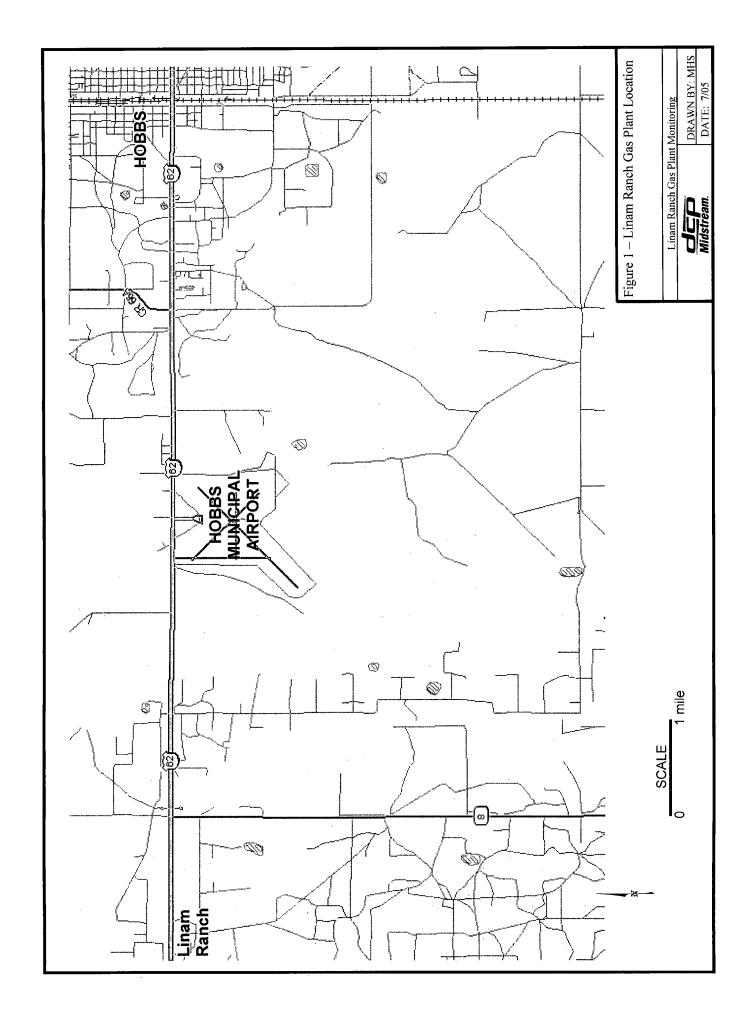
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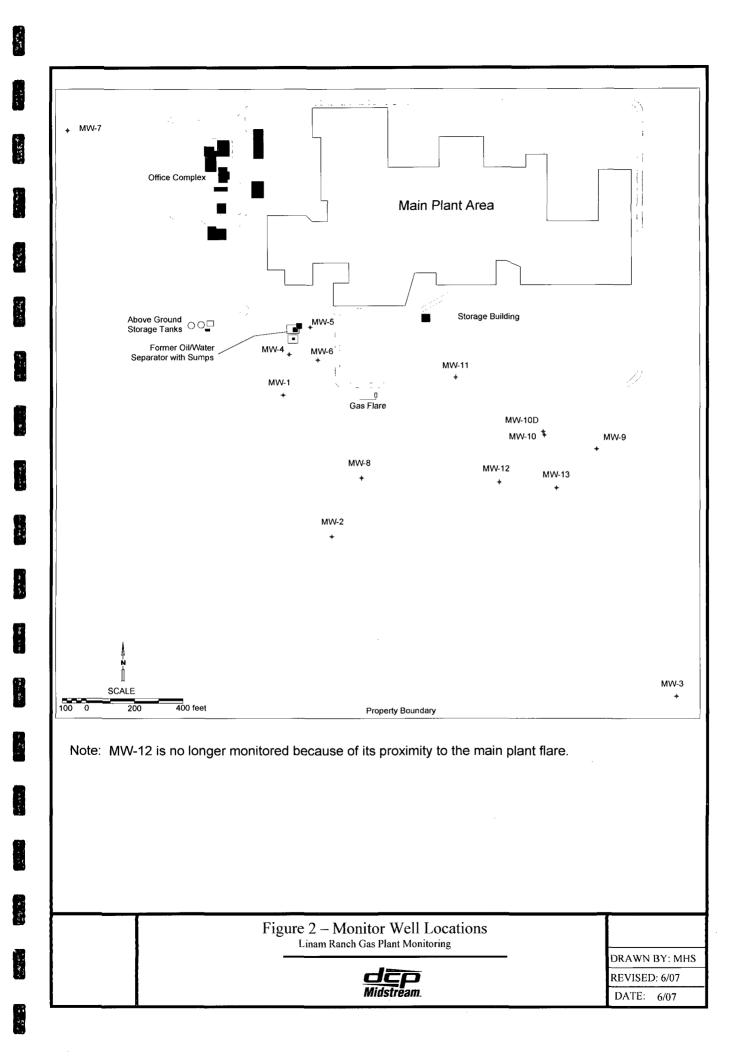


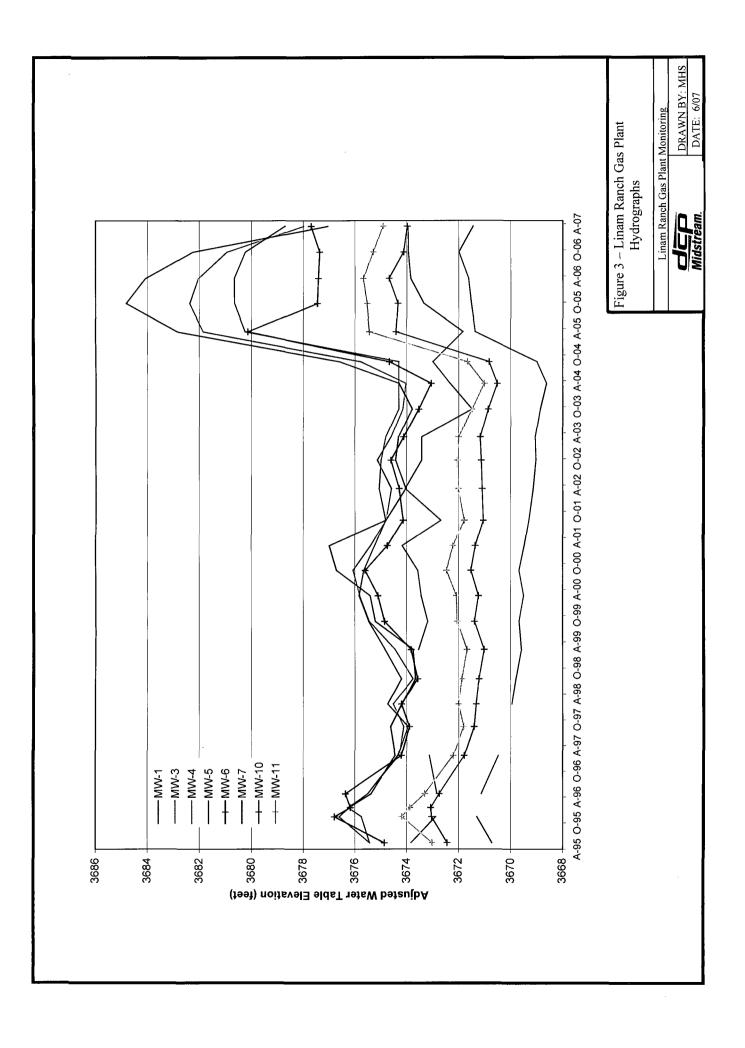
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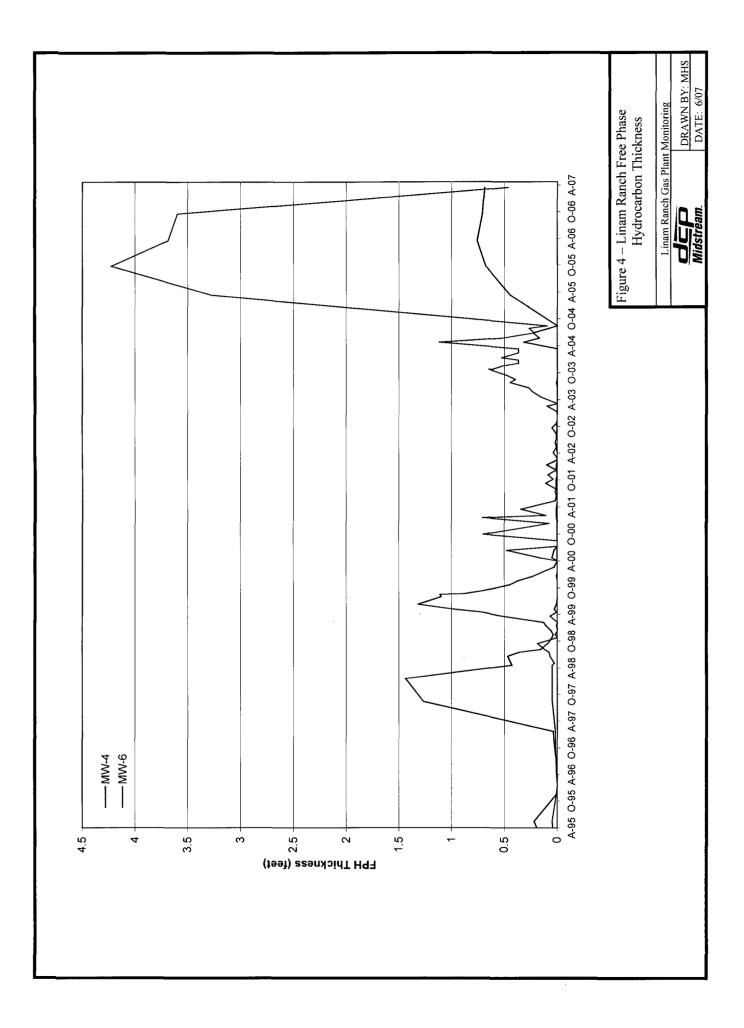


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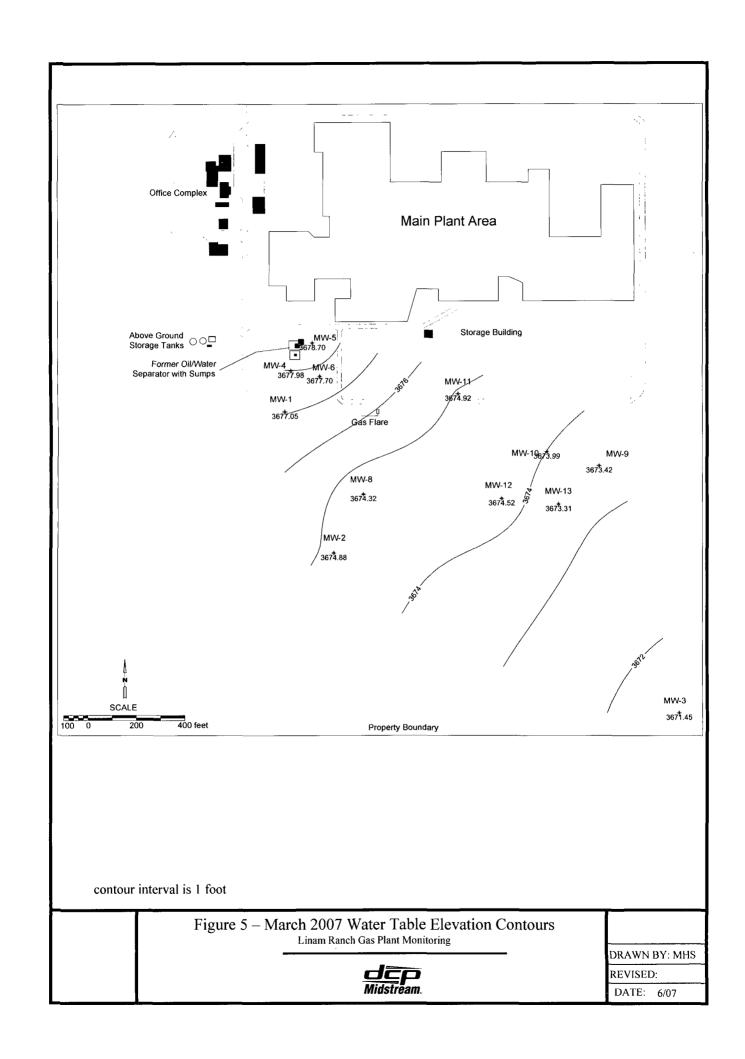
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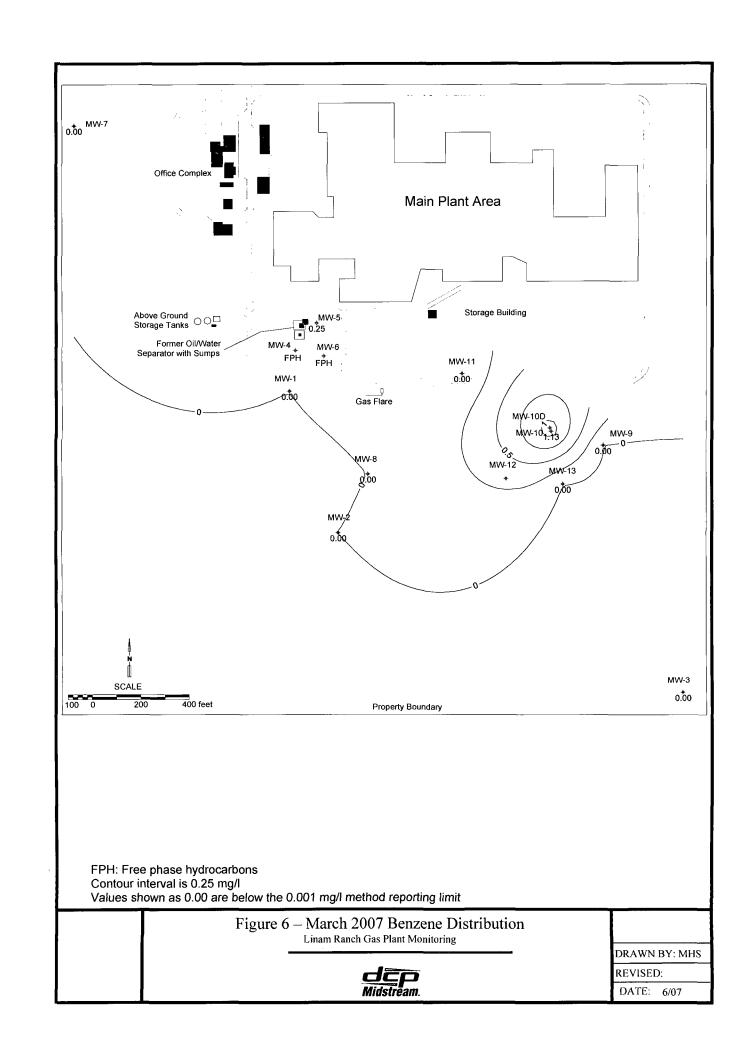
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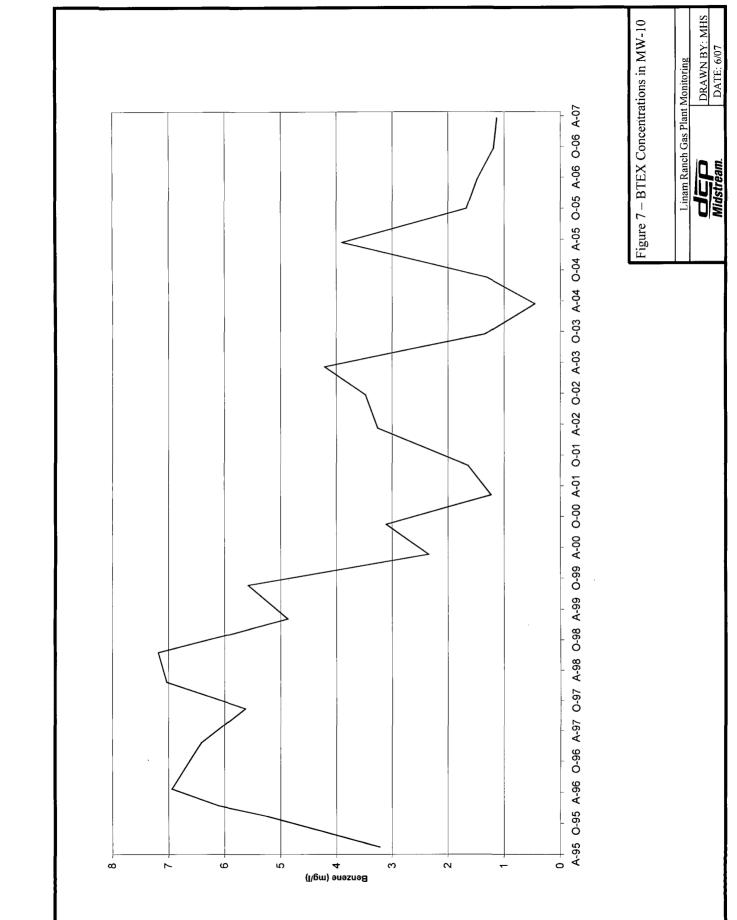
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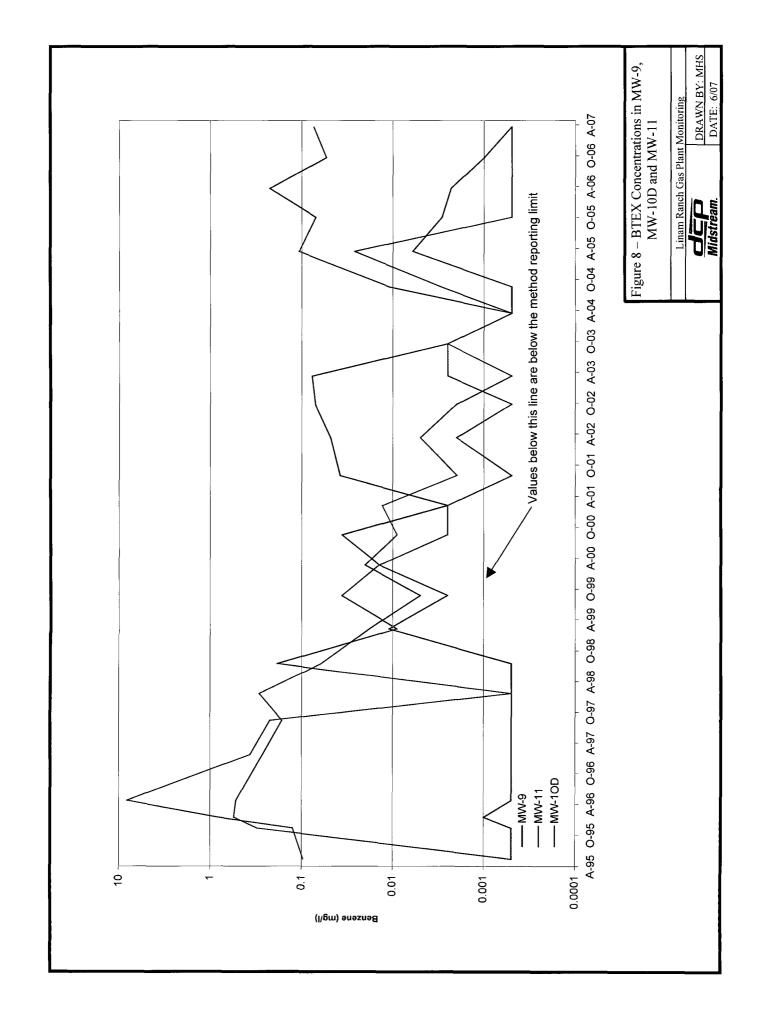
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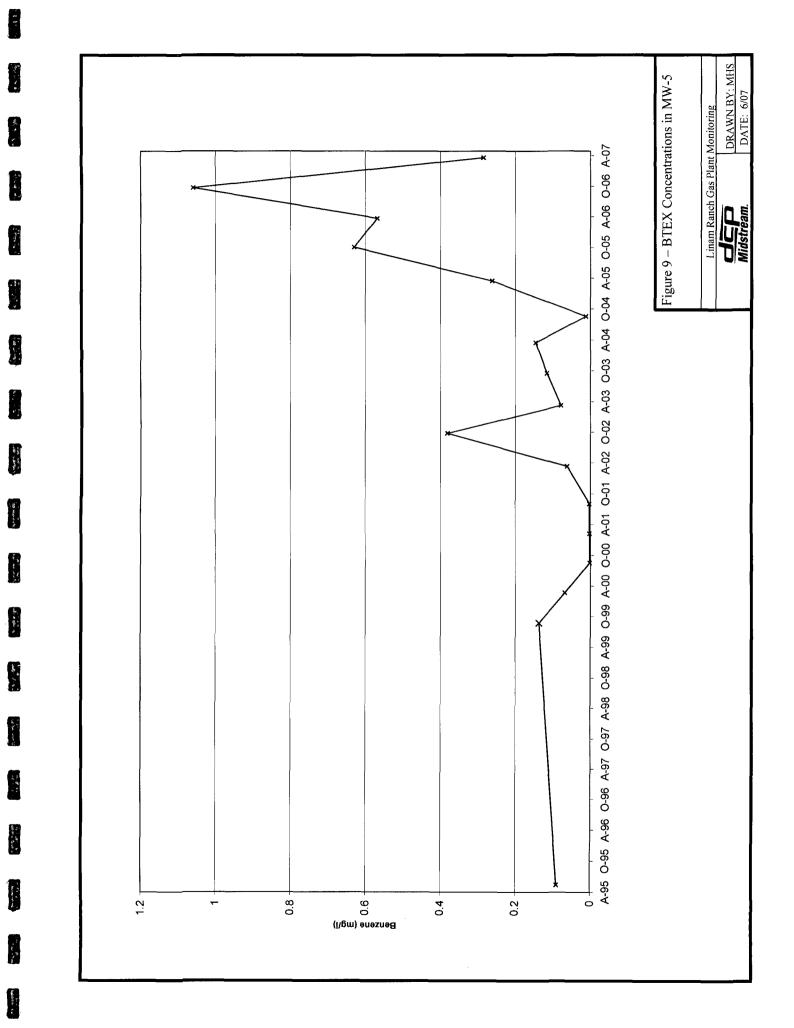
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# LABORATORY ANALYTICAL REPORT

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|                    | CLIENT:               | Duke En     | ergy Field             | Services     |            | WELL ID:    | MW-1                                       |
|--------------------|-----------------------|-------------|------------------------|--------------|------------|-------------|--------------------------------------------|
| S                  | TE NAME:              | Linam       | Ranch Gas              | Plant        |            | DATE:       | 3/20/2007                                  |
| PRC                | JECT NO.              |             | F-114                  |              | . 8        | SAMPLER:    | J. Fergerson                               |
|                    |                       |             |                        |              |            |             |                                            |
| PURGING            | METHOD:               |             | Hand Bai               | led 🗆 Pu     | mp If Pu   | mp, Type:   |                                            |
| SAMPLIN            | G METHO               | <b>)</b> :  | 🖸 Disposab             | le Bailer 🛛  | Direct     | from Discha | arge Hose 📋 Other:                         |
| DESCRIB            |                       | ENT DECO    | NTAMINATI              | ON METHO     | DD BEFO    | RE SAMPI    | ING THE WELL:                              |
| Glove              | s 🗆 Alcono            | x 🗌 Distill | ed Water Ri            | nse 🗆 C      | Other:     |             |                                            |
| DISPOSA            |                       | OF PURG     | E WATER:               | Surface      | e Discharç | ge 🗆 Drui   | ms 🔲 Disposal Facility                     |
| TOTAL D<br>DEPTH T | EPTH OF V<br>O WATER: | VELL:       | 54.20<br>43.13         | Feet<br>Feet |            |             |                                            |
| HEIGHT (           | OF WATER              | COLUMN:     | 11.07                  | Feet         |            | 5.4         | Minimum Gallons to<br>purge 3 well volumes |
|                    | METER:                |             | INCII                  |              |            |             | (Water Column Height x 0.49)               |
| TIME               | VOLUME<br>PURGED      | TEMP.<br>°C | COND.<br><i>m</i> S/cm | pН           | DO<br>mg\L | Turb        | PHYSICAL APPEARANCE AND<br>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           |             | 5.4                    | :Total Vol   |            | 0.23        | :Flow Rate (gal/min)                       |
|                    |                       | Collected S |                        | 070320       | 1245       |             |                                            |
|                    |                       | BTEX (802   | I-B)                   |              |            |             |                                            |
| COM                | IENTS:                |             |                        |              |            |             |                                            |

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|          | CLIENT:     | Duke En     | ergy Field    | Services   |            | WELL ID:    | MW-2                                                    |
|----------|-------------|-------------|---------------|------------|------------|-------------|---------------------------------------------------------|
| SI       | TE NAME:    | Linam       | Ranch Gas     | Plant      |            | DATE:       | 3/20/2007                                               |
| PRC      | JECT NO.    |             | F-114         |            | Ś          | SAMPLER:    | J. Fergerson                                            |
|          |             |             |               |            | -          |             |                                                         |
| PURGING  | B METHOD:   | l           | Hand Bai      | led 🗌 Pu   | mp If Pu   | mp, Type:   |                                                         |
| SAMPLIN  | G METHOD    | <b>)</b> :  | 🗹 Disposab    | le Bailer  | Direct f   | from Discha | arge Hose 🔲 Other:                                      |
| DESCRIB  |             | ENT DECO    | NTAMINATI     | ON METH    | OD BEFO    | RE SAMPL    | ING THE WELL:                                           |
| Glove:   | s 🗆 Alcono  | x 🛛 Distill | ed Water Ri   | nse 🗆 C    | Other:     |             |                                                         |
| DISPOSA  |             | OF PURG     | E WATER:      | Surface    | e Discharç | ge 🗌 Drui   | ms 🔲 Disposal Facility                                  |
|          |             |             | 50.50         |            |            |             |                                                         |
| DEPTH TO | O WATER:    | COLUMN      | 42.36<br>8.14 | Feet       |            | 4.0         | Minimum Gallons to                                      |
|          |             | 2.0         |               | i eet      |            |             | purge 3 well volumes                                    |
| r        | VOLUME      | TEMP.       | COND.         |            | DO         | <u>.</u>    | (Water Column Height x 0.49)<br>PHYSICAL APPEARANCE AND |
| TIME     | PURGED      |             | m S/cm        | рН         | mg\L       | Turb        | REMARKS                                                 |
| 14:00    | 0.0         | -           | -             | -          | _          | -           | Began Hand Bailing!                                     |
| 14:05    | 1.4         | 21.6        | 0.50          | 7.36       | -          | -           |                                                         |
|          | 2.8         | 20.3        | 0.48          | 7.27       | -          | -           | ·                                                       |
| 14:17    | 4.2         | 19.9        | 0.49          | 7.31       | -          | -           |                                                         |
|          |             |             |               |            |            |             |                                                         |
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|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
|          |             |             |               |            |            |             |                                                         |
| 0:17     | :Total Time | e (hr:min)  | 4.2           | :Total Vol | (gal)      | 0.25        | :Flow Rate (gal/min)                                    |
| SAMP     | LE NO.:     | Collected S | ample No.:    | 070320     | 1425       |             |                                                         |
| ANAL     | YSES:       | BTEX (802   | 1-B)          |            |            |             |                                                         |
| COM      |             |             |               |            |            |             |                                                         |
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|         | CLIENT:     | Duke En     | ergy Field             | Services   | _          | WELL ID:   | MW-3                                                    |
|---------|-------------|-------------|------------------------|------------|------------|------------|---------------------------------------------------------|
| S       | ITE NAME:   | Linam       | Ranch Gas              | s Plant    | _          | DATE:      | 3/20/2007                                               |
| PRC     | JECT NO.    |             | F-114                  |            | S          | SAMPLER    | J. Fergerson                                            |
|         |             |             |                        |            | -          |            |                                                         |
| PURGING | G METHOD:   |             | 🗹 Hand Bai             | led 🗌 Pu   | mp If Pu   | mp, Type:  |                                                         |
| SAMPLIN | G METHOD    | <b>D</b> :  | 🖸 Disposab             | le Bailer  | Direct     | from Disch | arge Hose 🛛 Other:                                      |
| DESCRIB |             | ENT DECO    | NTAMINATI              | ON METH    | OD BEFO    | RE SAMP    | LING THE WELL:                                          |
| Glove   | s 🗆 Alcono  | x 🗆 Distill | led Water Ri           | nse 🗆 C    | Other:     |            |                                                         |
| DISPOSA |             | OF PURG     | E WATER:               | Surface    | e Discharç | ge 🗌 Dru   | ms 🛛 Disposal Facility                                  |
| DEPTH T | O WATER:    |             | 55.30<br>46.25<br>9.05 | Feet       |            | 4.4        | Minimum Gallons to                                      |
|         | AMETER:     |             |                        |            |            |            | purge 3 well volumes                                    |
|         | VOLUME      | TEMP.       | COND.                  |            | DO         | <b>T</b>   | (Water Column Height x 0.49)<br>PHYSICAL APPEARANCE AND |
| TIME    | PURGED      | °C          | <i>m</i> S/cm          | pН         | mg\L       | Turb       | 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       | _          |            |                                                         |
|         | <u>-</u>    |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
| ·       |             |             |                        |            |            |            |                                                         |
|         |             |             |                        |            |            |            |                                                         |
| 0:16    | :Total Time | e (hr:min)  | 5.1                    | :Total Vol | (gal)      | 0.32       | :Flow Rate (gal/min)                                    |
| SAMP    | LE NO.:     | Collected S | ample No.:             | 070320     | 1635       |            |                                                         |
| ANAL    | YSES:       | BTEX (802   | 1-B)                   |            |            |            |                                                         |
| COM     | MENTS:      |             |                        |            |            |            |                                                         |
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|                     | CLIENT:              | Duke En      | ergy Field S           | Services    | _          | WELL ID:    | MW-5                               |
|---------------------|----------------------|--------------|------------------------|-------------|------------|-------------|------------------------------------|
| SI                  | TE NAME:             | Linam        | Ranch Gas              | Plant       | -          | DATE:       | 3/20/2007                          |
| PRC                 | JECT NO.             |              | F-114                  |             |            | SAMPLER:    | J. Fergerson                       |
|                     |                      |              |                        |             | -          |             |                                    |
| PURGING             |                      | :            | 🗹 Hand Bai             | led 🗆 Pu    | mp If Pu   | mp, Type:   |                                    |
| SAMPLIN             | G METHO              | D:           | 🗹 Disposab             | le Bailer 🛛 | Direct     | from Discha | arge Hose 📋 Other:                 |
| DESCRIB             | E EQUIPM             | ENT DECO     | NTAMINATI              | ON METHO    | OD BEFC    | RE SAMPI    | LING THE WELL:                     |
| Glove:              | s 🗆 Alconc           | ox 🗆 Distill | ed Water Ri            | nse 🗆 C     | Other:     |             |                                    |
| DISPOSA             |                      | OF PURG      | E WATER:               | Surface     | e Dischar  | ge 🗌 Dru    | ms 🗵 Disposal Facility             |
| DEPTH T<br>HEIGHT ( | O WATER:<br>DF WATER |              | 10.30                  | Feet        |            | 20.2        | Minimum Gallons to                 |
|                     |                      |              | MON                    |             |            |             | (Water Column Height x 1.96)       |
| TIME                | VOLUME<br>PURGED     |              | COND.<br><i>m</i> S/cm | pН          | DO<br>mg\L | Turb        | PHYSICAL APPEARANCE AND<br>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        | -          |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
|                     |                      |              |                        | <u> </u>    |            |             |                                    |
|                     |                      |              |                        | <u> </u>    |            |             |                                    |
|                     |                      |              |                        |             |            |             |                                    |
| 0:27                | :Total Time          | · · · · ·    |                        | :Total Vol  |            | 0.78        | :Flow Rate (gal/min)               |
|                     | LE NO.:              |              | ample No.:             | 070321      | 1330       |             |                                    |
|                     | YSES:                | BTEX (802    |                        |             |            |             |                                    |
| COMN                | /IENTS:              | Collected L  | uplicate Sar           | npie No.: ( | 07032019   | OU FOR BIE  | Х (8021-В)                         |

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|                      | CLIENT:              | Duke En     | ergy Field                     | Services    | _          | WELL ID:    | MW-7                                                                       |
|----------------------|----------------------|-------------|--------------------------------|-------------|------------|-------------|----------------------------------------------------------------------------|
| SI                   | TE NAME:             | Linam       | Ranch Gas                      | Plant       | _          | DATE:       | 3/20/2007                                                                  |
| PRO                  | JECT NO.             |             | F-114                          |             |            | SAMPLER:    | J. Fergerson                                                               |
|                      |                      |             |                                |             | _          |             |                                                                            |
| PURGING              | METHOD:              | 1           | ☑ Hand Bai                     | led 🗆 Pu    | mp If Pu   | mp, Type:   |                                                                            |
| SAMPLIN              | G METHO              | <b>)</b> :  | ☑ Disposab                     | le Bailer 🛛 | Direct     | from Discha | arge Hose 🛛 Other:                                                         |
| DESCRIB              | E EQUIPM             | ENT DECO    | NTAMINATI                      | ON METH     | OD BEFO    | RE SAMPI    | ING THE WELL:                                                              |
| Gloves               | s 🗆 Alcono           | x 🗌 Distill | ed Water Ri                    | nse 🗆 C     | Other:     |             |                                                                            |
| DISPOSA              |                      | OF PURG     | E WATER:                       | Surface     | e Discharç | ge 🗌 Drui   | ms 🛯 Disposal Facility                                                     |
| DEPTH TO<br>HEIGHT O | O WATER:<br>DF WATER |             | 62.50<br>56.88<br>5.62<br>Inch | Feet        |            | 2.8         | Minimum Gallons to<br>purge 3 well volumes<br>(Water Column Height x 0.49) |
| TIME                 | VOLUME               |             | COND.                          | pН          | DO         | Turb        | PHYSICAL APPEARANCE AND                                                    |
|                      | PURGED               |             | <i>m</i> S/cm                  |             | mg\L_      |             | 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        |            | -           |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      | <u>-</u>    |                                |             |            |             |                                                                            |
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|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
|                      |                      |             |                                |             |            |             |                                                                            |
| 0:13                 | :Total Time          | e (hr:min)  | 3                              | :Total Vol  | (gal)      | 0.23        | :Flow Rate (gal/min)                                                       |
| SAMPI                |                      | Collected S | ample No.:                     | 070320      |            |             |                                                                            |
| ANAL                 |                      | BTEX (802   |                                |             |            |             |                                                                            |
| COMM                 | MENTS:               |             |                                |             |            |             |                                                                            |

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| CLIENT: Duke Ene                                                                                                                     |                  |                                   | ergy Field Services    |       | WELL ID:   |       | MW-8                               |  |  |
|--------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------------|------------------------|-------|------------|-------|------------------------------------|--|--|
| SITE NAME: Linam Rancl                                                                                                               |                  |                                   | Ranch Gas              | Plant | _          | DATE: | 3/20/2007                          |  |  |
| PROJECT NO. F-114                                                                                                                    |                  |                                   |                        |       | 5          |       | J. Fergerson                       |  |  |
|                                                                                                                                      |                  |                                   |                        |       | -          |       |                                    |  |  |
| PURGING METHOD: 🛛 Hand Bailed 🗌 Pump If Pump, Type:                                                                                  |                  |                                   |                        |       |            |       |                                    |  |  |
| SAMPLING METHOD:  I Disposable Bailer I Direct from Discharge Hose I 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 FeetDEPTH TO WATER:41.86 FeetHEIGHT OF WATER COLUMN:16.44 FeetWELL DIAMETER:4.0 InchWELL DIAMETER:4.0 Inch |                  |                                   |                        |       |            |       |                                    |  |  |
| TIME                                                                                                                                 | VOLUME<br>PURGED |                                   | COND.<br><i>m</i> S/cm | pН    | DO<br>mg\L | Turb  | PHYSICAL APPEARANCE AND<br>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  |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
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|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
|                                                                                                                                      |                  |                                   |                        |       |            |       |                                    |  |  |
| 0:41                                                                                                                                 | :Total Time      | /                                 |                        |       |            |       |                                    |  |  |
| SAMPLE NO.:                                                                                                                          |                  | Collected Sample No.: 070320 1525 |                        |       |            |       |                                    |  |  |
| ANALYSES:<br>COMMENTS:                                                                                                               |                  | BTEX (8021-B)                     |                        |       |            |       |                                    |  |  |
| COM                                                                                                                                  | /IENTS:          |                                   |                        |       |            |       |                                    |  |  |

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| CLIENT: Duke Energy Fie                                                                                                                                  |                  |                                       | ergy Field             | Services | _          | WELL ID: | MW-9                                  |  |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|---------------------------------------|------------------------|----------|------------|----------|---------------------------------------|--|--|
|                                                                                                                                                          |                  |                                       | Linam Ranch Gas Plant  |          |            |          |                                       |  |  |
| PROJECT NO F-114                                                                                                                                         |                  |                                       |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
| PURGING METHOD:  I 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 FeetDEPTH TO WATER:49.06 FeetHEIGHT OF WATER COLUMN:10.04 FeetWELL DIAMETER:2.0 InchURL DIAMETER:2.0 InchURL DIAMETER:2.0 Inch |                  |                                       |                        |          |            |          |                                       |  |  |
| TIME                                                                                                                                                     | VOLUME<br>PURGED |                                       | COND.<br><i>m</i> S/cm | pН       | DO<br>mg\L | Turb     | PHYSICAL APPEARANCE AND<br>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     |            | -        |                                       |  |  |
|                                                                                                                                                          |                  | <u></u>                               |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          | · · · · · · · · · · · · · · · · · · · |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  | · · · · · · · · · · · · · · · · · · · |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
| ·                                                                                                                                                        |                  | ····-                                 |                        |          |            |          |                                       |  |  |
|                                                                                                                                                          |                  |                                       |                        |          |            |          |                                       |  |  |
| 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)                                                                                                                                  |                  |                                       |                        |          |            | <u></u>  |                                       |  |  |
| COMN                                                                                                                                                     |                  |                                       |                        |          |            | ·····    |                                       |  |  |

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| CLIENT: Duke Energy                                                             |                                                                         |                 | ergy Field             | Services |              | WELL ID:  | MW-10                                      |  |  |  |
|---------------------------------------------------------------------------------|-------------------------------------------------------------------------|-----------------|------------------------|----------|--------------|-----------|--------------------------------------------|--|--|--|
| SITE NAME: Linam                                                                |                                                                         | Ranch Gas Plant |                        |          |              | 3/20/2007 |                                            |  |  |  |
| PROJECT NO                                                                      |                                                                         |                 |                        |          | 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                                                                        | DEPTH TO WATER: 48.91 Feet                                              |                 |                        |          |              | 24 5      | Minimum College to                         |  |  |  |
| HEIGHT OF WATER COLUMN: 16.09 Feet<br>WELL DIAMETER: 4.0 Inch                   |                                                                         |                 |                        | reet     |              | 31.5      | Minimum Gallons to<br>purge 3 well volumes |  |  |  |
|                                                                                 | -                                                                       |                 |                        |          | <u> </u>     |           | (Water Column Height x 1.96)               |  |  |  |
| TIME                                                                            | VOLUME<br>PURGED                                                        | TEMP.<br>°C     | COND.<br><i>m</i> S/cm | рН       | DO<br>mg\L   | Turb      | PHYSICAL APPEARANCE AND<br>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     | -            |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 | i                                                                       |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
|                                                                                 |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
| 0:46                                                                            | 0:46 :Total Time (hr:min) 33 :Total Vol (gal) 0.71 :Flow Rate (gal/min) |                 |                        |          |              |           |                                            |  |  |  |
| SAMPLE NO.: Collected Sample No.: 070321 1005                                   |                                                                         |                 |                        |          |              |           |                                            |  |  |  |
| ANAL                                                                            | YSES:                                                                   | BTEX (8021-B)   |                        |          |              |           |                                            |  |  |  |
| COMM                                                                            | IENTS:                                                                  |                 |                        | ·        |              |           |                                            |  |  |  |

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|          | CLIENT:              | Duke En     | ergy Field     | Services     |            | WELL ID:   | MW-10d                                                  |
|----------|----------------------|-------------|----------------|--------------|------------|------------|---------------------------------------------------------|
| S        |                      |             | Ranch Gas      |              |            |            | 3/20/2007                                               |
| PRO      | DJECT NO.            |             | F-114          |              |            | SAMPLER:   | J. Fergerson                                            |
|          |                      |             |                |              |            |            |                                                         |
| PURGING  | G METHOD             | :           | Hand Bai       | led 🗆 Pu     | mp If Pu   | mp, Type:  |                                                         |
| SAMPLIN  | IG METHO             | D:          | 🗹 Disposab     | le Bailer    | Direct     | from Disch | arge Hose 🛛 Other:                                      |
| DESCRIE  | BE EQUIPM            | ENT DECO    | NTAMINATI      | ON METHO     | OD BEFO    | RE SAMPI   | ING THE WELL:                                           |
| Glove    | s 🗌 Alcond           | 🛛 🗆 Distill | ed Water Ri    | nse 🗆 C      | Other:     | -          |                                                         |
| DISPOSA  |                      | OF PURG     | E WATER:       | Surface      | e Discharç | ge 🗌 Dru   | ms 🗹 Disposal Facility                                  |
| TOTAL D  | EPTH OF V            | VELL:       | 79.00          | Feet         |            |            |                                                         |
| HEIGHT   | O WATER:<br>OF WATER | COLUMN:     | 50.12<br>28.88 | Feet<br>Feet |            | 14.1       | Minimum Gallons to                                      |
|          | AMETER:              |             |                |              |            |            | purge 3 well volumes                                    |
| TINAT    | VOLUME               | TEMP.       | COND.          |              | DO         | Turk       | (Water Column Height x 0.49)<br>PHYSICAL APPEARANCE AND |
|          | PURGED               | °C          | <i>m</i> S/cm  | рН           | mg\L       | Turb       | 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         | -          | -          | ·····                                                   |
|          |                      |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |
| <u> </u> |                      |             |                |              |            |            |                                                         |
| ┝───     |                      |             |                |              |            |            |                                                         |
| <u> </u> |                      |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |
| 0:36     | I<br>:Total Time     | e (hr:min)  | 14             | :Total Vol ( | L(gal)     | 0.39       | I<br>:Flow Rate (gal/min)                               |
| SAMP     | LE NO.:              | Collected S | ample No.:     | 070321       |            |            | , <u></u> , <u></u> _,                                  |
| ANAI     | YSES:                | BTEX (802   | 1-B)           |              |            |            |                                                         |
| COM      | MENTS:               |             |                |              |            |            |                                                         |
|          |                      |             |                |              |            |            |                                                         |

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|          | CLIENT:               | Duke En       | ergy Field             | Services     | WELL ID:  |            | MW-11                                                |
|----------|-----------------------|---------------|------------------------|--------------|-----------|------------|------------------------------------------------------|
| S        | ITE NAME:             | Linam         | Ranch Gas              | Plant        |           | DATE:      | 3/20/2007                                            |
| PRC      | JECT NO.              |               | F-114                  |              | SAMPLER:  |            | J. Fergerson                                         |
|          |                       |               |                        |              | -         |            |                                                      |
| PURGING  | METHOD                | :             | ☑ Hand Bai             | led 🗌 Pu     | mp If Pur | mp, Type:  |                                                      |
| SAMPLIN  | G METHO               | D:            | 🗹 Disposab             | le Bailer    | Direct f  | rom Discha | arge Hose 🛛 Other:                                   |
| DESCRIB  | E EQUIPM              | ENT DECO      | NTAMINATI              | ON METHO     | DD BEFO   | RE SAMPL   | ING THE WELL:                                        |
| ☑ Glove  | s 🗆 Alconc            | ox 🛛 Distill  | ed Water Ri            | nse 🗆 C      | Other:    |            |                                                      |
| DISPOSA  |                       | ) of purg     | E WATER:               | Surface      | Discharg  | je 🗆 Drur  | ns 🔲 Disposal Facility                               |
| TOTAL D  | EPTH OF V<br>O WATER: | VELL:         | 62.80<br>49.61         | Feet<br>Feet |           |            |                                                      |
|          |                       | COLUMN:       | 13.19                  | Feet         |           | 25.8       | Minimum Gallons to                                   |
| WELL DIA | AMELER:               | 4.0           | Inch                   |              |           |            | purge 3 well volumes<br>(Water Column Height x 1.96) |
| TIME     | VOLUME                |               | COND.                  | pН           | DO        | Turb       | PHYSICAL APPEARANCE AND<br>REMARKS                   |
| 11:14    | PURGED<br>0.0         | <b>℃</b><br>- | <u><i>m</i> S/cm</u> - | -            | mg\L<br>- |            | Began Hand Bailing!                                  |
| 11:22    | 9.0                   | 20.7          | 1.29                   | 7.19         | -         | _          | bogan na bainng.                                     |
| 11:31    | 18.0                  | 20.8          | 1.28                   | 7.19         | -         |            |                                                      |
| 11:40    | 27.0                  | 20.7          | 1.28                   | 7.25         | _         |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          | [                     |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           | • <u></u>  |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           | <u> </u>   |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |
| 0:26     | :Total Time           | e (hr:min)    | 27                     | :Total Vol ( | (gal)     | 1.03       | :Flow Rate (gal/min)                                 |
| SAMP     | LE NO.:               | Collected S   | ample No.:             | 070321       | 1145      |            |                                                      |
| ANAL     | YSES:                 | BTEX (802     | 1-B)                   |              |           |            |                                                      |
| COM      | MENTS:                |               |                        |              |           |            |                                                      |
|          |                       |               |                        |              |           |            |                                                      |

C:\DCP-Linam Ranch\Purge & Sample

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|                     | CLIENT:              | Duke En      | ergy Field                     | Services     |            | WELL ID:           | MW-12                                                                      |
|---------------------|----------------------|--------------|--------------------------------|--------------|------------|--------------------|----------------------------------------------------------------------------|
| S                   | ITE NAME:            | Linam        | Ranch Gas                      | s Plant      |            | DATE:              | 3/20/2007                                                                  |
| PRO                 | DJECT NO.            |              | F-114                          |              |            | SAMPLER:           | J. Fergerson                                                               |
|                     |                      |              |                                |              | -          |                    |                                                                            |
| PURGING             | G METHOD             | :            | Hand Bai                       | iled 🗆 Pu    | mp If Pu   | mp, Type:          |                                                                            |
| SAMPLIN             | IG METHOI            | D:           | 🖸 Disposab                     | ole Bailer 🛛 | ] Direct   | arge Hose 🛛 Other: |                                                                            |
| DESCRIE             | BE EQUIPM            | ENT DECO     | NTAMINATI                      | ON METHO     | DD BEFC    | RE SAMPI           | LING THE WELL:                                                             |
| ☑ Glove             | s 🗌 Alcono           | ox 🛛 Distill | ed Water Ri                    | nse 🗆 C      | Other:     |                    |                                                                            |
| DISPOSA             |                      | OF PURG      | E WATER:                       | Surface      | e Dischar  | ge 🗌 Drui          | ms 🗹 Disposal Facility                                                     |
| DEPTH T<br>HEIGHT ( | O WATER:<br>OF WATER |              | 58.30<br>48.32<br>9.98<br>Inch | Feet         |            | 19.5               | Minimum Gallons to<br>purge 3 well volumes<br>(Water Column Height x 1.96) |
| TIME                | VOLUME<br>PURGED     |              | COND.<br><i>m</i> S/cm         | pН           | DO<br>mg\L | Turb               | PHYSICAL APPEARANCE AND<br>REMARKS                                         |
|                     | 0.0                  | -            | -                              | -            | -          | -                  | Began Hand Bailing!                                                        |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                | _            |            |                    | -                                                                          |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    | ·····                                                                      |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
|                     |                      |              |                                |              |            |                    |                                                                            |
| 0:00                | :Total Time          | e (hr:min)   | 0                              | :Total Vol ( | (gal)      | #DIV/0!            | :Flow Rate (gal/min)                                                       |
|                     | LE NO.:              | Collected S  |                                | 070320       |            |                    |                                                                            |
|                     | YSES:                | BTEX (802    |                                |              |            |                    |                                                                            |
| COMN                | MENTS:               | Did Not Ga   | uge and Pur                    | ge Monitori  | ing Well!  |                    |                                                                            |

C:\DCP-Linam Ranch\Purge & Sample

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|                                                                     | CLIENT:              | Duke En        | ergy Field             | Services     |            | WELL ID:  | MW-13                                                                      |  |  |  |  |
|---------------------------------------------------------------------|----------------------|----------------|------------------------|--------------|------------|-----------|----------------------------------------------------------------------------|--|--|--|--|
| SI                                                                  | TE NAME:             | Linam          | Ranch Gas              | Plant        |            | DATE:     | 3/20/2007                                                                  |  |  |  |  |
| PRC                                                                 | JECT NO.             |                | F-114                  |              | . 8        | SAMPLER:  | J. Fergerson                                                               |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
| PURGING                                                             | METHOD               | :              | Hand Bai               | led 🗆 Pu     | mp If Pu   | mp, Type: |                                                                            |  |  |  |  |
| SAMPLIN                                                             | G METHO              | <b>D</b> :     | arge Hose 🛛 Other:     |              |            |           |                                                                            |  |  |  |  |
| DESCRIBE EQUIPMENT DECONTAMINATION METHOD BEFORE SAMPLING THE WELL: |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
| Gloves Alconox Distilled Water Rinse Other:                         |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
| DISPOSA                                                             |                      | OF PURG        | E WATER:               | Surface      | Discharg   | ge 🗆 Dru  | ms 🛯 Disposal Facility                                                     |  |  |  |  |
| DEPTH TO<br>HEIGHT (                                                | O WATER:<br>DF WATER | COLUMN:<br>4.0 |                        | Feet         |            | 24.1      | Minimum Gallons to<br>purge 3 well volumes<br>(Water Column Height x 1.96) |  |  |  |  |
| TIME                                                                | VOLUME<br>PURGED     |                | COND.<br><i>m</i> S/cm | pН           | DO<br>mg\L | Turb      | PHYSICAL APPEARANCE AND<br>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         | -          |           | · · · · · · · · · · · · · · · · · · ·                                      |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
| <u> </u>                                                            |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           |                                                                            |  |  |  |  |
|                                                                     |                      |                |                        |              |            |           | <u></u>                                                                    |  |  |  |  |
|                                                                     |                      |                |                        |              |            | ·····     |                                                                            |  |  |  |  |
| 0:28                                                                | :Total Time          | e (hr:min)     | 25                     | :Total Vol ( | (gal)      | 0.89      | :Flow Rate (gal/min)                                                       |  |  |  |  |
| SAMP                                                                | LE NO.:              | Collected S    | ample No.:             | 070320       | 1810       |           |                                                                            |  |  |  |  |
| ANAL                                                                | YSES:                | BTEX (802      | 1-B)                   |              |            |           |                                                                            |  |  |  |  |
| COMN                                                                | IENTS:               | Collected M    | IS/MSD San             | nples!       |            |           |                                                                            |  |  |  |  |

6701 Aberdeen Avenue, Suite 9 200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

Lubbock, Texas 79424 El Paso, Texas 79922 Midland, Texas 79703 E-Mail: lab@traceanalysis.com

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806 • 794 • 1296 FAX 806 • 794 • 1298 915 • 585 • 3443 FAX 915 • 585 • 4944 FAX 432 • 689 • 6313 432 • 689 • 6301 817 • 201 • 5260

# Analytical and Quality Control Report

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

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19.5

Report Date: March 30, 2007



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.

|        |                        | -      | , Date     | Time  | Date       |
|--------|------------------------|--------|------------|-------|------------|
| Sample | Description            | Matrix | Taken      | Taken | 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 April

Dr. Blair Leftwich, Director

### Standard Flags

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 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

# **Analytical Report**

### Sample: 119800 - MW-7 (0703201200)

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| Analysis:BTEXQC Batch:35881Prep Batch:31139 | -    | Analytical M<br>Date Analyze<br>Sample Prep | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed<br>Prepared | By: ss              |
|---------------------------------------------|------|---------------------------------------------|-------|-------------------------------------|--------|-----------------------------------|---------------------|
|                                             |      | R                                           | L     |                                     |        |                                   |                     |
| Parameter Flag                              |      | $\operatorname{Resul}$                      | lt    | Units                               | Ι      | Dilution                          | $\operatorname{RL}$ |
| Benzene                                     |      | < 0.0010                                    | 0     | m mg/L                              |        | 1                                 | 0.00100             |
| Toluene                                     |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                 | 0.00100             |
| Ethylbenzene                                |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                 | 0.00100             |
| Xylene                                      |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                 | 0.00100             |
|                                             |      |                                             |       |                                     | Spike  | Percent                           | Recovery            |
| Surrogate                                   | Flag | $\mathbf{Result}$                           | Units | Dilution                            | Amount | Recovery                          | Limits              |
| Trifluorotoluene (TFT)                      |      | 0.0912                                      | mg/L  | 1                                   | 0.100  | 91                                | 23.9 - 107.4        |
| 4-Bromofluorobenzene (4-BFB)                |      | 0.0806                                      | mg/L  |                                     | 0.100  | 81                                | 22.2 - 104.5        |

#### Sample: 119801 - MW-1 (0703201245)

| Analysis:BTEXQC Batch:35881Prep Batch:31139 |      |      | Analytical M<br>Date Analyz<br>Sample Prep | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed I<br>Prepared I | By: ss              |
|---------------------------------------------|------|------|--------------------------------------------|-------|-------------------------------------|--------|---------------------------------------|---------------------|
|                                             |      |      | R                                          | L     |                                     |        |                                       |                     |
| Parameter                                   | Flag |      | $\operatorname{Resul}$                     | lt    | Units                               | Ľ      | Dilution                              | $\operatorname{RL}$ |
| Benzene                                     |      |      | < 0.0010                                   | 0     | mg/L                                |        | 1                                     | 0.00100             |
| Toluene                                     |      |      | < 0.0010                                   | 0     | mg/L                                |        | 1                                     | 0.00100             |
| Ethylbenzene                                |      |      | < 0.0010                                   | 0     | mg/L                                |        | 1                                     | 0.00100             |
| Xylene                                      |      |      | < 0.0010                                   | 0     | mg/L                                |        | 1                                     | 0.00100             |
|                                             |      |      |                                            |       |                                     | Spike  | Percent                               | Recovery            |
| Surrogate                                   |      | Flag | Result                                     | Units | Dilution                            | Amount | Recovery                              | Limits              |
| Trifluorotoluene (TFT)                      |      |      | 0.0927                                     | mg/L  | 1                                   | 0.100  | 93                                    | 23.9 - 107.4        |
| 4-Bromofluorobenzene (4-I                   | 3FB) |      | 0.0715                                     | mg/L  | 1                                   | 0.100  | 72                                    | 22.2 - 104.5        |

#### Sample: 119802 - MW-5 (0703201330)

| Analysis:<br>QC Batch:<br>Prep Batch: | BTEX<br>35881<br>31139 |                 | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | S 8021B<br>2007-03-26<br>2007-03-26 | Prep Method:<br>Analyzed By:<br>Prepared By: | S 5030B<br>ss<br>ss |
|---------------------------------------|------------------------|-----------------|-------------------------------------------------------------|-------------------------------------|----------------------------------------------|---------------------|
|                                       |                        |                 | $\operatorname{RL}$                                         |                                     |                                              |                     |
| Parameter                             |                        | $\mathbf{Flag}$ | $\mathbf{Result}$                                           | Units                               | Dilution                                     | $\mathbf{RL}$       |
| Benzene                               |                        |                 | 0.285                                                       | mg/L                                | 1                                            | 0.00100             |
| Toluene                               |                        |                 | < 0.00100                                                   | $\mathrm{mg/L}$                     | 1                                            | 0.00100             |
| Ethylbenzene                          | е                      |                 | 0.220                                                       | mg/L                                | 1                                            | 0.00100             |
| Xylene                                |                        |                 | 0.0157                                                      | mg/L                                | 1                                            | 0.00100             |

Report Date: March 30, 2007 Linam Ranch Gas Plant/Duke Energy Field Services

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Work Order: 7032346 Linam Ranch Gas Plant

| Surrogate                    | Flag | $\operatorname{Result}$ | Units | Dilution | Spike<br>Amount | Percent<br>Recovery | Recovery<br>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:BTEXQC Batch:35881Prep Batch:31139 |                  | Analytical M<br>Date Analyz<br>Sample Prep | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed I<br>Prepared E | By: ss              |
|---------------------------------------------|------------------|--------------------------------------------|-------|-------------------------------------|--------|---------------------------------------|---------------------|
|                                             |                  | R                                          | L     |                                     |        |                                       |                     |
| Parameter Flag                              | g                | $\operatorname{Resu}$                      | lt    | Units                               |        | Dilution                              | $\operatorname{RL}$ |
| Benzene                                     |                  | < 0.0010                                   | )0    | mg/L                                |        | 1                                     | 0.00100             |
| Toluene                                     |                  | < 0.0010                                   | )0    | $\mathrm{mg/L}$                     |        | 1                                     | 0.00100             |
| Ethylbenzene                                |                  | 0.0022                                     | 20    | $\mathrm{mg/L}$                     |        | 1                                     | 0.00100             |
| Xylene                                      |                  | < 0.0010                                   | )0    | mg/L                                |        | 1                                     | 0.00100             |
|                                             |                  |                                            |       |                                     | Spike  | Percent                               | Recovery            |
| Surrogate                                   | $\mathbf{F}$ lag | $\mathbf{Result}$                          | Units | Dilution                            | Amount | Recovery                              | Limits              |
| Trifluorotoluene (TFT)                      |                  | 0.0917                                     | mg/L  | 1                                   | 0.100  | 92                                    | 23.9 - 107.4        |
| 4-Bromofluorobenzene (4-BFB)                |                  | 0.0721                                     | mg/L  |                                     | 0.100  | 72                                    | 22.2 - 104.5        |

#### Sample: 119804 - MW-8 (0703201525)

| Analysis:BTEXQC Batch:35881Prep Batch:31139 |      |      | Analytical M<br>Date Analyze<br>Sample Prepa | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed<br>Prepared 1 | By: ss              |
|---------------------------------------------|------|------|----------------------------------------------|-------|-------------------------------------|--------|-------------------------------------|---------------------|
|                                             |      |      | RJ                                           | Ĺ     |                                     |        |                                     |                     |
| Parameter                                   | Flag |      | Resul                                        | t     | Units                               |        | Dilution                            | $\operatorname{RL}$ |
| Benzene                                     |      |      | < 0.0010                                     | 0     | mg/L                                |        | 1                                   | 0.00100             |
| Toluene                                     |      |      | < 0.0010                                     | 0     | mg/L                                |        | 1                                   | 0.00100             |
| Ethylbenzene                                |      |      | < 0.0010                                     | 0     | mg/L                                |        | 1                                   | 0.00100             |
| Xylene                                      |      |      | < 0.0010                                     | 0     | mg/L                                |        | 1                                   | 0.00100             |
|                                             |      |      |                                              |       |                                     | Spike  | Percent                             | Recovery            |
| Surrogate                                   |      | Flag | $\mathbf{Result}$                            | Units | Dilution                            | Amount | Recovery                            | Limits              |
| Trifluorotoluene (TFT)                      |      |      | 0.0938                                       | mg/L  | 1                                   | 0.100  | 94                                  | 23.9 - 107.4        |
| 4-Bromofluorobenzene (4-l                   | BFB) |      | 0.0737                                       | mg/L  | 1                                   | 0.100  | 74                                  | 22.2 - 104.5        |

#### Sample: 119805 - MW-3 (0703201635)

| 1                      |               | 1 4 1 4 | r                                                          |                       | 1. 1                         |               |
|------------------------|---------------|---------|------------------------------------------------------------|-----------------------|------------------------------|---------------|
| Benzene                |               |         | <0.00100                                                   | m mg/L                | 1                            | 0.00100       |
| Parameter              |               | Flag    | $egin{array}{c} \mathbf{RL} \ \mathbf{Result} \end{array}$ | Units                 | Dilution                     | $\mathbf{RL}$ |
| Prep Batch:            |               |         | Sample Preparation:                                        |                       | Prepared By:                 |               |
| Analysis:<br>QC Batch: | BTEX<br>35881 |         | Analytical Method:<br>Date Analyzed:                       | S 8021B<br>2007-03-26 | Prep Method:<br>Analyzed By: |               |

<sup>1</sup>High surrogate recovery due to peak interference.

continued ...

sample 119805 continued ...

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|                            |                       | R        | $\mathbf{L}$ |                 |        |          |               |
|----------------------------|-----------------------|----------|--------------|-----------------|--------|----------|---------------|
| Parameter                  | Flag                  | Resu     | lt           | Units           | E      | Dilution | $\mathbf{RL}$ |
| Toluene                    |                       | < 0.0010 | 00           | mg/L            |        | 1        | 0.00100       |
| Ethylbenzene               |                       | < 0.0010 | 00           | $\mathrm{mg/L}$ |        | 1        | 0.00100       |
| Xylene                     |                       | < 0.0010 | 00           | mg/L            |        | 1        | 0.00100       |
|                            |                       |          |              |                 | Spike  | Percent  | Recovery      |
| Surrogate                  | $\operatorname{Flag}$ | Result   | Units        | Dilution        | Amount | Recovery | Limits        |
| Triffuorotoluene (TFT)     | <u></u>               | 0.0925   | mg/L         | 1               | 0.100  | 92       | 23.9 - 107.4  |
| 4-Bromofluorobenzene (4-BF | ̈́Β)                  | 0.0705   | m mg/L       | 1               | 0.100  | 70       | 22.2 - 104.5  |

#### Sample: 119806 - MW-9 (0703201715)

| Analysis:<br>QC Batch:<br>Prep Batch: | BTEX<br>35881<br>31139 |      | Analytical M<br>Date Analyz<br>Sample Prep | ed:             | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed 1<br>Prepared I | By: ss        |
|---------------------------------------|------------------------|------|--------------------------------------------|-----------------|-------------------------------------|--------|---------------------------------------|---------------|
|                                       |                        |      | R                                          | $\mathbf{L}$    |                                     |        |                                       |               |
| Parameter                             | $\operatorname{Flag}$  |      | Resu                                       | lt              | Units                               |        | Dilution                              | $\mathbf{RL}$ |
| Benzene                               |                        |      | < 0.0010                                   | 0               | mg/L                                |        | 1                                     | 0.00100       |
| Toluene                               |                        |      | < 0.0010                                   | 0               | mg/L                                |        | 1                                     | 0.00100       |
| Ethylbenzene                          |                        |      | < 0.0010                                   | 0               | mg/L                                |        | 1                                     | 0.00100       |
| Xylene                                |                        |      | 0.0075                                     | 0               | mg/L                                |        | 1                                     | 0.00100       |
|                                       |                        |      |                                            |                 |                                     | Spike  | Percent                               | Recovery      |
| Surrogate                             |                        | Flag | $\mathbf{Result}$                          | Units           | Dilution                            | Amount | Recovery                              | Limits        |
| Trifluorotolue                        | ne (TFT)               |      | 0.0819                                     | mg/L            | 1                                   | 0.100  | 82                                    | 23.9 - 107.4  |
| 4-Bromofluor                          | obenzene (4-BFB)       |      | 0.0792                                     | $\mathrm{mg/L}$ |                                     | 0.100  | 79                                    | 22.2 - 104.5  |

#### Sample: 119807 - MW-13 (0703201810)

| Analysis:BTQC Batch:358Prep Batch:311 |                 |      | Analytical M<br>Date Analyze<br>Sample Prep | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Metho<br>Analyzed E<br>Prepared B | By: ss        |
|---------------------------------------|-----------------|------|---------------------------------------------|-------|-------------------------------------|--------|----------------------------------------|---------------|
|                                       |                 |      | R                                           | L     |                                     |        |                                        |               |
| Parameter                             | $\mathbf{Flag}$ |      | Resul                                       | lt    | $\mathbf{Units}$                    |        | Dilution                               | $\mathbf{RL}$ |
| Benzene                               |                 | -    | <0.0010                                     | 0     | mg/L                                |        | 1                                      | 0.00100       |
| Toluene                               |                 |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                      | 0.00100       |
| Ethylbenzene                          |                 |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                      | 0.00100       |
| Xylene                                |                 |      | < 0.0010                                    | 0     | mg/L                                |        | 1                                      | 0.00100       |
|                                       |                 |      |                                             |       |                                     | Spike  | Percent                                | Recovery      |
| Surrogate                             |                 | Flag | Result                                      | Units | Dilution                            | Amount | Recovery                               | Limits        |
| Trifluorotoluene (                    | (TFT)           |      | 0.0938                                      | mg/L  | 1                                   | 0.100  | 94                                     | 23.9 - 107.4  |
| 4-Bromofluorober                      | nzene (4-BFB)   |      | 0.0624                                      | mg/L  | 1                                   | 0.100  | 62                                     | 22.2 - 104.5  |

#### Sample: 119808 - Duplicate (0703201900)

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| QC Batch: 3     | BTEX<br>35881<br>31139 |      | Analytical M<br>Date Analyze<br>Sample Prep | ed:   | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed I<br>Prepared F | By: ss    | 30B           |
|-----------------|------------------------|------|---------------------------------------------|-------|-------------------------------------|--------|---------------------------------------|-----------|---------------|
|                 |                        |      | $\mathbf{R}$                                | L     |                                     |        |                                       |           |               |
| Parameter       | Flag                   |      | Resul                                       | lt    | $\mathbf{Units}$                    | ]      | Dilution                              |           | $\mathbf{RL}$ |
| Benzene         |                        |      | 0.21                                        | 8     | mg/L                                |        | 5                                     | 0.00      | )100          |
| Toluene         |                        |      | < 0.0050                                    | 0     | mg/L                                |        | 5                                     | 0.00      | )100          |
| Ethylbenzene    |                        |      | 0.17                                        | 5     | mg/L                                |        | 5                                     | 0.00      | )100          |
| Xylene          |                        |      | 0.028                                       | 5     | mg/L                                |        | 5                                     | 0.00      | 0100          |
|                 |                        |      |                                             |       |                                     | Spike  | Percent                               | Recove    | ery           |
| Surrogate       |                        | Flag | $\mathbf{Result}$                           | Units | Dilution                            | Amount | Recovery                              | Limit     | S             |
| Trifluorotoluen | e (TFT)                |      | 0.426                                       | mg/L  | 5                                   | 0.500  | 85                                    | 23.9 - 10 | 07.4          |
| 4-Bromofluorol  | benzene (4-BFB)        |      | 0.315                                       | mg/L  |                                     | 0.500  | 63                                    | 22.2 - 10 | 04.5          |

### Sample: 119809 - MW-10 (0703211005)

| Analysis:<br>QC Batch:<br>Prep Batch: | BTEX<br>35881<br>31139 |      | Analytical Me<br>Date Analyze<br>Sample Prepa | ed:             | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Metl<br>Analyzed<br>Prepared | By: | S 5030B<br>ss<br>ss |
|---------------------------------------|------------------------|------|-----------------------------------------------|-----------------|-------------------------------------|--------|-----------------------------------|-----|---------------------|
|                                       |                        |      | $\operatorname{RL}$                           |                 |                                     |        |                                   |     |                     |
| Parameter                             | Flag                   |      | $\mathbf{Result}$                             |                 | $\mathbf{Units}$                    | ]      | Dilution                          |     | $\mathbf{RL}$       |
| Benzene                               |                        |      | 1.13                                          |                 | mg/L                                |        | 10                                |     | 0.00100             |
| Toluene                               |                        |      | 0.212                                         |                 | mg/L                                |        | 10                                |     | 0.00100             |
| Ethylbenzene                          |                        |      | 0.222                                         |                 | $\mathrm{mg/L}$                     |        | 10                                |     | 0.00100             |
| Xylene                                |                        |      | 0.279                                         |                 | m mg/L                              |        | 10                                |     | 0.00100             |
|                                       |                        |      |                                               |                 |                                     | Spike  | Percent                           | j   | Recovery            |
| Surrogate                             |                        | Flag | Result                                        | Units           | Dilution                            | Amount | Recovery                          |     | Limits              |
| Trifluorotolue                        | ne (TFT)               |      | 0.865                                         | mg/L            | 10                                  | 1.00   | 86                                | 23  | 3.9 - 107.4         |
| 4-Bromofluor                          | obenzene (4-BFB)       |      | 0.933                                         | $\mathrm{mg/L}$ | 10                                  | 1.00   | 93                                | 22  | 2.2 - 104.5         |

#### Sample: 119810 - MW-10d (0703211105)

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| Analysis:<br>QC Batch:<br>Prep Batch: | BTEX<br>35881<br>31139 |      | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | S 8021B<br>2007-03-26<br>2007-03-26 | Prep Method:<br>Analyzed By:<br>Prepared By: | S 5030B<br>ss<br>ss |
|---------------------------------------|------------------------|------|-------------------------------------------------------------|-------------------------------------|----------------------------------------------|---------------------|
|                                       |                        |      | $\mathbf{RL}$                                               |                                     |                                              |                     |
| Parameter                             |                        | Flag | $\mathbf{Result}$                                           | Units                               | Dilution                                     | $\mathbf{RL}$       |
| Benzene                               |                        |      | 0.0736                                                      | mg/L                                | 10                                           | 0.00100             |
| Toluene                               |                        |      | 0.0563                                                      | mg/L                                | 10                                           | 0.00100             |
| Ethylbenzene                          | <u>e</u>               |      | < 0.0100                                                    | mg/L                                | 10                                           | 0.00100             |
| Xylene                                |                        |      | < 0.0100                                                    | mg/L                                | 10                                           | 0.00100             |

Report Date: March 30, 2007 Linam Ranch Gas Plant/Duke Energy Field Services

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Work Order: 7032346 Linam Ranch Gas Plant

| Surrogate                    |            | Flag    | Result            | Units    | Dilution   | Spike<br>Amount | Percent<br>Recovery | Recovery<br>Limits |
|------------------------------|------------|---------|-------------------|----------|------------|-----------------|---------------------|--------------------|
| Trifluorotoluene (TF         | ,          |         | 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 (070 | )321114 | 5)                |          |            |                 |                     |                    |
| Analysis: BTEX               | -<br>-     | A       | Analytical M      | ethod:   | S 8021B    |                 | Prep Metl           | hod: S 5030B       |
| QC Batch: 35881              |            | Ι       | Date Analyz       | ed:      | 2007-03-26 |                 | Analyzed            | By: ss             |
| Prep Batch: 31139            |            | S       | ample Prep        | aration: | 2007-03-26 |                 | Prepared            | By: ss             |
|                              |            |         | R                 | Ĺ        |            |                 |                     |                    |
| Parameter                    | Flag       |         | Resul             | t        | Units      | D               | ilution             | RL                 |
| Benzene                      |            |         | < 0.0010          | 0        | mg/L       |                 | 1                   | 0.00100            |
| Toluene                      |            |         | < 0.0010          | 0        | mg/L       |                 | 1                   | 0.00100            |
| Ethylbenzene                 |            |         | < 0.0010          | 0        | mg/L       |                 | 1                   | 0.00100            |
| Xylene                       |            |         | < 0.0010          | 0        | mg/L       |                 | 1                   | 0.00100            |
|                              |            |         |                   |          |            | Spike           | Percent             | Recovery           |
| Surrogate                    |            | Flag    | $\mathbf{Result}$ | Units    | Dilution   | Amount          | Recovery            | Limits             |
| Trifluorotoluene (TF         | (T)        |         | 0.0947            | mg/L     | 1          | 0.100           | 95                  | 23.9 - 107.4       |
| 4-Bromofluorobenzer          | ne (4-BFB) |         | 0.0637            | mg/L     | 1          | 0.100           | 64                  | 22.2 - 104.3       |

#### Sample: 119812 - Trip Blank

| Analysis:<br>QC Batch:<br>Prep Batch: | BTEX<br>35881<br>31139 |      | Analytical Me<br>Date Analyze<br>Sample Prepa | d:            | S 8021B<br>2007-03-26<br>2007-03-26 |        | Prep Meth<br>Analyzed<br>Prepared | By: ss        |
|---------------------------------------|------------------------|------|-----------------------------------------------|---------------|-------------------------------------|--------|-----------------------------------|---------------|
|                                       |                        |      | RL                                            | 1             |                                     |        |                                   |               |
| Parameter                             | Flag                   |      | Result                                        |               | Units                               | J      | Dilution                          | $\mathbf{RL}$ |
| Benzene                               |                        |      | <0.00100                                      | )             | mg/L                                |        | 1                                 | 0.00100       |
| Toluene                               |                        |      | < 0.00100                                     | )             | mg/L                                |        | 1                                 | 0.00100       |
| Ethylbenzene                          |                        |      | < 0.00100                                     | 1             | mg/L                                |        | 1                                 | 0.00100       |
| Xylene                                |                        |      | < 0.00100                                     |               | mg/L                                |        | 1                                 | 0.00100       |
|                                       |                        |      |                                               |               |                                     | Spike  | Percent                           | Recovery      |
| Surrogate                             |                        | Flag | Result                                        | Units         | Dilution                            | Amount | Recovery                          | Limits        |
| Trifluorotolue                        | ne (TFT)               |      | 0.0926                                        | mg/L          | 1                                   | 0.100  | 93                                | 23.9 - 107.4  |
| 4-Bromofluoro                         | obenzene (4-BFB)       |      | 0.0896                                        | $_{\rm mg/L}$ | 1                                   | 0.100  | 90                                | 22.2 - 104.5  |

#### Method Blank (1) QC Batch: 35881

| QC Batch: 35881<br>Prep Batch: 31139 |                 | Date Analyzed: 2<br>QC Preparation: 2 | 007-03-26<br>007-03-26 |       | Analyzed By: ss<br>Prepared By: ss |
|--------------------------------------|-----------------|---------------------------------------|------------------------|-------|------------------------------------|
|                                      |                 | MI                                    | DL                     |       |                                    |
| Parameter                            | $\mathbf{Flag}$ | Res                                   | ult                    | Units | $\operatorname{RL}$                |
| Benzene                              |                 | < 0.0002                              | 200                    | mg/L  | 0.001                              |
|                                      |                 |                                       |                        |       | continued                          |

Work Order: 7032346 Linam Ranch Gas Plant

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|------------------------------|------|-------------------|-----------------|----------|--------|--------------------|---------------|
| Parameter                    | Flag |                   | Re              | sult     | Ur     | its                | $\mathbf{RL}$ |
| Toluene                      |      |                   | < 0.000         | 200      | mg     | <u>;/L</u>         | 0.001         |
| Ethylbenzene                 |      |                   | < 0.000         | 200      | mg     | $_{\rm S}/{\rm L}$ | 0.001         |
| Xylene                       |      |                   | < 0.000         | 300      | mg     | 5/L                | 0.001         |
|                              |      |                   |                 |          | Spike  | Percent            | Recovery      |
| Surrogate                    | Flag | $\mathbf{Result}$ | Units           | Dilution | Amount | Recovery           | Limits        |
| Trifluorotoluene (TFT)       |      | 0.0926            | mg/L            | 1        | 0.100  | 93                 | 60.1 - 116.8  |
| 4-Bromofluorobenzene (4-BFB) |      | 0.0908            | $\mathrm{mg/L}$ | 1        | 0.100  | 91                 | 54.4 - 112.5  |

#### Laboratory Control Spike (LCS-1)

| QC Batch:   | 35881 | Date Analyzed:  | 2007-03-26 | Analyzed By: | $\mathbf{SS}$ |
|-------------|-------|-----------------|------------|--------------|---------------|
| Prep Batch: | 31139 | QC Preparation: | 2007-03-26 | Prepared By: | $\mathbf{SS}$ |

|              | LCS               |       |      | Spike  | Matrix            |      | Rec.             |
|--------------|-------------------|-------|------|--------|-------------------|------|------------------|
| Param        | $\mathbf{Result}$ | Units | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\mathbf{Limit}$ |
| Benzene      | 0.0982            | mg/L  | 1    | 0.100  | < 0.000 200       | 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.

|              | LCSD   |                 |      | Spike  | Matrix            |      | Rec.                   |                      | RPD                    |
|--------------|--------|-----------------|------|--------|-------------------|------|------------------------|----------------------|------------------------|
| Param        | Result | Units           | Dil. | Amount | $\mathbf{Result}$ | Rec. | $\operatorname{Limit}$ | $\operatorname{RPD}$ | $\operatorname{Limit}$ |
| Benzene      | 0.0980 | mg/L            | 1    | 0.100  | < 0.000200        | 98   | 76.4 - 120.5           | 0                    | 20                     |
| Toluene      | 0.101  | $\mathrm{mg/L}$ | 1    | 0.100  | < 0.000200        | 101  | 79.2 - 117.8           | 1                    | 20                     |
| Ethylbenzene | 0.101  | $\mathrm{mg/L}$ | 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.

|                              | LCS               | LCSD              |       |      | Spike  | LCS  | LCSD | Rec.             |
|------------------------------|-------------------|-------------------|-------|------|--------|------|------|------------------|
| Surrogate                    | $\mathbf{Result}$ | $\mathbf{Result}$ | Units | Dil. | Amount | Rec. | Rec. | $\mathbf{Limit}$ |
| 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: | $\mathbf{ss}$ |
|-------------|-------|-----------------|------------|--------------|---------------|
| Prep Batch: | 31139 | QC Preparation: | 2007-03-26 | Prepared By: | $\mathbf{SS}$ |

|              | MS     |                 |      | Spike  | Matrix            |      | Rec.         |
|--------------|--------|-----------------|------|--------|-------------------|------|--------------|
| Param        | Result | Units           | Dil. | Amount | $\mathbf{Result}$ | 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  | $\mathrm{mg/L}$ | 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.

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|                                                                                                                              | MSD                                      |                                              |                                      | Spike                                    | $\operatorname{Matr}$                         | ix                                                                        | F                       | lec.                    |                                           | RPD                               |
|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------|----------------------------------------------|--------------------------------------|------------------------------------------|-----------------------------------------------|---------------------------------------------------------------------------|-------------------------|-------------------------|-------------------------------------------|-----------------------------------|
| Param                                                                                                                        | Result                                   | Units                                        | Dil.                                 | Amount                                   | $\mathbf{Resu}$                               | lt Rec                                                                    | . Li                    | $\mathbf{Limit}$        |                                           | Limi                              |
| Benzene                                                                                                                      | 0.0846                                   | mg/L                                         | 1                                    | 0.100                                    | < 0.000                                       | 0200 85                                                                   | 75.9                    | - 114.2                 | 1                                         | 20                                |
| Toluene                                                                                                                      | 0.0860                                   | mg/L                                         | 1                                    | 0.100                                    | < 0.000                                       | 200 86                                                                    | 78.7                    | - 111.8                 | <b>2</b>                                  | 20                                |
| Ethylbenzene                                                                                                                 | 0.0844                                   | mg/L                                         | 1                                    | 0.100                                    | < 0.000                                       | 200 84                                                                    | 78.3                    | - 112.3                 | <b>2</b>                                  | 20                                |
| Xylene                                                                                                                       | 0.245                                    | mg/L                                         | 1                                    | 0.300                                    | < 0.000                                       | 300 82                                                                    | 79.3                    | - 114.8                 | 2                                         | 20                                |
| Percent recovery is based on the s                                                                                           | spike result                             | t. RPD                                       | is based                             | on the spi                               | ke and sp                                     | oike duplica                                                              | te result               | •                       |                                           |                                   |
|                                                                                                                              | N                                        | IS                                           | MSD                                  |                                          |                                               | Spike                                                                     | MS                      | MSD                     |                                           | Rec.                              |
| Surrogate                                                                                                                    | Res                                      | $\operatorname{sult}$                        | Result                               | Units                                    | Dil.                                          | Amount                                                                    | Rec.                    | Rec.                    | Ι                                         | Limit                             |
| Trifluorotoluene (TFT)                                                                                                       | 0.0                                      | 871                                          | 0.0849                               | mg/L                                     | 1                                             | 0.1                                                                       | 87                      | 85                      | 43.9                                      | ) - 121.                          |
|                                                                                                                              |                                          |                                              |                                      | ·                                        | -                                             | 0.4                                                                       |                         |                         | F 4 0                                     | 190                               |
| 4-Bromofluorobenzene (4-BFB)                                                                                                 |                                          | 616<br>119795                                | 0.0585                               | mg/L                                     | 1                                             | 0.1                                                                       | 62                      | 58                      | 54.2                                      | : - 120.                          |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881                                                 | 0.0                                      | 119795                                       | 0.0585<br>e Analyz                   |                                          | 1<br>7-03-26                                  | 0.1                                                                       | 62                      |                         | 54.2<br>alyzed l                          |                                   |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881                                                 | 0.0                                      | 119795<br>Date                               |                                      | ed: 2007                                 |                                               |                                                                           | 62                      | An                      |                                           | By: ss                            |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881                                                 | 0.0                                      | 119795<br>Date<br>QC                         | e Analyz                             | ed: 2007                                 | 7-03-26<br>7-03-26                            |                                                                           | 62<br>atrix             | An                      | alyzed 1<br>epared I                      | By: ss                            |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881<br>Prep Batch: 31139                            | 0.0<br>d Sample:                         | 119795<br>Data<br>QC<br>S<br>ult             | e Analyz<br>Prepara<br>Units         | ed: 2007                                 | 7-03-26                                       | e M                                                                       |                         | An                      | alyzed 1<br>epared 1                      | 3y: ss<br>3y: ss                  |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881                                                 | 0.0<br>d Sample:<br>MS<br>Rest<br>2 0.07 | 119795<br>Data<br>QC<br>S<br>ult             | e Analyz<br>Prepara<br>Units         | ed: 2007<br>tion: 2007                   | 7-03-26<br>7-03-26<br>Spike                   | e M<br>at R                                                               | atrix                   | An<br>Pre               | alyzed l<br>epared H                      | By: ss<br>By: ss<br>Rec.<br>Limit |
| 4-Bromofluorobenzene (4-BFB)<br>Matrix Spike (MS-2) Spike<br>QC Batch: 35881<br>Prep Batch: 31139<br>Param                   | 0.0<br>d Sample:<br>MS<br>Resu           | 119795<br>Date<br>QC<br>S<br>alt<br>32       | e Analyz<br>Prepara                  | ed: 2007<br>tion: 2007<br>Dil.           | 7-03-26<br>7-03-26<br>Spike<br>Amou           | e M<br>nt Ro<br>) <0.                                                     | atrix<br>esult          | An<br>Pre<br>Rec.       | alyzed I<br>epared I<br>I<br>75.9         | By: ss<br>Rec.                    |
| 4-Bromofluorobenzene (4-BFB)<br><b>Matrix Spike (MS-2)</b> Spike<br>QC Batch: 35881<br>Prep Batch: 31139<br>Param<br>Benzene | 0.0<br>d Sample:<br>MS<br>Rest<br>2 0.07 | 119795<br>Date<br>QC<br>5<br>ult<br>32<br>31 | e Analyz<br>Prepara<br>Units<br>mg/L | ed: 2007<br>tion: 2007<br>Dil.<br>10.084 | 7-03-26<br>7-03-26<br>Spike<br>Amour<br>0.100 | $\begin{array}{ccc} e & M \\ nt & R \\ 0 & < 0. \\ 0 & < 0.6 \end{array}$ | atrix<br>esult<br>00202 | An<br>Pre<br>Rec.<br>73 | alyzed I<br>epared I<br>I<br>75.9<br>78.7 | By: ss<br>By: ss<br>Rec.<br>Limit |

|              | MSD                     |                 |        | Spike  | Matrix            |      | Rec.                   |                      | RPD                    |
|--------------|-------------------------|-----------------|--------|--------|-------------------|------|------------------------|----------------------|------------------------|
| Param        | $\operatorname{Result}$ | Units           | Dil.   | Amount | $\mathbf{Result}$ | Rec. | $\operatorname{Limit}$ | $\operatorname{RPD}$ | $\operatorname{Limit}$ |
| Benzene      | 0.0816                  | $\mathrm{mg/L}$ | 10.084 | 0.100  | < 0.00202         | 82   | 75.9 - 114.2           | 11                   | 20                     |
| Toluene      | 0.0839                  | $\mathrm{mg/L}$ | 1      | 0.100  | < 0.000200        | 84   | 78.7 - 111.8           | 14                   | 20                     |
| Ethylbenzene | 0.0828                  | m mg/L          | 1      | 0.100  | < 0.000200        | 83   | 78.3 - 112.3           | 15                   | 20                     |
| Xylene       | 0.250                   | $\mathrm{mg/L}$ | 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.

|                              |   | MS                | MSD                     |                 |      | Spike  | MS   | MSD  | Rec.                   |
|------------------------------|---|-------------------|-------------------------|-----------------|------|--------|------|------|------------------------|
| Surrogate                    |   | $\mathbf{Result}$ | $\operatorname{Result}$ | Units           | Dil. | Amount | Rec. | Rec. | $\operatorname{Limit}$ |
| 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                  | $\mathrm{mg/L}$ | 1    | 0.1    | 53   | 63   | 54.2 - 120.1           |

#### Standard (ICV-1)

QC Batch: 35881

Date Analyzed: 2007-03-26

Analyzed By: ss

 $<sup>^{2}</sup>$ 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.

Work Order: 7032346 Linam Ranch Gas Plant

| Param        | Flag | Units           | ICVs<br>True<br>Conc. | ICVs<br>Found<br>Conc. | ICVs<br>Percent<br>Recovery | Percent<br>Recovery<br>Limits | Date<br>Analyzed |
|--------------|------|-----------------|-----------------------|------------------------|-----------------------------|-------------------------------|------------------|
| Benzene      |      | mg/L            | 0.100                 | 0.0971                 | 97                          | 85 - 115                      | 2007-03-26       |
| Toluene      |      | $\mathrm{mg/L}$ | 0.100                 | . 0.101                | 101                         | 85 - 115                      | 2007-03-26       |
| Ethylbenzene |      | $\mathrm{mg/L}$ | 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)

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| QC Batch: 358 | 881  |       | Date Analy | Analyzed By: s |          |          |                       |  |
|---------------|------|-------|------------|----------------|----------|----------|-----------------------|--|
|               |      |       | CCVs       | CCVs           | CCVs     | Percent  |                       |  |
|               |      |       | True       | Found          | Percent  | Recovery | $\operatorname{Date}$ |  |
| Param         | Flag | Units | Conc.      | Conc.          | Recovery | Limits   | 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            |  |

| Suite A1 200 East Sunset Rd., Suite E 6015 Harris Pkwy, Suite 110<br>79703 El Paso, Texas 79922 Ft. Worth, Texas 76132<br>7801 Tel (915) 585-3443 Tel (817) 201-5260<br>6313 1 (888) 588-3443 | CLEP Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7<br>TCLP Metals Ag As Ba Cd Cr Pb Se Hg<br>TCLP Volatiles<br>TCLP Yolatiles<br>TCLP Semi Volatiles<br>CGB's 8082 / 608<br>CCMS Semi. Vol. 8260B / 624<br>CCMS Semi. Vol. 8270C / 625<br>CCMS                                                                                                                                                                                                                                                         | Total       Total <t< th=""><th></th></t<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Aberdeen Avenue, Suite 9 5002 Basin Street, Suite<br>Dock, Taxas 7970 Midland, Taxas 7970<br>Tel (405) 794-1298 Fax (432) 689-6311<br>1 (800) 378-1296 Fax (432) 689-6313                     | DATE SANCE / 625<br>PAH 8270C / 625<br>MTBE 8021B / 602 / 8260B / 624<br>MTBE 802 / 8260B / 624 / 8260B / 826 / 8260B / 826 / 8260B / 826 / 826 / 826 / 826                                                                                                                                                                                                                                                                                      | Time:<br>Time:<br>Temp<br>Temp<br>Temp<br>Temp<br>Temp<br>Temp                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 2                                                                                         |
| <b>Inc.</b> 6701<br>m                                                                                                                                                                         | NATER<br>SOIL<br>H2SOA<br>AIR<br>SOIL<br>H2SOA<br>AIR<br>MATR<br>SOIL<br>H1O3<br>MATR<br>SOIL<br>MATR<br>SOIL<br>MATR<br>SOIL<br>MATR<br>MATR<br>SOIL<br>MATR<br>MATR<br>MATR<br>MATR<br>MATR<br>MATR<br>MATR<br>MATR                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | above                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | onditions listed on Lorent CO. C                                                          |
| <b>TraceAmalysis, I</b><br>email: lab@traceanalysis.com                                                                                                                                       | # CONTAINERS Little                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side |
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| Page_/         | 2 tie                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | ALYSIS REQUEST<br>Specify Method |                       |                 |                                  |               |                                    |                        | DD, TSS, pH<br>loisture Cont                    | a 📃          |        |               |             |              |               |             |                    |                       |             |            |                                                                                 | <u>-</u><br>k | Dry Weight Basís Required | t Required           | Check If Special Reporting<br>Limits Are Needed |                                                                                              |
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| And the second | <b>TraceAnalysis</b> ,<br>email: lab@traceanalysis.c                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | <u>ک</u>                         | city, zip)<br>all, Su |                 | 14 prea                          |               | ng state)                          |                        | FIELD CODE                                      | VOC1 02 2010 | 570326 | (0703 20 1330 | (070320 M25 | (070320 1525 | (0703 20 1635 | 211/02 2010 | 070320             | 2020                  | (0703211665 | 670321105  | Date:                                                                           | 3/23/0        | Date:                     | Nata.                | Cat.                                            | stitutes agn                                                                                 |
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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 <u>swweathers@dcpmidstream.com</u>.

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).

6885 South Marshall St., Suite 3, Littleton, CO 80128 phone 303-948-7733 fax 303-948-7739

Mr. Stephen Weathers October 29, 2007 Page 2

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.

Mr. Stephen Weathers October 29, 2007 Page 3

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 downgradient 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).

Mr. Stephen Weathers October 29, 2007 Page 4

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

| Well   | Well<br>Elevation<br>(Top of Casing) | Well<br>Depth<br>(TOC) | Well<br>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 beca                    | use of safety          | concerns         |
| MW-13  | 3721.63                              | 63.00                  | 4                |

Table 1 – Linam Ranch Gas Plant Well Construction Summary

| Well   | Depth to<br>Water | Depth to<br>Product | Free Phase<br>Hydrocarbon | Corrected<br>Water Table |
|--------|-------------------|---------------------|---------------------------|--------------------------|
|        |                   |                     | Thickness                 | 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  | Inac              | cessible be         | cause of safety co        | oncerns                  |
| MW-13  | 50.68             |                     |                           | 3673.31                  |

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

Notes: All units in feet

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

|                                                                                                                             |   |                                                                                         |                                                         |                                                         |                                                                                             |                                                                                                                                 |                                                                                                                                 |                                                                                         |                                                                                                                 |                                                                                                         |                                                                                         | . (                                                                                                     |                                                                                                         |                                                                                                                 |
|-----------------------------------------------------------------------------------------------------------------------------|---|-----------------------------------------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------|---------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|
| 2/6/01                                                                                                                      |   | 3676.99                                                                                 | 3674.05                                                 | 3669.48                                                 | 3675.39                                                                                     | 3675.24                                                                                                                         | 3674.75                                                                                                                         | 3672.60                                                                                 | 3670.86                                                                                                         | 3671.36                                                                                                 | 3670.97                                                                                 | 3672.22                                                                                                 | 3671.50                                                                                                 | 3670.88                                                                                                         |
| 8/17/00                                                                                                                     |   | 3676.71                                                                                 | 3679.43                                                 | 3669.68                                                 | 3676.07                                                                                     | 3675.66                                                                                                                         | 3675.61                                                                                                                         | 3674.66                                                                                 | 3670.92                                                                                                         | 3671.53                                                                                                 | 3671.29                                                                                 | 3672.47                                                                                                 | 3671.86                                                                                                 | 3671.04                                                                                                         |
| 2/21/00                                                                                                                     |   | 3675.41                                                                                 | 3672.68                                                 | 3669.51                                                 | 3675.81                                                                                     | 3675.84                                                                                                                         | 3675.11                                                                                                                         | 3671.93                                                                                 | 3670.78                                                                                                         | 3671.24                                                                                                 | 3670.98                                                                                 | 3672.09                                                                                                 | 3671.33                                                                                                 | 3670.74                                                                                                         |
| 8/24/99                                                                                                                     |   | 3675.21                                                                                 | 3674.43                                                 | 3669.68                                                 | 3675.44                                                                                     | 3675.47                                                                                                                         | 3674.86                                                                                                                         | 3672.56                                                                                 | 3670.89                                                                                                         | 3671.39                                                                                                 | 3671.03                                                                                 | 3672.06                                                                                                 | 3671.59                                                                                                 | 3670.94                                                                                                         |
| 2/9/99                                                                                                                      |   | 3676.23 3675.37 3674.45 3674.63 3674.19 3673.67 3673.76 3675.21 3675.41 3676.71 3676.99 | 3672.80 3672.37 3672.41 3674.43 3672.68 3679.43 3674.05 | 3669.96 3669.80 3669.59 3669.68 3669.51 3669.68 3669.48 | <u>6.27</u> 3675.50 3674.29 3674.12 3674.52 3673.76 3674.45 3675.44 3675.81 3676.07 3675.39 | 3674.84                                                                                                                         | 3673.84                                                                                                                         | 3674.47 3673.36 3672.78 3672.04 3671.87 3671.61 3671.48 3672.56 3671.93 3674.66 3672.60 | 3670.67                                                                                                         | 3671.02                                                                                                 | 3672.81 3672.36 3671.43 3671.07 3671.13 3670.99 3670.78 3671.03 3670.98 3671.29 3670.97 | 3671.68                                                                                                 | 3671.00                                                                                                 | 3670.60                                                                                                         |
| 7/20/98                                                                                                                     |   | 3673.67                                                                                 | 3672.37                                                 | 3669.80                                                 | 3673.76                                                                                     | 3674.21                                                                                                                         | 3673.59                                                                                                                         | 3671.61                                                                                 | 3670.90                                                                                                         | 3671.22                                                                                                 | 3670.99                                                                                 | 3671.88                                                                                                 | 3671.18                                                                                                 | 3670.80                                                                                                         |
| 1/22/98                                                                                                                     |   | 3674.19                                                                                 | 3672.80                                                 | 3669.96                                                 | 3674.52                                                                                     | 3674.74                                                                                                                         | 3674.21                                                                                                                         | 3671.87                                                                                 | 3671.00                                                                                                         | 3671.33                                                                                                 | 3671.13                                                                                 | 3672.01                                                                                                 | 3671.34                                                                                                 | 3670.93                                                                                                         |
| 8/15/97                                                                                                                     |   | 3674.63                                                                                 |                                                         |                                                         | 3674.12                                                                                     | 3673.96                                                                                                                         | 3673.91                                                                                                                         | 3672.04                                                                                 | 3671.14                                                                                                         | 3671.41                                                                                                 | 3671.07                                                                                 | 3671.81                                                                                                 | 3671.40                                                                                                 | 3671.05                                                                                                         |
| 1/22/97                                                                                                                     |   | 3674.45                                                                                 | 3673.19                                                 | 3670.47                                                 | 3674.29                                                                                     | 3674.35                                                                                                                         | 3674.21                                                                                                                         | 3672.78                                                                                 | 3671.52                                                                                                         | 3671.78                                                                                                 | 3671.43                                                                                 | 3672.21                                                                                                 | 3671.74                                                                                                 | 3671.43                                                                                                         |
| 4/24/96                                                                                                                     |   | 3675.37                                                                                 |                                                         | 3671.13 3670.47                                         | 3675.50                                                                                     | 3675.51                                                                                                                         | 3676.37                                                                                                                         | 3673.36                                                                                 | 3672.40                                                                                                         | 3672.75                                                                                                 | 3672.36                                                                                 | 3673.31                                                                                                 | 3672.75                                                                                                 | 3672.34                                                                                                         |
| 1/17/96                                                                                                                     |   | 3676.23                                                                                 |                                                         |                                                         | 3676.27                                                                                     | 3676.23                                                                                                                         | 3676.18                                                                                                                         | 3674.47                                                                                 | 3672.64                                                                                                         | 3673.08                                                                                                 | 3672.81                                                                                 | 3673.88                                                                                                 | 3673.25                                                                                                 | 3672.66                                                                                                         |
| 11/14/95                                                                                                                    |   |                                                                                         |                                                         | 3671.30                                                 | 3675.75                                                                                     | 3676.62                                                                                                                         | 3676.80                                                                                                                         |                                                                                         | 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 | 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 | 3672.16 3672.91                                                                         | 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 | 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 | 3672.02 3672.57 3672.66 3672.34 3671.43 3671.05 3670.93 3670.93 3670.60 3670.94 3670.94 3670.74 3671.04 3670.88 |
| 5/17/95                                                                                                                     |   | 3674.68                                                                                 | 3673.49                                                 | 3671.47 3670.72 3671.30                                 | 3675.43                                                                                     | 3675.43                                                                                                                         | 3674.87                                                                                                                         | 3672.73                                                                                 | 3671.88                                                                                                         | 3672.45                                                                                                 | 3672.16                                                                                 | 3673.03                                                                                                 | 3672.37                                                                                                 | 3672.02                                                                                                         |
| 5/22/94                                                                                                                     |   | 3676.28 3674.68                                                                         | 3682.29 3673.49                                         | 3671.47                                                 | 3677.10 3676.96 3675.43 3675.75 367                                                         | 3677.65 3677.33 3675.43 3676.62 3676.23 3675.51 3674.35 3674.35 3674.74 3674.74 3674.21 3674.84 3675.47 3675.84 3675.86 3675.24 | 3676.87 3676.70 3674.87 3676.80 3676.18 3676.37 3674.21 3673.91 3674.21 3674.21 3673.59 3673.84 3674.86 3675.11 3675.61 3674.75 | 3674.83 3672.73                                                                         | 3672.89                                                                                                         |                                                                                                         | -                                                                                       |                                                                                                         |                                                                                                         | -                                                                                                               |
| 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 | 1 |                                                                                         |                                                         |                                                         | 3677.10                                                                                     | 3677.65                                                                                                                         | 3676.87                                                                                                                         |                                                                                         |                                                                                                                 |                                                                                                         |                                                                                         |                                                                                                         |                                                                                                         |                                                                                                                 |
| Well                                                                                                                        |   | MW-1                                                                                    | MW-2                                                    | MW-3                                                    | MW-4                                                                                        | MW-5                                                                                                                            | <b>MW-6</b>                                                                                                                     | MW-8                                                                                    | 6-WW                                                                                                            | MW-10                                                                                                   | MW-10D                                                                                  | MW-11                                                                                                   | MW-12                                                                                                   | MW-13                                                                                                           |

| <b>Well</b>                            | 8/2/01      | Well 8/2/01 3/11/02 | 9/25/02 | 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  | 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     | 3674.81 3674.04     | 1       | 3674.43 3674.32 3673.80 3674.30 3676.59 3682.86 3684.83 3684.08 3682.25 3677.05 3677.62 | 3673.80 | 3674.30 | 3676.59 | 3682.86 | 3684.83 | 3684.08 | 3682.25 | 3677.05         | 3677.62 |
| MW-2                                   | 3672.69     | 3672.69 3672.07     |         | 3672.26 3672.21 3671.69 3671.26 3679.10 3679.39 3678.22 3676.04 3681.68 3674.88         | 3671.69 | 3671.26 | 3679.10 | 3679.39 | 3678.22 | 3676.04 | 3681.68 | 3674.88         | 3693.79 |
| MW-3                                   | 3669.31     | 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 | 3668.87 | 3668.63 | 3669.00 | 3671.37 | 3671.52 | 3671.63 | 3672.00 | 3671.45         | 3671.31 |
| MW-4                                   | 3674.80     | 3674.80 3674.59     |         | 3675.13 3674.60 3674.16 3674.04 3675.77 3681.85 3682.38 3682.04 3680.94 3677.98         | 3674.16 | 3674.04 | 3675.77 | 3681.85 | 3682.38 | 3682.04 | 3680.94 | 3677.98         | 3677.77 |
| MW-5                                   | 3674.82     | 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 | 3674.32 | 3674.32 | 3674.32 | 3680.24 | 3680.65 | 3680.66 | 3680.23 | 3678.70         | 3677.03 |
| MW-6                                   | 3674.15     | 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 | 3673.55 | 3673.07 | 3674.68 | 3680.13 | 3677.46 | 3677.42 | 3677.37 | 3677.70         | 3677.21 |
| MW-8                                   | 3671.26     | 3671.26 3671.51     |         | 3671.59 3671.59 3670.71 3670.67 3673.30 3676.74 3677.01 3675.71 3677.09 3674.32         | 3670.71 | 3670.67 | 3673.30 | 3676.74 | 3677.01 | 3675.71 | 3677.09 | 3674.32         | 3681.16 |
| MW-9                                   | 3670.62     | 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 | 3670.48 | 3670.15 | 3670.28 | 3673.36 | 3673.66 | 3674.00 | 3673.41 | 3673.42         | 3672.65 |
| MW-10                                  | 3671.06     | 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 | 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 | 3670.46 | 3670.28 | 3670.51 | 3673.72 | 3674.03 | 3674.05 | 3673.75 | 3674.92         | 3672.70 |
| MW-11                                  | 3671.79     | 3671.79 3672.02     |         | 3672.05 3672.00 3671.49 3671.02 3671.67 3675.45 3675.54 3675.68 3675.30                 | 3671.49 | 3671.02 | 3671.67 | 3675.45 | 3675.54 | 3675.68 |         | 3674.52 3673.80 | 3673.80 |
| MW-12                                  | 3671.07     | 3671.07 3671.01     |         | 3671.09 3671.15 3670.81 3670.36 3671.10 3674.97 3674.46 3674.64 3674.52                 | 3670.81 | 3670.36 | 3671.10 | 3674.97 | 3674.46 | 3674.64 | 3674.52 | NS              | NS      |
| MW-13                                  | 3670.58     | 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 | 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 | npled due t | o safety coi        | ncerns  |                                                                                         |         |         |         |         |         |         |         |                 |         |

| 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 du | e to safety conc | erns    |
| MW-13      | < 0.001 | < 0.001    | < 0.001          | < 0.001 |
| Trip Blank | < 0.001 | <0.001     | < 0.001          | < 0.001 |

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

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<br>Xylenes |
|---------|----------|---------|--------------|------------------|
| RPD (%) | 9 5 4 9/ | NA      | <u>8 02%</u> |                  |
| 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)

| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | Benzene | Toluene | Ethylbenzene | Total<br>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-5    | 9-WW | MW-6 MW-7 | MW-8                 | MW-9   | MW-10 | MW-10 MW-10D | MW-11   | MW-12 MW-13 | MW-13  |
|--------------------------------------------------|-----------|---------------|------------|-----------|---------|------|-----------|----------------------|--------|-------|--------------|---------|-------------|--------|
| 1001/06/0                                        | 0.0053    | <0.001        | <0.001     |           |         |      |           |                      | -      |       |              |         |             |        |
| 11/3/1992 0.0015                                 | 0.0015    | 100.02        | 100.02     | 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  |
| 9661/11/1                                        |           |               |            |           |         |      |           | -                    | 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                          | <0.001    | <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 <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 | <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.(          | 01 < 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                          | 0.0067    | <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                                 | 0.0028    | <0.001        | <0.001     |           | 0.569   |      | <0.001    | <0.001 0.0023        | 0.0023 | 1.48  | 0.224        | <0.001  | <0.005      | <0.001 |
| 9/21/2006 0.0011                                 | 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 | I and dup | licate valı   | ues are av | eraged.   | •       |      |           |                      |        |       |              |         |             |        |

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

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| <u>MW-12 MW-13</u>  |   |           |           |                  |           | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001 | <0.001 <0.001        | <0.001 <0.001        | <0.005 <0.005        | <0.001 <0.005        | <0.001 <0.001        | <0.001 <0.001           | <0.001 <0.001                                    | <0.001 <0.001                      | <0.005 <0.005        | <0.001 <0.001 | <0.001 <0.001                  | <0.001 <0.001        | <0.001 <0.001        | <0.005 <0.001           | <0.001 <0.001 | NS <0.001            |  |
|---------------------|---|-----------|-----------|------------------|-----------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|----------------------|----------------------|----------------------|----------------------|----------------------|-------------------------|--------------------------------------------------|------------------------------------|----------------------|---------------|--------------------------------|----------------------|----------------------|-------------------------|---------------|----------------------|--|
| MW≏11 MV            |   |           |           |                  |           | <0.001 <0.    | <0.001 <0.    | 0.004 <0.     | <0.002 <0.    | <0.001 <0.    | <0.001 <0.    | 0.004 <0.     | <0.001 <0.    | <0.001 <0.    | <0.001 <0.           | <0.001 <0.           | <0.005 <0.           | < 0.001 < 0.         | <0.001 <0.           | <0.001 <0.              | <0.001 <0.                                       | <0.001 <0.                         | <0.005 <0.           | <0.001 <0.    | <0.001 <0.                     | <0.005 <0.           | <0.001 <0.           | <0.001 <0.              | < 0.001 < 0.  | <0.001 N             |  |
| MW-10D              |   |           |           |                  |           | 0.004 <       | 0.001 <       | 0.001         | 0.046 <       | <0.005 <      | <0.01 <       | <0.001        | 0.014 <       | <0.005        | <0.001 <             | <0.005 <             | <0.005 <             | <0.005 <             | <0.001 <             | <0.001 <                | <0.001 <                                         | <0.005 <                           | <0.005               | <0.001 <      | <0.001 <                       | 0.0444 <             | 0.0453 <             | 0.0614 <                | 0.0378 <      | 0.0563 <             |  |
| MW-10               |   |           |           |                  |           | 0.052         | 0.001         | 0.863         | <0.010        | 1.63          | 1.35          | 1.93          | 2.34          | 0.32          | 0.658                | 0.129                | 0.025                | 0.082                | <0.02                | 0.178                   | <0.100                                           | <0.100                             | 0.006                | <0.010        | <0.020                         | 0.303                | 0.39                 | 0.254                   | 0.197         | 0.212                |  |
| 8 MW-9              |   |           |           |                  | 5         | <0.001 <0.001 | <0.001        | <0.001        | <0.001        | <0.001        | <0.001        | <0.001        | <0.001        | <0.001        | 1 < 0.005            | 5 < 0.005            | <0.005 <0.001 <0.005 | 5 <0.005             | 1 < 0.001            | 1 < 0.001               | 1 < 0.001                                        | 1 < 0.001                          | 5 < 0.005            | <0.001 <0.001 | 1 < 0.001                      | 1 < 0.001            | 1 < 0.001            | 1 < 0.001               | <0.001 <0.001 | 1 < 0.001            |  |
| -WW [2-/            |   |           |           |                  | <0.005    | 01 < 0.00     |               |               |               |               |               |               |               |               | <0.005 <0.001 <0.005 | <0.005 <0.005 <0.005 | 05 <0.00             | <0.005 <0.005 <0.005 | <0.005 <0.001 <0.001 | < 0.001 < 0.001 < 0.001 | 05 <0.00                                         | 05 <0.00                           | <0.001 <0.005 <0.005 | 00.0 > 100    | <0.001 < 0.001 < 0.001 < 0.001 | <0.001 <0.001 <0.001 | <0.001 <0.001 <0.001 | < 0.001 < 0.001 < 0.001 | 00.0 > 100    | <0.001 <0.001 <0.001 |  |
| WW-6 WW-7 WW-8 WW-9 | 2 |           | 0.023     | 0.020            | 0.0029    | 0.007 <0.001  |               |               |               |               |               |               |               |               | <0.0                 | <0.0                 | <0.0                 | <0.(                 | <0.0                 | <0.0                    | 050 <0.0                                         | .100 <0.0                          | <0.(                 | <0.001        | <0.0                           | <0.0                 | <0.0                 | <0.0                    | <0.001        | .  <0.(              |  |
|                     |   | *         | 0.0034 0. | 0.0041 0.        | 0.190 0.0 | 0.014 0.      |               |               |               |               |               |               |               |               | 0.037                | <0.005               | <0.005               | <0.005               | <0.005               | <0.001                  | <0.001 <0.100 <0.050 <0.050 <0.005 <0.001 <0.001 | <0.050 <0.100 <0.005 <0.001 <0.001 | <0.001               | <0.001        | <0.005                         | <0.005               | <0.0100              | <0.0100                 | 0.0069        | <0.005               |  |
| MW-4 MW-5           |   |           | 8.0       | 8.2              | 10.0      | 1.35          |               |               |               |               |               |               |               |               |                      |                      | •                    |                      | •                    | <0.001<0.100            | <0.100 -                                         | <0.001 <0.100                      | <0.200               | <0.200        | <0.001<0.100                   |                      |                      |                         |               | •                    |  |
| MW-3                |   | 0.0021    |           | ,                | ~         | <0.001        |               |               |               |               |               |               |               | <0.001        | <0.001               | <0.001               | <0.005               | <0.005               | <0.001               |                         | <0.001                                           | <0.001                             | <0.001               | <0.001        | <0.001                         | <0.001               | <0.001               | <0.001                  | <0.001        | <0.001               |  |
| MW-2                |   | <0.001    |           |                  |           | <0.001        |               |               |               |               |               |               |               |               | <0.005               | <0.005               | <0.001               | <00:002              | <0.001               | <0.001                  | <0.001                                           | <0.001                             | <0.001               | <0.001        | <0.001                         | <0.001               | <0.001               | <0.001                  | <0.001        | <0.001               |  |
| MW-1                |   | 0.0067    | 0.0015    | 0.0014           | <0.001    | <0.002        |               |               |               |               |               |               |               |               | <0.005               | <0.005               | <0.001               | <0.005               | <0.001               | <0.001                  | <0.005                                           | <0.001                             | <0.001               | <0.001        | <0.001                         | <0.001               | <0.001               | <0.001                  | <0.001        | <0.001               |  |
| Conte (             |   | 9/20/1991 | 11/3/1992 | 12/2/1992 0.0014 | 1/12/1994 | 5/17/1995     | 11/14/1995    | 1/17/1996     | 4/24/1996     | 1/22/1997     | 8/15/1997     | 1/22/1998     | 7/20/1998     | 2/9/1999      | 8/25/1999            | 2/22/2000            | 8/18/2000            | 2/7/2001             | 8/2/2001             | 3/11/2002               | 9/25/2002                                        | 3/10/2003                          | 9/17/2003            | 3/16/2004     | 8/18/2004                      | 3/15/2005            | 9/29/2005            | 3/22/2006               | 9/21/2006     | 3/20/2007            |  |

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  | <u>MW-4</u> <u>MW-5</u> <u>MW-6</u> <u>MW-7</u> <u>MW-8</u> | MW-8                            | 0-WM    | . MW-10, MW-10D MW-11 | 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 <0.001            | <0.001  | 0.049                 | <0.001   | <0.001 | <0.001 | <0.001 |
| 1/14/1995                                           |             |                      |               |        |        |       |                                                             |                                 | <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                                           |             |                      | ų             |        |        |       |                                                             |                                 | <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        | <0.001        |        | 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        | < 0.001       |        | 0.13   |       | <0.005                                                      | <0.005 <0.005 <0.005            | <0.005  | 0.164                 | <0.005   | 0.002  | <0.001 | <0.001 |
| 8/18/2000                                           | <0.001      | <0.001 <0.001 <0.002 | <0.005        |        | 0.006  |       | <0.005                                                      | <0.005 <0.001 <0.005            | <0.005  | 0.072                 | <0.005   | <0.005 | <0.005 | <0.005 |
| -2/7/2001                                           | <0.005      | <0.005 <0.005        | <0.005        |        | 0.084  |       | <0.005                                                      | <0.005 <0.005 <0.005            | <0.005  | 0.102                 | <0.005   | <0.001 | <0.001 | <0.005 |
| 8/2/2001                                            | <0.001      | <0.001               | 01 < 0.001    |        | <0.005 |       | <0.005                                                      | <0.005 <0.001 <0.001            | <0.001  | 0.119                 | . <0.001 | <0.001 | <0.001 | <0.001 |
| 3/11/2002                                           | <0.001      | <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        | <0.001        | 0.526  | 0.588  | 0.134 | <0.005                                                      | <0.005 <0.001 <0.001            | <0.001  | 0.290                 | <0.001   | <0.001 | <0.001 | <0.001 |
| 3/10/2003                                           | <0.001      | <0.001 <0.001        | <0.001        | 0.520  | 0.072  | 0.148 | <0.005                                                      | <0.005 <0.001 <0.001            | <0.001  | 0.303                 | <0.005   | <0.001 | <0.001 | <0.001 |
| 9/17/2003                                           | <0.001      | <0.001 <0.001        | <0.001        | 0.259  | 0.182  |       | <0.001                                                      | <0.001 <0.005 <0.005            | <0.005  | 0.110                 | <0.005   | <0.005 | <0.005 | <0.005 |
| 3/16/2004                                           | <0.001      | <0.001               | <0.001 <0.001 | 0.512  | 0.241  |       | <0.001                                                      | <0.001 <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        | <0.001        | 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        | <0.001        |        | 0.309  |       | <0.001                                                      | <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        | <0.001        |        | 0.267  |       | <0.001                                                      | < 0.001 < 0.001 < 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        | <0.001        |        | 0.239  |       | <0.001                                                      | <0.001 <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        | 0.0022        |        | 0.1975 | r     | <0.001                                                      | <0.001                          | <0.001  | 0.222                 | <0.001   | <0.001 | NS     | <0.001 |
| 9/28/07                                             | <0.001      | <0.001 <0.001        | <0.001        |        | 0.0374 |       | <0.001                                                      | <0.001 <0.001                   | <0.001  | 0.163                 | 0.0212   | <0.001 | NS     | <0.001 |
| All units $mg/l$ and duplicate values are averaged: | and dupling | cate value           | es are ave    | raged: |        |       |                                                             |                                 |         |                       |          |        | •      |        |

NS: Not sampled due to safety concerns. Blank cells note samples for wells that were either not install or not sampled

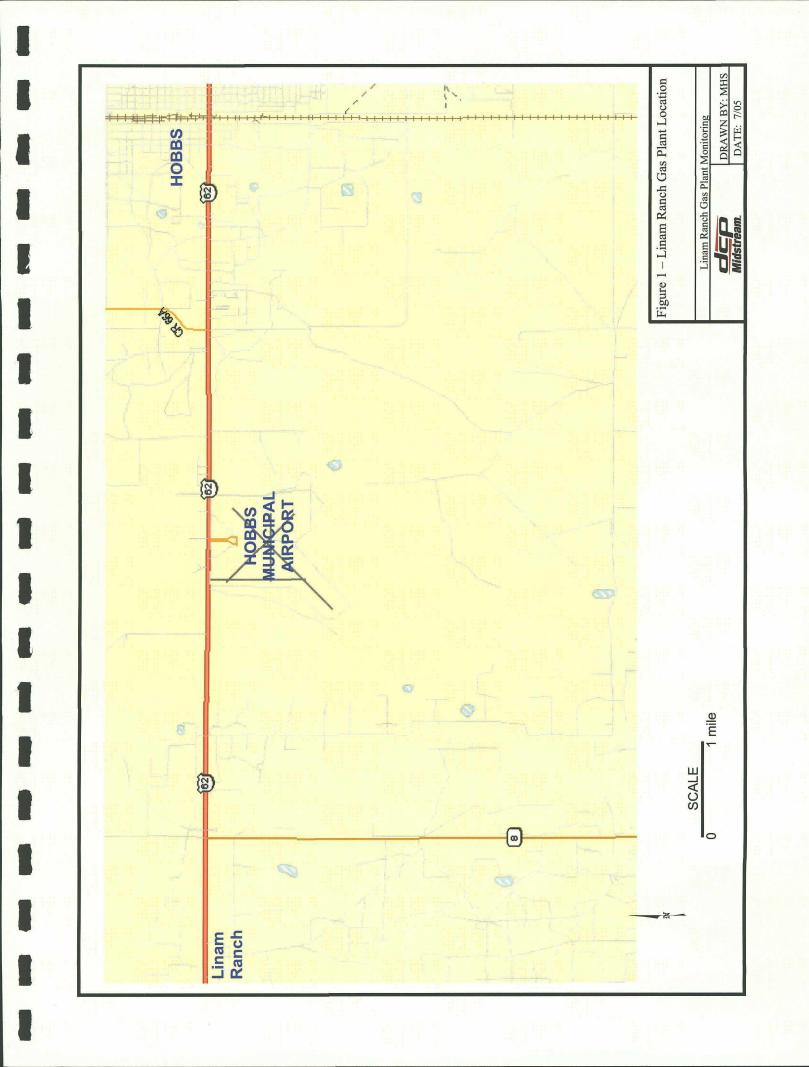
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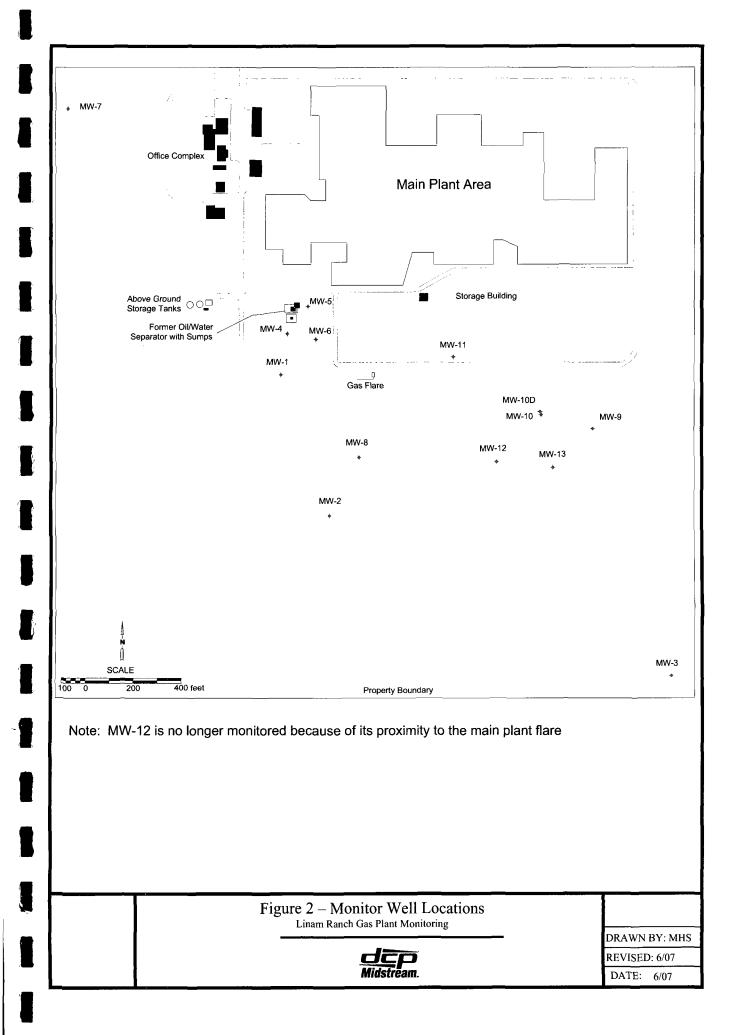
Table 8 - Linam Ranch Gas Plant Summary of Historical Results for Total Xylenes

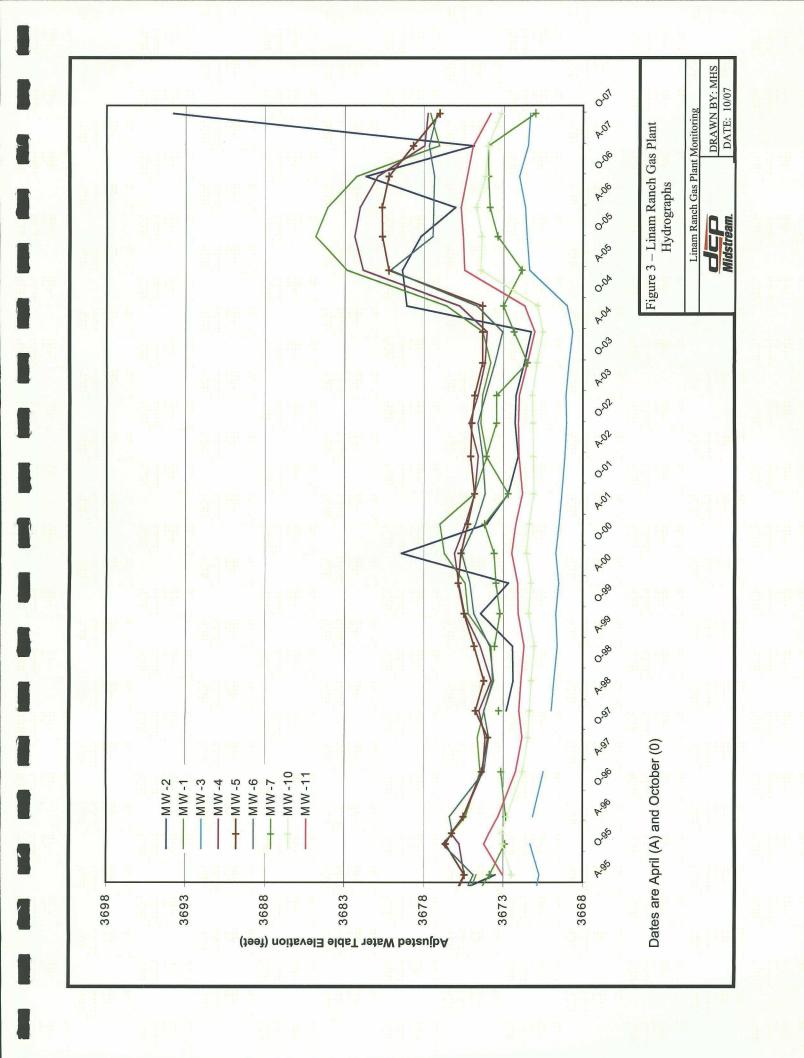
|                  | 7_ AA TAT | C-WIVI  | M W-4  | G-WW   | 9- M W - 0 | /- MW  | MW-8          | M W-9         | MW-10  | 11-MW 001-WW | MW-11   | MW-12  | MW-13  |
|------------------|-----------|---------|--------|--------|------------|--------|---------------|---------------|--------|--------------|---------|--------|--------|
| •                | <u>`</u>  |         |        |        |            |        |               |               |        |              |         |        |        |
| <0.001           | <0.001    | <0.001  |        |        |            |        |               |               |        |              |         |        | -      |
| 0.010            |           |         | 1.8    | 0.034  | 0.120'     |        |               |               |        |              |         |        |        |
| 0.006            |           |         | 1.3    | 0.037  | 0.120      |        |               |               |        |              |         | •      |        |
| 0.002            |           |         | 1.3    | 0.490  | 0.210      |        | <0.005        |               |        |              |         |        |        |
| <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 |
|                  |           |         |        |        |            | •      |               | <0.001        | 0.406  | 0.011        | 0.013   | <0.001 | <0.001 |
|                  |           |         |        |        |            |        |               | 0.001         | 1.050  | 0.047        | 0.031   | <0.001 | <0.001 |
|                  |           |         |        |        |            |        |               | <0.001        | 0.127  | 0.076        | <0.002  | <0.001 | <0.001 |
|                  |           |         |        |        |            |        |               | <0.001        | 8.97   | <0.005       | 0.017   | <0.001 | <0.001 |
|                  |           |         |        |        |            |        |               | <0.001        | 0.453  | <0.01        | 0.007   | <0.001 | 0.005  |
|                  |           |         |        |        |            |        |               | <0.001        | 0.635  | <0.001       | 0.015   | <0.001 | <0.001 |
|                  |           |         |        |        |            |        | :             | <0.001        | 0.606  | 0.006        | 0.010   | <0.001 | <0.001 |
|                  |           | <0.001  |        |        |            |        |               | <0.001        | 0.372  | <0.005       | < 0.001 | <0.001 | <0.001 |
| 0.006            | <0.005    | <0.001  |        | 0.179  | ,          | <0.005 | <0.001        | <0.005        | 0.359  | 0.002        | <0.001  | <0.001 | <0.001 |
| 0.006            | <0.005    | <0.001  |        | 0.09   |            | <0.005 | <0.005        | <0.005        | 0.124  | <0.005       | 0.008   | <0.001 | <0.001 |
| 0.011            | <0.001    | <0.005  |        | 0.008  |            | <0.005 | <0.001        | <0.005        | 0.038  | <0.005       | ≤0.005  | <0.005 | <0.005 |
| <0.005           | <0.005    | <0.005  |        | <0.005 |            | <0.005 | <0.005        | <0.005        | 0.086  | <0.005       | <0.001  | <0.001 | <0.005 |
| <0.001           | <0.001    | <0.001  |        | <0.005 |            | <0.005 | <0.005 <0.001 | < 0.001       | <0.02  | <0.001       | <0.001  | <0.001 | <0.001 |
| <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 |
| <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 <0.001 | 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 |
| <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 |
| <0.001           | <0.001    | <0.001  | -      | <0.001 |            | <0.001 | <0.001        | <0.001        | 0.213  | 0.0375       | <0.001  | SN     | <0.001 |

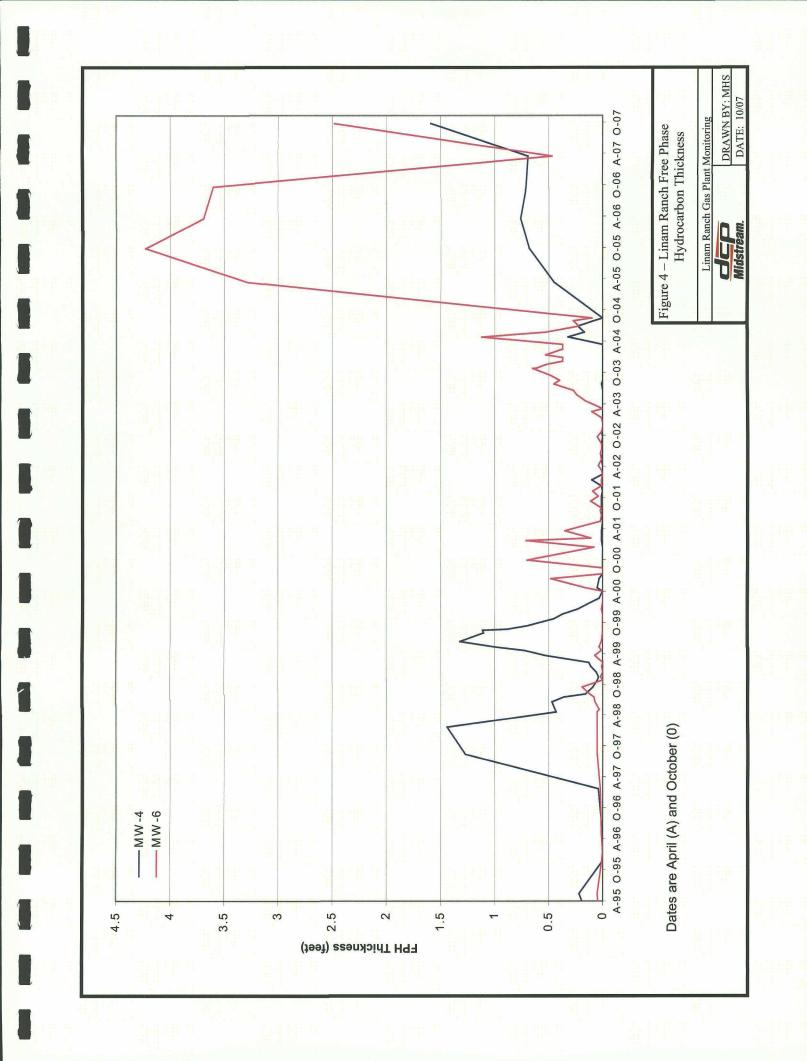
NS: Not sampled due to safety concerns. Blank cells note samples for wells that were either not install or not sampled

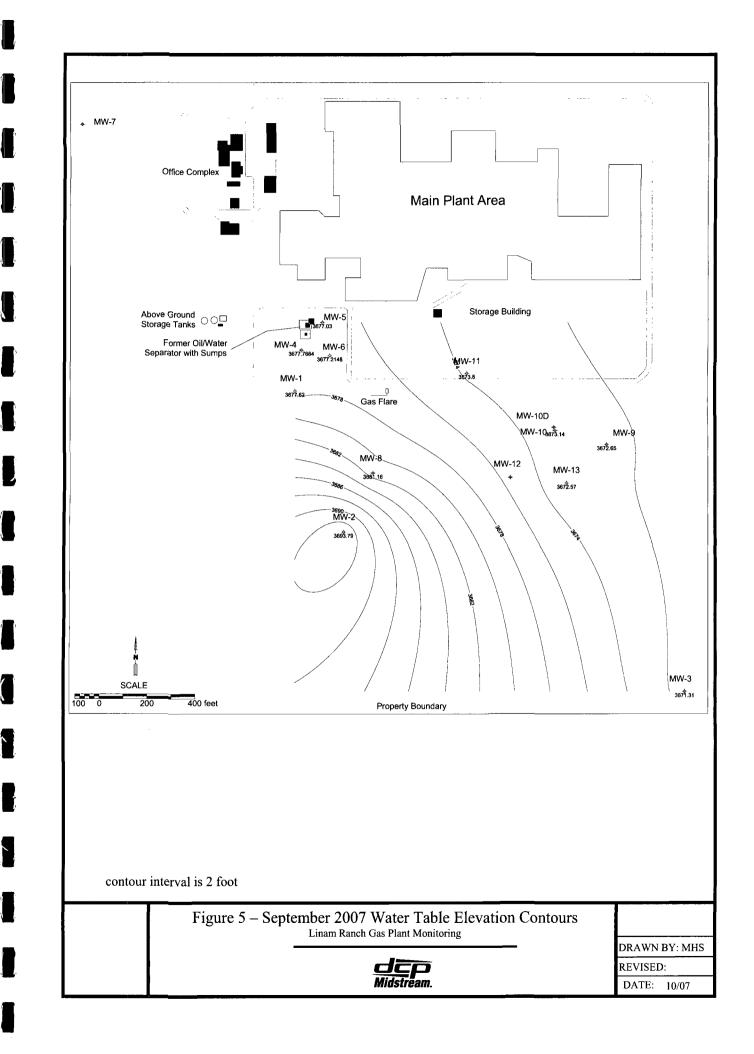
FIGURES

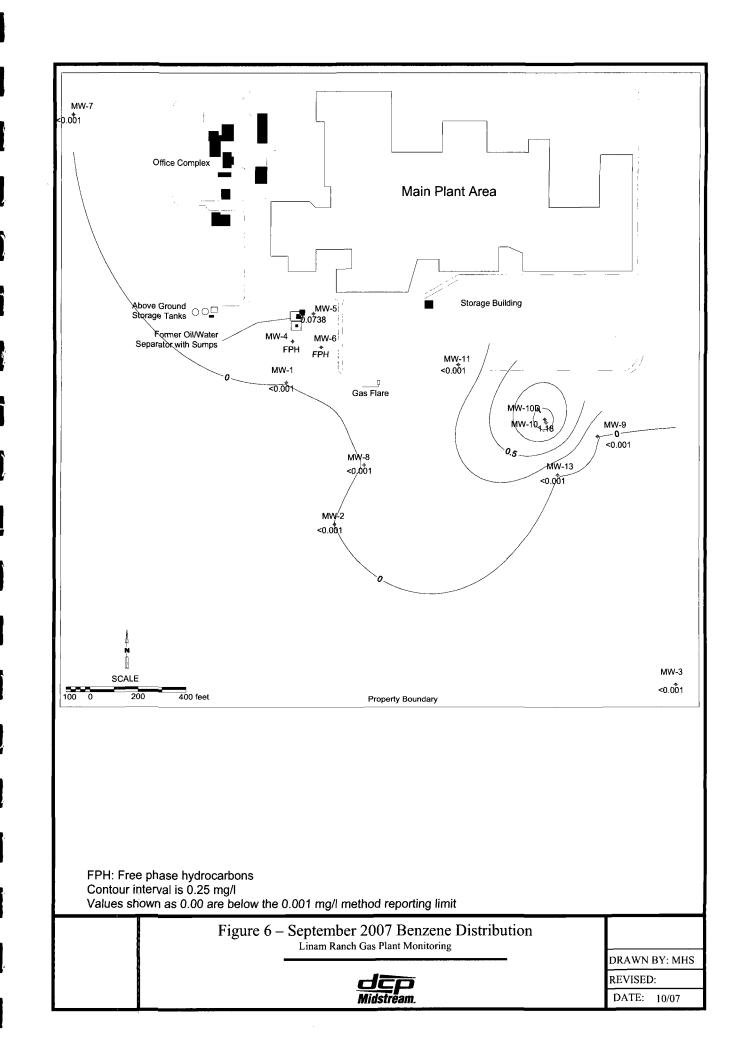


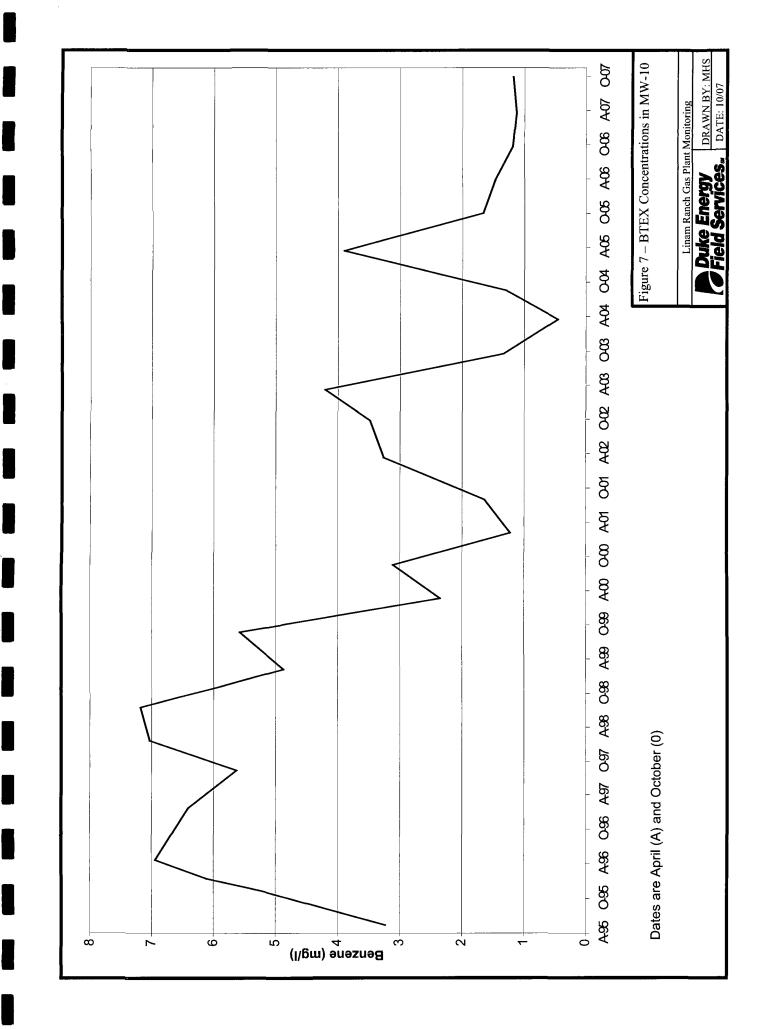


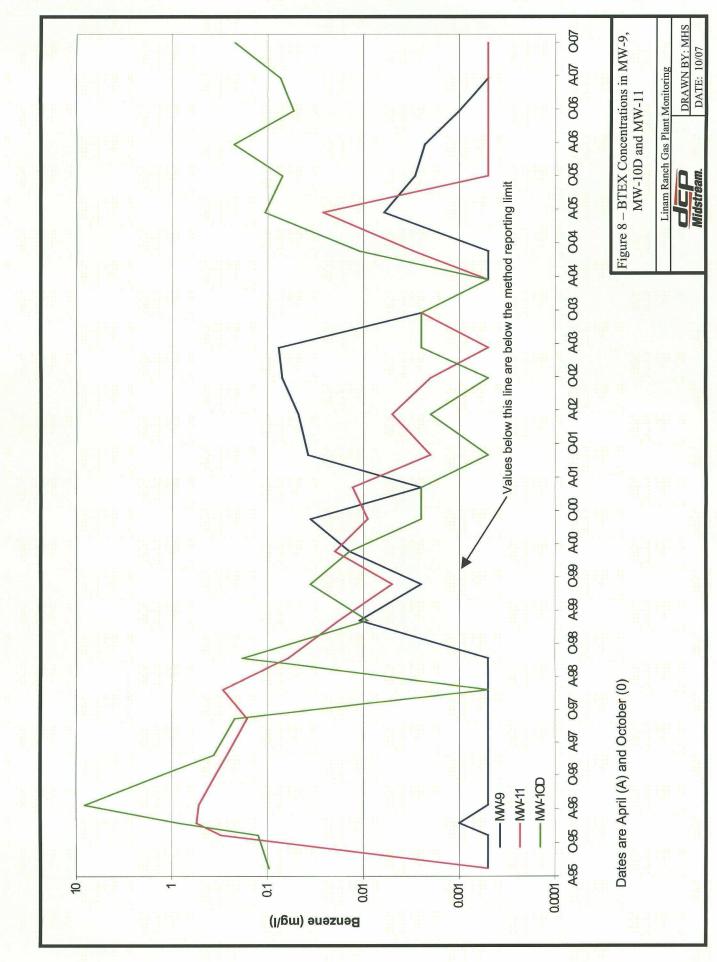


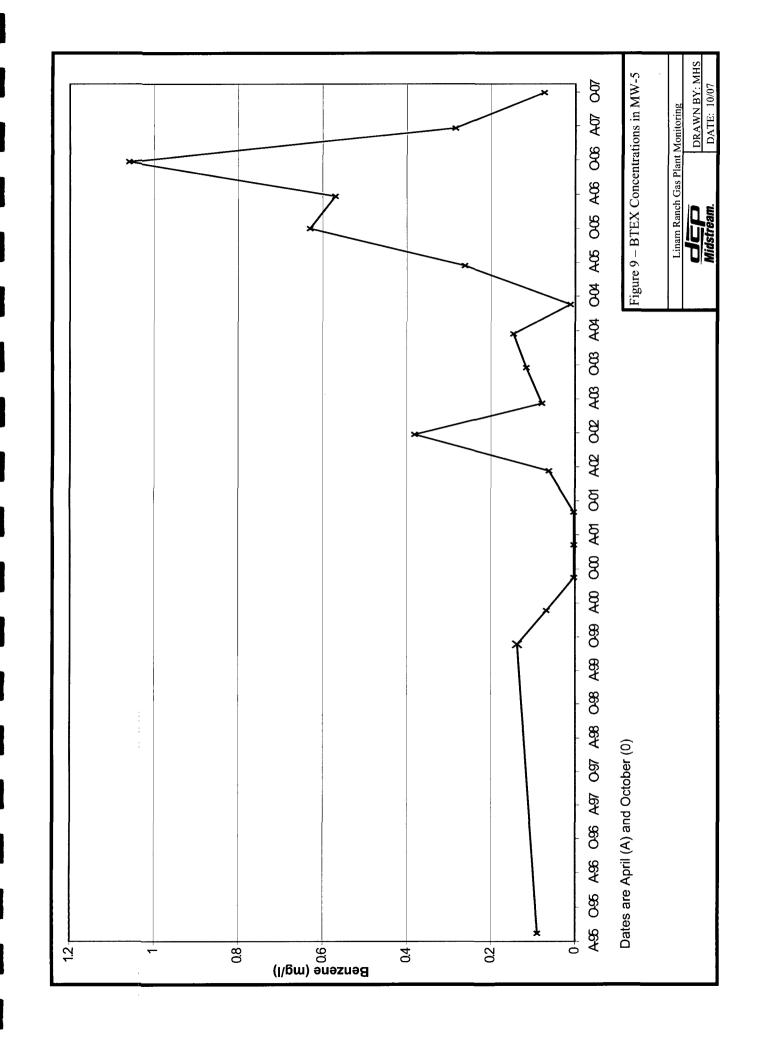












# FIELD SAMPLING DATA AND

# LABORATORY ANALYTICAL REPORT

|         | CLIENT: DCP Midstream |                     | am                     |             | MW-1       |             |                                                                            |
|---------|-----------------------|---------------------|------------------------|-------------|------------|-------------|----------------------------------------------------------------------------|
| S       | ITE NAME:             | Linam               | Ranch Gas              | s Plant     |            | DATE:       | 9/28/2007                                                                  |
| PRO     | DJECT NO.             |                     | F-114                  |             |            | SAMPLER:    | J. Fergerson/G. Van Deventer                                               |
| . •     |                       |                     |                        |             |            | •           |                                                                            |
| PURGIN  | G METHOD              | :                   | 🗹 Hand Bai             | iled 🗌 Pu   | mp If Pu   | mp, Type:   |                                                                            |
| SAMPLIN |                       | D:                  | 🗹 Disposab             | le Bailer [ | Direct     | from Discha | arge Hose                                                                  |
| DESĆRIE | BE EQUIPM             | ENT DECO            | NTAMINATI              | ON METH     | OD BEFC    | RE SAMPL    | ING THE WELL:                                                              |
| Glove   | es 🗌 Alcono           | x 🗌 Distill         | ed Water Ri            | nse 🗌 C     | Other:     |             | · · · · · · · · · · · · · · · · · · ·                                      |
| DISPOSA | AL METHOD             | OF PURG             | E WATER:               | Surface     | e Dischar  | ge 🗌 Drur   | ns 🗌 Disposal Facility                                                     |
| DEPTH T | EPTH OF W<br>O WATER: |                     | 42.56                  | Feet        | ·          |             |                                                                            |
|         | OF WATER<br>AMETER:   | 2.0                 |                        | Feet        |            | 5.7         | Minimum Gallons to<br>purge 3 well volumes<br>(Water Column Height x 0.49) |
| TIME    | VOLUME<br>PURGED      | темр.<br>° <b>с</b> | COND.<br><i>m</i> S/cm | , pH        | DO<br>mg\L | Turb        | PHYSICAL APPEARANCE AND<br>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        | -          | -           |                                                                            |
|         |                       |                     |                        |             |            |             | ·                                                                          |
|         |                       |                     | -                      | ,           |            |             |                                                                            |
|         |                       |                     | •                      |             |            |             |                                                                            |
|         |                       |                     |                        |             |            |             |                                                                            |
|         |                       |                     |                        |             |            | · .         | · · · · · · · · · · · · · · · · · · ·                                      |
|         |                       |                     |                        |             |            |             | ·                                                                          |
|         | ;                     |                     |                        |             |            |             | ·                                                                          |
|         | ·                     |                     |                        |             |            |             | ·                                                                          |
|         |                       |                     |                        |             |            |             |                                                                            |
|         |                       |                     |                        |             |            |             | <u> </u>                                                                   |
| 0:14    | :Total Time           | e (hr:min)          | 6                      | :Total Vol  | (gal)      | 0.43        | :Flow Rate (gal/min)                                                       |
| SAMF    | PLE NO.:              | Collected S         | ample No.:             | 070928      | 1045       |             |                                                                            |
| ANAI    | LYSES:                | BTEX (802           | 1-B)                   |             |            |             |                                                                            |
| COM     | MENTS:                |                     |                        |             |            |             |                                                                            |
|         |                       |                     |                        | •           |            |             |                                                                            |

|               | CLIENT:              | DC          | P Midstre      | am                                    | -          | WELL ID:    | MW-2                                                    |
|---------------|----------------------|-------------|----------------|---------------------------------------|------------|-------------|---------------------------------------------------------|
| S             | ITE NAME:            | Linam       | Ranch Gas      | s Plant                               | -          | DATE:       | 9/28/2007                                               |
| PRO           | DJECT NO.            |             | F-114          |                                       | _          | SAMPLER:    | J. Fergerson/G. Van Deventer                            |
|               |                      |             | Υ              |                                       |            |             |                                                         |
| PURGING       | G METHOD             | :           | 🗸 Hand Bai     | led 🗌 Pu                              | mp If Pu   | mp, Type:   |                                                         |
| SAMPLIN       |                      | D:          | 🗹 Disposab     | le Bailer                             | Direct     | from Discha | arge Hose 🔲 Other:                                      |
| DESCRIE       |                      | ENT DECO    | NTAMINATI      | ON METH                               | OD BEFC    | RE SAMPL    | ING THE WELL:                                           |
| ✓ Glove       | s 🗌 Alcono           | x 🗌 Distill | ed Water Ri    | nse 🗌 🤇                               | Other:     |             |                                                         |
| DISPOSA       |                      | OF PURG     | E WATER:       | Surface                               | e Discharç | ge 🗍 Drur   | ns Disposal Facility                                    |
| TOTAL D       | EPTH OF V            | VELL:       | 50.50          | Feet                                  |            |             |                                                         |
| HEIGHT        | O WATER:<br>OF WATER | COLUMN:     | 23.45<br>27.05 | Feet<br>Feet                          |            | 13.2        | Minimum Gallons to                                      |
|               |                      | 2.0         |                |                                       |            |             | purge 3 well volumes                                    |
| TIME          | VOLUME               | TEMP.       | COND.          | pН                                    | DO         | Turb        | (Water Column Height x 0.49)<br>PHYSICAL APPEARANCE AND |
|               | PURGED               | °C          | <i>m</i> S/cm  | pri                                   | _mg\L      |             | REMARKS                                                 |
| <u>11:</u> 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                                  | -          | -           |                                                         |
| ·             |                      |             |                |                                       |            |             |                                                         |
| ·             |                      |             |                | · · · ·                               |            |             | · · · · · · · · · · · · · · · · ·                       |
|               |                      |             |                |                                       |            |             |                                                         |
|               | <u> </u>             |             |                |                                       |            | · ·         | ·<br>·                                                  |
| <u> </u>      | <u> </u>             |             |                | · · · · · · · · · · · · · · · · · · · |            | · · · · ·   |                                                         |
| <u> </u>      |                      |             |                |                                       |            |             | · · · · · · · · · · · · · · · · · · ·                   |
|               |                      |             |                | . · _                                 |            | ······      |                                                         |
|               |                      |             |                |                                       |            |             | · · · · · · · · · · · · · · · · · · ·                   |
|               |                      |             |                |                                       |            |             |                                                         |
| 0:30          | :Total Time          | e (hr:min)  | 14             | :Total Vol                            | l(gal)     | 0.47        | Flow Rate (gal/min)                                     |
| b             | LE NO.:              | Collected S |                | 070928                                |            | <u> </u>    |                                                         |
|               | YSES:                | BTEX (802   |                |                                       |            |             |                                                         |
|               | MENTS:               |             | IS/MSD San     | nples!                                |            |             |                                                         |
|               |                      |             |                | 1                                     |            |             |                                                         |

| •       | CLIENT:             | DC                   | P Midstre              | am         | -          | WELL ID:  | MW-3                                                                       |
|---------|---------------------|----------------------|------------------------|------------|------------|-----------|----------------------------------------------------------------------------|
| Ś       | SITE NAME:          | Linam                | Ranch Gas              | s Plant    | -          | DATE:     | 9/28/2007                                                                  |
|         |                     |                      | F-114                  |            |            |           | J. Fergerson/G. Van Deventer                                               |
| •       |                     |                      |                        |            |            |           |                                                                            |
| PURGIN  | G METHOD            |                      | 🖸 Hand Bai             | iled 🗌 Pu  | imp if Pu  | mp, Type: |                                                                            |
|         |                     |                      |                        |            |            |           | arge Hose                                                                  |
| DESCRI  | BE EQUIPM           | ENT DECO             | NTAMINATI              | ON METH    | OD BEFC    | RE SAMPI  | ING THE WELL:                                                              |
| Glove   | es 🗌 Alcono         | x 🗌 Distil           | led Water Ri           | nse 🗌 (    | Other:     |           |                                                                            |
| DISPOS  | AL METHOE           | ) OF PURG            | E WATER:               | ✓ Surface  | e Dischar  | ge 🗌 Drui | ms 🔲 Disposal Facility                                                     |
| DEDTH 1 |                     |                      | 55.30<br>46.39         | Feet       |            | . '       |                                                                            |
|         | OF WATER<br>AMETER: |                      | 8.91<br>Inch           | Feet       |            | 4.4       | Minimum Gallons to<br>purge 3 well volumes<br>(Water Column Height x 0.49) |
| TIME    | VOLUME<br>PURGED    | TEMP.<br>_° <b>C</b> | COND.<br><i>m</i> S/cm | pН         | DO<br>mg\L | Turb      | PHYSICAL APPEARANCE AND<br>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       | -          |           |                                                                            |
|         |                     |                      | · ·                    |            |            |           |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
|         | •                   |                      |                        |            |            |           | · ·                                                                        |
|         |                     |                      |                        |            |            |           |                                                                            |
|         | :                   |                      |                        |            |            | ,<br>     |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
|         |                     |                      |                        |            |            |           |                                                                            |
| 0:14    | :Total Time         | e (hr:min)           | 5                      | :Total Vol | (gal)      | 0.36      | :Flow Rate (gal/min)                                                       |
| SAMF    | PLE NO.:            | Collected S          | Sample No.:            | 070928     | 0820       |           |                                                                            |
| ANA     | LYSES:              | BTEX (802            | 1-B)                   |            | · · · · ·  |           |                                                                            |
| COM     | MENTS:              |                      |                        |            |            | · · ·     |                                                                            |
|         |                     |                      |                        |            |            | χ.        |                                                                            |

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|            | CLIENT:           | DC                                    | P Midstrea                          | am          |            | WELL ID:    | MW-5                                    |
|------------|-------------------|---------------------------------------|-------------------------------------|-------------|------------|-------------|-----------------------------------------|
| S          | ITE NAME:         | Linam                                 | Ranch Gas                           | Bent        |            |             | 9/28/2007                               |
| PRC        | JECT NO.          |                                       | F-114                               |             |            | SAMPLER:    | J. Fergerson/G. Van Deventer            |
|            |                   |                                       |                                     |             |            |             |                                         |
| PURGINO    |                   | :                                     | 🗹 Hand Bai                          | led 🗌 Pu    | mp If Pu   | mp, Type:   |                                         |
| SAMPLIN    |                   | <b>D:</b>                             | 🗹 Disposab                          | le Bailer   | Direct f   | from Discha | arge Hose 🗌 Other:                      |
| DESCRIE    | BE EQUIPM         | ENT DECO                              | NTAMINATI                           | ON METHO    | DD BEFO    | RE SAMPL    | ING THE WELL:                           |
| Glove      | s 🗌 Alconc        | ox 🗌 Distill                          | led Water Ri                        | nse 🗌 C     | Other:     |             | · · · ·                                 |
| DISPOSA    |                   |                                       | E WATER:                            |             | Dischar    | ae 🗌 Drur   | ms 🗹 Disposal Facility                  |
|            |                   |                                       | 55.20                               |             |            | ,           | ,                                       |
| DEPTH T    | O WATER:          | V L L L .                             | 46.57                               | Feet        |            |             |                                         |
|            |                   | COLUMN:<br>4.0                        |                                     | Feet        |            | 16.9        | Minimum Gallons to purge 3 well volumes |
|            |                   |                                       |                                     |             |            |             | (Water Column Height x 1.96)            |
| TIME       | VOLUME<br>PURGED  | TEMP.<br>° <b>C</b>                   | COND.<br><i>m</i> S/cm <sup>2</sup> | рН .        | DO<br>mg\L | Turb        | PHYSICAL APPEARANCE AND<br>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        | -          | _           |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
| , <b>-</b> |                   |                                       |                                     |             |            |             | ·                                       |
|            |                   |                                       |                                     |             |            | ·           |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
|            |                   |                                       | ·                                   |             |            |             |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
|            |                   |                                       |                                     |             |            |             |                                         |
|            | L                 | · · · · · · · · · · · · · · · · · · · | 40                                  | ·T-4-114    | ()         | 0.70        | I Dete (c - l'anim)                     |
| 0:25       | :Total Time       |                                       | - <u>18</u>                         | :Total Vol  |            | 0.72        | :Flow Rate (gal/min)                    |
|            | LE NO.:<br>_YSES: | BTEX (802                             | Sample No.:                         | 070929      | 1120       |             | <i>t</i> ,                              |
|            | MENTS:            |                                       | <u>ו-ם)</u><br>Duplicate Sar        | mple No · ( | 17002010   |             | ¥ (8021_B)                              |
|            | VIEINIO.          | Conecteu L                            | Jupilicate Sal                      | 1101. U     | 51032010   |             |                                         |

|         | CLIENT: DCP Midstream |              |                                               |            | -         | WELL ID:                        | MW-7                                                    |  |  |
|---------|-----------------------|--------------|-----------------------------------------------|------------|-----------|---------------------------------|---------------------------------------------------------|--|--|
| S       | ITE NAME:             | Linam        | Ranch Gas                                     | s Plant    | -         | DATE:                           | 9/28/2007                                               |  |  |
|         |                       |              | F-114                                         |            |           | SAMPLER: J. Fergerson/G. Van De |                                                         |  |  |
|         |                       |              |                                               |            |           |                                 |                                                         |  |  |
| PURGINO | G METHOD              | :            | ✓ Hand Bai                                    | iled 🗌 Pu  | mp If Pu  | mp, Type:                       |                                                         |  |  |
|         |                       |              |                                               |            |           |                                 | arge Hose Other:                                        |  |  |
| DESCRIE |                       | ENT DECO     | NTAMINATI                                     | ON METH    | OD BEFC   | RE SAMPL                        | ING THE WELL:                                           |  |  |
| ☑ Glove | s 🗋 Alcono            | ox 🗌 Distill | led Water Ri                                  | nse 🗌 (    | Other:    |                                 |                                                         |  |  |
|         |                       |              |                                               |            |           |                                 |                                                         |  |  |
| DISPOSA | AL METHOD             | OF PURG      | E WATER:                                      | Surface    | e Dischar | ge ∐Drur                        | ns 🗌 Disposal Facility                                  |  |  |
| TOTAL D | EPTH OF V<br>O WATER: | VELL:        | <u>62.50</u><br>59.84                         | Feet       |           |                                 |                                                         |  |  |
|         |                       |              | 2.66                                          | Feet       |           | 1.3                             | Minimum Gallons to                                      |  |  |
| WELL DI | AMETER:               | 2.0          | Inch                                          |            |           |                                 | purge 3 well volumes                                    |  |  |
| ТІМЕ    | VOLUME                | TEMP.        | COND.                                         |            | DO        | Turb                            | (Water Column Height x 0.49)<br>PHYSICAL APPEARANCE AND |  |  |
|         | PURGED                | °C           | <i>m</i> S/cm                                 | рН         | mg\L      | Turb                            | 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       | -         | -                               | · ·                                                     |  |  |
|         |                       |              | ··· <b>··································</b> |            |           |                                 |                                                         |  |  |
|         |                       |              |                                               |            |           | ,                               |                                                         |  |  |
|         |                       |              | ·                                             |            |           |                                 | ·                                                       |  |  |
|         |                       |              |                                               |            |           |                                 | · · · · · · · · · · · · · · · · · · ·                   |  |  |
|         |                       |              |                                               |            |           |                                 |                                                         |  |  |
| L       |                       |              |                                               |            |           |                                 | · · · · · · · · · · · · · · · · · · ·                   |  |  |
| ļ       |                       |              |                                               |            |           |                                 | · · · · · · · · · · · · · · · · · · ·                   |  |  |
|         |                       |              |                                               |            |           |                                 |                                                         |  |  |
|         |                       |              | ·                                             |            |           |                                 | · · · · · · · · · · · · · · · · · · ·                   |  |  |
|         |                       |              |                                               |            |           |                                 | <u>`                                </u>                |  |  |
| 5:22    | :Total Time           | e (hr:min)   | 0.75                                          | :Total Vol | (gal)     | 0.00                            | :Flow Rate (gal/min)                                    |  |  |
| SAMP    | LE NO.:               | Collected S  | Sample No.:                                   | 070928     | 1315      |                                 | · · · · · · · · · · · · · · · · · · ·                   |  |  |
| ANAL    | YSES:                 | BTEX (802    | 1-B)                                          | -          |           | •                               | · · ·                                                   |  |  |
| COM     | MENTS:                |              | · · · ·                                       | -          |           |                                 |                                                         |  |  |
|         |                       |              |                                               |            |           |                                 |                                                         |  |  |

|          |                       | Linam                            | Panch Gas      |              |            |            |                                                      |
|----------|-----------------------|----------------------------------|----------------|--------------|------------|------------|------------------------------------------------------|
| PRO      | JECT NO               | SITE NAME: Linam Ranch Gas Plant |                |              |            |            | 9/28/2007                                            |
|          | •=•••••               |                                  | F-114          |              | S          | SAMPLER:   | J. Fergerson/G. Van Deventer                         |
|          | -                     |                                  |                |              |            |            |                                                      |
| PURGING  | METHOD:               |                                  | ✓ Hand Bai     | ed 🗌 Pu      | mp If Pur  | np, Type:  | •                                                    |
| SAMPLIN  |                       | ):                               | 🗸 Disposab     | le Bailer    | Direct f   | rom Discha | arge Hose 🗌 Other:                                   |
| DESCRIB  |                       | ENT DECO                         | NTAMINATI      |              | DD BEFO    | RE SAMPL   | ING THE WELL:                                        |
| ✓ Gloves | a 🗌 Alcono            | x 🗌 Distill                      | ed Water Rii   | nse 🗌 C      | Other:     |            |                                                      |
|          | METHOD                |                                  |                |              | Discharg   |            |                                                      |
|          |                       |                                  |                |              | e Discharg |            | ns 🔲 Disposal Facility                               |
|          | EPTH OF W<br>D WATER: |                                  | 58.30<br>35.02 | Feet<br>Feet |            |            |                                                      |
| HEIGHT C | F WATER               | COLUMN:                          | 23.28          | Feet         |            | 45.6       | Minimum Gallons to                                   |
| VELL DIA | METER:                | 4.0                              | Inch           |              |            |            | purge 3 well volumes<br>(Water Column Height x 1.96) |
| TIME     | VOLUME<br>PURGED      | TEMP.<br>°C                      | COND.<br>mS/cm | рН           | DO<br>mg\L | Turb       | PHYSICAL APPEARANCE AND<br>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         | -          | -          |                                                      |
|          |                       | 3                                |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            | · · ·      | ·                                                    |
|          |                       |                                  |                |              |            | · .        |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            |                                                      |
|          |                       |                                  |                |              |            |            | · · · · · · · · · · · · · · · · · · ·                |
| 0:42     | :Total Time           | e (hr:min)                       | 47             | :Total Vol   | (gal)      | 1.12       | :Flow Rate (gal/min)                                 |
| SAMPL    | E NO.:                | Collected S                      | Sample No.:    | 070928       | 1300       |            |                                                      |
| ANAL     | YSES:                 | BTEX (802                        | 1-B)           |              |            |            |                                                      |
| COMM     | IENTS:                |                                  |                |              |            |            |                                                      |

|         | CLIENT: DCP Midstream |             |                       |             | _          | WELL ID:   | MW-9                                                 |
|---------|-----------------------|-------------|-----------------------|-------------|------------|------------|------------------------------------------------------|
| S       | ITE NAME:             | Linam       | Ranch Gas             | Plant       |            | DATE:      | 9/28/2007                                            |
| PRO     | DJECT NO.             | •           | F-114                 |             |            | SAMPLER:   | J. Fergerson/G. Van Deventer                         |
|         |                       |             |                       |             | -          |            |                                                      |
| PURGIN  | G METHOD              | :           | 🗸 Hand Bai            | led 🗌 Pu    | mp If Pur  | np, Type:  | <b></b>                                              |
| SAMPLIN |                       | D:          | 🗹 Disposab            | le Bailer [ | Direct f   | rom Discha | arge Hose                                            |
| DESCRIE |                       | ENT DECO    | NTAMINATI             | ON METH     | OD BEFO    | RE SAMPL   | ING THE WELL:                                        |
| Glove   | s 🗌 Alcono            | x 🗌 Distill | ed Water Ri           | nse 🗌 C     | Other:     |            |                                                      |
|         |                       |             |                       |             |            |            |                                                      |
| DISPOSA | LMETHOL               | OF PURG     | E WATER:              | ⊡ Surface   | e Discharg | je ∐Drur   | ns 🗌 Disposal Facility                               |
|         | EPTH OF V             | VELL:       | <u>59.10</u><br>49.83 | Feet        |            |            |                                                      |
| HEIGHT  | O WATER.              | COLUMN:     | <u>49.83</u><br>9.27  | Feet        |            | 4.5        | Minimum Gallons to                                   |
|         | AMETER:               | 2.0         | Inch                  |             |            |            | purge 3 well volumes<br>(Water Column Height x 0.49) |
| TIME    | VOLUME                | TEMP.       | COND.                 | pН          | DO         | Turb       | PHYSICAL APPEARANCE AND                              |
|         | PURGED                | °C          | <i>m</i> S/cm         | рп          | mg\L       |            | 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    | <u>5</u> .1           | 19.1        | 1.10                  | 6.84        | -          | . –        |                                                      |
|         |                       |             |                       |             |            |            |                                                      |
|         |                       |             |                       |             |            |            | · · · · · · · · · · · · · · · · · · ·                |
|         |                       |             |                       |             |            |            |                                                      |
|         |                       |             |                       |             |            |            | · · · · · · · · · · · · · · · · · · ·                |
|         |                       |             |                       |             |            |            | · ·                                                  |
|         |                       |             |                       |             |            |            |                                                      |
|         |                       |             |                       |             |            |            |                                                      |
|         |                       |             | •                     |             | ×          |            |                                                      |
|         |                       |             | /                     |             |            |            |                                                      |
|         |                       |             |                       |             |            |            |                                                      |
| ິ 0:11  | :Total Time           | ə (hr:min)  | 5.1                   | :Total Vol  | (gal)      | 0.46       | :Flow Rate (gal/min)                                 |
| SAMF    | LE NO.:               | Collected S | ample No.:            | 070928      | 0850       |            |                                                      |
| ANAI    | YSES:                 | BTEX (802   |                       |             |            | -          |                                                      |
|         | MENTS:                | · .         | . <u>I</u>            |             |            |            |                                                      |
|         |                       |             |                       |             |            | · ·        |                                                      |

|                     | CLIENT:              | DC                  | P Midstre                  | am         | _         | WELL ID:                              | MW-10                                                |
|---------------------|----------------------|---------------------|----------------------------|------------|-----------|---------------------------------------|------------------------------------------------------|
| S                   | ITE NAME:            | Linam               | Ranch Gas                  | s Plant    | _         |                                       | 9/28/2007                                            |
|                     |                      |                     | F-114                      |            |           | SAMPLER:                              | J. Fergerson/G. Van Deventer                         |
|                     |                      |                     |                            |            |           |                                       |                                                      |
| PURGIN              | G METHOD             | :                   | ✓ Hand Bai                 | led 🗌 Pu   | imp lf Pu | mp, Type:                             |                                                      |
| SAMPLIN             | IG METHO             | D:                  | 🗹 Disposab                 | le Bailer  | Direct f  | arge Hose 🗌 Other;                    |                                                      |
| DESCRI              | BE EQUIPM            | ENT DECO            | NTAMINATI                  | ON METH    | OD BEFC   | RE SAMPL                              | LING THE WELL:                                       |
| Glove               | es 🗌 Alcono          | x 🗌 Distil          | led Water Ri               | nse 🗌 (    | Other:    |                                       |                                                      |
| DISPOS              | AL METHOE            | OF PURG             | E WATER:                   | Surface    | e Dischar | ge 🗌 Drui                             | ms 🗹 Disposal Facility                               |
|                     |                      | VELL:               | <u>65.00</u><br>49.76      | Feet       | . ·       |                                       |                                                      |
| HEIGHT              | O WATER:<br>OF WATER | COLUMN:             | 49.76                      | Feet       |           | 29.8                                  | Minimum Gallons to                                   |
| WELL DI             | AMETER:              | 4.0                 | Inch                       | · · ·      |           |                                       | purge 3 well volumes<br>(Water Column Height x 1.96) |
| TIME                | VOLUME               |                     | COND.                      | pН         | DO        | Turb                                  | PHYSICAL APPEARANCE AND                              |
|                     | PURGED               | °C                  | <i>m</i> S/cm <sup>*</sup> |            | mg\L      |                                       | REMARKS                                              |
| 9:07                | 0.0                  |                     | -                          | -          |           | -                                     | Began Hand Bailing!                                  |
| <u>9:17</u><br>9:28 | 10.0<br>20.0         | <u>19.9</u><br>20.1 | <u>    1.49</u><br>1.54    | 7.09       |           |                                       |                                                      |
| 9:42                | 31.0                 | 20.1                | 1.54                       | 7.17       | -         | -                                     |                                                      |
|                     | 51.0                 | 20.2                | 1.04                       | 7.15       |           |                                       |                                                      |
|                     |                      |                     |                            |            |           |                                       |                                                      |
|                     | 1                    |                     |                            |            |           | · · · · · · · · · · · · · · · · · · · |                                                      |
|                     |                      |                     |                            |            |           |                                       |                                                      |
|                     |                      |                     |                            |            |           |                                       | · · · · ·                                            |
|                     |                      |                     |                            |            |           |                                       |                                                      |
|                     |                      |                     |                            |            |           |                                       |                                                      |
|                     |                      |                     |                            |            |           |                                       | · · · · · · · · · · · · · · · · · · ·                |
|                     |                      |                     |                            |            |           |                                       |                                                      |
|                     |                      |                     |                            |            |           |                                       | <u> </u>                                             |
| 0:35                | :Total Time          | e (hr:min)          | 31                         | :Total Vol | (gal)     | 0.88                                  | :Flow Rate (gal/min)                                 |
| SAMF                | LE NO.:              | Collected S         | ample No.:                 | 070928     | 0945      |                                       |                                                      |
| ANA                 | LYSES:               | BTEX (802           | 1-B)                       | ······.    | ·         |                                       |                                                      |
| COM                 | MENTS:               |                     |                            |            |           |                                       |                                                      |
|                     | ·                    |                     |                            |            |           |                                       | CIDCE Linem Bench/Burge & Som                        |

|                    | CLIENT: DCP Midstream |                     |                        |              |            | WELL ID:    | MW-10d                                               |  |
|--------------------|-----------------------|---------------------|------------------------|--------------|------------|-------------|------------------------------------------------------|--|
| S                  | ITE NAME:             | Linam               | Ranch Gas              | s Plant      | -          | DATE:       | 9/28/2007                                            |  |
| PRO                | DJECT NO.             |                     | F-114                  |              | _ :        | SAMPLER:    | J. Fergerson/G. Van Deventer                         |  |
|                    |                       | 1                   |                        |              |            |             |                                                      |  |
|                    | G METHOD              |                     |                        |              |            |             |                                                      |  |
| SAMPLIN            | IG METHO              | D:                  | ✓ Disposab             | le Bailer    | Direct     | from Discha | arge Hose Other:                                     |  |
| DESCRIE            | BE EQUIPM             | ENT DECO            | ΝΤΑΜΙΝΑΤΙ              | ON METH      | OD BEFC    | RE SAMPL    | ING THE WELL:                                        |  |
| Glove              | s 🗌 Alcono            | ox 🗌 Distill        | ed Water Ri            | nse 🔲 🤇      | Other:     | <del></del> |                                                      |  |
| DISPOSA            | AL METHOD             | OF PURG             | E WATER:               | Surface      | e Discharç | ge 🗌 Drur   | ms 🗹 Disposal Facility                               |  |
| TOTAL D<br>DEPTH T | EPTH OF V<br>O WATER: | VELL:               | 79.00                  | Feet<br>Feet |            | . ,         | · _                                                  |  |
|                    |                       |                     | 50.84<br>28.16         | Feet         |            | 13.8        | Minimum Gallons to                                   |  |
| WELL DI            | AMETER:               | 2.0                 | Inch                   |              |            |             | purge 3 well volumes<br>(Water Column Height x 0.49) |  |
| TIME               | VOLUME<br>PURGED      | TEMP.<br>° <b>C</b> | COND.<br><i>m</i> S/cm | рН           | DO<br>mg\L | Turb        | PHYSICAL APPEARANCE AND<br>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         |            | . <u>.</u>  |                                                      |  |
| 9:52               | 15.0                  | 20.2                | 1.12                   | 7.25         | -          |             | ·                                                    |  |
|                    |                       |                     | •                      |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
|                    | /                     | •                   |                        |              |            |             |                                                      |  |
|                    |                       |                     |                        |              |            |             |                                                      |  |
| 0:45               | :Total Time           | e (hr:min)          | 15                     | :Total Vol   | (gal)      | 0.33        | :Flow Rate (gal/min)                                 |  |
| SAMP               | LE NO.:               | Collected S         | ample No.:             | 070929       | 0955       |             |                                                      |  |
| ANAI               | YSES:                 | BTEX (802           | 1-B)                   |              |            |             | · · · · · · · · · · · · · · · · · · ·                |  |
| COM                | MENTS:                |                     |                        |              |            |             |                                                      |  |
|                    |                       | · .                 |                        |              |            |             | · · · · · · · · · · · · · · · · · · ·                |  |

|         | CLIENT:             | DC                  | P Midstre              | am          |                        | WELL ID:   | MW-11                                   |  |
|---------|---------------------|---------------------|------------------------|-------------|------------------------|------------|-----------------------------------------|--|
| s       | ITE NAMĖ:           | Linam               | Ranch Gas              | s Plant     | DATE: <u>9/28/2007</u> |            |                                         |  |
| PR      | OJECT NO.           | <u>0</u>            | F-114                  |             | . 🤅                    | SAMPLER:   | J. Fergerson/G. Van Deventer            |  |
| ·<br>·  |                     |                     |                        |             |                        |            |                                         |  |
| PURGIN  | G METHOD            | :                   | 🗸 Hand Bai             | iled 🗌 Pu   | mp If Pur              | mp, Type:  |                                         |  |
| SAMPLIN |                     | D:                  | 🗸 Disposab             | le Bailer [ | Direct f               | rom Discha | arge Hose 🗌 Other:                      |  |
| DESCRIE | BE EQUIPM           | ENT DECO            | NTAMINATI              | ON METH     | OD BEFO                | RE SAMPL   | ING THE WELL:                           |  |
| Glove   | es 🗌 Alcond         | ox 🗌 Distil         | led Water Ri           | inse 🗌 C    | Other:                 |            | · · · · · · · · · · · · · · · · · · ·   |  |
| DISPOS  |                     | OF PURG             | E WATER:               | Surface     | e Discharg             | e 🗌 Drur   | ms 🔲 Disposal Facility                  |  |
| TOTAL D | EPTH OF V           | VELL:               | 62.80                  | Feet        |                        |            |                                         |  |
| DEPTH 1 | O WATER:            |                     | 50.73                  | Feet        |                        |            |                                         |  |
|         | OF WATER<br>AMETER: |                     |                        | Feet        | -                      | 23.6       | Minimum Gallons to purge 3 well volumes |  |
|         |                     |                     | 0010                   |             |                        |            | (Water Column Height x 1.96)            |  |
| TIME    | PURGED              | TEMP.<br>° <b>C</b> | COND.<br><i>m</i> S/cm | рН          | DO<br>mg\L             | Turb       | PHYSICAL APPEARANCE AND<br>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        |                        | *          |                                         |  |
|         |                     |                     |                        |             |                        | · · ·      | · · · · · · · · · · · · · · · · · · ·   |  |
|         |                     |                     |                        |             |                        |            |                                         |  |
|         |                     |                     | <u></u>                |             |                        |            |                                         |  |
|         |                     |                     |                        |             |                        |            |                                         |  |
|         | <del> </del>        | -                   |                        |             |                        | · · · · ·  |                                         |  |
|         |                     |                     |                        | /<br>. ·    | <u> </u>               |            |                                         |  |
|         |                     |                     |                        |             |                        | Ņ          |                                         |  |
|         |                     |                     | ×                      |             |                        |            | · · · ·                                 |  |
|         |                     |                     |                        |             |                        |            |                                         |  |
| 0:27    | :Total Time         | ə (hr:min)          | 24                     | :Total Vol  | (gal)                  | 0.89       | :Flow Rate (gal/min)                    |  |
| SAMF    | PLE NO.:            | Collected S         | ample No.:             | 070929      | 1040                   |            | ·                                       |  |
| ANA     | LYSES:              | BTEX (802           | 1-B)                   |             | 5'                     |            |                                         |  |
| COM     | MENTS:              |                     |                        |             |                        |            |                                         |  |
|         | · · · ·             |                     |                        |             |                        |            |                                         |  |

|              | CLIENT:               | DC                  | P Midstre             | am           |            | WELL ID:    | MW-13                                                |
|--------------|-----------------------|---------------------|-----------------------|--------------|------------|-------------|------------------------------------------------------|
| S            | TE NAME:              | Linam               | Ranch Gas             | s Plant      |            | DATE:       | 9/28/2007                                            |
| PRC          | JECT NO.              |                     | F-114                 |              |            | SAMPLER:    | J. Fergerson/G. Van Deventer                         |
|              |                       |                     |                       |              |            |             |                                                      |
| PURGING      | METHOD:               |                     | ✓ Hand Bai            | iled 🗌 Pu    | mp lf Pu   | mp, Type:   |                                                      |
| SAMPLIN      | G METHOD              | <b>)</b> :          | 🗹 Disposab            | le Bailer    | Direct     | from Discha | arge Hose                                            |
| DESCRIB      | E EQUIPM              | ENT DECO            | NTAMINATI             | ON METHO     | DD BEFC    | RE SAMPL    | ING THE WELL:                                        |
| ✓ Glove      | s 🗌 Alcono            | x 🗌 Distill         | ed Water Ri           | inse 🗌 C     | Other:     |             |                                                      |
|              |                       |                     |                       | C Surface    |            |             | ns 🗌 Disposal Facility                               |
| •            |                       |                     |                       |              | Dischar    | ye 🛄 Diui   |                                                      |
| TOTAL D      | EPTH OF W<br>O WATER: | /ELL:               | <u>63.00</u><br>51.42 | Feet         |            |             |                                                      |
| HEIGHT (     | OF WATER              | COLUMN:             | 11.58                 | Feet         |            | 22.7        | Minimum Gallons to                                   |
| WELL DIA     | METER:                | 4.0                 | Inch                  |              |            |             | purge 3 well volumes<br>(Water Column Height x 1.96) |
| TIME         | VOLUME                |                     | COND.                 | рН           | DO         | Turb        | PHYSICAL APPEARANCE AND<br>REMARKS                   |
| 8:21         | PURGED<br>0.0         | 0                   | <u>m S/cm</u><br>-    |              | _mg\L<br>- |             |                                                      |
| 8:27         | 9.0                   | - 19.2              | 1.29                  | -<br>6.78    |            |             | Began Hand Bailing!                                  |
|              |                       |                     | ·                     |              |            |             |                                                      |
| 8:37<br>8:46 | <u>17.0</u><br>25.0   | <u>19.3</u><br>19.3 | <u> </u>              | 6.80<br>6.83 |            | -           | <u> </u>                                             |
| 0.40         | 25.0                  | 19.3                | 1.31                  | 0.03         |            |             |                                                      |
| i            |                       |                     | ·                     |              |            |             |                                                      |
|              |                       |                     | ·                     |              |            |             |                                                      |
| · · ·        |                       |                     |                       |              |            |             |                                                      |
|              |                       |                     |                       | . <u>·</u>   |            |             |                                                      |
| <u> </u>     |                       |                     |                       |              | n          |             |                                                      |
|              |                       |                     |                       |              |            |             |                                                      |
|              |                       |                     |                       |              |            |             | • · · · · · · · · · · · · · · · · · · ·              |
|              |                       |                     |                       |              |            |             | · · · · · · · · · · · · · · · · · · ·                |
|              |                       |                     |                       |              |            |             |                                                      |
| 0:25         | :Total Time           | (hr:min)            | 25                    | :Total Vol ( | (gal)      | 1.00        | :Flow Rate (gal/min)                                 |
| SAMP         |                       |                     | ample No.:            | 070928       |            |             |                                                      |
|              | -                     | BTEX (802           |                       | ,            |            |             |                                                      |
|              | IENTS:                |                     |                       |              | · .        |             |                                                      |
| •            | •                     |                     |                       |              |            |             |                                                      |

806 • 794 • 1296 6701 Aberdeen Avenue, Suite 9. Lubbock, Texas 79424 800+378+1296 FAX-806 • 794 • 1298

200 East Sunset Road, Suite E 5002 Basin Street, Suite A1 6015 Harris Parkway, Suite 110 Ft. Worth, Texas 76132

El Paso, Texas 79922 Midland, Texas 79703 E-Mail: lab@traceanalysis.com

888 • 588 • 3443

915•585•3443 FAX 915 .585 .4944 432 • 689 • 6301 FAX 432 • 689 • 6313 817 • 201 • 5260

# 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.

|                        |                                                                                                                                                                                                                                                                   | $\operatorname{Date}$                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Time                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Date                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Description            | Matrix                                                                                                                                                                                                                                                            | Taken                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Taken                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Received                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| MW-1 (0709281045)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10:45                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-10-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MW-2 (0709281140)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11:40                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-10-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MW-3 (0709280820)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 08:20                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-10-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| MW-5 (0709281125)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 11:25                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-7 (0709281315)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 13:15                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-8 (0709281300)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | . 13:00                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-9 (0709280850)      | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 08:50                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-10 (0709280945)     | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09:45                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-10d (0709280955)    | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 09:55                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-11 (0709281040)     | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 10:40                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| MW-13 (0709280850)     | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 08:50                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-10-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| Duplicate (0709281400) | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 14:00                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007 - 10 - 01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Trip Blank             | water                                                                                                                                                                                                                                                             | 2007-09-28                                                                                                                                                                                                                                                                                                                                                                                                                                                                | 00:00                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 2007-10-01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|                        | MW-1 (0709281045)<br>MW-2 (0709281140)<br>MW-3 (0709280820)<br>MW-5 (0709281125)<br>MW-7 (0709281315)<br>MW-8 (0709281300)<br>MW-9 (0709280850)<br>MW-10 (0709280945)<br>MW-10 (0709280945)<br>MW-11 (0709281040)<br>MW-13 (0709280850)<br>Duplicate (0709281400) | MW-1 (0709281045)       water         MW-2 (0709281140)       water         MW-3 (0709280820)       water         MW-5 (0709281125)       water         MW-7 (0709281315)       water         MW-8 (0709281300)       water         MW-9 (0709280850)       water         MW-10 (0709280945)       water         MW-10d (0709280945)       water         MW-11 (0709281040)       water         MW-13 (0709280850)       water         Duplicate (0709281400)       water | DescriptionMatrixTakenMW-1 (0709281045)water2007-09-28MW-2 (0709281140)water2007-09-28MW-3 (0709280820)water2007-09-28MW-5 (0709281125)water2007-09-28MW-7 (0709281315)water2007-09-28MW-8 (0709281300)water2007-09-28MW-9 (0709280850)water2007-09-28MW-10 (0709280955)water2007-09-28MW-104 (0709280955)water2007-09-28MW-11 (0709280850)water2007-09-28MW-13 (0709280850)water2007-09-28MW-13 (0709280850)water2007-09-28Duplicate (0709281400)water2007-09-28 | DescriptionMatrixTakenTakenMW-1 (0709281045)water2007-09-2810:45MW-2 (0709281140)water2007-09-2811:40MW-3 (0709280820)water2007-09-2808:20MW-5 (0709281125)water2007-09-2811:25MW-7 (0709281315)water2007-09-2813:15MW-8 (0709281300)water2007-09-2813:00MW-9 (0709280850)water2007-09-2808:50MW-10 (0709280945)water2007-09-2809:45MW-10d (0709280945)water2007-09-2809:55MW-11 (0709281040)water2007-09-2810:40MW-13 (0709280850)water2007-09-2808:50Duplicate (0709281400)water2007-09-2814:00 |

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.

Michael april

Dr. Blair Leftwich, Director

### Standard Flags

 ${\bf B}\,$  - The sample contains less than ten times the concentration found in the method blank.

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# **Analytical Report**

#### Sample: 137995 - MW-1 (0709281045)

| Analysis:BTEXQC Batch:41709Prep Batch:36013 | · ]     | Analytical M<br>Date Analyz<br>Sample Prep | ed:     | S 8021B<br>2007-10-03<br>2007-10-02 | . · · · ,       | Prep Met<br>Analyzed<br>Prepared | By:                 |
|---------------------------------------------|---------|--------------------------------------------|---------|-------------------------------------|-----------------|----------------------------------|---------------------|
|                                             |         | R                                          | L       |                                     | ,               |                                  | •                   |
| Parameter Flag                              |         | Resu                                       | lt      | Units                               |                 | Dilution                         | $\operatorname{RL}$ |
| Benzene                                     |         | < 0.0010                                   | 0       | mg/L                                |                 | 1                                | 0.00100             |
| Toluene                                     |         | < 0.0010                                   | 0       | mg/L                                |                 | 1                                | 0.00100             |
| Ethylbenzene                                |         | < 0.0010                                   | 0       | mg/L                                |                 | 1                                | 0.00100             |
| Xylene                                      |         | < 0.0010                                   | 00      | mg/L                                |                 | 1                                | 0.00100             |
| Surrogate                                   | Flag    | Result                                     | Units   | Dilution                            | Spike<br>Amount | Percent<br>Recovery              | Recovery<br>Limits  |
| Trifluorotoluene (TFT)                      | Tiag    | 0.0916                                     | mg/L    | 1                                   | 0.100           | <u>92</u>                        | 55.9 - 102.7        |
| 4-Bromofluorobenzene (4-BFB)                |         | 0.0510<br>0.0621                           | mg/L    | 1                                   | 0.100           | 62                               | 47.6 - 121.4        |
| Sample: 137996 - MW-2 (070                  | 9281140 | )                                          |         |                                     |                 |                                  |                     |
| Analysis: BTEX                              |         | Analytical N                               | lethod: | S 8021B                             |                 | Prep Met                         | hod: S 5030B        |

| Analysis: BTEX<br>QC Batch: 41709<br>Prep Batch: 36013 |   | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | 5 8021B<br>2007-10-03<br>2007-10-02 | Analyzed By:<br>Prepared By: |          |         |
|--------------------------------------------------------|---|-------------------------------------------------------------|-------------------------------------|------------------------------|----------|---------|
| ·                                                      |   |                                                             | RL                                  | · · ·                        |          |         |
| Parameter                                              |   | Flag                                                        | Result                              | Units                        | Dilution | . RL    |
| Benzene                                                |   |                                                             | < 0.00100                           | mg/L                         | . 1 .    | 0.00100 |
| Toluene                                                |   |                                                             | < 0.00100                           | $\mathrm{mg/L}$              | . 1      | 0.00100 |
| Ethylbenzene                                           | е |                                                             | < 0.00100                           | mg/L                         | · 1      | 0.00100 |
|                                                        |   |                                                             |                                     | <i></i>                      |          |         |

| Xylene ´                     |                          | <0.0010 |       | mg/L<br>mg/L | ·····           | 1                   | 0.00100                                                   |
|------------------------------|--------------------------|---------|-------|--------------|-----------------|---------------------|-----------------------------------------------------------|
| Surrogate                    | $\mathbf{F}\mathbf{lag}$ | Result  | Units | Dilution     | Spike<br>Amount | Percent<br>Recovery | $egin{array}{c} { m Recovery} \\ { m Limits} \end{array}$ |
| 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:<br>QC Batch:<br>Prep Batch: | BTEX<br>41709<br>36013 |      | Analytical Method:<br>Date Analyzed:<br>Sample Preparation: | S 8021B<br>2007-10-03<br>2007-10-02 | Prep Method:<br>Analyzed By:<br>Prepared By: | Š 5030B             |
|---------------------------------------|------------------------|------|-------------------------------------------------------------|-------------------------------------|----------------------------------------------|---------------------|
|                                       |                        |      | $\operatorname{RL}$                                         |                                     | e                                            |                     |
| Parameter                             |                        | Flag | $\mathbf{Result}$                                           | Units                               | Dilution                                     | $\operatorname{RL}$ |
| Benzene                               |                        |      | < 0.00100                                                   | mg/L                                | 1                                            | 0.00100             |
| Toluene                               |                        |      | < 0.00100                                                   | mg/L                                | · 1                                          | 0.00100             |
| Ethylbenzene                          | е                      |      | < 0.00100                                                   | mg/L                                | 1                                            | 0.00100             |
| Xylene                                |                        |      | < 0.00100                                                   | mg/L                                | 1                                            | 0.00100             |

| Report Date: October 4, 2007<br>Linam Ranch Gas Plant/Duke E | nergy Fi | eld Services |        | Work Order:<br>Linam Ranch |                 | Page Number: 4 of 9<br>Lea County,NM |                    |  |
|--------------------------------------------------------------|----------|--------------|--------|----------------------------|-----------------|--------------------------------------|--------------------|--|
| burrogate                                                    | Flag     | Result       | Units  | Dilution                   | Spike<br>Amount | Percent<br>Recovery                  | Recovery<br>Limits |  |
| Trifluorotoluene (TFT)                                       |          | 0.0916       | mg/L   | 1                          | 0.100           | 92                                   | 55.9 - 102.7       |  |
| -Bromofluorobenzene (4-BFB)                                  |          | 0.0594       | mg/L   | 1                          | 0.100           | 59                                   | 47.6 - 121.4       |  |
|                                                              |          | •            |        | ).                         |                 |                                      |                    |  |
| Sample: 137998 - MW-5 (070                                   | 0928112  | :5)          |        |                            |                 |                                      |                    |  |
| Analysis: BTEX                                               |          | Analytical M | ethod: | S 8021B                    | ٩               | Prep Metl                            | nod: S 5030E       |  |
| QC Batch: 41709                                              |          | Date Analyze |        | 2007-10-03                 |                 | Analyzed                             | By:                |  |
| rep Batch: 36013                                             |          | Sample Prepa |        | 2007-10-02                 |                 | Prepared                             |                    |  |
|                                                              |          | RI           | L      |                            |                 |                                      | •                  |  |
| Parameter Flag                                               |          | Resul        |        | Units                      | D               | ilution                              | RI                 |  |
| Benzene                                                      |          | 0.070        |        | mg/L                       | . –             | 1                                    | 0.00100            |  |
| Foluene                                                      |          | < 0.0010     |        | m mg/L                     |                 | 1                                    | 0.00100            |  |
| Ethylbenzene                                                 | •        | 0.0359       |        | mg/L                       |                 | 1                                    | 0.0010             |  |
| Kylene                                                       |          | < 0.0010     | 0      | mg/L                       |                 |                                      | 0.0010             |  |
|                                                              |          |              | · ·    |                            | Spike           | Percent                              | Recovery           |  |
| Surrogate                                                    | Flag     |              | Units  | Dilution                   | Amount          | Recovery                             | Limits             |  |
| Irifluorotoluene (TFT)                                       |          | 0.101        | mg/L   | 1                          | 0.100           | 101                                  | 55.9 - 102.        |  |
| -Bromofluorobenzene (4-BFB)                                  |          | 0.0718       | · mg/L | 1                          | 0.100           | 72                                   | 47.6 - 121.4       |  |
|                                                              |          |              |        |                            | 1               |                                      |                    |  |
| Sample: 137999 - MW-7 (076                                   | 0928131  | .5)          |        | ,                          |                 |                                      |                    |  |
| Analysis: BTEX                                               |          | Analytical M | ethod: | S 8021B                    |                 | Prep Metl                            | hod: S 5030H       |  |
| QC Batch: 41709                                              |          | Date Analyze |        | 2007-10-03                 |                 | Analyzed                             |                    |  |
| Prep Batch: 36013                                            |          | Sample Prepa |        | 2007-10-02                 |                 | Prepared                             |                    |  |
| · ·                                                          |          |              |        |                            |                 | -                                    | v                  |  |
| Parameter Flag                                               |          | RI<br>Resul  |        | Units                      | D               | ilution                              | RI                 |  |
| Benzene                                                      |          | < 0.0010     |        | mg/L                       |                 | 1                                    | 0.0010             |  |
| Foluene                                                      |          | < 0.0010     |        | mg/L                       |                 | 1                                    | 0.0010             |  |
| Ethylbenzene                                                 |          | < 0.0010     |        | mg/L                       |                 | 1                                    | 0.0010             |  |
| Kylene                                                       |          | < 0.0010     |        | mg/L                       |                 | 1                                    | 0.0010             |  |
|                                                              |          |              |        |                            | Spike           | Percent                              | Recovery           |  |
| Surrogate                                                    | Flag     |              | Units  | Dilution                   | Amount          | Recovery                             | Limits             |  |
| Trifluorotoluene (TFT)                                       |          | 0.0916       | mg/L   |                            | 0.100           | 92                                   | 55.9 - 102.1       |  |
| -Bromofluorobenzene (4-BFB)                                  |          | 0.0621       | mg/L   | 1                          | 0.100           | 62                                   | 47.6 - 121.4       |  |
|                                                              | •        |              |        |                            |                 |                                      |                    |  |
| 1                                                            |          |              |        |                            |                 |                                      |                    |  |

| 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 ...

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sample 138000 continued ....

|                              |          | $\operatorname{RI}$ |       |          |        |          |               |
|------------------------------|----------|---------------------|-------|----------|--------|----------|---------------|
| Parameter Fla                | ag       | Result              |       | Units    | D      | ilution  | RL            |
|                              |          | RI                  | ı     |          |        | · .      |               |
| Parameter Fla                | ag       | Result              |       | Units    | D      | ilution  | $\mathbf{RL}$ |
| 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       |
|                              |          |                     |       |          | Spike  | Percent  | Recovery      |
| Surrogate                    | Flag     | Result              | Units | Dilution | Amount | Recovery | Limits        |
| Trifluorotoluene (TFT)       | <u> </u> | 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:         |
|             |       |                     | 1          |                      |

|                            |       | RI                     |       |          |        |          |                     |
|----------------------------|-------|------------------------|-------|----------|--------|----------|---------------------|
| Parameter I                | Flag  | $\operatorname{Resul}$ | t     | Units    | Dil    | lution   | $\operatorname{RL}$ |
| Benzene                    | · · · | < 0.0010               | ) .   | mg/L     |        | 1        | 0.00100             |
| Toluene '                  | ,     | < 0.0010               | ) .   | mg/L     |        | 1        | 0.00100             |
| Ethylbenzene               |       | < 0.0010               | )     | mg/L     | -      | 1        | 0.00100             |
| Xylene                     |       | < 0.0010               | )     | mg/L     |        | 1        | 0.00100             |
|                            |       |                        |       |          | Spike  | Percent  | Recovery            |
| Surrogate                  | Flag  | $\mathbf{Result}$      | Units | Dilution | Amount | Recovery | Limits              |
| Trifluorotoluene (TFT)     |       | 0.0848                 | mg/L  | 1        | 0.100  | 85       | 55.9 - 102.7        |
| 4-Bromofluorobenzene (4-BF | 'B)   | 0.0669                 | mg/L  | 1        | 0.100  | 67       | 47.6 - 121.4        |

#### Sample: 138002 - MW-10 (0709280945)

| Analysis:BTQC Batch:417Prep Batch:360 |       | ,    | Da         | alytical Me<br>ite Analyze<br>mple Prepa | d:    | Š 8021B<br>2007-10-03<br>2007-10-02 |               |      | Prep Met<br>Analyzed<br>Prepared | By:           |
|---------------------------------------|-------|------|------------|------------------------------------------|-------|-------------------------------------|---------------|------|----------------------------------|---------------|
|                                       |       |      |            | $\operatorname{RL}$                      |       |                                     |               | . '  |                                  |               |
| Parameter                             |       | Flag |            | $\operatorname{Result}$                  |       | Units                               | •             | Dilu | tion .                           | $\mathbf{RL}$ |
| 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                                    |       | mæ/T                                |               |      | 10 .                             | 0.00100       |
|                                       |       |      |            |                                          | ·     |                                     | $\mathbf{Sp}$ | ike  | Percent                          | Recovery      |
| Surrogate                             |       | Ē    | lag        | Result                                   | Units | Dilution                            | -             |      | Recovery                         | Limits        |
| Trifluorotoluene (                    | (TFT) |      | <u>-</u> - | 0.629                                    | mg/L  | . 10                                | 1.0           | 00   | 63                               | 55.9 - 102.7  |
|                                       | ÷     |      |            |                                          |       |                                     |               |      |                                  | antimuad      |

 $continued \ldots$ 

| Report Date: October 4, 2007<br>Linam Ranch Gas Plant/Duke                         | Energy Fi | eld Services                                                 | Work Order:<br>Linam Ranch         |                                     | Page Number: 6 of 9<br>Lea County,NM |                                  |                    |
|------------------------------------------------------------------------------------|-----------|--------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------------|----------------------------------|--------------------|
| sample continued                                                                   |           |                                                              |                                    |                                     |                                      |                                  |                    |
| Sumo moto                                                                          | Elem      | Degult                                                       | TInita                             | Dilution                            | Spike                                | Percent                          | Recovery<br>Limits |
| Surrogate<br>4-Bromofluorobenzene (4-BFB)                                          | Flag      | Result<br>0.779                                              | $\frac{\text{Units}}{\text{mg/L}}$ |                                     |                                      | Recovery<br>78                   | 47.6 - 121.4       |
| H DIOMOINUOIODENZENE (H-DI D)                                                      | ·····     | 0.175                                                        | <u> </u>                           |                                     |                                      |                                  |                    |
|                                                                                    |           |                                                              |                                    |                                     |                                      |                                  |                    |
| Sample: 138003 - MW-10d                                                            | (0709280  | 955)                                                         |                                    |                                     |                                      |                                  |                    |
| Analysis: BTEX                                                                     |           | Analytical M                                                 | ethod:                             | S 8021B                             |                                      | Prep Met                         | hod: S 5030I       |
| QC Batch: 41709                                                                    |           | Date Analyze                                                 | ed:                                | 2007-10-03                          |                                      | Analyzed                         | By:                |
| Prep Batch: 36013                                                                  |           | Sample Prepa                                                 | aration:                           | 2007-10-02                          |                                      | Prepared                         | By:                |
|                                                                                    |           | RL                                                           |                                    |                                     |                                      |                                  |                    |
| Parameter Fla                                                                      | ıg        | N Result                                                     |                                    | Units                               | Di                                   | lution                           | R                  |
| Benzene                                                                            |           | 0.218                                                        |                                    | mg/L                                |                                      | 1                                | 0.0010             |
| Toluene                                                                            |           | 0.0902                                                       |                                    | mg/L                                |                                      | 1                                | 0.0010             |
| Ethylbenzene                                                                       |           | 0.0212                                                       |                                    | $\mathrm{mg/L}$                     | •                                    | 1                                | 0.0010             |
| Xylene                                                                             |           | 0.0375                                                       |                                    | mg/L                                |                                      | 1                                | 0.0010             |
|                                                                                    |           |                                                              |                                    |                                     | Spike                                | Percent                          | Recovery           |
| Surrogate                                                                          | Flag      | Result                                                       | Units                              | Dilution                            | Amount                               | Recovery                         | Limits             |
| Irifluorotoluene (TFT)                                                             | _         | 0.0781                                                       | mg/L                               | 1                                   | 0.100                                | 78                               | 55.9 - 102         |
| 1-Bromofluorobenzene (4-BFB)                                                       | 1         | 0.145                                                        | mg/L                               | 1                                   | 0.100                                | 145                              | 47.6 - 121.        |
| Sample: 138004 - MW-11 (<br>Analysis: BTEX<br>QC Batch: 41709<br>Prep Batch: 36013 |           | Analytical M<br>Date Analyze<br>Sample Prepa                 | ed:                                | S 8021B<br>2007-10-03<br>2007-10-02 |                                      | Prep Met<br>Analyzed<br>Prepared | By:                |
| Top Daton. 50015                                                                   |           | Sumple 1 Tept                                                |                                    |                                     |                                      | 1 roparoa                        | 2.5.               |
|                                                                                    |           | RI                                                           |                                    |                                     | Ð                                    | .,.                              | . ·                |
| Parameter Fla                                                                      | .g        | Resul                                                        |                                    | Units                               | . D                                  | ilution                          | R<br>0.0010        |
| Benzene<br>Toluene                                                                 |           | < 0.00100                                                    |                                    | mg/L                                |                                      | 1                                | 0.0010             |
|                                                                                    |           | < 0.00100                                                    |                                    | mg/L                                |                                      | 1                                | 0.0010             |
| Ethylbenzene<br>Xylene                                                             |           | <0.00100<br><0.00100                                         |                                    | m mg/L  m mg/L                      |                                      | 1<br>1                           | 0.0010             |
| Atylene                                                                            |           | <0.0010                                                      | <u> </u>                           | IIIg/ L                             |                                      | 1                                |                    |
|                                                                                    |           |                                                              | 1.                                 |                                     | Spike                                | Percent                          | Recovery           |
| Surrogate                                                                          | Flag      | Result                                                       | Units                              | Dilution                            | Amount                               | Recovery                         | Limits             |
| Irifluorotoluene (TFT)                                                             |           | 0.0865                                                       | mg/L                               | 1                                   | 0.100                                | 86                               | 55.9 - 102.        |
| 4-Bromofluorobenzene (4-BFB)                                                       | <i>,</i>  | 0.0676                                                       | mg/L                               | · 1                                 | 0.100                                | 68                               | 47.6 - 121.        |
| Sample: 138005 - MW-13 (<br>Analysis: BTEX<br>QC Batch: 41709<br>Prep Batch: 36013 | 07092808  | 3 <b>50)</b><br>Analytical M<br>Date Analyze<br>Sample Prepa | ed:                                | S 8021B<br>2007-10-03<br>2007-10-02 |                                      | Prep Met<br>Analyzed<br>Prepared | By:                |
|                                                                                    |           |                                                              |                                    |                                     |                                      |                                  | DV.                |
|                                                                                    |           | RI                                                           |                                    | 2001 10 02                          |                                      |                                  | Бу.                |
| Parameter Fla                                                                      | ŀg        |                                                              | <br>                               | Units                               | D                                    | ilution                          | R                  |

Benzene < 0.00100  $\mathrm{mg/L}$ 1 <sup>1</sup>High surrogate recovery due to peak interference. continued ...

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0.00100

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sample 138005 continued ....

|                            |                                        | R                       | L .   |          |        |          |                     |
|----------------------------|----------------------------------------|-------------------------|-------|----------|--------|----------|---------------------|
| Parameter                  | Flag                                   | Resu                    | lt    | Units    | Ι      | Dilution | $\operatorname{RL}$ |
| Toluene                    | ······································ | < 0.0010                | 00    | mg/L     |        | 1        | 0.00100             |
| Ethylbenzene               |                                        | < 0.0010                | 00    | mg/L     |        | 1        | 0.00100             |
| Xylene                     |                                        | < 0.0010                | 00    | mg/L     |        | 1        | 0.00100             |
|                            |                                        |                         |       |          | Spike  | Percent  | Recovery            |
| Surrogate                  | Flag                                   | $\operatorname{Result}$ | Units | Dilution | Amount | Recovery | Limits              |
| Trifluorotoluene (TFT)     |                                        | 0.0788                  | mg/L  | • 1      | 0.100  | 79       | 55.9 - 102.7        |
| 4-Bromofluorobenzene (4-BI | FB)                                    | 0.0629                  | mg/L  | 1        | 0.100  | 63       | 47.6 - 121.4        |

# Sample: 138006 - Duplicate (0709281400)

| Analysis:BTEXQC Batch:41709Prep Batch:36013 |     | Analytical<br>Date Analy<br>Sample Pre | zed:                | zed: 2007-10-03 Analyzed By: |          |          |               |
|---------------------------------------------|-----|----------------------------------------|---------------------|------------------------------|----------|----------|---------------|
|                                             |     |                                        | $\operatorname{RL}$ |                              |          |          |               |
| Parameter F                                 | lag | Res                                    | sult .              | Units                        | · ·      | Dilution | $\mathbf{RL}$ |
| Benzene                                     |     | 0.07                                   | 769                 | mg/L                         | 1        | 1        | 0.00100       |
| Toluene                                     |     | < 0.00                                 | 100                 | mg/L                         |          | 1        | 0.00100       |
| Ethylbenzene                                |     | 0.03                                   | 889                 | mg/L                         |          | 1        | 0.00100       |
| Xylene                                      |     | 0.001                                  | 20                  | mg/L                         |          | 1        | 0.00100       |
|                                             |     |                                        |                     |                              | Spike    | Percent  | Recovery      |
| Surrogate                                   | Fla | g Result                               | Units               | Dilution                     | n Amount | Recovery | Limits        |
| Trifluorotoluene (TFT)                      | 2   | 0.114                                  | mg/L                | 1                            | 0.100    | 114      | 55.9 - 102.7  |
| 4-Bromofluorobenzene (4-BF)                 | 3)  | 0.0772                                 | mg/L                |                              | 0.100    | .77      | 47.6 - 121.4  |

#### Sample: 138007 - Trip Blank

| Analysis:BTEXQC Batch:41709Prep Batch:36013 |      | Analyti<br>Date A<br>Sample | nalyze        |        | S 8021B<br>2007-10-03<br>2007-10-02 | •<br>•<br>•     | Prep Me<br>Analyze<br>Prepare | d By:        |
|---------------------------------------------|------|-----------------------------|---------------|--------|-------------------------------------|-----------------|-------------------------------|--------------|
|                                             |      |                             | $\mathbf{RI}$ | -<br>- |                                     |                 |                               |              |
| Parameter                                   | Flag |                             | Resul         | t      | . Units                             | •               | Dilution                      |              |
| Benzene                                     |      | <(                          | 0.0010        | 0      | mg/L                                |                 | 1                             | 0.00100      |
| Toluene                                     |      | <(                          | ).00100       | 0      | mg/L                                | i               | 1                             | 0.00100      |
| Ethylbenzene                                |      | <(                          | ).00100       | 0      | mg/L                                | i               | 1                             | 0.00100      |
| Xylene                                      |      | <(                          | ).0010        | 0      | mg/L                                | I               | 1                             | 0.00100      |
|                                             | •    |                             |               |        |                                     | Spike           | Percent                       | Recovery     |
| Surrogate                                   | Fl   | ag Res                      | ult           | Units  | Dilution                            | 1 Amount        | Recovery                      | Limits       |
| Trifluorotoluene (TFT)                      |      | 0.0                         | 930           | mg/L   | 1                                   | 0.100           | 93                            | 55.9 - 102.7 |
| 4-Bromofluorobenzene (4-BE                  | FB)  | 0.0                         | 644           | mg/L   |                                     | $0.100^{\circ}$ | 64                            | 47.6 - 121.4 |

<sup>2</sup>High surrogate recovery due to peak interference.

| Linam Ranch Gas Plant/Duke En         |             |                  |                                                                   |               | Gas Plant           |             | · · · · · · · · · · · · · · · · · · · |                                       | ınty,NM          |
|---------------------------------------|-------------|------------------|-------------------------------------------------------------------|---------------|---------------------|-------------|---------------------------------------|---------------------------------------|------------------|
| Method Blank (1) QC Bate              | ch: 41709   |                  |                                                                   |               | · .                 |             |                                       |                                       |                  |
| QC Batch: 41709                       |             |                  | nalyzed:                                                          | 2007-10-03    |                     |             |                                       | Analyzed                              | v                |
| Prep Batch: 36013                     |             | QC Pre           | paration:                                                         | 2007-10-02    |                     |             | I                                     | Prepared                              | By:              |
|                                       |             |                  | N                                                                 | ÍDL           |                     |             |                                       |                                       |                  |
|                                       | Flag        |                  |                                                                   | sult          |                     | Units       |                                       |                                       | RL               |
| Benzene                               |             |                  | <0.000                                                            |               |                     | mg/L        |                                       |                                       | 0.001            |
| Foluene<br>Ethylbenzene               |             |                  | <0.000<br><0.000                                                  |               |                     | m mg/L mg/L |                                       |                                       | $0.001 \\ 0.001$ |
| Kylene                                |             |                  | < 0.000                                                           |               |                     | mg/L        |                                       |                                       | 0.001            |
| ·                                     |             |                  |                                                                   |               |                     |             |                                       | P                                     |                  |
| burrogate                             | Flag        | Result           | Units <sup>.</sup>                                                | Dilution      | Spike<br>Amount     |             | Percent<br>ecovery                    |                                       | covery<br>imits  |
| Trifluorotoluene (TFT)                | Tag         | 0.0939           | $\frac{\text{Offits}}{\text{mg/L}}$                               | <u>1</u>      | 0.100               | , n         | $\frac{\text{ecovery}}{94}$           |                                       | -117.8           |
| -Bromofluorobenzene (4-BFB)           |             | 0.0555<br>0.0652 | mg/L                                                              | 1             | 0.100               |             | 65                                    |                                       | - 110.4          |
|                                       |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
| ·                                     |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
| aboratory Control Spike (LC           | S-1)        |                  |                                                                   |               | х., <sup>1</sup> ., |             |                                       |                                       |                  |
| QC Batch: 41709                       |             | Date A           | nalyzed:                                                          | 2007-10-03    |                     |             | L                                     | Analyzed                              | Bv:              |
| Prep Batch: 36013                     |             |                  | eparation:                                                        | 2007-10-03    |                     |             |                                       | Prepared                              | -                |
| -                                     |             | -                | -                                                                 |               |                     |             |                                       | -                                     | -                |
| · · · · · · · · · · · · · · · · · · · | LCS         |                  |                                                                   | Spike         | Ma                  | trix        |                                       | · .                                   | Rec.             |
| Param                                 | Resul       |                  | its Dil                                                           | -             |                     |             | Rec.                                  |                                       | limit            |
| Benzene                               | 0.092       | 0,               |                                                                   | 0.100         |                     | 00200       | 93                                    |                                       | - 120.6          |
| Foluene                               | 0.094       | 0,               |                                                                   | 0.100         |                     | 00200       | 95<br>96                              |                                       | - 118.2          |
| Ethylbenzene                          | 0.095       | 0,               |                                                                   | 0.100         |                     | 00200       | 96<br>96                              |                                       | -116.2           |
| Kylene                                | 0.288       |                  |                                                                   | 0.300         |                     | 00300       |                                       | (0.2                                  | - 116.3          |
| Percent recovery is based on the sp   | ыке result. | RPD 15 ba        | ased on the                                                       | e spike and s | ріке апрііса        | te resul    | ι.                                    |                                       |                  |
|                                       | LCSD        | <b>.</b>         | Spi                                                               |               |                     |             | Rec.                                  | <b></b>                               | RPD              |
| Param                                 |             |                  | Dil. Amo                                                          |               |                     |             | imit                                  | RPD                                   | Limit            |
| Benzene<br>Foluene                    |             | 0,               | $   \begin{array}{ccc}     1 & 0.1 \\     1 & 0.1   \end{array} $ |               |                     |             | - 120.6<br>- 118.2                    | $\begin{array}{c} 0 \\ 1 \end{array}$ | $\frac{20}{20}$  |
| Ethylbenzene                          |             | - • .            | 1 	 0.1<br>1 	 0.1                                                |               |                     |             | - 116.2                               | 1                                     | $\frac{20}{20}$  |
| Kylene ·                              |             |                  | 1 0.3                                                             |               |                     |             | - 116.3                               | 1                                     | 20               |
| Percent recovery is based on the sp   |             |                  | ased on the                                                       | e spike and s | pike duplica        | te resul    | t.                                    |                                       | N                |
|                                       | LCS         | 5 LCS            | D                                                                 | . · · ·       | Spike               | LCS         | LCSD                                  |                                       | Rec.             |
| Surrogate                             | Resu        |                  |                                                                   | s Dil.        | Amount              | Rec.        | Rec.                                  |                                       | Limit            |
| Trifluorotoluene (TFT)                | 0.086       | 64 0.08          | 66 mg/                                                            | L 1           | 0.100               | 86          | 87                                    | 51.7                                  | - 106.3          |
| -Bromofluorobenzene (4-BFB)           | 0.079       | 0.07             |                                                                   |               | 0.100               | 79          | 80                                    | 51.4                                  | - 117.9          |
|                                       |             |                  |                                                                   |               |                     |             |                                       |                                       | .*               |
| Matrix Spike (MS-1) Spiked            | Sample: 13  | 37996            |                                                                   |               |                     |             |                                       |                                       |                  |
| QC Batch: 41709                       |             | Date A:          | nalyzed:                                                          | 2007-10-03    |                     |             | ·                                     | Analyzec                              | l By:            |
| Prep Batch: 36013                     |             |                  | eparation:                                                        | 2007-10-02    |                     |             |                                       | Prepared                              | •                |
|                                       |             | <i>i</i> *       |                                                                   | <u> </u>      |                     |             |                                       |                                       |                  |
| continued                             |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
| 1.2                                   |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
|                                       |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
|                                       |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
|                                       |             |                  |                                                                   |               |                     |             |                                       |                                       |                  |
|                                       | •           |                  |                                                                   | N             |                     |             |                                       |                                       |                  |
|                                       | •<br>•      |                  |                                                                   |               | ·                   |             |                                       |                                       |                  |
|                                       |             |                  |                                                                   | · .           |                     |             | •                                     |                                       |                  |

| MSSpikeMatrixRec.ParamResultUnitsDil.AmountResultRec.LimitMSSpikeMatrixRec.Rec.Rec.ParamResultUnitsDil.AmountResultRec.Limit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Report Date: October 4, 2007<br>Linam Ranch Gas Plant/Duke | Energy Field     | Services       |             | k Order: 71001<br>n Ranch Gas P |                |       | Number<br>Lea Cou |         |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------|------------------|----------------|-------------|---------------------------------|----------------|-------|-------------------|---------|
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | matrix spikes continued                                    | N/C              | Į.             |             | Spiko                           | Matrix         |       | , ·               | Boc     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Param                                                      |                  |                | Dil.        | -                               |                | Rec.  |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Param                                                      |                  |                | Dil.        | •                               |                | Rec.  |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Benzene                                                    |                  |                |             |                                 |                |       |                   |         |
| Nylene         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.         MSD         Spike         Matrix         Res.         RPD Limit         RPD Limit           Benzene         0.0925         mg/L         1         0.100         <0.000200                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                            |                  | 01             |             |                                 |                |       |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | •                                                          |                  | 0/             |             |                                 |                |       |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                  |                |             |                                 |                |       |                   | - 110.0 |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            | -                | 101 D 10 00000 |             |                                 |                |       |                   | חסס     |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Param                                                      |                  | Units Dil      |             |                                 | •              |       | RPD               |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                  |                |             |                                 |                |       |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                  | 01             |             |                                 |                |       |                   | 20      |
| By the second of the spike result. RPD is based on the spike and spike duplicate result.MSMSDSpikeMSMSDSpikeMSMSDSpikeMSMSDSpikeMSMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDSpikeMSDMSDMSDMSD <th< td=""><td>Ethylbenzene</td><td></td><td></td><td></td><td></td><td></td><td></td><td>1</td><td></td></th<>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ethylbenzene                                               |                  |                |             |                                 |                |       | 1                 |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                                                            |                  |                |             |                                 |                |       | 1                 | 20      |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Percent recovery is based on th                            | ie spike result. | RPD is based   | on the spil | ke and spike du                 | plicate result | •     |                   |         |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>a</b>                                                   |                  |                | <b></b>     |                                 |                |       |                   |         |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                            |                  |                |             |                                 |                |       |                   |         |
| Standard (ICV-1)           QC Batch:         41709         Date Analyzed:         2007-10-03         Analyzed By:           Param         Flag         Units         Conc.         Conc.         Recovery         Date           Benzene         mg/L         0.100         0.0936         94 $85 - 115$ 2007-10-03           Toluene         mg/L         0.100         0.0936         94 $85 - 115$ 2007-10-03           Standard (CCV-1)         mg/L         0.100         0.0970         97 $85 - 115$ 2007-10-03           Standard (CCV-1)         QC Batch:         41709         Date Analyzed:         2007-10-03         Analyzed By:           CCVs         CCVs         CCVs         Percent         True         Found         Percent           Param         Flag         Units         Conc.         Conc.         Recovery         Date           QC Batch:         41709         Date Analyzed:         2007-10-03         Analyzed By:         CCVs         CCVs         Percent         True         Found         Percent         Recovery         Date         Analyzed         By:         CCVs         CCVs         Percent         Recovery         Date |                                                            |                  |                |             |                                 | •              |       |                   |         |
| QC Batch: 41709       Date Analyzed: $2007-10-03$ Analyzed By:         ICVs       ICVs       ICVs       Percent       Recovery       Date         Param       Flag       Units       Conc.       Conc.       Recovery       Limits       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:       CCVs       CCVs       Percent         Param       Flag       Units       Conc.       CCVs       Percent       Recovery       Date         Param       Flag       Units       Conc.       CCVs       Percent       Recovery       Date         Param       Flag       Units       Conc.       Conc.       Recovery       Date         Param       Flag       Units       Conc.       Conc.                                         |                                                            | ) 0.01           | 91 0.0198      | IIIg/ L     | 1,0.1                           |                | 10    | 00.0              | 122.0   |
| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | •                                                          |                  | True           | Found       | Percent                         | Reco           | overy |                   |         |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            | Units            |                |             |                                 |                |       |                   |         |
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                            |                  |                |             |                                 |                |       |                   |         |
| $ \begin{array}{c ccccc} Xylene & mg/L & 0.300 & 0.293 & 98 & 85 - 115 & 2007 - 10 - 03 \\ \hline \\ Standard (CCV-1) \\ QC Batch: 41709 & Date Analyzed: 2007 - 10 - 03 & Analyzed By: \\ & CCVs & CCVs & CCVs & Percent \\ & True & Found & Percent & Recovery & Date \\ \hline \\ Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyzed \\ \hline \\ Benzene & mg/L & 0.100 & 0.0931 & 93 & 85 - 115 & 2007 - 10 - 03 \\ \hline \\ Toluene & mg/L & 0.100 & 0.0944 & 94 & 85 - 115 & 2007 - 10 - 03 \\ \hline \\ Ethylbenzene & mg/L & 0.100 & 0.0957 & 96 & 85 - 115 & 2007 - 10 - 03 \\ \hline \\ \end{array} $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                            |                  |                |             |                                 |                |       |                   |         |
| $\begin{array}{c cccc} \textbf{Standard (CCV-1)} \\ QC Batch: 41709 & Date Analyzed: 2007-10-03 & Analyzed By: \\ & & CCVs & CCVs & CCVs & Percent \\ & & True & Found & Percent & Recovery & Date \\ \hline Param & Flag & Units & Conc. & Conc. & Recovery & Limits & Analyzed \\ \hline Benzene & mg/L & 0.100 & 0.0931 & 93 & 85 - 115 & 2007-10-03 \\ \hline Toluene & mg/L & 0.100 & 0.0944 & 94 & 85 - 115 & 2007-10-03 \\ \hline Ethylbenzene & mg/L & 0.100 & 0.0957 & 96 & 85 - 115 & 2007-10-03 \\ \hline \end{array}$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                                            |                  |                |             |                                 |                |       |                   |         |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Standard (CCV-1)                                           | ·                |                |             |                                 |                |       |                   | ٢       |
| $\begin{array}{c c c c c c c c c c c c c c c c c c c $                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | QC Batch: 41709                                            |                  | Date Analy     | zed: 2007-  | -10-03                          |                | A     | nalyzed           | By:     |
| $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Param                                                      | Unite            | True           | Found       | Percent                         | Reco           | overy |                   |         |
| Toluenemg/L0.1000.09449485 - 1152007-10-03Ethylbenzenemg/L0.1000.09579685 - 1152007-10-03                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                            |                  |                |             |                                 |                |       |                   |         |
| 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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Ethylbenzene                                               |                  | 0.100          | 0.0957      | 96                              |                |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Xylene                                                     | mg/L             | 0.300          | 0.288       | 96                              | 85 -           | 115   | 200               | 7-10-03 |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                  |                |             |                                 |                |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                  |                | • • •       |                                 |                |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | τ, i<br>τ                                                  |                  |                |             |                                 | •              |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ,                                                          |                  |                |             |                                 | :              |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                  |                |             |                                 | -              |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 1<br>• • •                                                 |                  |                | •           |                                 |                |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | ۰.<br>۱                                                    |                  |                |             |                                 |                |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                  |                |             |                                 | ·<br>. '       |       |                   |         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                            |                  |                |             |                                 |                |       |                   |         |
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| 2                                | 6701 Aberdeen<br>Lubbock, T<br>Tel (806)<br>Fax (806)<br>1 (800) 3 | an Avenue, Suite 9<br>, Texas 79424<br>6) 794-1296<br>6) 794-1298<br>1) 378-1298                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | 5002 Basin Street, Suite A<br>Midland, Faxas 79703<br>Tel. (432) 689-6301<br>Fax (432) 689-6313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Street, Su<br>Texas 79:<br>2) 689-630<br>2) 689-637                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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                                                                                                                                                                                                                                                                         | 200 Ea<br>El P<br>Te<br>Fa<br>Ta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | 200 East Sunset Rd., Suit<br>El 200 East Sunset Rd., Suit<br>Tel (315) 585-3443<br>Fax (915) 585-4944<br>1 (888) 588-3443                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Ø                                                                                             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Ad As Ba Cd Cr Pb Se Hg 6010B/2007       0     1014 Cd       0     1025 Cd       0     1026 Cd       0     1026 Cd       0     1027 Cd       0     104 Cd       0     104 Cd       0     104 Cd | Older     Date     Total Metals Ad As Ba Cd Ct Pb Se Hg 6010B/2001       0     0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0     0       0 | Open     Open     Open     Open     Open     Open     Open       0     0     0     0     0     0     0     0       0     0     0     0  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Clicke       Date     Thine     Clicke     Cl</td></t<> | Общение         < | Open Harting         Open Harting | Contract         Contract | Община         Община | Clicke     Andresse     Clicke     Andresse       Clicke     Analysis     Clicke     Analysis       Clicke     Analysis     Clicke     Clicke       Date     Date     Clicke     Clicke       Date     Thine     Clicke     Cl |

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PIOH 8808 Camp Bowie Blvd. West, Suite 180 Ft. Worth. Texas 76116 Tel (817) 201-5260 Fax (817) 560-4336 Turn Around Time if different from standard No.) ъ Dry Weight Basis Required **(Circle or Specify Method** Check If Special Reporting Limits Are Needed TRRP Report Required **ANALYSIS REQUEST** Moisture Content Ð Hq ,28T ,008 Pesticides 8081A / 608 ш PCB's 8082 / 608 200 East Sunset Rd., Suite El Paso, Texas 79922 El Paso, Texas 79922 Tei (915) 585-3443 Fax (915) 585-4944 1 (888) 588-3443 GC/MS Semi. Vol. 8270C / 625 REMARKS GC/MS /vl. 8260B / 624 ГÌ RCI TCLP Pesticides TCLP Semi Volatiles TCLP Volatiles LAB USE TCLP Metals Ag As Ba Cd Cr Pp Se Hg **ONEX** Total Metals Ag As Ba Cd Cr Pb Se Hg 6010B/200.7 ntact ()/N eadspace 5002 Basin Street, Suite A1 Midland, Taxas 79703 Tel (432) 689-6301 Fax (432) 689-6313 og-In-Revi PAH 8270C / 625 3 4 TPH 8015 GRO / DRO / TVHC TPH 418.1 / TX1005 / TX1005 Ext(C35) Carrier # BTEX 80218 / 602 / 626067 2 ,ដ ö Temp'( Tempč 80218 / 602 / 82608 / 624 **MTBE** Tempč 1400 SAMPLING **JIME** 303-948-7733 to 14:50 abster Time: Time: Time: 6701 Aberdeen Avenue, Suite 9 Lubbock, Texas 79424 Teil (806) 794-1296 Fax (806) 794-1298 1 (800) 378-1296 # **TAG** area Order no 101107 Date: Date: Date: **JNONE** PRESERVATIVE v METHOD ICE è Ö Submittal of samples constitutes agreement to Terms and Conditions listed on reverse side of C. HOPN Company: Sampler Signatu Company: Company <sup>7</sup>OS<sup>z</sup>H Chi MC. Project Name: <sup>€</sup>ONH Fax #: 80/2% Phone #: IDH 2 2 E-mai Linam Received by: Received by: Received by: SLUDGE Q MATRIX ЯIA lraceAnalysis, Inc. Ý 7105 ittle ton DCP Midstream-ABTAW Fuil Steve Weathers Consultine email: lab@traceanalysis.com 55 innomA \ emuloV Time: lime: Time: **\$ CONTAINERS** 3 Mexico 5 101 10 10 12 X HW E 72 3 Date: Date: Date: Envorontal Wen 1 FIELD CODE riden Company: Company Company Project Location (including state) larshar Ino Olan cate DUNT Relinquished by: telinatuished by fed by Mer Ican mpany Name ike Sth Intact Person 1885 5 5800b If different Ę Relinguis nvoiče to: AB USE) ONLY L.C.W. Project #: LAB #