GW-025

Investigation Report

DATE: 2005



November 1, 2005

VIA EMAIL: wayne.price@state.nm.us

Mr. Wayne Price
Environmental Engineer
State of New Mexico - Oil Conservation Division
Environmental Bureau
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

Re: Free Product Investigation Report, Targa Resources, Inc., Monument Gas Plant (GW-025), UL A (NE/4, NW/4), Section 1, Township 20 South, Range 36 East, Lea County, New Mexico

Dear Mr. Price:

This report is submitted to the New Mexico Oil Conservation Division ("OCD") on behalf of Targa Resources, Inc. ("TRI"), successor to Dynegy Midstream Services, L.P. ("DMS"), by Larson and Associates, Inc. ("LA"), agent, and documents the results of an investigation to determine the down gradient limit of phase-separated hydrocarbons ("PSH") on groundwater at its Monument Gas Plant ("Facility"). The Facility is located in unit letter A (NE/4, NW/4), Section 1, Township 20 South, Range 36 East, Lea County, New Mexico. Figure 1 presents a location and topographic map. Figure 2 presents a Facility drawing.

Background

On April 24, 2003, OCD requested DMS to submit a work plan to install monitoring wells to determine the down gradient and lateral extent of PSH on groundwater. In May 2003, during a technical meeting with OCD, DMS committed to recovering PSH in wells WP-4, WP-12, WP-14 and WP-15. On June 27, 2003, DMS submitted a work plan that proposed installing three (3) monitoring wells down gradient (southeast) of the Facility. On September 10, 2003, OCD conditionally approved the plan and granted an extension for submittal of a report until June 30, 2004. Following a technical meeting on May 17, 2005, OCD requested DMS to submit a work plan to determine the limit of PSH down gradient of wells WP-4 and WP-4R and WP-14. On June 30, 2005, OCD approved a request to proceed in accordance with the work plan approved on September 10, 2003. Appendix A presents correspondence with OCD.

In June 2003, pneumatic skimmer pumps (GeoTech, Inc., Model PRS) were installed in wells WP-4, WP-12, WP-14 and WP-15 and PSH recovery was initiated. The PSH was pumped into 55-gallon drums equipped with level controls and approximately 220 gallons of water and PSH was discharged to the waste water system at the Facility.

On December 16, 2003, well WP-4 was replaced with well WP-4R, as it was determined that PSH recovery in well WP-4 was not technically feasible due to no groundwater and PSH near the bottom of the well. Scarborough Drilling, Inc. ("Scarborough"), located in Lamesa, Texas, drilled the well WP-4R into shale or red bed that underlies the water-bearing at approximately 36 feet below ground surface ("bgs") using a truck-mounted air rotary rig. The well was completed

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with threaded 4-inch schedule 40 PVC casing and screen. Drill cuttings were examined according to the Unified Soil Classification System ("USCS") and recorded on a field log form. Approximately 20 feet of screen was placed near the bottom of the well, and extends above and below the water level. The annular space between the screen and boring was filled with graded silica sand to approximately 2 feet above the screen. A layer of bentonite chips approximately 2 feet thick was placed above the sand and hydrated with potable water. The remainder of the annulus was filled with a mixture of cement and bentonite grout to about 1-foot bgs. The well was secured with a locking steel protector anchored in concrete. Piper Surveying, Inc ("Piper"), a professional land surveyor registered in the State of New Mexico, measured the top-of-casing and ground elevation. Drill cuttings were placed on the ground adjacent to the well, and the drill rig and down-hole equipment (i.e., bit, rods, etc.) were thoroughly washed using pressurized hot water. Table 1 presents a summary of well drilling and completion details. Appendix B presents the boring log and well record.

Current Investigation

On August 4, 2005, Scarborough drilled monitoring wells WP-16, WP-17 and WP-18 down gradient (southeast) of the Facility using the air rotary rig. Samples of drill cuttings were examined according to the USCS and recorded on field log forms. The wells were drilled into red bed encountered between approximately 36 feet bgs (WP-17) and 42 feet bgs (WP-18). The wells were constructed using threaded 2-inch schedule 40 PVC screen and casing. Approximately 20 feet of screen was installed near the bottom of each boring and extends above and below the water table. The annular space between the screen and boring was filled with graded silica sand to approximately 1.5 feet above the screen. A layer of bentonite chips approximately 2 feet was placed above the sand and hydrated with potable water. The remainder of the annulus was filled with a mixture of cement and bentonite grout to approximately 1-foot bgs. The wells are secured with locking above-grade steel covers anchored in concrete. Table 1 presents a summary of the monitoring well drilling and completion details. Figure 2 presents a Facility drawing and monitoring well locations. Appendix B presents boring logs and well completion records.

Depth-to-groundwater and PSH was measured in the new and existing monitoring wells using an electronic oil and water interface probe. The measurements were recorded in feet below the top of the PVC well casing and documented in a bound field book. On October 7, 2005, groundwater occurred in wells WP-16, WP-17 and WP-18 at approximately 32.02 feet bgs, 33.54 feet bgs and 32.72 feet bgs, respectively. The saturated thickness of the water-bearing stratum was approximately 5.98 feet (WP-16), 2.46 feet (WP-17) and 8.28 feet (WP-18). Table 2 presents a summary of depth-to-groundwater and PSH thickness measurements. Figure 3 presents a groundwater potentiometric map.

On August 9, 2005, wells WP-16, WP-17 and WP-18 were developed to remove fine-grained sediment disturbed during drilling. No PSH was observed in the wells, and development was accomplished by hand bailing with dedicated disposable polyethylene bailers until water was visually clear of sediment. The water was placed in a portable tank and discharged to the waste water system at the Facility. Samples of groundwater were collected from wells WP-16, WP-17 and WP-18 using the dedicated bailers, and carefully transferred to laboratory-preserved containers. The containers were labeled, chilled in an ice chest and hand-delivered under chain-of-custody control to Environmental Lab of Texas, Inc. ("ELTI"), located in Odessa, Texas.

Mr. Wayne Price November 1, 2005 Page 3

which analyzed the samples for benzene, toluene, ethyl benzene and xylene (commonly referred to as BTEX) using method SW-846-8021B. Table 3 presents a summary of the BTEX analysis. Figure 4 presents benzene concentrations reported in groundwater samples from wells WP-16, WP-17 and WP-18. Appendix C presents the laboratory report.

On September 13, 2005, PSH (0.01 feet) was reported in well WP-18, and a sample was collected for fingerprint analysis. The sample was collected using a dedicated polyethylene bailer and canted into an unpreserved 40-milliliter sample vial, which was labeled, chilled in an ice chest and hand delivered under chain-of-custody control to ELTI. ELTI analyzed the PSH sample using gas chromatography ("GC"). Table 4 presents a summary of the GC analysis. Figure 5 presents PSH thickness measurements from the wells on October 7, 2005. Figure 6 presents a hydrocarbon concentration control chart for the fingerprint analysis. Appendix C presents the laboratory report.

On September 27, 2005, PSH recovery was initiated at well WP-18. The PSH is hand-bailed weekly using a dedicated polyethylene bailer and collected in a 55-gallon drum, which will be discharged to the waste water system at the Facility.

Conclusions

The direction and gradient of groundwater flow beneath the Facility (October 7, 2005) was from northwest to southeast at approximately 0.008 feet per foot, and consistent with data previously reported to OCD (May 15, 2005).

The New Mexico Water Quality Control Commission ("WQCC") human health standard for benzene in groundwater is 0.01 milligrams per liter ("mg/L"), and was exceeded in samples from wells WP-17 (5.28 mg/L) and WP-18 (1.03 mg/L) on August 9, 2005.

The WQCC human health standard for ethyl benzene in groundwater is 0.75 mg/L, and was exceeded in the sample from monitoring well WP-17 (1.22 mg/L) on August 9, 2005.

The PSH observed in well WP-18 (0.04 feet) is chemically consistent with PSH reported from wells WP-4 and WP-15.

Recommendations

TRI proposes to continue monitoring PSH in wells WP-4, WP-12, WP-14, WP-15 and WP-18 on a weekly schedule, and remove PSH when it is present. DMS will also integrate wells WP-16, WP-17 and WP-18 into the Facility's groundwater monitoring program, which will include:

- Measuring depth-to-groundwater and PSH in all monitoring wells on a quarterly (4 times per year) schedule;
- Collecting groundwater samples from monitoring wells WP-1, WP-5, WP-6, WP-7, WP-13, WP-14, WP-16, WP-17 and WP-18 during the second quarterly period (April through June) for BTEX, chloride, total dissolved solids ("TDS"), sulfate, and dissolved metals (arsenic, barium, cadmium, chromium, lead, mercury, selenium and silver) analysis;

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- Collecting groundwater samples from down gradient monitoring wells WP-1, WP-5, WP-14, WP-16, WP-17 and WP-18 during the fourth quarterly period (October through December) for BTEX, chloride, TDS, and sulfate analysis; and
- Preparing an annual report for submittal to the NMOCD.

Please call Mr. Cal Wrangham with TRI at (432) 687-0542 or myself at (713) 507-6752 if you have questions.

Sincerely,

Larson and Associates, Inc.



Mark J. Larson, P.G., C.G.P., C.G.W.P. Senior Project Manager/President

Encl.

cc: Cal Wrangham/TRI

Todd Young/TRI

Chris Williams/OCD District 1

Tables

Table 1:

Dynegy Midstream Services, L. P., Monument Gas Plant Unit C (NE/4, NW/4), Section 1, Township 20 South, Range 36 East, Lea County, New Mexico Summary of Monitoring Well Drilling and Completion Details

		Lea County, New Mexico	Mexico					Page 1 of 1
Well Number	Well Number Date Drilled	Top of Casing Gr Elevation (Feet AMSL)	Ground Elevation (Feet AMSL)	Drilled Depth (Feet BGS)	round Elevation Drilled Depth Casing Stickup Well Diameter Screen Interval (Feet AMSL) (Feet BGS) (Feet BGS)	Well Diameter (Inches)	Screen Interval (Feet BGS)	Depth-to- Groundwater 10-07-05 (Feet TOC)
WP-4R	12/16/03	3578.35	3575.91	38.0	2.44	4	18.00 - 38.00	33.23
WD-16	8/4/2005	3575 83	2573 77	70.0	00 0	·	18 40 - 38 40	37.11
2	0007			0.00	60.7	7	2.00	-
WP-17	8/4/2005	3579.34	3577.10	38.0	2.24	2	17.49 - 37.49	35.78
WP-18	8/4/2005	3579.24	3577.04	45.00	2.20	2	24.49 - 44.49	*34.92
								('0.04')
Noto:	0 . H Lalling all 10.	Alone de la la Contracta de la		- + - · · · · + - · · ·		100 -100		

Wells drilled by Scarborough Drilling, Inc., Lamesa, Texas, and constructed with threaded 2 inch schedule 40 PVC screen and casing

Depth in feet below ground surface

Elevation in feet above mean sea level

Notes:
1. BGS:
2. AMSL:
3. TOC:
4. *:

Depth in feet below top-of-casing Corrected for free product thickness shown in parenthesis

Summary of Depth-to-Groundwater and Hydrocarbon Product Thickness Measurements Dynegy Midstream Services, L.P., Monument Gas Plant Unit C (NE/4, NW/4), Section 1, Township 20 South, Range 36 East Lea County, New Mexico Table 2:

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Page 1 of 1

WP-2		WP-4	WP-4R	WP-5	WP-6	WP-7	WP-10	WP-11	WP-12	WP-13	WP-14	WP-15	WP-16	WP-17	WP-18
27.42 31.09 *35.75 (0.35') (3550.59) (3546.68) (3541.40)	-	!		31.61 (3547.89)	*28.77 (0.06') (3556.59)	29.45 (3553.59)	*27.13 (0.02') (3552.95)	28.31 (3552.92)	*38.36 (0.50') (3543.53)	28.19 (3551.46)	*42.41 (0.14') (3539.40)	*32.31 (0.72') (3549.96)	ı	1	I
27.55 31.14 *35.77 (0.31') (3550.46) (3546.63) (3541.38)		1		31.56 (3547.94)	*28.75 (0.10') (3556.61)	30.11 (3552.93)	27.04 (0.03') (3553.04)	28.24 (3552.99)	*38.36 (0.52') (3543.53)	28.24 (3551.41)	*42.40 (0.18') (3539.41)	*32.32 (0.71') (3549.95)	I	l	1
24.15 *36.07 (0.44") (3553.86) -		-		33.03 (3546.47)	*28.74 (0.04') (3556.62)	31.38 (3551.66)	26.00 (3554.08)	27.21 (3554.02)	*38.14 (0.47') (3543.75)	25.90 (3553.75)	*42.22 (0.10') (3539.59)	*32.06 (0.67') (3550.21)	I	1	1
24.64 Dry *36.28 (0.44") — (3553.37)		l		33.75 (3545.75)	*28.86 (0.30') 3556.50	31.80 (3551.24)	25.71 3554.37)	26.90 (3554.33)	*37.81 (0.22') (3544.08)	26.58 (3553.07)	*42.09 (0.13') (3539.72)	*31.85 (0.55') (3550.42)	I	ŀ	1
27.34 32.43 *37.22 (0.62°) (3550.67) (3545.34) (3539.93)		1		34.30 (3545.20)	*28.80 (0.04") (3556.56)	32.14 (3550.90)	26.17 (3553.91)	27.32 (3553.91)	*37.99 (0.30') (3543.90)	27.51 (3552.14)	*41.94 (0.09') (3539.87)	*32.25 (0.48') (3550.02)	ı	I	ı
28.87 Dry Dry –	Dry –	1		34.36 (3545.14)	*28.83 (0.05') (3556.53)	34.36 (3548.68)	26.50 (3553.58)	27.68 (3553.55)	*37.94 (0.26') (3543.95)	28.30 (3551.35)	*41.84 (0.07") (3539.97)	*32.23 (0.30') (3550.04)	-	ľ	I
30.11 (3547.90) Dry —				35.16 (3544.34)	*28.80 (0.06') (3556.56)	32.50 (3550.54)	27.11 (3,552.97)	28.24 (3552.99)	*38.47 (0.45') (3543.42)	28.89 (3550.76)	*42.35 (0.12') (3539.46)	32.23 (3550.04)	1	1	l
30.61 *37.33 (0.07") - (3539.82) -				35.61 (3543.89)	*28.80 (0.05') (3556.56)	32.70 (3550.34)	27.36 (3552.72)	28.51 (3552.72)	*38.50 (0.06') (3543.39)	29.20 (3550.45)	*42.85 (0.18') (3538.96)	32.34 (3549.93)	l	1	1
30.24 Dry – 38.14 (3540.21))	38.14 (3540.21)		36.17 (3543.33)	*29.92 (1.17') (3555.44)	32.91 (3550.13)	27.56 (3552.52)	28.76 (3552.47)	*38.70 (0.06') (3543.19)	28.84 (3550.81)	42.90 (3538.91)	32.51 (3549.76)	-	-	l
25.65 Dry (3539.87) (3540.77)		37.58 (3540.77)		35.87 (3543.63)	*29.85 (1.12') (3555.51)	32.05 (3550.99)	26.84 (3553.24)	28.03 (3553.20)	*38.56 (0.16') (3543.33)	27.91 (3551.74)	*41.88 (0.08') (3539.93)	32.38 (3549.89)		ı	ı
25.79 37.34 37.62 (3552.22) Dry (3539.81) (3540.73)		37.62 (3540.73)		36.07 (3543.43)	28.74 (3556.62)	32.15 (3550.89)	26.59 (3553.49)	27.81 (3553.42)	*38.34 (0.11') (3543.55)	27.81 (3551.84)	*41.99 (0.05') (3539.82)	32.28 (3549.99)	-	-	1
21.11 27.69 31.56 31.32 (3,556.90) (3550.08) (3545.59) (3547.03)		31.32 (3547.03)		29.52 (3549.98)	27.46 (3557.90)	26.09 (3556.95)	23.40 (3556.68)	24.56 (3556.67)	35.52 (3546.37)	24.07 (3555.58)	33.16 (3548.65)	28.91 (3553.36)	-	I	l
33.15 28.75 33.05 33.15 (3544.86) (3549.02) (3544.10)		33.15 (3545.20)		29.78 (3549.72)	28.72 (3556.64)	27.35 (3555.69)	24.29 (3555.79)	25.41 (3555.82)	32.13 (3549.76)	23.57 (3556.08)	31.17 (3550.64)	Dry	-	1	I
25.63 28.75 33.15 33.26 (3552.38) (3549.02) (3544.00) (3545.09)		33.26 (3545.09)	29.51 (3549.99)	28.71 (3556.65)	26.65 (3556.39)	24.81 (3555.27)	25.96 (3555.27)	32.07 (3549.82)	25.12 (3554.53)	32.06 (3549.75)	Dry			I
23.83 28.77 33.08 33.23 (3554.18) (3549.00) (3544.07) (3545.12)		33.23 (3545.12		29.78 (3549.72)	28.74 (3556.62)	27.70 (3555.34)	25.11 (3554.97)	26.16 (3555.07)	33.24 (3548.65)	26.26 (3553.39)	34.47 (3547.34)	31.44 (3550.83)	34.11 (3541.72)	35.78 (3543.56)	*34.92 (0.04') (3544.32)
All measurements in feet below top of PVC well casing.	low top of PVC well casing.	well casing.	1												

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All measurements in feet below top of PVC well casing. Hydrocarbon product in well and thickness in parenthesis. Groundwater elevation in feet above mean sea level (AMSL) No data available Notes: 7
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Summary of BTEX Analysis of Groundwater Samples from Monitoring Wells Dynegy Midstream Services, L.P., Monument Gas Plant Table 3:

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	Unit C (NE/4, NW/4),	Unit C (NE/4, NW/4), Section 1, Township 20 South, Range 36 East	20 South, Range 36 E	ast	
	Lea County, New Mexico	xico			Page 1 of 2
Monitoring Well	Samble Date	(<u>1</u> /6w)	Toluene (mg/L)	(万/6ਘ) (m3/c	(⊓/6ພ) euel∕(X
VQCC Standard	Service of the control of the contro		2 5 1 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1 2 1	0.75	0.62
WP-1	06/06/02	1.93	<0.010	0.032	<0.020
	12/19/02	2.24	<0.100	0.161	0.151
	06/19/03	3.46	<0.025	0.146	0.08
	12/03/03	1.6	0.011	0.143	0.029

Monitoring	Sample	Benzenet State	euenjo <u>T</u>	Ethylbenzene	Xylene
Well	Date	: (mg/L)	(mg/L)	(mg/L)	(mg/L)
NMWQCC Standard			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.75	0.62
WP-1	70/90/90	1.93	<0.010	0.032	<0.020
	12/19/02	2.24	<0.100	0.161	0.151
	06/19/03	3.46	<0.025	0.146	0.08
	12/03/03	1.6	0.011	0.143	0.029
	07/01/04	1.1	<0.050	<0.0500	<0.0500
	12/27/04	1.73	<0.050	<0.050	<0.050
	06/14/05	1.73	0.00321	0.006	0.0033
WP-5	06/06/02	0.089	0.002	<0.001	<0.002
	12/19/02	0.339	0.002	<0.001	0.003
	06/19/03	2.37	<0.005	<0.005	<0.010
	12/03/03	3.97	<0.010	<0.010	<0.020
	07/01/04	2.85	<0.050	<0.050	<0.050
	12/27/04	2.74	<0.020	<0.020	<0.020
	06/14/05	3.61	<0.020	0.0109	<0.020
WP-6	06/07/02	0.021	0.004	90.0	0.014
	06/14/05	0.00808	0.0105	0.0155	0.0344
WP-7	06/07/02	<0.001	0.001	<0.001	<0.002
	06/19/03	<0.001	0.001	<0.001	<0.002
	07/01/04	<0.001	<0.001	<0.001	<0.001
	06/14/05	<0.001	<0.001	<0.001	<0.001
WP-10	07/01/04	1.98	<0.100	0.327	<0.100

Summary of BTEX Analysis of Groundwater Samples from Monitoring Wells Table 3:

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Dynegy Midstream Services, L.P., Monument Gas Plant

Unit C (NE/4, NW/4), Section 1, Township 20 South, Range 36 East Lea County, New Mexico

	Lea County, New Mexico	ico	•		Page 2 of 2
Monitoring	Sample	Benzene (mg/L)	Toluene (mg/L)	Ethylbenzene (mg/L)	Xÿlene (mg/L)
NMWQCC Standard			151.0 F. 151	,0,15	0.62
WP-11	07/01/04	3.05	<0.500	<0.500	<0.500
WP-13	06/07/02	0.842	0.022	0.123	0.074
	06/19/03	1.11	0.043	0.2	<0.121
	07/01/04	0.586	<0.100	<0.100	<0.100
	06/14/05	0.804	0.00721	0.064	0.01491
WP-14	06/07/02	0.012	0.002	0.009	0.021
	12/19/02	0.025	900.0	0.011	0.034
	12/27/04	0.199	<0.020	<0.020	<0.020
	06/14/05	0.422	0.00367	0.0133	0.02325
WP-16	08/09/05	0.00438	<0.001	<0.001	<0.001
WP-17	90/60/80	5.28	0.0909	1.22	0.2828
WP-18	08/09/05	1.03	0.0294	0.354	0.2329
Duplicates					
WP-1	12/03/03	1.68	0.012	0.155	0.023
WP-10	07/01/04	1.91	<0.200	0.322	<0.200
WP-5	12/27/04	2.45	<0.020	<0.020	<0.020
WP-1	06/14/05	1.63	0.00256	0.00527	0.00324
Notes:	Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas, using metod SW-846-8021B.	ivironmental Lab of Texa	as, Inc., Odessa, Texas,	using metod SW-846-80	321B.
1. mg/L:	Milligrams per liter				
2. <:	Less than method detection limit.	on limit.			

Unit C (NE/4, NW/4), Section 1, Township 20 South, Range 36 East Dynegy Midstream Services, L.P., Monument Gas Plant Summary Hydrocarbon Product Fingerprint Analysis Table 4:

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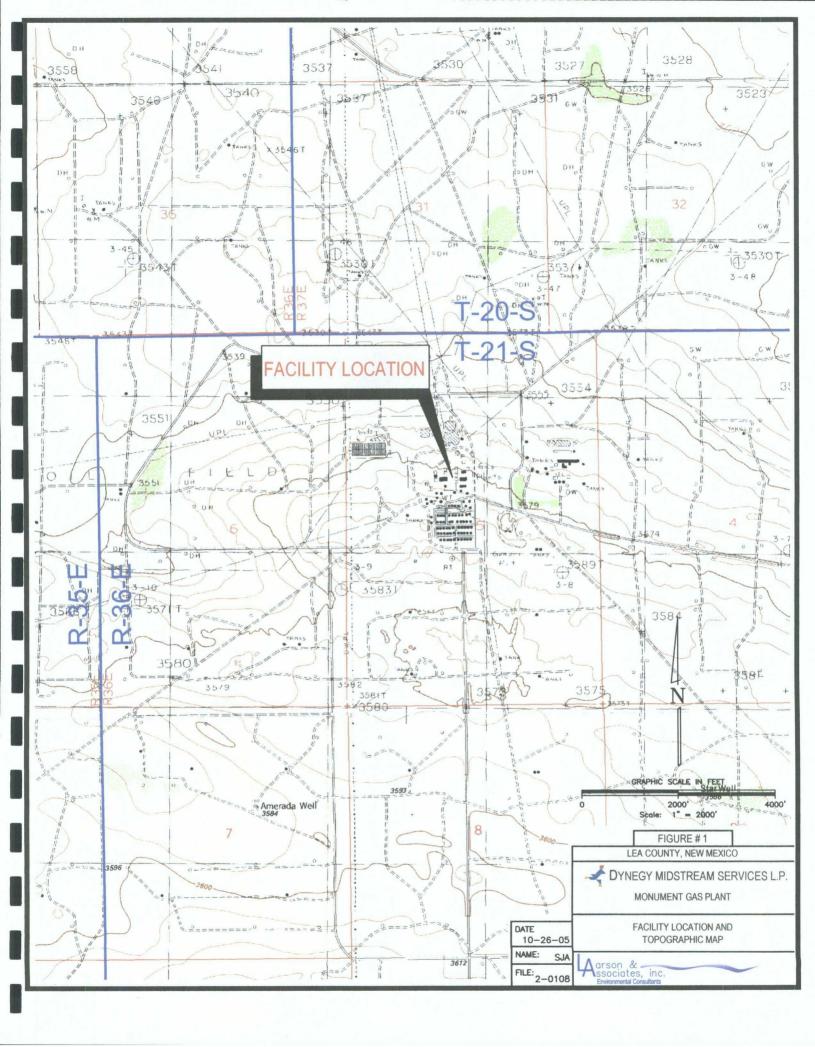
1.5

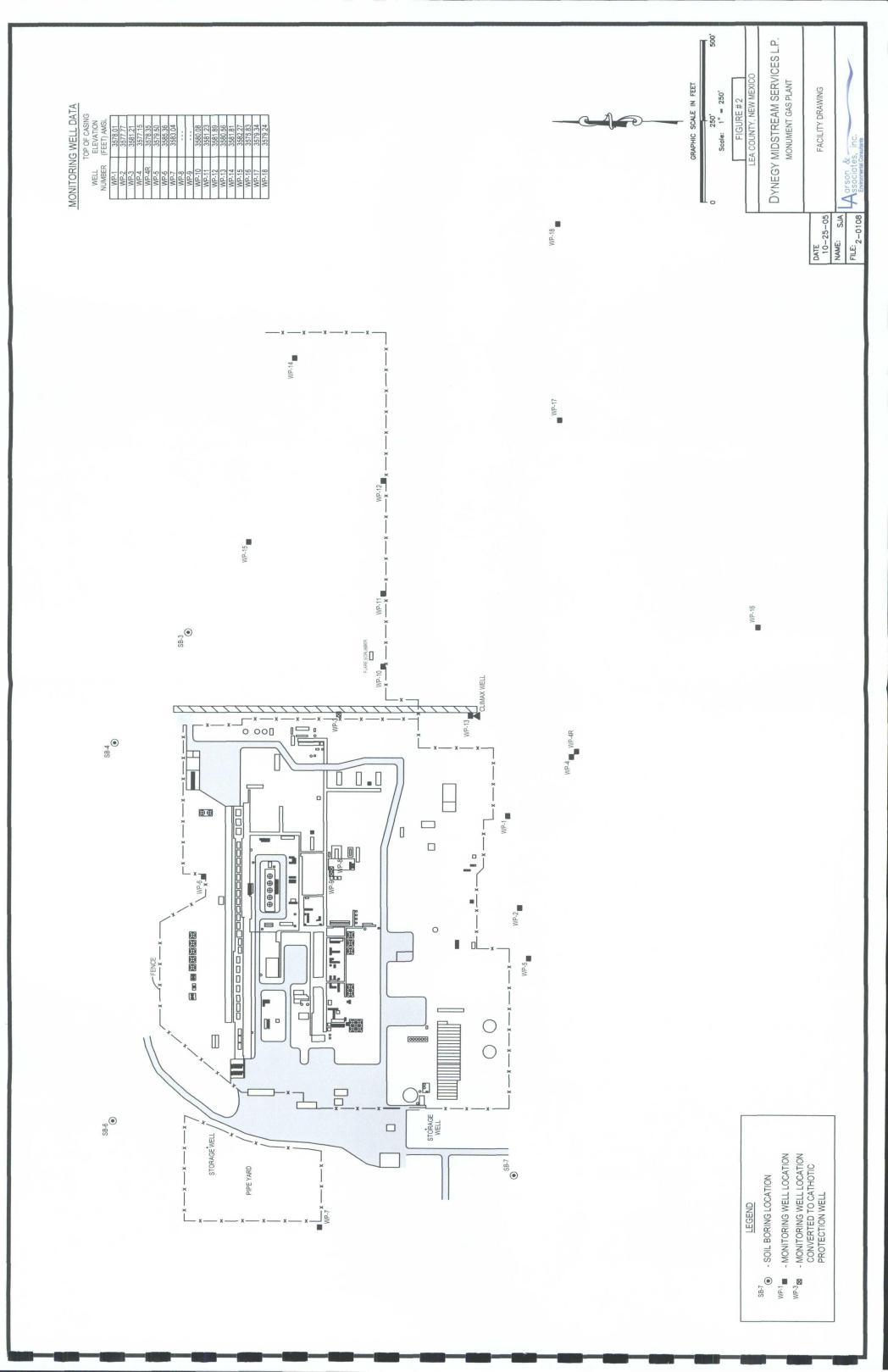
	Lea County, New Mexico	w Mexico	-	,			Page 1 of 1
Sample Number	Sample Date	(%) (%)	>C8 - C10 (%)	>C10= C12 (%)	>C12 - C16 (%)	>C12 C16 >C16 - C21 (%)	>C21 - C35 (%)
WP-4	06/04/03	9.72	5.91	11.2	55.0	11.6	6.64
WP-6	06/04/03	4.28	15.6	1.	20.2	1.63	47.2
WP-15	06/04/03	4.42	15.8	15.9	51.2	1.	3.
WP-18	09/13/05	6.26	15.4	15.8	49.7	11.7	1.14
Notes:	Analysis perform	ned by Environme	ental Lab of Texa	Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas, using gas chromatography	Texas, using gas	s chromatograph	>

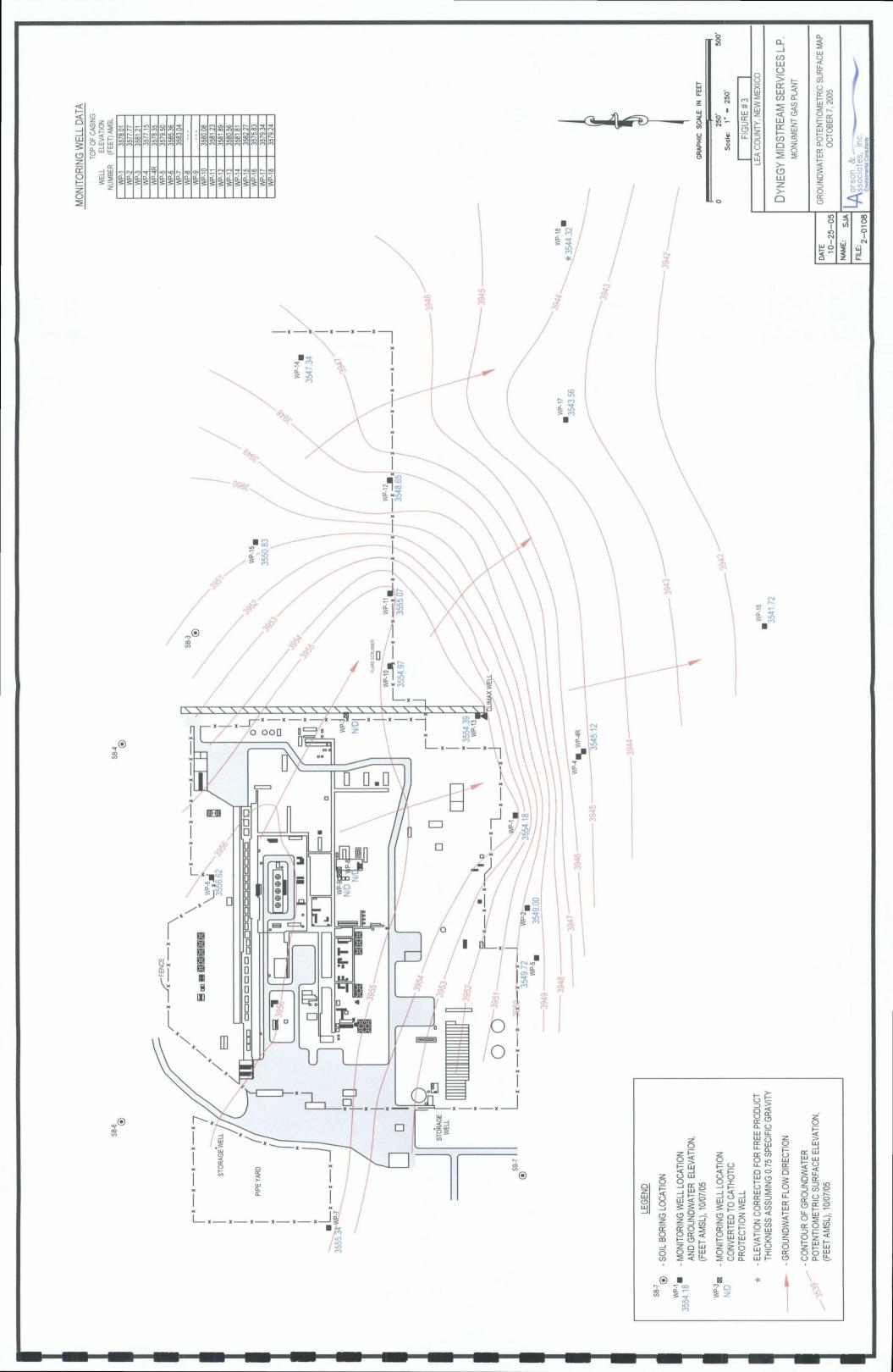
Analysis performed by Environmental Lab of Texas, Inc., Odessa, Texas, using gas chromatography Percent

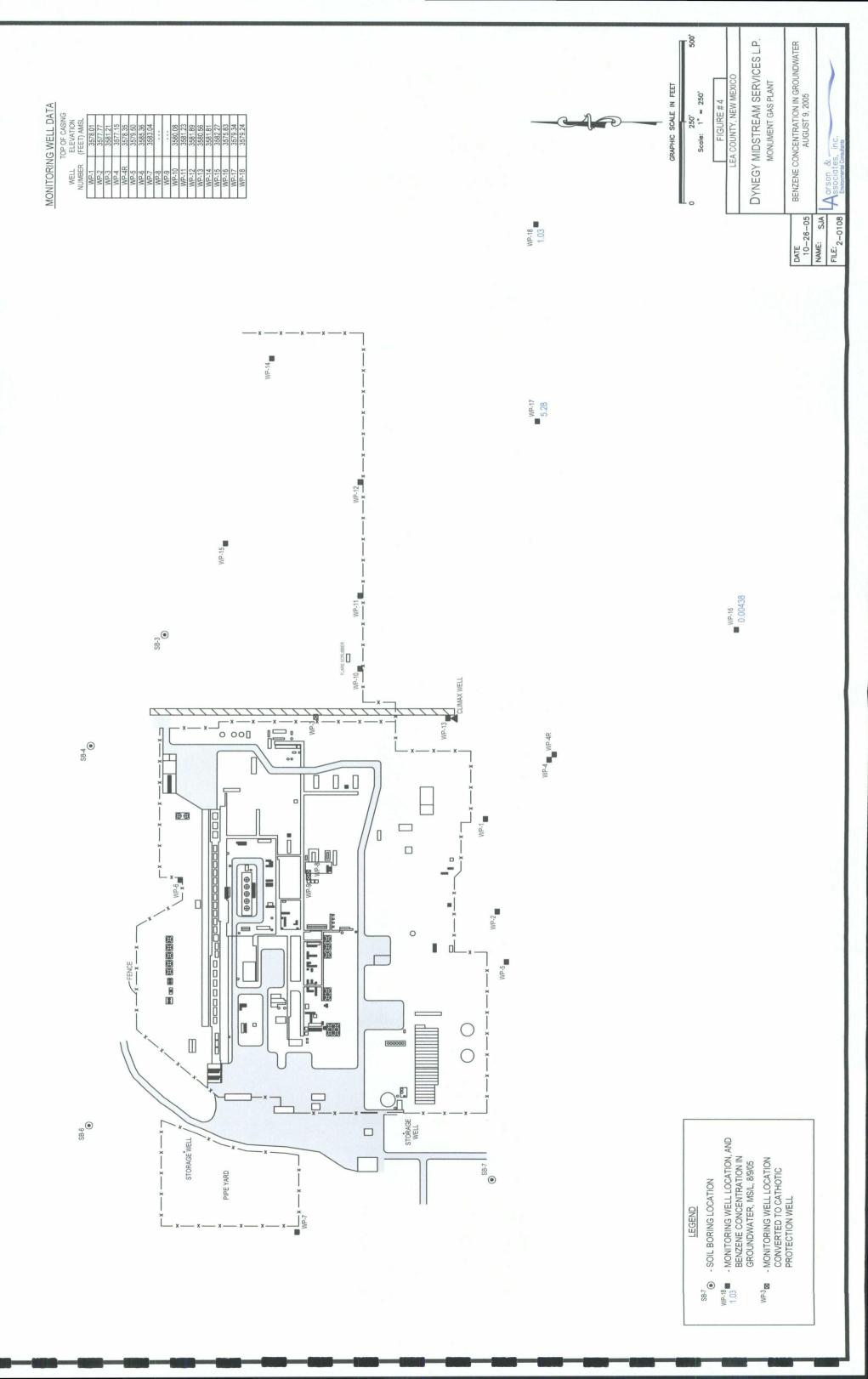
1. %:

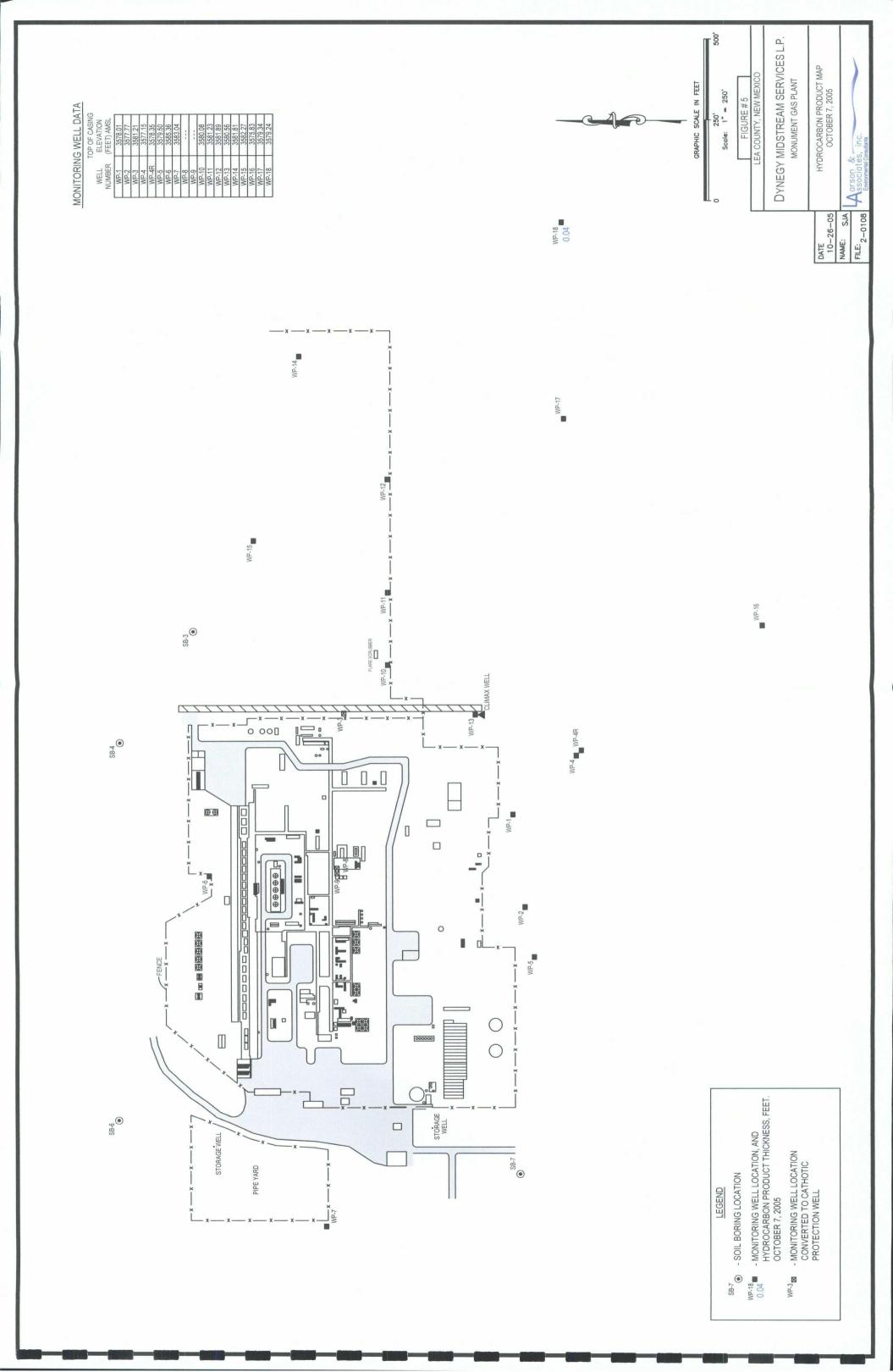
Figures

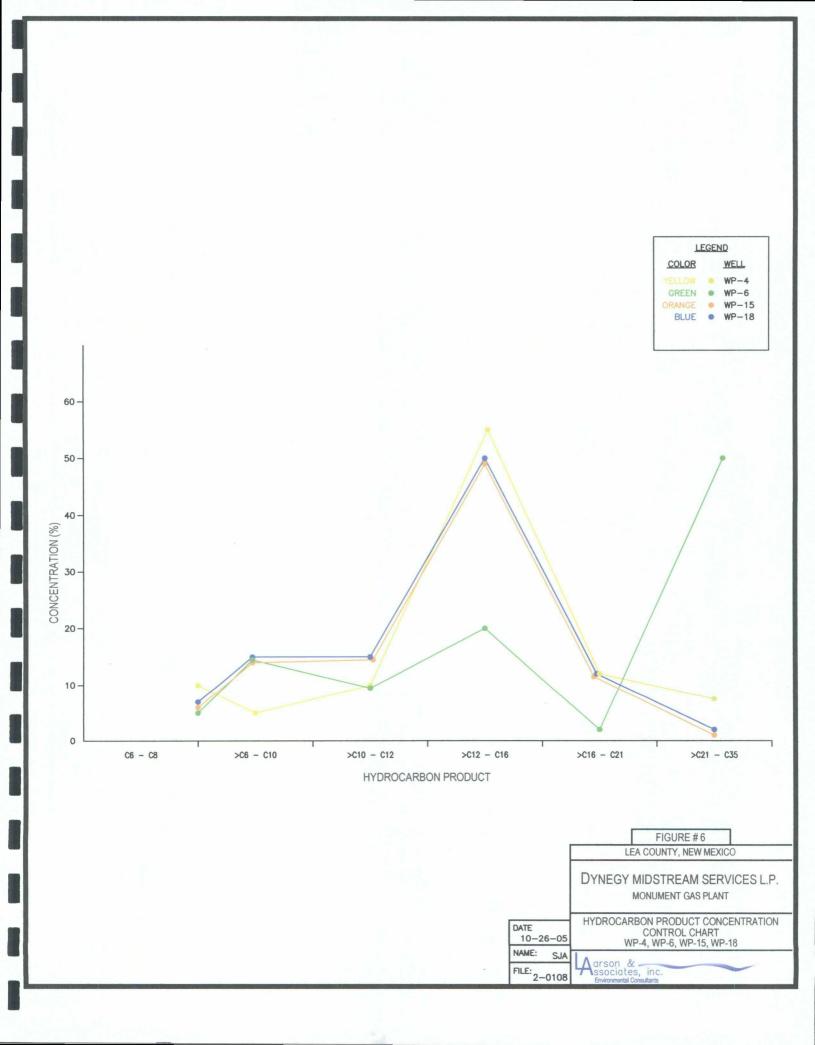












Appendices

Appendix A

Correspondence



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

April 24, 2003

Lori Wrotenbery
Director
Oil Conservation Division



Mr. Cal Wrangham
Dynegy Midstream Services, L.P.
6 Desta Drive, Suite 3300
Midland, Texas 77705

RE: GROUND WATER REMEDIATION MONUMENT GAS PLANT (GW-25)

Dear Mr. Wrangham:

The New Mexico Oil Conservation Division has reviewed Dynegy Midstream Services, L.P. (Dynegy) March 18, 2003 "ANNUAL GROUNDWATER MONITORING REPORT, DYNEGY MIDSTREAM SERVICES, L.P., MONUMENT GAS PLANT, (GW-25), SE/4, SW/4 SECTION 36, TOWNSHIP 19 SOUTH, RANGE 36, EAST, LEA COUNTY, NEW MEXICO" which was submitted on behalf of Dynegy by their consultant Larson & Associates, Inc. This document contains the results of Dynegy's 2002 ground water monitoring activities at Dynegy's Monument Gas Plant in Monument, New Mexico.

A review of the above-referenced document shows that there is no downgradient and lateral control on the extent of hydrocarbon contamination of ground water south and east of the gas plant. The furthest downgradient and lateral ground water monitoring wells in these areas contain phase-separated hydrocarbons. Therefore, the OCD requires that Dynegy submit a work plan to complete the definition of the extent of hydrocarbon contamination of ground water at the site. Please submit the work plan to the OCD Santa Fe Office by June 24, 2003 with a copy provided to the OCD Hobbs District Office.

If you have any questions, please contact me at (505) 827-7154.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

xc: Chris Williams, OCD Hobbs District Office

Cindy K. Crain, Larson & Associates, Inc.

Dynegy Midstream Services, Limited Partnership 1000 Louisiana Street, Suite 5800 Houston, Texas 77002 Phone 713.507.6400 www.dynegy.com

June 27, 2003

VIA UPS OVERNIGHT DELIVERY



Mr. William C. Olson Senior Hydrologist New Mexico Oil Conservation Division Environmental Bureau 1220 South St. Francis Drive Santa Fe, New Mexico 87505

Re: Work Plan for Monitoring Well Installations, Dynegy Midstream Services, L.P., Monument Gas Plant (GW-025), UL N (SE/4, SW/4), Section 36, Township 19 South, Range 36 East, Lea County, New Mexico

Dear Mr. Olson,

Dynegy Midstream Services, L.P. (Dynegy) is submitting this work plan per your request to investigate the extent of phase-separated hydrocarbons in groundwater at the subject gas processing plant. After it's review of the annual groundwater monitoring report, the New Mexico Oil Conservation Division (NMOCD) requested a work plan on April 24, 2003, to further delineate phase-separated hydrocarbons (PSH) beyond existing monitoring wells located on the east and southeast sides of the plant property. As discussed during our meeting during May 2003, Dynegy is committed to recovering PSH from the groundwater at wells WP-4 and WP-15, and has recently purchased two new pneumatic skimmer pumps (GeoTech Model PRS). The pumps will be installed at wells WP-4 and WP-15, and will be equipped with automatic controls and a tank level switch. The pumps will discharge into 55-gallon drums equipped with automatic level switch and secondary containment. The recovered PSH will be placed in the condensate storage tanks at the plant.

Dynegy proposes to install three (3) monitoring wells east and southeast of the existing wells to determine the extent of the PSH in groundwater. The wells will be drilled approximately fifteen (15) feet into the upper groundwater-bearing unit using air rotary drilling rig or equivalent drilling equipment. Groundwater is estimated to occur from approximately 23 to 39 feet below ground surface (bgs), therefore, the wells will be advanced from approximately 38 to 54 feet bgs. The wells will be constructed using 2-inch diameter schedule 40 PVC screw-threaded casing and screen. The well screen, approximately twenty (20) feet in length, will extend to about fifteen (15) feet below groundwater and five (5) feet above groundwater.

Mr. William C. Olson June 24, 2003 Page 2

Before final completion of the wells, the wells will be bailed or pumped with an electric submersible pump to remove fine-grained sediment and will be gauged to detect the presence of PSH. If PSH is detected in the well, the well will be completed as described below. If no PSH is found in the well, a groundwater sample will be collected as described below, then the well screen will be pulled and the hole plugged with bentonite chips and grout.

For wells containing PSH, the well screen will be surrounded with graded silica sand to about two (2) feet above the screen. A layer of bentonite chips, approximately three (3) feet thick, will be placed above the sand, and hydrated with potable water. The remainder of the boring will be filled with cement grout to about one (1) foot bgs. Each well will be secured with a locking cover anchored in concrete. The top-of-casing and ground elevation will be surveyed for elevation and location by a professional land surveyor licensed in the State of New Mexico. Drill cuttings will be placed on the ground adjacent to the wells.

All wells will be gauged for depth-to-groundwater. The developed or purged water will be contained in a portable tank, and discharged to the process water disposal system located at the plant. Groundwater samples will be collected from all wells where PSH is not present. Samples will be collected using dedicated disposable polyethylene bailers and will be carefully transferred to laboratory-preserved containers. The containers will be sealed, labeled, chilled in an ice chest, delivered under chain-of-custody control to the environmental laboratory, and analyzed for BTEX using method SW-846-8021B.

Results of the investigation will be submitted to the NMOCD as soon as possible but no later than six (6) weeks after the sampling is completed. I anticipate discussing this work plan with you in mid'July at your convenience, with the work scheduled to begin shortly after your approval. Please give me a call if you have any questions or need further information.

Sincerely,

Dynegy Midstream Services, L.P.

J.D. Morris, P.E.

jd.morris@dynegy.com

713-507-6752

cc: Cal Wrangham

David Harris

James Lingnau

Chris Williams – NMOCD District 1



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 10, 2003

Mr. J.D. Morris Dynegy Midstream Services, L.P. 1000 Louisiana St., Suite 5800 Houston, Texas 77002

RE: GROUND WATER REMEDIATION MONUMENT GAS PLANT (GW-25) MONUMENT, NEW MEXICO

Dear Mr. Morris:

The New Mexico Oil Conservation Division (OCD) has reviewed Dynegy Midstream Services, L.P.'s (Dynegy) June 27, 2003 "WORK PLAN FOR MONITORING WELL INSTALLATIONS, DYNEGY MIDSTREAM SERVICES, L.P., MONUMENT GAS PLANT (GW-025), (SE/4, SW/4), SECTION 36, TOWNSHIP 19 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO". This document contains Dynegy's work plan for installation of additional monitoring wells to determine downgradient and lateral extent of ground water contamination related to the Monument Gas Plant west of Monument, New Mexico.

The above-referenced work plan is approved with the following conditions:

- 1. Each borehole shall be completed as a ground water monitoring well regardless of the presence of phase-separated hydrocarbons on ground water.
- 2. The cement grout used to complete the monitor wells shall contain 3-5% bentonite.
- 3. Each monitor well shall be developed after construction using EPA approved procedures
- 4. No less than 24 hours after the wells are developed, ground water from all monitor wells which do not contain free phase products shall be purged, sampled and analyzed for concentrations of BTEX.
- 5. All soil and water samples shall be obtained and analyzed using EPA approved methods and quality assurance/quality control (QA/QC) procedures.
- 6. All wastes generated shall be disposed of at an OCD approved facility.

- 7. Dynegy shall submit a report containing the investigation results to the OCD Santa Fe Office by November 10, 2003 with a copy provided to the OCD Hobbs District Office. The report shall include:
 - a. A description of all past and present investigation activities which have occurred including conclusions and recommendations.
 - b. A geologic log and well completion diagram for each monitor well.
 - c. A water table potentiometric map showing the location of monitor wells, boreholes, pipelines, pits and any other pertinent site features, as well as the direction and magnitude of the hydraulic gradient.
 - d. A product thickness map based upon the thickness of measured free product in each facility monitoring well.
 - e. Summary tables of all soil and ground water quality sampling results including copies of all laboratory analytical data sheets and associated QA/QC data.
 - f. The disposition of all wastes generated.
- 8. Dynegy shall notify the OCD at least 1 week in advance of all scheduled activities such that the OCD has the opportunity to witness the events and split samples.

Please be advised that OCD approval does not limit Dynegy to the proposed work plan should the investigation actions fail to adequately define the extent of contamination related to Dynegy's activities, or if contamination exists which is outside the scope of the work plan. In addition, OCD approval does not relieve Dynegy of responsibility for compliance with any other federal, state or local laws and regulations.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

cc. Chris Williams, OCD Hobbs District Supervisor



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON
Governor
Joanna Prukop

Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 10, 2003

Mr. J.D. Morris
Dynegy Midstream Services, L.P.
1000 Louisiana St., Suite 5800
Houston, Texas
77002

RE: GROUND WATER REMEDIATION MONUMENT GAS PLANT (GW-25) MONUMENT, NEW MEXICO

Dear Mr. Morris:

The New Mexico Oil Conservation Division (OCD) has reviewed Dynegy Midstream Services, L.P.'s (Dynegy) January 21, 2004 "REQUEST FOR EXTENSION FOR GROUNDWATER INVESTIGATION, DYNEGY MIDSTREAM SERVICES, L.P., MONUMENT GAS PLANT (GW-025), UNIT LETTER N, SECTION 36, TOWNSHIP 19 SOUTH, RANGE 37 EAST, LEA COUNTY, NEW MEXICO" which was submitted by Dynegy's consultant Larson & Associates, Inc. This document contains Dynegy's request for an extension of the deadline to submit a final report based upon Dynegy's previously submitted June 27, 2003 work plan which was approved by the OCD on September 10, 2003.

The request to submit a final report by June 30, 2004 on the work plan for installation of additional monitoring wells to determine downgradient and lateral extent of ground water contamination related to the Monument Gas Plant is approved.

If you have any questions, please contact me at (505) 476-3491.

Sincerely,

William C. Olson

Hydrologist

Environmental Bureau

ce: Chris Williams, OCD Hobbs District Supervisor

From: Sent:

Price, Wayne [WPrice@state.nm.us] Wednesday, May 18, 2005 2:09 PM

To:

Cal Wrangham (E-mail); Mark Larson (E-mail)

Cc: Subject:

Sheeley, Paul; Johnson, Larry; Anderson, Roger Dynegy Monument Gas Plant GW-025 Groundwater report

Dear Mr. Wrangham and Larson:

During the technical meeting held on May 17, 2005 Dynegy submitted the annual 2004 groundwater report for the above referenced site. During the meeting OCD indicated that due to the extreme groundwater rise (6-8 feet) in level over the past year Dynegy will be required to obtain a down gradient monitoring point from the site. The discussion centered on a point down gradient of WP-4 and WP-4R. In addition, OCD will require one monitoring point down gradient from WP-12 and WP-14.

Please submit for OCD approval a plan to address this issue by June 15, 2005.

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462 E-mail: WPRICE@state.nm.us

bmitted

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From:

Mark Larson [mark@laenvironmental.com]

Sent:

Wednesday, June 15, 2005 8:38 PM

To:

Price, Wavne

Cc:

Cal.Wrangham@Dyneegy.com; JD.Morris@Dynegy.com; RAnderson@state.nm.us;

LJohnson@state.nm.us; PSheeley@state.nm.us

Subject:

RE: Dynegy Monument Gas Plant GW-025, Work Plan for Well Installation



NMOCD espondence, June 1

Dear Mr. Price,

This submittal is in response to your request for a work plan to install monitoring wells at the Dynegy Midstream Services, L.P. (Dynegy), Monument Gas Plant (G-025), located in Lea County, New Mexico. As discussed during our telephone conversation on June 13, 2005, Dynegy submitted a work plan to the New Mexico Oil Conservation Division (NMOCD) on June 27, 2003, at the request of Mr. Bill Olson (April 24, 2003). The work plan proposed three (3) monitoring wells, and was approved by the NMOCD on September 10, 2003. Mr. Olson approved a request for extension until June 30, 2004, in order for Dynegy to conduct further product recovery and source identification. The NMOCD was briefed of the findings of the product recovery and source identification efforts during the technical meeting on May 17, 2005. Dynegy requests that the NMOCD accept its work plan dated June 27, 2003, and approval with conditions dated September 10, 2003? Copies of the above-referenced correspondence, as well as a drawing showing the approximate locations for the proposed wells is attached. Please contact Mr. Wrangham or myself if you have questions. Sincerely,

Mark J. Larson Senior Hydrogeologist/President Larson and Associates, Inc. 507 N. Marienfeld Street, Suite 202 Midland, Texas 79701 (432) 687-0901 (Office) (432) 687-0456 (Fax)

(432) 556-8656 (Cell)

Mark@LAEnvironmental.com

----Original Message----

From: Price, Wayne [mailto:WPrice@state.nm.us]

Sent: Wednesday, May 18, 2005 2:09 PM

To: Cal Wrangham (E-mail); Mark Larson (E-mail) Cc: Sheeley, Paul; Johnson, Larry; Anderson, Roger

Subject: Dynegy Monument Gas Plant GW-025 Groundwater report

Dear Mr. Wrangham and Larson:

During the technical meeting held on May 17, 2005 Dynegy submitted the annual 2004 groundwater report for the above referenced site. During the meeting OCD indicated that due to the extreme groundwater rise (6-8 feet) in level over the past year Dynegy will be required to obtain a down gradient monitoring point from the site. The discussion centered on a point down gradient of WP-4 and WP-4R. In addition, OCD will require one monitoring point down gradient from WP-12 and WP-14.

Please submit for OCD approval a plan to address this issue by June 15, 2005.

From: Price, Wayne, EMNRD [wayne.price@state.nm.us]

Sent: Thursday, June 16, 2005 9:08 AM

To: Mark Larson

Cc: Cal.Wrangham@Dyneegy.com; JD.Morris@Dynegy.com; RAnderson@state.nm.us;

LJohnson@state.nm.us; Sheeley, Paul, EMNRD

Subject: RE: Dynegy Monument Gas Plant GW-025, Work Plan for Well Installation

OCD hereby approves of your request.

From: Mark Larson [mailto:mark@laenvironmental.com]

Sent: Wed 6/15/2005 7:38 PM **To:** Price, Wayne, EMNRD

Cc: Cal.Wrangham@Dyneegy.com; JD.Morris@Dynegy.com; RAnderson@state.nm.us; LJohnson@state.nm.us;

Sheeley, Paul, EMNRD

Subject: RE: Dynegy Monument Gas Plant GW-025, Work Plan for Well Installation

Dear Mr. Price,

This submittal is in response to your request for a work plan to install monitoring wells at the Dynegy Midstream Services, L.P. (Dynegy), Monument Gas Plant (G-025), located in Lea County, New Mexico. As discussed during our telephone conversation on June 13, 2005, Dynegy submitted a work plan to the New Mexico Oil Conservation Division (NMOCD) on June 27, 2003, at the request of Mr. Bill Olson (April 24, 2003). The work plan proposed three (3) monitoring wells, and was approved by the NMOCD on September 10, 2003. Mr. Olson approved a request for extension until June 30, 2004, in order for Dynegy to conduct further product recovery and source identification. The NMOCD was briefed of the findings of the product recovery and source identification efforts during the technical meeting on May 17, 2005. Dynegy requests that the NMOCD accept its work plan dated June 27, 2003, and approval with conditions dated September 10, 2003? Copies of the above-referenced correspondence, as well as a drawing showing the approximate locations for the proposed wells is attached. Please contact Mr. Wrangham or myself if you have questions. Sincerely.

Mark J. Larson
Senior Hydrogeologist/President
Larson and Associates, Inc.
507 N. Marienfeld Street, Suite 202
Midland, Texas 79701
(432) 687-0901 (Office)
(432) 687-0456 (Fax)
(432) 556-8656 (Cell)
Mark@LAEnvironmental.com

----Original Message-----

From: Price, Wayne [mailto:WPrice@state.nm.us]

Sent: Wednesday, May 18, 2005 2:09 PM

To: Cal Wrangham (E-mail); Mark Larson (E-mail) Cc: Sheeley, Paul; Johnson, Larry; Anderson, Roger

Subject: Dynegy Monument Gas Plant GW-025 Groundwater report

Dear Mr. Wrangham and Larson:

During the technical meeting held on May 17, 2005 Dynegy submitted the annual 2004 groundwater report for the above referenced site. During the meeting OCD indicated that due to the extreme groundwater rise (6-8 feet) in level over the past year Dynegy will be required to obtain a down gradient monitoring point from the site. The discussion centered on a point down gradient of WP-4 and WP-4R. In addition, OCD will require one monitoring point down gradient from WP-12 and WP-14.

Please submit for OCD approval a plan to address this issue by June 15, 2005.

Sincerely:

Wayne Price
New Mexico Oil Conservation Division
1220 S. Saint Francis Drive
Santa Fe, NM 87505
505-476-3487

fax: 505-476-3462

E-mail: WPRICE@state.nm.us

bmitted

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From:

Price, Wayne, EMNRD [wayne.price@state.nm.us]

Sent:

Thursday, June 30, 2005 9:22 AM

To:

Mark Larson

Cc:

Cal.Wrangham@Dyneegy.com; JD.Morris@Dynegy.com; RAnderson@state.nm.us;

LJohnson@state.nm.us; Sheeley, Paul, EMNRD

Subject: RE: Dynegy Monument Gas Plant GW-025, Work Plan for Well Installation

APPROVED!!

From: Mark Larson [mailto:mark@laenvironmental.com]

Sent: Wed 6/15/2005 7:38 PM **To:** Price, Wayne, EMNRD

Cc: Cal.Wrangham@Dyneegy.com; JD.Morris@Dynegy.com; RAnderson@state.nm.us; LJohnson@state.nm.us;

Sheeley, Paul, EMNRD

Subject: RE: Dynegy Monument Gas Plant GW-025, Work Plan for Well Installation

Dear Mr. Price,

This submittal is in response to your request for a work plan to install monitoring wells at the Dynegy Midstream Services, L.P. (Dynegy), Monument Gas Plant (G-025), located in Lea County, New Mexico. As discussed during our telephone conversation on June 13, 2005, Dynegy submitted a work plan to the New Mexico Oil Conservation Division (NMOCD) on June 27, 2003, at the request of Mr. Bill Olson (April 24, 2003). The work plan proposed three (3) monitoring wells, and was approved by the NMOCD on September 10, 2003. Mr. Olson approved a request for extension until June 30, 2004, in order for Dynegy to conduct further product recovery and source identification. The NMOCD was briefed of the findings of the product recovery and source identification efforts during the technical meeting on May 17, 2005. Dynegy requests that the NMOCD accept its work plan dated June 27, 2003, and approval with conditions dated September 10, 2003? Copies of the above-referenced correspondence, as well as a drawing showing the approximate locations for the proposed wells is attached. Please contact Mr. Wrangham or myself if you have questions. Sincerely,

Mark J. Larson

Senior Hydrogeologist/President Larson and Associates, Inc. 507 N. Marienfeld Street, Suite 202 Midland, Texas 79701 (432) 687-0901 (Office) (432) 687-0456 (Fax) (432) 556-8656 (Cell) Mark@LAEnvironmental.com

----Original Message----

From: Price, Wayne [mailto:WPrice@state.nm.us]

Sent: Wednesday, May 18, 2005 2:09 PM

To: Cal Wrangham (E-mail); Mark Larson (E-mail) Cc: Sheeley, Paul; Johnson, Larry; Anderson, Roger

Subject: Dynegy Monument Gas Plant GW-025 Groundwater report

Dear Mr. Wrangham and Larson:

During the technical meeting held on May 17, 2005 Dynegy submitted the annual 2004 groundwater report for the above referenced site. During the meeting OCD indicated that due to the extreme groundwater rise (6-8 feet) in level over the past year Dynegy will be required to obtain a down gradient monitoring point from the site. The discussion centered on a point down gradient of WP-4 and WP-4R. In addition, OCD will require one monitoring point down gradient from WP-12 and WP-14.

Please submit for OCD approval a plan to address this issue by June 15, 2005.

Sincerely:

Wayne Price New Mexico Oil Conservation Division 1220 S. Saint Francis Drive Santa Fe, NM 87505 505-476-3487 fax: 505-476-3462

E-mail: WPRICE@state.nm.us

bmitted

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Appendix B

Boring Logs and Well Records

1

Client: Dynegy Midstream Services, L.P.

Project: Monument Gas Plant

Project No.: 3-0106

Location: Lea County, New Mexico

Log: WP-4R

Geologist: C. Crain

Page: 1 of 1

	cation: Lea County,		WOXIOO					ray	<i>je:</i> 1011
	SUBSURFACE PROF	LE			SAMPL	Ε	PID Measurement		
Depth	Description	Symbol	Ground Elevation	Number	Type	Recovery	(PPM) 50 100 150	Well Detail	Notes
5-	Caliche 7.5 YR 8/3, Pinkish white quartz sand, very fine grained, very poorly sorted, dry								Well finished with locking above grade cover 0.00' - 14.00' BGS Cement - bentonite grout
10-	·		3564						0.00' - 14.00' BGS 4" Sch. 40 PVC threaded riser
15 —	Silty Sand 5 YR 6/6, pinkish orange quartz sand, very fine grained, poorly sorted, sorted, loose, dry								14.00' - 18.00' BGS Bentonite pellets
20-	Damp @ 23.0' Hydrocarbon odor 28.0' - 40.0' Staining 28.0' - 38.0'								16.00' - 38.00' BGS 10-20 Silica sand
25-									18.00' - 38.00' BGS 4" Sch. 40 PVC threaded screen 0.010" slots
30-								¥	30.79' BGS Water Level, 10/07/05
35-	Red, Silty Clay Very fine grained, very poorly sorted, damp		3540 3538					ŧ	38.00' BGS 4" Sch. 40 PVC threaded cap
40-	\TD: 38'								

Drilled By: Scarborough Drilling

Drill Method: Air Rotary

Drill Date: 12/16/03

1 9 May

Larson and Associates Inc. 507 N. Marienfeld, Suite 202 Midland, Texas 79701

(432) 687-0901

Well Size: 4"

TOC Elevation: 3578.35'

Checked By: CC

Client: Dynegy Midstream Services, L.P.

Project: Monument Gas Plant

Project No.: 3-0106

A 1887

Location: Lea County, New Mexico

Log: WP-16

Geologist: C. Crain

Page: 1 of 1

LC	cation: Lea County,	IACM	IVICAICO					rag	e: 1 01 1
	SUBSURFACE PROF	ILE			SAMPL	E	PID Measurement		
Depth	Description	Symbol	Ground Elevation	Number	Type	Recovery	(PPM) 5 10 15	Well Detail	Notes
5-	Caliche 7.5 YR 8/2, Pinkish white quartz sand, indurated, damp								Well finished with locking above grade cover 0.00' - 15.00' BGS Cement - bentonite grout
10-									0.00' - 18.49' BGS 2" Sch. 40 PVC threaded riser
15-									15.00' - 17.00' BGS Bentonite pellets
20-			3551						18.49' - 38.49' BGS 2" Sch. 40 PVC threaded screen 0.010" slots
25-	Sand 5 YR 6/6, Reddish yellow quartz sand, poorly sorted, fine grained, damp		3301			}			17.00' - 39.00' BGS 10-20 Silica sand
30-									32.02' BGS Water Level, 10/07/05
35-			3536						vvaler Level, 10/07/05
40-	Redbed (Clay) 10 R 4/4, weak red TD: 40'		3534					Ų	39.00' BGS 2" Sch. 40 PVC threaded cap
-									
45-				<u> </u>					

Drilled By: Scarborough Drilling

Larson and Associates Inc. 507 N. Marienfeld, Suite 202 Midland, Texas 79701 Drill Method: Air Rotary

(432) 687-0901

Drill Date: 8/4/05

TOC Elevation: 3575.83'

Checked By: CC

Well Size: 2"

Client: Dynegy Midstream Services, L.P.

Project: Monument Gas Plant

Project No.: 3-0106

Location: Lea County, New Mexico

Log: WP-17

Geologist: C. Crain

Page: 1 of 1

<u></u>	cation: Lea County,							, ag	<i>je:</i> 1011
	SUBSURFACE PROF	ILE		-	SAMPL	.E	PID Measurement		
Depth	Description	Symbol	Ground Elevation	Number	Type	Recovery	(PPM) 500 1000 1500	Well Detail	Notes
5-	Caliche 7.5 YR 8/2, Pinkish white quartz sand, dry		3568						Well finished with locking above grade cover 0.00' - 14.00' BGS Cement - bentonite grout
10-	Sand 5 YR 6/6, Reddish yellow quartz sand, poorly sorted, fine grained, damp								0.00' - 17.49' BGS 2" Sch. 40 PVC threaded riser
15-									14.00' - 16.00' BGS Bentonite pellets
20-			3555						17.49' - 37.49' BGS 2" Sch. 40 PVC threaded screen 0.010" slots
25 –	Sandstone 5 YR 5/3, Reddish brown quartz sand, poorly sorted, very fine grained, hydrocarbon odor, damp			1			708.00		16.00' - 38.00' BGS 10-20 Silica sand
30-			ı	2] [436.00		33.54' BGS
35-	Redhad		3541	3_	11		617.00		Water Level, 10/07/05
40-	10 R 5/4, weak red silty clay		3539	4	I I		727.00	Ū	38.00' BGS 2" Sch. 40 PVC threaded cap
45-									

Drilled By: Scarborough Drilling

Drill Method: Air Rotary

Drill Date: 8/4/05

Larson and Associates Inc. 507 N. Marienfeld, Suite 202 Midland, Texas 79701

(432) 687-0901

Well Size: 2"

TOC Elevation: 3579 34'

Checked By: CC

Client: Dynegy Midstream Services, L.P.

Project: Monument Gas Plant

Project No.: 3-0106

Location: Lea County, New Mexico

Log: MW-18

Geologist: C. Crain

Page: 1 of 1

	SUBSURFACE PROF				SAMPL	.E	DID				Je. 1011
Depth	Description	Symbol	Ground Elevation	Number	Туре	Recovery	50	Measurei (PPM) 100	150	Well Detail	Notes
5-	Caliche 7.5 YR 8/3, Pink quartz sand, indurated, dry										Well finished with locking above grade cover 0.00' - 21.00' BGS Cement - bentonite grout
15-											0.00' - 24.49' BGS 2" Sch. 40 PVC threaded riser
25-	Sand 5 YR 6/6, Reddish yellow quartz sand, poorly sorted, fine grained		-22								21.00' - 23.00' BGS Bentonite pellets 23.00' - 45.00' BGS
30-	Sandstone 5 YR 5/3, Reddish brown		-31							<u> </u>	10-20 Silica sand 32.72' BGS Water level, 10/07/05
35- - - -	quartz sand, very poorly sorted, medium grained, hydrocarbon odor			1					183.00		24.49' - 44.49' BGS 2" Sch. 40 PVC threaded screen 0.010" slots
40-			-42	2					158.00		
45 — - - - -	Redbed (Clay) 10 R 4/4, weak red, hydrocarbon odor TD: 45'		-45	3					187.00 8	J	45.00' BGS 2" Sch. 40 PVC threaded cap
50-											

Drilled By: Scarborough Drilling

Drill Method: Air Rotary

Drill Date: 8/4/05

A STATE OF THE STA

Larson and Associates Inc. 507 N. Marienfeld, Suite 202 Midland, Texas 79701

(432) 687-0901

Well Size: 2"

TOC Elevation: N/A

Checked By: CC

Appendix C Laboratory Reports

ANALYTICAL REPORT

Prepared for:

Ray Jones
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project:

Dynegy monument Plant

PO#:

Order#:

G0306644

Report Date:

06/10/2003

Certificates

US EPA Laboratory Code TX00158

ENVIRONMENTAL LAB OF TEXAS

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

915-687-0456

Order#:

G0306644

Project:

2-0108

Project Name: Dynegy monument Plant

Location:

None Given

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	<u>Sample :</u> WP-15	Matrix:		Date / Time Collected 6/4/03		te / Time eceived	Container	Preservative
0306644-01	Wr-13	LIQUID		11:00		6/5/03 7:50	40 mL voa	Ice
	Lab Testing: Fingerprint by GC/FID	Rejected:	No	· Te	mp:	4.0 C		
0306644-02	WP-6	LIQUID		6/4/03 14:00		6/5/03 7:50	40 mL voa	Ice
1	Lab Testing:	Rejected:	No	Te	mp:	4.0 C		
	Fingerprint by GC/FID							
0306644-03	WP-4	WATER		6/4/03		6/5/03	40 mL voa	Ice
0200011 02				14:15		7:50		
<u>,</u>	Lab Testing: Fingerprint by GC/FID	Rejected:	No	Te	mp:	4.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ray Jones

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306644

Project:

2-0108

Project Name: Dynegy monument Plant

Location:

None Given

Lab ID:

0306644-01

Sample ID:

WP-15

Fingerprint by GC/FID

Method Blank Date

Prepared

Date Sample

Sample Amount

mple Dilution

Factor

Analyst

Method

Analyzed 6/6/03

1

1

CK

GC/FID

Parameter	Result	RL
C6-C8	4.42	1.00
C8-C10	15.8	1.00
C10-C12	15.9	1.00
C12-C16	51.2	1.00
C16-C21	11.1	1.00
C21-C35	1.50	1.00

Lab ID:

0306644-02

Sample ID:

WP-6

Fingerprint by GC/FID

Method Blank Date Prepared Date Analyzed

6/6/03

Sample

Amount 1 Dilution Factor

Analyst CK

Method GC/FID

Parameter	Result	RL
C6-C8	4.28	1.00
C8-C10	15.6	1.00
C10-C12	11.1	1.00
C12-C16	20.2	1.00
C16-C21	1.63	1.00
C21-C35	47.2	1.00

ENVIRONMENTAL LAB OF TEXAS I, LTD.

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Ray Jones

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306644

Project:

2-0108

Project Name: Dynegy monument Plant

Location:

None Given

Lab ID:

0306644-03

Sample ID:

WP-4

Fingerprint by GC/FID

Method Blank Date Prepared Date

Sample

Sample Amount Dilution Factor

Analyst

Method

Analyzed 6/6/03

1

1

CK GC/FID

Parameter	Result	RL		
C6-C8	9.72	1.00		
C8-C10	5.91	1.00		
C10-C12	11.2	1.00		
C12-C16	55.0	1.00		
C16-C21	11.6	1.00		
C21-C35	6.64	1.00		

Approval:

Raland K. Tuttle, Lab Director, QA Officer

Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

ENVIRONMENTAL LAB OF TEXAS I, LTD.

File : C:\HPCHEM\1\DATA\060503\6644-01.D

Operator : rt

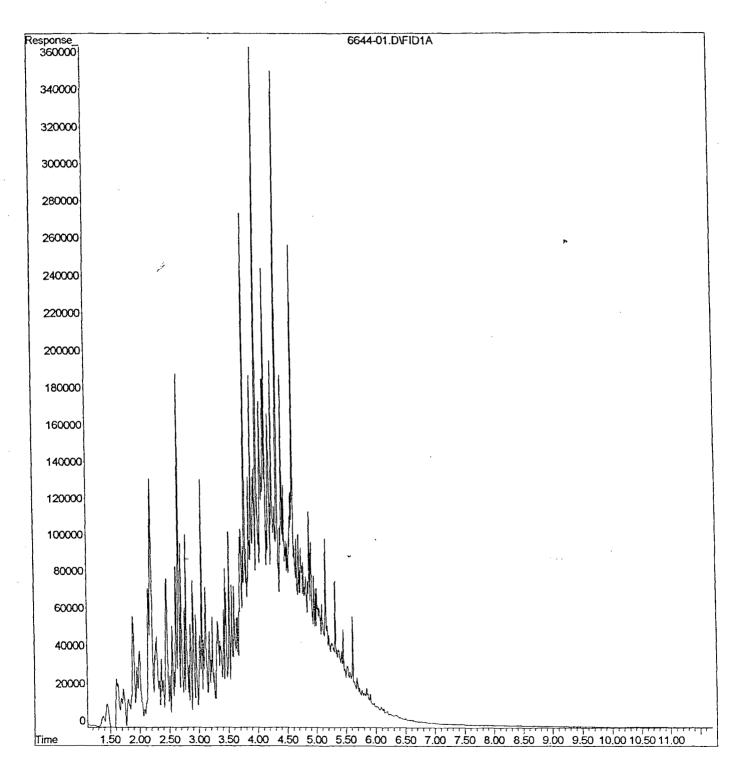
Acquired: 6 Jun 2003 8:22 pm using AcqMethod 1005RTC.M

Instrument: GC/MS Ins

Sample Name:

Misc Info : fingerprint

Vial Number: 47



File : C:\HPCHEM\1\DATA\060503\6644-02.D

Operator : rt

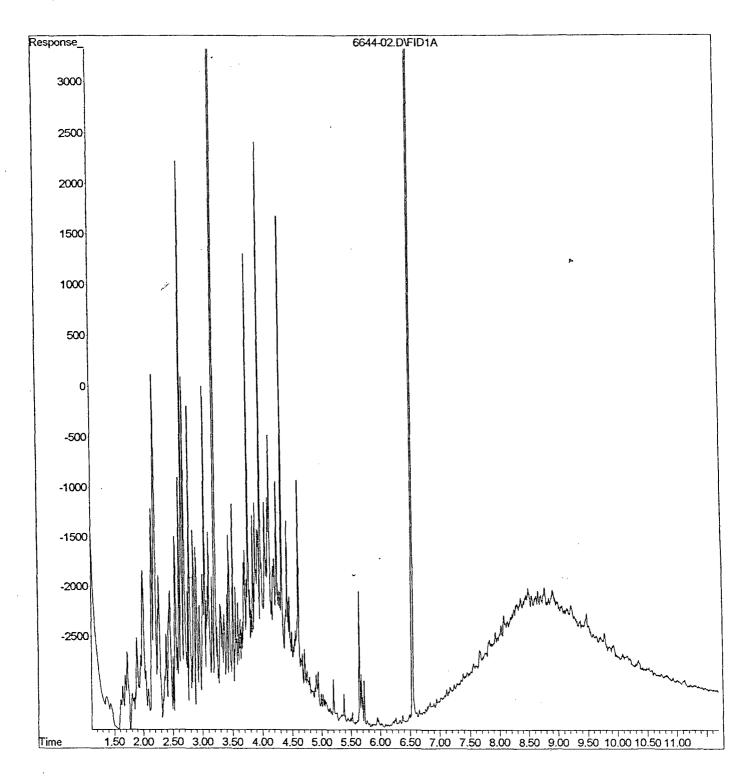
Acquired: 6 Jun 2003 8:44 pm using AcqMethod 1005RTC.M

Instrument: GC/MS Ins

Sample Name:

Misc Info : fingerprint

Vial Number: 48



File : C:\HPCHEM\1\DATA\060503\6644-03.D

Operator : rt

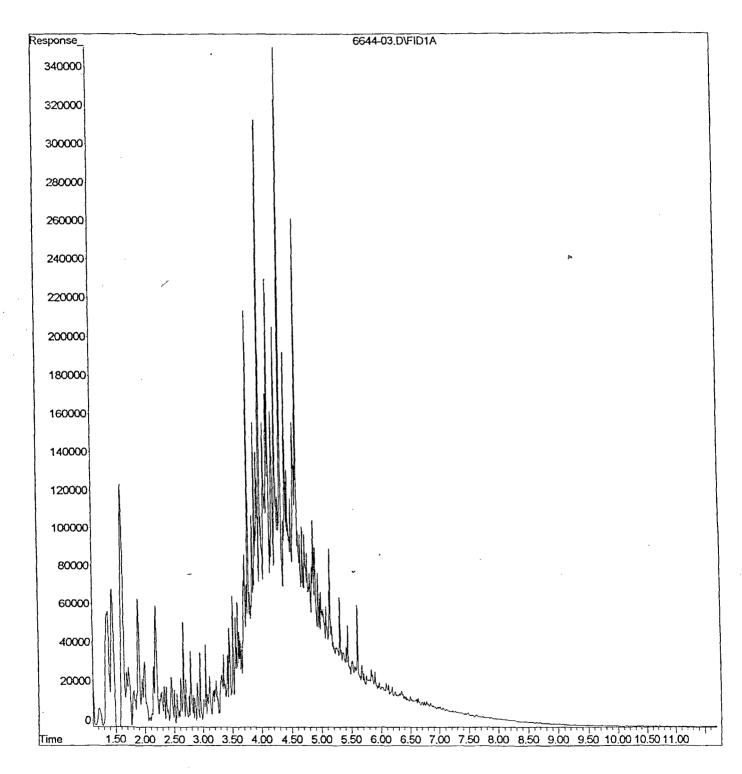
Acquired: 6 Jun 2003 9:06 pm using AcqMethod 1005RTC.M

Instrument: GC/MS Ins

Sample Name:

Misc Info : fingerprint

Vial Number: 49



CHAIN—OF—CUSTODY RECORD	A cirson & Fax: 915-687-0456 Environmental Consultants 915-687-0901 507 N. Marienfeld, Ste. 202 • Midland, TX 79701 LAB. I.D. (I.E., FILTERED, UNRITERED, PRESERVED, UNRESERVED, UNRESERVE	RECEIVED BY: (Signature) DATE:	SAMPLE SHIPPED BY: (Circle) FEDEX BUS AIRBILL #:	ING LAB ING LAB (TO BE RE' FER RECEIPT) CT MANAGER C COORDINATOR	SAMPLE TYPE:
PARAMETERS/METHOD NUMBER	1775	7: (Signature) DATE:	BY: (Signature) DATE:	RECEIVED BY: (Signature) RECEIVED BY: (Signature) A C C C C C TIME: 0 172	110 1
SHEMMANAGER	PROJECT NAME: PROJEC	DATE: 6/2/6-3 RELINQUISHED BY: (Signature)	DATE 4/5/8-3 RECEIVED	ZIP.	PHONE:
CLIENT NAME:	DLYMUSE OF PROJECTINO.: 8 OF PROJECTINO.: 8 OF PAGE OF	SAMPLED BY HSignature)	٦.	COMMENTE: RECEIVING LABORATORY: ADDRESS:	CONTACT: SAMPLE CONDITION WHEN RECEIVED:

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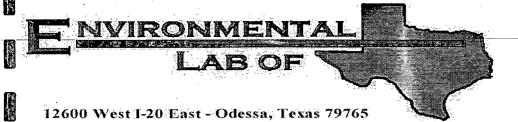
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Analytical Report

Prepared for:

Cindy Crain
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dynegy Monument G.P.
Project Number: 3-0106
Location: None Given

Lab Order Number: 4E14006

Report Date: 05/17/04

Larson & Associates, Inc.	Project: Dynegy Monument G.P.	(432) 687-0456
_P.O. Box 50685	Project Number: 3-0106	Reported:
Larson & Associates, Inc.	Project Manager: Cindy Crain	05/17/04 13:49

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-14	4E14006-01	Oil	05/13/04 15:51	05/14/04 08:58

Larson & Associates, Inc.Project: Dynegy Monument G.P.(432) 687-0456P.O. Box 50685Project Number: 3-0106Reported:Larson & Associates, Inc.Project Manager: Cindy Crain05/17/04 13:49

Fingerprint by GC Environmental Lab of Texas

		Reporting				*			
Analyte	Result	Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Note
WP-14 (4E14006-01)						······································			
C6-C8	4.14	1.00	%	1	EE41701	05/17/04	05/17/04	GC FID	
>C8-C10	13.0	1.00	n	11	10	н	11	Ħ	
>C10-C12	16.3	1.00	n	**	19	**	u	n	
>C12-C16	49.0	1.00	n	п	н	11	er e	"	
>C16-C21	15.4	1.00		**	ii	11	11	н	
>C21-C35	2.16	1.00	u .	11	11	н	n	н	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Ouality Assurance Review

Page 2 of 3

Larson & Associates, Inc.

Project: Dynegy Monument G.P.

Project Number: 3-0106

Larson & Associates, Inc.

Project Manager: Cindy Crain

(432) 687-0456

Reported:

05/17/04 13:49

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the samples received in the laboratory. This analytical report must be reproduced in its entirety, with written approval of Environmental Lab of Texas.

Quality Assurance Review

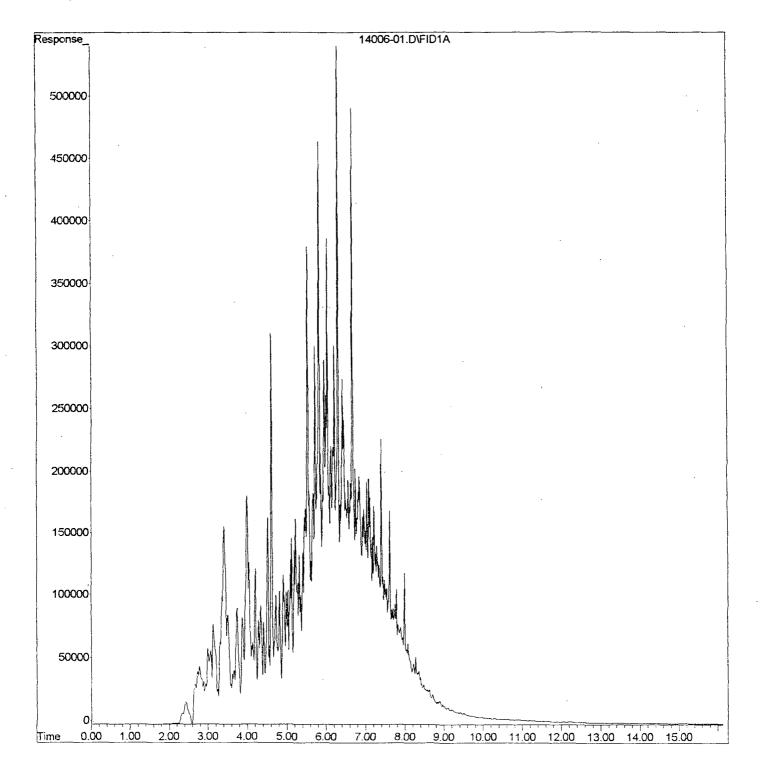
File : C:\HPCHEM\1\DATA\051704\14006-01.D

Operator : JLH

Acquired : 17 May 2004 11:11 am using AcqMethod DINJECT.M

Instrument: GC/MS Ins Sample Name: 4E14006-01

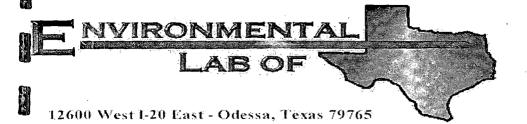
Misc Info : Vial Number: 6



Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Client: T Larson + Associates			·	
Date/Time: 05-14-04 @ 0930				
Order #: 4 E 14 006				
Initials:				
Sample Receipt	Checkli	ist		
Temperature of container/cooler?	Yes	No	6.0 C	
Shipping container/cooler in good condition?	Yes	No	NA	
Custody Seals intact on shipping container/cooler?	Yes	No	Not present	
Custody Seals intact on sample bottles?	Yes	No	(Not present)	
Chain of custody present?	Yes	No		
Sample Instructions complete on Chain of Custody?	Yes	No		
Chain of Custody signed when relinquished and received?	Yes	No		
Chain of custody agrees with sample label(s)	(Yes)	No		
Container labels legible and intact?	Yes	No		
Sample Matrix and properties same as on chain of custody?	(Yes)	No		
Samples in proper container/bottle?	Yes	No		
Samples properly preserved?	Yes	No		
Sample bottles intact?	Yes	No		
Preservations documented on Chain of Custody?	(Yes	No		
Containers documented on Chain of Custody?	(Yes	No		
Sufficient sample amount for indicated test?	Yes	No		•
All samples received within sufficient hold time?	(Yes)	No		
VOC samples have zero headspace?	(Yes)	No	Not Applicable	
Other observations:				
Variance Docum				
Contact Person: Date/Time: Regarding:			Contacted by:	
Corrective Action Taken:	-		····	
				
				<u>·</u>

									e come como		***************************************			do executive section	er element en en element en en	ens essession	i d
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	RECORD	Fax: 432-687-0456 432-687-0901	KED, VED,								DATE:						
N (2) (2)	CUSTODY	Fax: 432-687-0456 432-687-0901	REMARKS (I.E., FILTERED, UNPRESERVED, UNPRES								Ž F	AIDRIII #	OTHER:	Iurned to			and the Age of the statement
2000	CUS	A CITSON & PROPERTY SOCIATION FOR THE PROPERTY OF THE PROPERTY	(I.E., FILT PRESERV	8								یا	UPS	- Receiving Lab (to be returned to La after receipt)	- PROJECT MANAGER - QA/QC COORDINATOR		Section of America, or a self or
- <u> </u>	—0F	ON & B		61							ignature)	D BY: (Cir	LIVERED - PECEIVING I AR	EIVING LA	PROJECT MANAGER QA/QC COORDINAT		Apple No. 6, a long of
L. Harris	CHAIN	A CITS SSO Environ	LAB I.D. NUMBER	HE I HIDE OF							RECEIVED BY: (Signature)	SAMPLE SHIPPED BY: (Circle)	띩	~		SAMPLE TYPE:	official in selection in section of
47.5	3ER										MINIST REC			Yer	PINK	SAN	and the second of the second of the second
() () () () () () () () () ()	parameters/method number										DATE:55/14	DATE:	TURNAROUND TIME NEEDED	2	2		والمجارة والمجارة والمجارة والمجارة والمحارة وال
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To a many the second se	PARAMETE	1040-1									ature)			CECEIVED BY: (Signature)		LA CONTACT PERSON:	
2.201	שר	1	UMBER OF C 7 799 p. Ñ. T	1 U				+			BY: (Sign	(Signature)		CEIVED BY	DATE 5-14-	A CODITA	ment makil matter.
20 Tay 20		\$									KELINOUISHED BY: (Signature)	RECEIVED BY:	>	REC			man merch with a pure
	(5	NOI		:	į					3/0/RE				ZIP: 79765		the solution of the solution
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	SITE MANAGER:	PROJECT NAME:	O# SAMPLE IDENTIFICATION	7-1-2							DATE 5/1	DATE:		×	X		Soll of section of the Lands
PART C	SITE MA	* 11 ~	LAB. PO #	3										Labor	7-20 E STATE: 7x PHONE:		en constitue de l'activité d'in
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Bertalls . I	CLIENT NAME:	PROJECT NO.	PAGE 37ME	1							SAMPLED BY: (Signature)	RELINQUISHED BY: (Signature)	COMMENTS:	ECEIVING LA	ADDRESS: 12606 CITY: Oclesse: CONTACT:	SAMPLE CONDITION WHEN RECEIVED ζ_{0}	Ballin proper consistent and the
	Ţ	i i	4	1.0		Carriero I		100 miles		**************************************	1/2,	lα	I O		$\langle A \cup O \rangle$	Ŋ	2



Analytical Report

Prepared for:

Cindy Crain
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dynegy Monument G.P.
Project Number: 2-0108
Location: None Given

Lab Order Number: 5H10003

Report Date: 08/18/05

Project: Dynegy Monument G.P.

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 08/18/05 10:15

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP 16	5H10003-01	Water	08/09/05 11:50	08/10/05 08:45
WP 17	5H10003-02	Water	08/09/05 14:09	08/10/05 08:45
WP 18	5H10003-03	Water	08/09/05 14:50	08/10/05 08:45

Project: Dynegy Monument G.P.

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 08/18/05 10:15

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP 16 (5H10003-01) Water							<u> </u>		
Benzene	0.00438	0.00100	mg/L	. — <u>— </u>	EH51609	08/16/05	08/16/05	EPA 8021B	
Toluene	ND	0.00100	11	11	19	н	u	н	
Ethylbenzene	ND	0.00100	11	11	Ħ	If	п	11	
Xylene (p/m)	ND	0.00100	11	11	Ħ	u	u	н	
Xylene (o)	ND	0.00100	ır	11	н			и	
Surrogate: a,a,a-Trifluorotoluene		102 %	80-	120	,"	"	"	"	
Surrogate: 4-Bromofluorobenzene		98.0 %	80-	120	"	"	"	"	
WP 17 (5H10003-02) Water						•			
Benzene	5.28	0.0250	mg/L	25	EH51609	08/16/05	08/16/05	EPA 8021B	
Toluene	0.0909	0.0250	**	11	**	n	***	н	
Ethylbenzene	1.22	0.0250	n	**	ıı		. "	H	
Xylene (p/m)	0.242	0.0250	"	r r	u	"	tt.	11	
Xylene (o)	0.0408	0.0250	n	u	11	"	н	н	
Surrogate: a,a,a-Trifluorotoluene		109 %	80-	120	. 11	"	"	"	
Surrogate: 4-Bromofluorobenzene		113 %	80-	120	"	"	"	"	
WP 18 (5H10003-03) Water		_						•	
Benzene	1.03	0.0250	mg/L	25	EH51609	08/16/05	08/16/05	EPA 8021B	
Toluene	0.0294	0.0250	**	It	u	tı	н	п	
Ethylbenzene	0.354	0.0250	**	n	11	н	"	н	
Xylene (p/m)	0.216	0.0250	"	11	u	н	**	**	
Xylene (0)	J [0.0169]	0.0250	\$I		"		n	11	
Surrogate: a,a,a-Trifluorotoluene		112 %	80-	-120	"	"	n .	. 11	
Surrogate: 4-Bromofluorobenzene		107 %	80-	-120	"	. "	"	• "	

Project: Dynegy Monument G.P.

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 08/18/05 10:15

Organics by GC - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EH51609 - EPA 5030C (GC)										
Blank (EH51609-BLK1)				Prepared	& Analyze	ed: 08/16/0	05			
Benzene	ND	0.00100	mg/L							
Toluene	ND	0.00100	11							
Ethylbenzene	ND	0.00100	11							
Xylene (p/m)	ND	0.00100	11							
Xylene (o)	ND	0,00100	. н							
Surrogate: a,a,a-Trifluorotoluene	97.9		ug/l	100		97.9	80-120			
Surrogate: 4-Bromofluorobenzene	81.4		"	100		81.4	80-120			
LCS (EH51609-BS1)				Prepared	& Analyz	ed: 08/16/	05 ··			
Benzene	98.4		ug/l	100		98.4	80-120			
Toluene	97.0		"	100		97.0	80-120			
Ethylbenzene	106		"	100		106	80-120			
Xylene (p/m)	204		51	200		102	80-120			
Xylene (o)	104		**	100		104	80-120			
Surrogate: a,a,a-Trifluorotoluene	104		"	100		104	80-120			
Surrogate: 4-Bromofluorobenzene	95.4		11	100		95.4	80-120			•
Calibration Check (EH51609-CCV1)				Prepared:	: 08/16/05	Analyzeo	d: 08/17/05	;		
Benzene	94.2		ug/l	100		94.2	80-120			
Toluene	94.5		11	100		94.5	80-120			
Ethylbenzene	106		11	100		106	80-120			
Xylene (p/m)	203		ti .	200		102	80-120			
Xylene (o)	109		ţŧ	100		109	80-120			
Surrogate: a,a,a-Trifluorotoluene	94.9		"	100		94.9	0-200			
Surrogate: 4-Bromofluorobenzene	102		"	100		102	0-200			
Matrix Spike (EH51609-MS1)	So	ource: 5H110	06-01	Prepared	: 08/16/05	Analyze	d: 08/17/0:	5		
Benzene	91.6		ug/l	100	ND	91.6	80-120			
Toluene	90.2		n	100	ND	90.2	80-120			
Ethylbenzene	101		n	100	ND	101	80-120			
Xylene (p/m)	191		"	200	ND	95.5	80-120			
Xylene (o)	102		"	100	ND	102	80-120			
Surrogate: a,a,a-Trifluorotoluene	91.5		: "	100		91.5	80-120			
Surrogate: 4-Bromofluorobenzene	97.9		. ,,	100		97.9	80-120			

Project: Dynegy Monument G.P.

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 08/18/05 10:15

Organics by GC - Quality Control **Environmental Lab of Texas**

	Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
--	---------	--------	--------------------	-------	----------------	------------------	------	----------------	-----	--------------	-------

Batch	EH51609	- EPA	5030C	(GC)
-------	---------	-------	-------	------

Matrix Spike Dup (EH51609-MSD1)	Source:	5H11006-01	Prepared:	08/16/05	Analyzed	1: 08/17/05			
Benzene	95.5	ug/l	100	ND	95.5	80-120	4.17	20	
Toluene	94.5	п	100	ND	94.5	80-120	4.66	20	
Ethylbenzene	106	Ħ	100	ND	106	80-120	4.83	20	
Xylene (p/m)	201	n	200	ND	100	80-120	4.60	20	
Xylene (o)	108	. "	100	ND	108	80-120	5.71	20	
Surrogate: a,a,a-Trifluorotoluene	82.3	"	100		82.3	80-120			
Surrogate: 4-Bromofluorobenzene	92.9	"	100		92.9	80-120			

Project: Dynegy Monument G.P.

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 2-0108
Project Manager: Cindy Crain

Reported: 08/18/05 10:15

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Roland Rejuice Date: 8-1805

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

•			•		
Client: LavSon					
Pate/Time: 8/10/05					
order #: 5+110003					
nitials:					
Sample Receipt	Chackli	ct	•		
emperature of container/cooler?	Yes	No	2.5	C	
hipping container/cooler in good condition?	YES)	No		<u> </u>	
rustody Seals intact on shipping container/cooler?	Yes	No	Not present	-	
ustody Seals intact on sample bottles?	Yes	No	Not present		
hain of custody present?	XES	No	116C PI COSSIII		
ample Instructions complete on Chain of Custody?		No			
hain of Custody signed when relinquished and received?	E E	No		$\overline{}$	
hain of custody agrees with sample label(s)	Yes	No	-		
Container labels legible and intact?	(Fig. 1)	No			
ample Matrix and properties same as on chain of custody?	(es	No			
amples in proper container/bottle?	Yes	No		—	
amples properly preserved?		No			
ample bottles intact?	(8)	No			
Preservations documented on Chain of Custody?	Yes	No	 		
Containers documented on Chain of Custody?	Ves l	No			
Sufficient sample amount for indicated test?	(es	No			
All samples received within sufficient hold time?	Xes.	No			
VOC samples have zero headspace?	Yes	No	Not Applicab	اخا	
Other observations:					
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Variance Docu	mentatio	n:			
Contact Person: Date/Time:			Contacted b	V:	
Regarding:				J	
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Corrective Action Taken:					
					
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CLIENT NAME:	SITE MANAGER:	PARAMETERS/METHOD NUMBER	CHAIN—OF—CUSTODY RECORD
Dynegy	Cindy Croin	l	
PROJECT NO.	Modus Ment CP		SSOCIATES, Inc. Fax: 432-687-0456 Environmental Consultants 432-687-0901
PAGE OF I	LAB. PO #		507 N. Marienfeld, Ste. 202 • Midland, TX 79701
105 \$214m	SAMPLE IDENTIFICATION	PLEX NOWBER C	LAB. I.D. REMARKS NUMBER (I.E., FILTERED, UNFILTERED, PRESERVED, ONPRESERVED, CLAB USE ONLY) GRAB COMPOSITE)
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8/4 1409 /	TI JM	2 2	20-
8/9 1450 /	81 20	2 2	_03
SAMPLED BY J. Blanature)	DATE: 8/9 RELINGUISHE	SHED & Signature) DAIE: B/1&	RECEIVED BY: (Signature) DATE:
200	2	TIME	TIME:
RELINQUISHED BY: (Signature)	DATE: RECEIVED BY: (Signature)		SAMPLE SHIPPED BY: (Circle)
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RECEIVING LABORATORY:	TARK RE	RECENED BY: (Signature)	- X
ADDRESS: CITY: CONTACT:	STATE: ZIP: DHONE	DATE: 6/19/05 TIME: 8:45	PINK - PROJECT MANAGER GOLD - QA/QC COORDINATOR
SAMPLE CONDITION WHEN RECEIVED:		A CONTACT PERSON:	SAMPLE TYPE:
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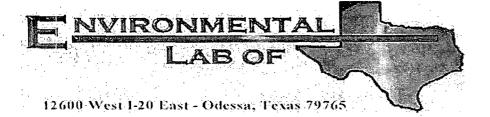
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Analytical Report

Prepared for:

Cindy Crain
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dynegy Monument GWM
Project Number: 2-0108

Location: None Given

Lab Order Number: 5113011

Report Date: 09/26/05

P.O. Box 50685 Midland TX, 79710 Project: Dynegy Monument GWM

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 09/26/05 16:02

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-18	5113011-01	Water	09/13/05 13:40	09/13/05 16:10

Project: Dynegy Monument GWM

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 2-0108 Project Manager: Cindy Crain

Reported: 09/26/05 16:02

Fingerprint by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-18 (5113011-01) Water									
C6-C8	6.26	0.000100	%	1	EI52606	09/26/05	09/26/05	GC FID	
>C8-C10	15.4	0.000100	н	*	**	*	"	•	
>C10-C12	15.8	0.000100	*	"	71	n	•		
>C12-C16	49.7	0.000100	н		*	"	*	**	
>C16-C21	11.7	0.000100	17	•	"	•		н	
>C21-C35	1.14	0.000100	*	•			н	**	

Project: Dynegy Monument GWM

Fax: (432) 687-0456

P.O. Box 50685 Midland TX, 79710 Project Number: 2-0108 Project Manager: Cindy Crain Reported: 09/26/05 16:02

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes

Larson & Associates, Inc.Project:Dynegy Monument GWMFax: (432) 687-0456P.O. Box 50685Project Number:2-0108Reported:Midland TX, 79710Project Manager:Cindy Crain09/26/05 16:02

Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup

Duplicate

	Raland KJUL		
Report Approved By:		Date:	9/26/2005

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer

Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

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If you have received this material in error, please notify us immediately at 432-563-1800.

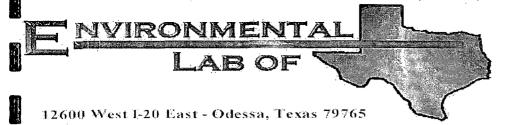
CLENT	CLIENT NAME:				SITE M,	SITE MANAGER:			PAR	AMFTERS/	PARAMETERS/METHOD NIJMRER	IMBER	.	CHAIN-OF-CUSTODY RECORD
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PROJECT NO.	2-0108				PROJEC	PROJECT NAME.	33	283NIATM	TNU	• 1,-			SSO	GrSOn &
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£100	FW _L	MATER	1105	33140	SAMPL	SAMPLE IDENTIFICATION	V.	NUMBER (Find,)			LAB. I.D. NUMBER ILAB USE ONLY	REMARKS (I.E., FLTERED, UNPILTERED, PRESERVED, PROME COMMON CITY)
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Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Date/Time: SIGN L. R. Order #: SIGN L. R. Initials: Sample Receipt Checklist Temperature of container/cooler in good condition? Yes No C. C. C. Shipping container/cooler in good condition? Yes No No C. C. C. C. Shipping container/cooler in good condition? Yes No No Rot present Custody Seals indate on sample bottles? Yes No Not present Custody Seals indate on sample bottles? Yes No No Not present Chain of custody present? Yes No No Rot present Chain of custody signed when refinquished and received? Yes No Chain of custody signed when refinquished and received? Yes No Chain of custody signed when refinquished and received? Yes No Chain of custody present Yes No Container labels legible and infact? Yes No Sample Martix and proper containerbottle? Yes No Samples properly preserved? Yes No Containers documented on Chain of Custody? Yes No Sufficient sample amount for inclinated test? Yes No All samples received within sufficient hold time? Yes No VOC samples have zero headspace? Yes No CNot Applicable Other observations: Date/Time: Contacted by: Corrective Action Taken:		Client: Larson						
Sample Receipt Checklist		Date/Time: 9/12/05 14:10	-					
Sample Receipt Checklist Temperature of container/cooler? Yes No C C Shipping container/cooler in good condition? Yes No Not present Custody Seals intact on simple bottles? Yes No Not present Custody Seals intact on sample bottles? Yes No Not present Custody Seals intact on sample bottles? Yes No Not present Chain of custody present? Yes No Not present Chain of custody present? Yes No Not Chain of Custody Present Chain of custody signed when retinquished and received? Yes No Container labels legible and intact? Yes No Container labels legible and intact? Yes No Samples in proper container/bottle? Yes No Samples in proper container/bottle? Yes No Samples properly preserved? Yes No Samples properly preserved? Yes No Container sociumented on Chain of Custody? Yes No No No Container sociumented on Chain of Custody? Yes No No Container sociumented on Chain of Custody? Yes No	-	Order #: 5 <u>II30ll</u>						
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# Analytical Report

### **Prepared for:**

Cindy Crain
Larson & Associates, Inc.
P.O. Box 50685
Midland, TX 79710

Project: Dynegy Monument GWM
Project Number: 2-0108
Location: None Given

Lab Order Number: 5I13011

Report Date: 09/26/05

Project: Dynegy Monument GWM

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 09/26/05 15:33

#### ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
WP-18	5113011-01	Water	09/13/05 13:40	09/13/05 16:10

P.O. Box 50685 Midland TX, 79710 Project: Dynegy Monument GWM

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 09/26/05 15:33

### Fingerprint by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
WP-18 (5I13011-01) Water									
C6-C8	6.26	0.000100	%	1	EI52606	09/26/05	09/26/05	GC FID	
>C8-C10	15.4	0.000100	u	"	"	н	и	u	
>C10-C12	15.8	0.000100	n	11	"	**	H	п	
>C12-C16 ·	49.7	0.000100	"	**	u	0		11	
>C16-C21	11.7	0.000100	н	**	10	n n	n	н	
>C21-C35	1.14	0.000100	"	11	н	н	11	11	

P.O. Box 50685

Midland TX, 79710

Project: Dynegy Monument GWM

Project Number: 2-0108 Project Manager: Cindy Crain Fax: (432) 687-0456

Reported: 09/26/05 15:33

#### Notes and Definitions

DET Analyte DETECTED

ND Analyte NOT DETECTED at or above the reporting limit

NR Not Reported

dry Sample results reported on a dry weight basis

RPD Relative Percent Difference

LCS Laboratory Control Spike

MS Matrix Spike

Dup Duplicate

Report Approved By: Report Approved By:

Date: 9-26-05

Raland K. Tuttle, Lab Manager Celey D. Keene, Lab Director, Org. Tech Director Peggy Allen, QA Officer Jeanne Mc Murrey, Inorg. Tech Director LaTasha Cornish, Chemist Sandra Sanchez, Lab Tech.

This material is intended only for the use of the individual (s) or entity to whom it is addressed, and may contain information that is privileged and confidential.

If you have received this material in error, please notify us immediately at 432-563-1800.

File : C:\HPCHEM\1\DATA\092305\13011-1R.D

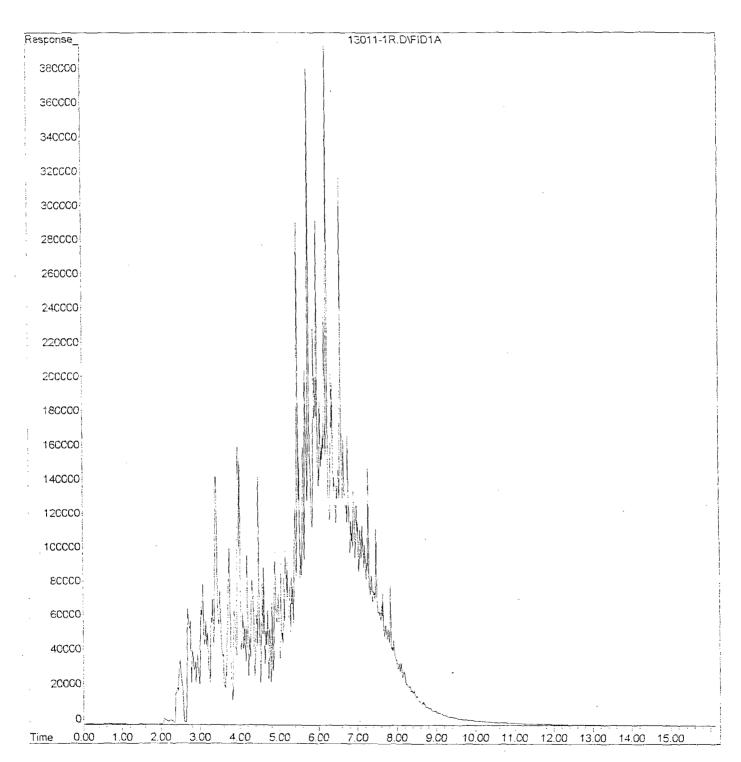
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Operator : CDK

Acquired : 25 Sep 2005 10:19 am using AcqMethod FGRRTC.M

Instrument: GC/MS Ins Sample Name: 5i13011-01

Misc Info : Vial Number: 4



# Environmental Lab of Texas Variance / Corrective Action Report – Sample Log-In

Date/Time:	Client: Larson			æ			•
Sample Receipt Checklist  Temperature of container/cooler?	Date/Time:	- ,			-		
Sample Receipt Checklist  Temperature of container/cooler? Yes No C C Shipping container/cooler in good condition? Yes No Not present Custody Seals intact on shipping container/cooler? Yes No Not present Custody Seals intact on sample bottles? Yes No Not present Chain of custody present? Yes No Not present Sample intructions complete on Chain of Custody? Yes No Chain of Custody signed when relinquished and received? Yes No Chain of Custody signed when relinquished and received? Yes No Chain of Custody signed with sample label(s) Yes No Container labels legible and intact? Yes No Sample Matrix and properties same as on chain of custody? Yes No Samples proper container/bottle? Yes No Samples proper preserved? Yes No Samples property preserved? Yes No Samples property preserved? Yes No Samples of the Samples intact? Yes No Containers documented on Chain of Custody? Yes No Sufficient sample amount for indicated test? Yes No Sufficient sample amount for indicated test? Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No Containers documented on Chain of Custody?  Yes No	Order #:SI13011					•	
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