

Hobbs

August 27, 2004

Mr. Paul Sheeley
Oil Conservation Division – District I
New Mexico Energy, Minerals and Natural Resources Department
1625 North French Drive
Hobbs, New Mexico 88240

Re: Pipeline Spill Remediation Report, Dynegy Midstream Services. L.P., Unit Letter J (NE/4, SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico (Kelly Myers Deep Wells Lease)

Dear Mr. Sheeley:

Dynegy Midstream Services, L. P. (Dynegy) has retained Larson and Associates, Inc. (LA) to remediate impacts to soil from a natural gas liquids (i.e., natural gas condensate) spill located in the northeast quarter (NE/4) of the southwest quarter (SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico (Site #45). The spill occurred on June 4, 2003 along a section of pipeline trending south to north, and a Release Notification and Corrective Action form (Form C-141) was submitted to the State of New Mexico Oil Conservation Division (NMOCD). Figure 1 presents a Site location and topographic map. Appendix A provides a copy of the Form C-141.

Current Investigation

On June 4, 2003, Dynegy excavated all impacted soil within the vicinity of the pipeline leak, north and south of the lease road. On June 6, 2003, LA personnel collected soil samples at a depth of nine (9) feet below ground surface (bgs) on the north side of the road, and a depth of fifteen (15) feet bgs on the south side of the road for laboratory analysis. Samples were also collected from the east and west walls of the excavation south of the road, at a depth of twelve (12) feet bgs. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to Environmental Lab of Texas I, Ltd. (ELOT), located in Odessa, Texas. Soil samples were analyzed for total petroleum hydrocarbons (TPH) by EPA method SW-846-8015, including gasoline range organics (GRO) and diesel range organics (DRO), benzene, toluene, ethylbenzene, and xylene (collectively referred to as BTEX) by EPA method SW-846-8021B, and for chloride by EPA method SW-846-9253.

A duplicate of each sample was collected for headspace analysis. The headspace jars were filled approximately ¾ full, and a layer of aluminum foil was placed over the opening of the jars before replacing the cap. The headspace samples were set aside and allowed to warm up to ambient temperature before a RAE Instruments, Model 2000 photoionization detector (PID) was used to measure the concentration of organic vapors in the sample headspace. The PID probe was inserted into the headspace of the sample jars (through the aluminum foil). The concentration of organic vapors was displayed by the instrument in parts per million (ppm) and recorded in a bound field

Dynesy - 190963 facility-fpACO611829448 incident - pPACO611829927 Mr. Paul Sheeley August 27, 2004 Page 2

notebook. The PID was calibrated to 100.1 ppm isobutylene prior to obtaining headspace readings. Table 1 presents a summary of the laboratory analyses and PID readings of soil samples. Figure 2 shows the sample locations and TPH concentrations. Appendix B presents the laboratory data and chain-of-custody documentation. Appendix C presents photographs.

Based on published literature (1961) and well records of the New Mexico State Engineer (NMSE), groundwater occurs at approximately 104 feet bgs. A domestic water well is located approximately 1000 feet east of the Site. The NMOCD has established RRALs for benzene, total BTEX and TPH resulting from spills of natural gas liquids ("Guidelines for Remediation of Leaks, Spills and Releases, August 13, 1993"). The following RRALs have been assigned, based on NMOCD criteria:

Benzene 10 mg/kg
Total BTEX 50 mg/kg
TPH 100 mg/kg

Referring to Table 1, the soil sample from the north side of the road (SS-3), at a depth of nine (9) feet bgs, showed concentrations of benzene (0.068 mg/kg) and BTEX (0.164 mg/kg) below the RRAL, and the TPH concentration is below the test method detection limit. Soil samples collected from the bottom (SS-4 at 15 feet bgs) and sides (SS-5 at 12 feet bgs, and SS-6 at 12 feet bgs) of the excavation on the south side of the road showed concentrations of TPH that exceeded the RRAL. Concentrations of benzene (16.5 mg/kg) and BTEX (317.7 mg/kg) exceeded the RRAL in the sample from the south side of the road on the west wall (SS-5). The sample collected from the north side of the road, at a depth of nine (9) feet bgs (SS-3), showed a chloride concentration of 70.9 mg/kg. The samples collected from the south side of the road (SS-4, 15' bgs; SS-5, 12' bgs, and SS-6, 12' bgs) showed chloride concentrations of 106 mg/kg, 425 mg/kg, and 106 mg/kg, respectively. The NMOCD does not have a documented RRAL for chloride in soil, although it has applied the New Mexico Water Quality Control Commission (NMWQCC) groundwater standard of 250 milligrams per liter (mg/L) as an action level for soil.

From June 10 through June 11, 2003, excavation of impacted soil, on the south side of the road, occurred at Site #45. On June 12, 2003, soil samples were collected from the sides and bottom of the excavation, and submitted to ELOT for laboratory analysis. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Duplicate samples were collected for headspace analysis, as described above. Soil samples were analyzed for TPH and chlorides. Table 1 presents a summary of the laboratory analysis of soil from the excavation, and PID readings. Figure 2 shows the sample locations and TPH concentrations. Appendix B presents laboratory data and chain-of-custody documentation.

Referring to Table 1, concentrations of TPH remained above the RRAL in samples collected from the west wall, at a depth of 24 feet bgs (292.7 mg/kg), the bottom (east of the pipeline), at a depth of 28 feet bgs (441.4 mg/kg), and the bottom (west of the pipeline), at a depth of 30 feet bgs (1,421 mg/kg). All soil samples showed chloride concentrations below 250 mg/kg.

Mr. Paul Sheeley August 27, 2004 Page 3

Excavation continued at Site #45 until samples were collected from the bottom of the excavation on July 9, 2003, at a depth of 32 feet bgs. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Soil samples were analyzed for BTEX and TPH. Table 1 presents a summary of the laboratory analyses of soil from the excavation. Figure 2 shows the sample locations and laboratory results. Appendix B presents laboratory data and chain-of-custody documentation. Appendix C presents photographs.

Referring to Table 1, concentrations of benzene and BTEX from samples SS-11 and SS-12, were below the test method detection limit. Concentrations of TPH were below the test method detection limit in sample SS-11 and below the RRAL in sample SS-12 (68.3 mg/kg). All soil removed from the excavation, prior to July 9, 2003, was taken to an NMOCD approved landfarm.

Excavation continued along the west wall, at Site #45, until a sample was collected on January 29, 2004 (SS-A), at a depth of 24 feet bgs. Soil from the excavation was placed adjacent to the hole, and blended to reduce the TPH concentrations below the RRAL. A grab sample was obtained from the blended soil, and is presented as "Spoil" in Table 1. The soil samples were placed in clean glass sample jars, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT. Soil samples were analyzed for TPH and chloride. Duplicate samples were collected for headspace analysis, as described above. No BTEX analysis was conducted, as the PID readings were below 100 ppm. The NMOCD allows a PID of less than 100 ppm to substitute for a BTEX laboratory analysis. Table 1 presents a summary of the laboratory analyses. Figure 2 shows the sample location and laboratory results. Appendix B presents laboratory data and chain-of-custody documentation.

Referring to Table 1, concentrations of TPH in sample SS-A (<20 mg/kg) and Spoil (34.04 mg/kg), were below the RRAL. Concentrations of chloride were below 250 mg/kg. As all final TPH and BTEX concentrations were below the RRAL, the excavations north and south of the road were filled with clean soil. Dynegy requests that Site #45 be closed. Please contact Mr. Cal Wrangham with Dynegy at (432) 688-0555 or myself at (432) 687-0901 if you have questions. We may also be contacted by e-mail at <u>Cal.Wrangham@Dynegy.com</u>, or <u>Cindy@Laenvironmental.com</u>.

Sincerely,

Larson & Associates, Inc.

Cindy K. Crain, PG Project Manager

CC: Mr. Cal Wrangham, Dynegy

Mr. Dave Harris, Dynegy Mr. Roger Holland, Dynegy

Mr. William Olson, NMOCD, Santa Fe



Holps

LANE JUNE 23,03

August 27, 2004

Mr. Paul Sheeley New Mexico Oil Conservation Division – District 1 1625 North French Drive Hobbs, New Mexico 88240

Re: Pipeline Spill Remediation Report, Dynegy Midstream Services, L. P., Unit Letter J (NE/4, SW/4), Section 31, Township 23 South, Range 37 East, Lea County, New Mexico

Dear Mr. Sheeley:

Please find enclosed a copy of the above-referenced report. The report is submitted on behalf of Dynegy Midstream Services, L. P., and presents the results of a pipeline spill investigation conducted by Larson and Associates, Inc. Please call Cal Wrangham at (432) 688-0542 or myself at (432) 687-0901 if you have questions.

Sincerely,

Larson and Associates, Inc.

Cindy K. Crain, CPG, CGWP

Project Manager

cc: Cal Wrangham - Dynegy

Dave Harris – Dynegy Roger Holland – Dynegy

William Olson, NMOCD, Santa Fe

TABLE

Summary of Headspace and Laboratory Analyses of Soil Samples NW/4, SE/4, Section 31, Township 23 South, Range 37 East Dynegy Midstream Services, L.P., Spill Site #45 Lea County, New Mexico Table 1:

-	Lea Cour	Lea County, New Mexico							Page 1 of 1	1
Sample	Sample	mojtood Johanno	Sample	Benzene	Total	GRO	DRO	НДТ	Chloride	DIΩ
Date	Number	Salliple Location	Depth (Feet BGS)	(mg/kg)	BTEX (mg/kg)	C6-C12 (ma/ka)	>C12-C35 (ma/ka)	C6-C35 (ma/ka)	(mg/kg)	(mdd)
06/06/03	SS-3	North side bottom	6	0.068	0.164	<10.0	<10.0	<20.0	70.9	149.0
06/06/03	SS-4	South side bottom	15	<0.025	0.207	17.7	159	176.7	106	>1999
06/06/03	SS-5	South side, west wall	12	16.5	317.7	7,820	8,970	16,790	425	>1999
06/06/03	9-SS	South side, east wall	12	<0.025	2.414	406	1,510	1,916	106	>1999
06/12/03	SS-7	South side; west wall	24			11.7	281	292.7	6.07	121.0
06/12/03	8-SS	South side; east wall	24	***		<10.0	<10.0	<20.0	248	37.2
06/12/03	6-SS	South side; east bottom	28			87.4	354	441.4	124	469.0
06/12/03	SS-10	South side; west bottom	30			141	1,280	1,421	53.2	239.0
				٠						
02/09/03	SS-11	South side; bottom	32	<0.025	<0.125	<10	<10	<20	•	157.0
80/60/20	SS-12	South side; bottom	32	<0.025	<0.125	<10	68.3	68.3		82.0
	-									
01/29/04	SS-A	South side; west wall	24	*******	49.00 [2]	<10.0	<10.0	<20.0	170	17.2
01/29/04	Spoil				-	8.44	25.60	34.04	149	49.0
Notes. Ar	Jalveie nar	Notes: Applysis performed by Environmental 1	bt I sever to de		Odesea Tovas					

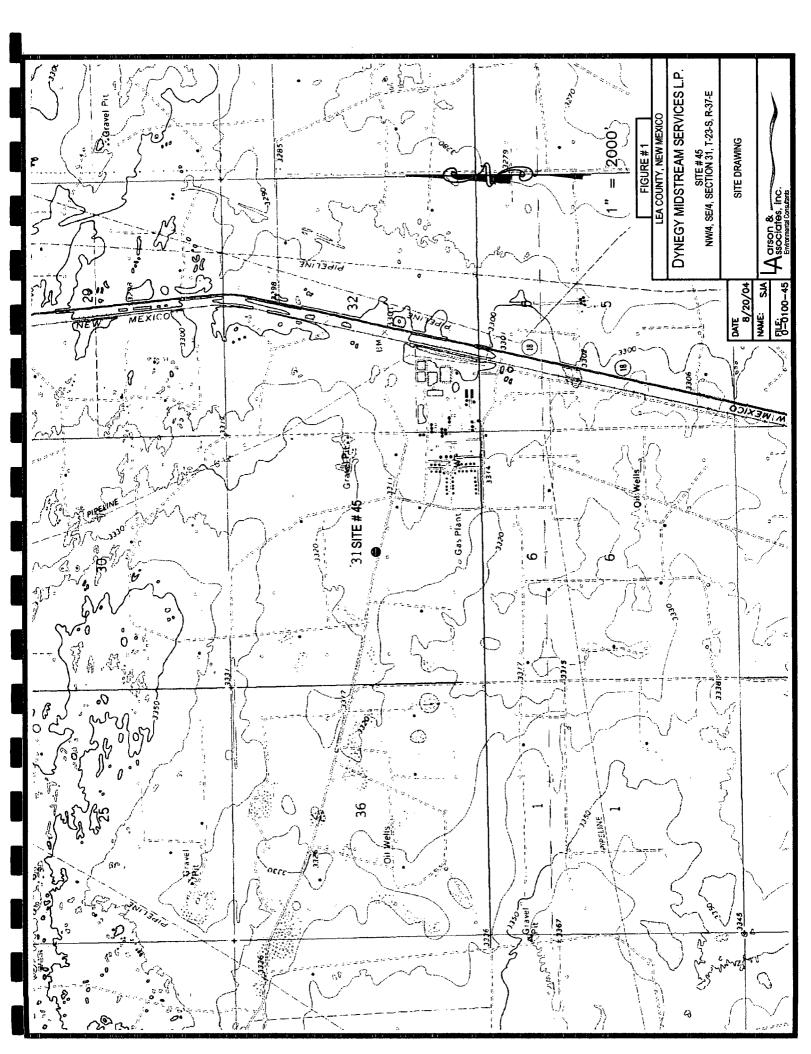
Notes: Analysis performed by Environmental Lab of Texas, I. Ltd., Odessa, Texas

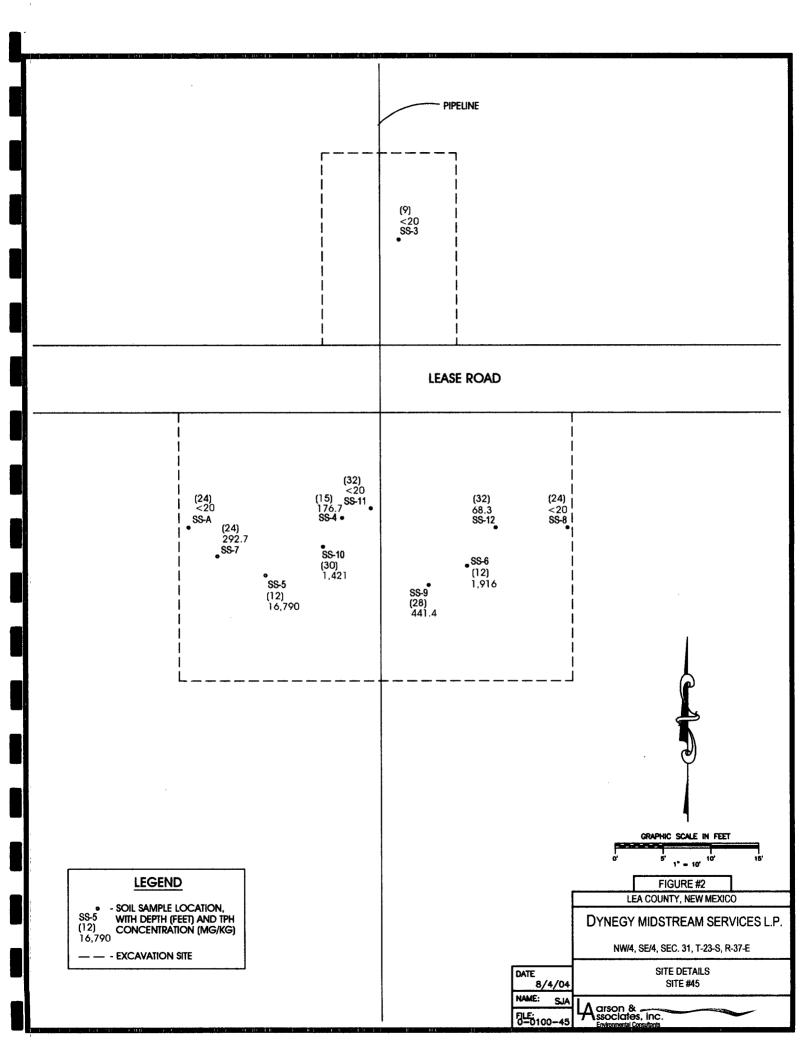
Sample depth in feet below ground surface 1. BGS:

Total petroleum hydrocarbons (Sum of DRO + GRO) 2. TPH: Total petroleum hydrocarb 3. mg/kg: Milligrams per kilogram 4. <. Below method detection li 5. PID: Photoionization detector 6. ppm: Parts per million 7. ---: No data available

Below method detection limit

FIGURES





APPENDIX B

LABORATORY DATA AND CHAIN-OF-CUSTODY DOCUMENTATION

ANALYTICAL REPORT

Prepared for:

JOHN STEWART
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project:

Dynegy/#45

PO#:

Order#:

G0306683

Report Date:

06/11/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

915-687-0456

Order#:

G0306683

Project:

0-0100-45

Project Name: Dynegy/#45

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.

<u>Lab ID:</u> 0306683-01 <u>La</u>	Sample: SS-3 The Testing: 8015M 8021B/5030 BTEX Chloride	Matrix: SOIL Rejected:	No	Date / Time <u>Collected</u> 6/6/03 10:00		Received 6/6/03 18:10 0.0 C	Container 4 oz glass	Preservative Ice
0306683-02	SS-4	SOIL		6/6/03 14:45		6/6/03 18:10	4 oz glass	Ice
<u>La</u>	8015M 8021B/5030 BTEX Chloride	Rejected:	No	1	Гетр:	0.0 C		
0306683-03	SS-5	SOIL		6/6/03 14:47		6/6/03 18:10	4 oz glass	Ice
<u>La</u>	8015M 8021B/5030 BTEX Chloride	Rejected:	No		Гетр:	0.0 C		
0306683-04	SS-6	SOIL		6/6/03 14:49		6/6/03 18:10	4 oz glass	. Ice
<u>La</u>	8015M 8021B/5030 BTEX Chloride	Rejected:	No	•	Гетр:	0.0 C		

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306683

Project:

0-0100-45

Project Name:

Dynegy/#45

Location:

None Given

Lab ID:

0306683-01

Sample ID:

SS-3

8015M

Method Blank Date <u>Prepared</u> Date <u>Analyzed</u>

6/10/03

Sample <u>Amount</u> 1 Dilution <u>Factor</u>

1

<u>Analyst</u>

WL

Method

8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	<10.0	10.0
TOTAL, C6-C35	<10.0	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	100%	70	130
1-Chlorooctadecane	70%	70	130

8021B/5030 BTEX

Method <u>Blank</u> 0005773-02 Date <u>Prepared</u> Date Analyzed 6/9/03

10:15

Sample
Amount

Dilution Factor 25

Analyst RKT

Method 8021B

Parameter	Result mg/kg	RL
Benzene	0.068	0.0250
Toluene	0.053	0.0250
Ethylbenzene	< 0.0250	0.0250
p/m-Xylene	0.043	0.0250
o-Xylene	< 0.0250	0.0250

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	92%	80	120
Bromofluorobenzene	98%	80	120

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306683

Project:

0-0100-45

Project Name: Location:

Dynegy/#45 None Given

Lab ID:

0306683-02

Sample ID:

SS-4

8015M

Method Blank Date Prepared Date Analyzed 6/10/03 Sample <u>Amount</u> 1 Dilution Factor

Analyst

WL

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 17.7
 10.0

 DRO, >C12-C35
 159
 10.0

 TOTAL, C6-C35
 177
 10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	93%	70	130
1-Chlorooctadecane	75%	70	130

8021B/5030 BTEX

Method Blank 0005773-02 Date <u>Prepared</u> Date
<u>Analyzed</u>
6/9/03

10:37

Sample <u>Amount</u> 1 Dilution Factor 25

Analyst RKT

Method 8021B

Result RL **Parameter** mg/kg 0.0250 Benzene < 0.0250 0.0250 Toluene 0.026 Ethylbenzene 0.045 0.0250 0.098 0.0250 p/m-Xylene 0.038 0.0250 o-Xylene

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	90%	80	120
Bromofluorobenzene	111%	80	120

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306683

Project:

0-0100-45

Project Name:

Dynegy/#45

Location:

None Given

Lab ID:

0306683-03

Sample ID:

SS-5

8015M

Method Blank

Date **Prepared**

Date **Analyzed**

Sample **Amount** 1

Dilution **Factor**

5

Method 8015M

6/10/03

Analyst \mathbf{WL}

Parameter	Result mg/kg	RL
GRO, C6-C12	7820	50.0
DRO, >C12-C35	8970	50.0
TOTAL, C6-C35	16790	50.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	25%	70	130
1-Chlorooctadecane	20%	70	130

8021B/5030 BTEX

Method Blank 0005773-02

Date Prepared

Date Analyzed 6/9/03

10:59

Sample Amount 1

Dilution **Factor** 100

Analyst RKT

Method 8021B

Result RL**Parameter** mg/kg 0.10 Benzene 16.5 0.10 Toluene 82.1 0.10 Ethylbenzene 64.4 0.10 110 p/m-Xylene 44.7 0.10 o-Xylene

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	1200%	80	120
Bromofluorobenzene	160%	80	120

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306683

Project:

0-0100-45

Project Name: Location: Dynegy/ #45 None Given

Lab ID:

0306683-04

Sample ID:

SS-6

8015M

Method Blank Date <u>Prepared</u> Date <u>Analyzed</u>

6/10/03

Sample <u>Amount</u> 1

Dilution <u>Factor</u> 1

Analyst WL

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 406
 10.0

 DRO, >C12-C35
 1,510
 10.0

 TOTAL, C6-C35
 1,916
 10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	123%	70	130
1-Chlorooctadecane	104%	70	130

8021B/5030 BTEX

Method	Date	
Blank	Prepared	4
0005773-02		

Date
Analyzed
6/9/03

11:22

Sample Amount Dilution Factor 25

Analyst RKT

Method 8021B

Parameter	Result mg/kg	RL
Benzene	< 0.0250	0.0250
Toluene	0.110	0.0250
Ethylbenzene	0.471	0.0250
p/m-Xylene	1.27	0.0250
o-Xylene	0.563	0.0250

Surrogates	% Recovered	QC Limits (%)				
aaa-Toluene	98%	80	120			
Bromofluorobenzene	119%	80	120			

Approval:

Raland K. Tuttle, Lab Director, QA Officer

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

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

Page 4 of 4

ANALYTICAL REPORT

JOHN STEWART Order#: G0306683 LARSON AND ASSOCIATES, INC. 0-0100-45 Project: P.O. BOX 50685 Project Name: Dynegy/#45 MIDLAND, TX 79710 Location: None Given 0306683-01 Lab ID: Sample ID: SS-3 **Test Parameters** Dilution Date Parameter <u>RL</u> Result Units **Factor** Method Analyzed <u>Analyst</u> 70.9 1 20 9253 6/9/03 SM Chloride mg/kg Lab ID: 0306683-02 Sample ID: SS-4 **Test Parameters** Dilution Date Parameter Result Units **Factor** <u>RL</u> Method Analyzed <u>Analyst</u> 1 Chloride 106 mg/kg 20 9253 6/9/03 SM Lab ID: 0306683-03 Sample ID: **SS-5 Test Parameters** Date Dilution Parameter Result Units **Factor** RLMethod Analyzed <u>Analyst</u> Chloride 425 mg/kg 1 20 9253 6/9/03 SM Lab ID: 0306683-04

Result

106

20 9253 6/9/03

Method

<u>RL</u>

Date

Analyzed

Analyst

SM

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.

Dilution

Factor

Units

mg/kg

Sample ID:

Parameter

Chloride

Test Parameters

SS-6

QUALITY CONTROL REPORT

8015M

BLANK	LANK SOIL		Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005785-02			<10.0		
CONTROL	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	- -	0005785-03		952	1016	106.7%	
CONTROL DI	J P SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005785-04		952	1035	108.7%	1.9%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg		0005785-05		1000	1114	111.4%	•

QUALITY CONTROL REPORT

8021B/5030 BTEX

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-02			< 0.025		
Гоluene-mg/kg		0005773-02			< 0.025		
Ethylbenzene-mg/kg		0005773-02			< 0.025		
o/m-Xylene-mg/kg		0005773-02			< 0.025		
o-Xylene-mg/kg		0005773-02			< 0.025		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.26	90.4%	
l'oluene-mg/kg		0306681-02	0	2.5	2.23	89.2%	
Ethylbenzene-mg/kg		0306681-02	0	2.5	2.27	90.8%	
o/m-Xylene-mg/kg		0306681-02	0	5	4.72	94.4%	
o-Xylene-mg/kg		0306681-02	0	2.5	2.24	89.6%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306681-02	0	2.5	2.34	93.6%	3.5%
Toluene-mg/kg		0306681-02	0	2.5	2.28	91.2%	2.2%
Ethylbenzene-mg/kg		0306681-02	0	2.5	2.36	94.4%	3.9%
p/m-Xylene-mg/kg	 	0306681-02	0	5	5.08	101.6%	7.3%
o-Xylene-mg/kg		0306681-02	0	2.5	2.37	94.8%	5.6%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0005773-05		0.1	.098	98.%	
l'oluene-mg/kg		0005773-05		0.1	0.094	94.%	
Ethylbenzene-mg/kg	•	0005773-05		0.1	0.091	91.%	
p/m-Xylene-mg/kg		0005773-05		0.2	0.188	94.%	
o-Xylene-mg/kg		0005773-05		0.1	0.089	89.%	

QUALITY CONTROL REPORT

Test Parameters

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-01			<20		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-02		5000	5140	102.8%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-03		5000	5052	101.%	1.7%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005774-04		5000	4786	95.7%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC.

Order#:

G0306683

P.O. BOX 50685

Project:

Dynegy/#45

MIDLAND, TX 79710

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-3	0306683-01	SOIL	06/06/2003	06/06/2003
SS-4	0306683-02	SOIL	06/06/2003	06/06/2003
SS-5	0306683-03	SOIL	06/06/2003	06/06/2003
SS-6	0306683-04	SOIL	06/06/2003	06/06/2003

Surrogate recoveries on BTEX are outside control limits due to matrix interference. (0306683-03)

Surrogate recoveries on 8015M TPH are outside of control limits due to dilution (G0306683-03).

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

Environmental Lab of Texas I, Ltd

Date

andy 432-556-8665

CHAIN—OF—CUSTODY RECORD	A arson & Sociates, Inc. Fax: 915-687-0456	915-687-0901 507 N. Marienfeld, Ste. 202 • Midland, TX 79701	LAB. I.D. REMARKS NUMBER (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB USE ONLY) GRAB COMPOSITE)	03046830	70	87	₩							RECEIVED BY: (Signature) TIME:	SAMPLE SHIPPED BY: (Circle)	BUS AI	WHITE - RECEIVING LAB WELLOW PECCHANICAL AD 170 DE DETI IDNIED TO			SAMPLE TYPE:
PARAMETERS/METHOD NUMBER	2 ST CS	2/03/21/28	0 838MNN	7			7							DATE: TIME:	BY: (Signature) DATE:	TIME:	AROUND TIME NEEDED	RECEIVED BY: (Signature)	1810 1810	LA CONTACT PERSON:
SITE MANAGER:	PROJECT NAME:		SAMPLE IDENTIFICATION	55-3	55-4	35-8	86							DATE: 6/6 RELINQUISHED BY: (Signature)	6/6 RECEIVED	TIME: 6,08		Late of TX	ZIP:	
CLIENT NAME:	*;	0-0/00-15 PAGE OF LA	1105 SELVAN	[0,00]	2	0, 2,47	4 2.89 1	`						SAMPLED BY: (Signature)	RELUXIQUISHED BY: (Signature)	John / This	COMMENTS O.O.C	RECEIVING LABORATORY: FNVIVONMENTAL	CITY:	SAMPLE CONDITION WHEN RECEIVED:

ANALYTICAL REPORT

Prepared for:

CINDY CRAIN
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project:

Dynegy/Site #45

PO#:

Order#:

G0306718

Report Date:

06/16/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

915-687-0456

Order#:

G0306718

Project:

0-0100-45

Project Name: Dynegy/Site #45

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.

<u>Lab ID:</u> 0306718-01	Sample:	<u>Matrix:</u> SOIL		Date / Time Collected 6/12/03	Date / Time Received 6/13/03	Container 4 oz glass	Preservative Ice
0500710 01				13:30	8:10		
<u>La</u>	b Testing:	Rejected:	No	Ter	np: 6.0 C		
	8015M						
· ·	Chloride						
0306718-02	SS-8	SOIL		6/12/03	6/13/03	4 oz glass	Ice
				13:40	8:10		
<u>La</u>	b Testing:	Rejected:	No	Ter	np: 6.0 C		
	8015M						
<u></u>	Chloride						
0306718-03	SS-9	SOIL		6/12/03	6/13/03	4 oz glass	Ice
				13:50	8:10		
<u>La</u>	b Testing:	Rejected:	No	Ter	np: 6.0 C		
	8015M						
	Chloride						
0306718-04	SS-10	SOIL		6/12/03 14:00	6/13/03 8:10	4 oz glass	Ice
<u>La</u>	b Testing:	Rejected:	No	Tei	np: 6.0 C		
	8015M						
	Chloride						

ANALYTICAL REPORT

CINDY CRAIN

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306718

Project:

0-0100-45

Project Name:

Dynegy/Site #45

Location:

None Given

Lab ID:

0306718-01

Sample ID:

SS-7

8015M

Method Blank Date Prepared Date
Analyzed
6/13/03

Sample <u>Amount</u> 1 Dilution Factor

1

Analyst

WL

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 11.7
 10.0

 DRO, >C12-C35
 281
 10.0

 TOTAL, C6-C35
 293
 10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	103%	70	130
1-Chlorooctadecane	125%	70	130

Lab ID:

0306718-02

Sample ID:

SS-8

8015M

Method Blank Date <u>Prepared</u> Date Analyzed 6/13/03 Sample Amount 1

Dilution <u>Factor</u> 1

Analyst

 \mathbf{WL}

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 <10.0</td>
 10.0

 DRO, >C12-C35
 <10.0</td>
 10.0

 TOTAL, C6-C35
 <10.0</td>
 10.0

Surrogates	% Recovered	QC Limits (%)				
1-Chlorooctane	115%	70	130			
1-Chlorooctadecane	128%	70	130			

ANALYTICAL REPORT

CINDY CRAIN

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306718

Project:

0-0100-45

Project Name: Location:

Dynegy/Site #45 None Given

Lab ID:

0306718-03

Sample ID:

SS-9

8015M

Method Blank

Date Prepared

Date Analyzed

Sample **Amount** Dilution **Factor**

Analyst Method WL

6/13/03

1

1

8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	87.4	10.0
DRO, >C12-C35	354	10.0
TOTAL, C6-C35	441	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	124%	70	130
1-Chlorooctadecane	147%	70	130

Lab ID:

0306718-04

Sample ID:

SS-10

8015M

Method

Date

Date

Sample

Dilution

Method

Blank

Prepared

Analyzed 6/13/03

Amount 1

Factor 1

Analyst WL8015M

Result RL **Parameter** mg/kg GRO, C6-C12 141 10.0 DRO, >C12-C35 10.0 1,280 TOTAL, C6-C35 1,421 10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	124%	70	130
1-Chlorooctadecane	171%	70	130

Kaland K John 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.

Page 2 of 2

Date

ANALYTICAL REPORT

CINDY CRAIN

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306718

Project:

0-0100-45

Project Name: Location:

Dynegy/Site #45 None Given

Lab ID:

0306718-01

Sample ID:

SS-7

Test Parameters

Parameter

Result 70.9

Units mg/kg

Dilution **Factor**

1

RL 20

Method 9253

Date Analyzed 6/13/03

<u>Analyst</u> SB

Lab ID:

0306718-02

Sample ID:

Chloride

SS-8

Test Parameters

<u>Parameter</u> Chloride

Result 248

Units mg/kg

Dilution **Factor**

<u>RL</u> 20

Method 9253

Date Analyzed 6/13/03

<u>Analyst</u> SB

Lab ID:

0306718-03

Sample ID:

SS-9

Test Parameters

Parameter Chloride

Result 124

Units mg/kg

Dilution Factor 1

RL20

Method 9253

Date Analyzed **Analyst** 6/13/03 SB

Lab ID:

0306718-04

Sample ID:

SS-10

Test Parameters

Parameter Chloride

Result 53.2

Units mg/kg

Dilution **Factor** 1

<u>RL</u>

20

Method 9253

Date Analyzed

Analyst 6/13/03 SB

Approval: Roland 1

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.

Date

Page 1 of 1

QUALITY CONTROL REPORT

8015M

BLANK SOIL	LAB-ID#	Şample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-02			<10.0		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-03	T Mile Market Control	952	1053	110.6%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-04		952	1028	108.%	2.4%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005818-05		1000	1225	122.5%	

QUALITY CONTROL REPORT

Test Parameters

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	,	0005817-01			<20.0		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306716-01	0	500	496	99.2%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg		0306716-01	0	500	514	102.8%	3.6%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	1	0005817-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306718

Project:

Dynegy/Site #45

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-7	0306718-01	SOIL	06/12/2003	06/13/2003
SS-8	0306718-02	SOIL	06/12/2003	06/13/2003
SS-9	0306718-03	SOIL	06/12/2003	06/13/2003
SS-10	0306718-04	SOIL	06/12/2003	06/13/2003

Surrogate recoveries on 8015M TPH are outside control limits due to matrix interference (G0306718-03, 04)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Date: (0-16-0.3)

CLIENT NAME:	VAME:		4 4 4 4 7		SITE MANAGER:		DAPAMETEP ⁴	DAPAMETERS/METHOD NIJMBER	 	CHAIN-OF-CUSTODY RECORD	CORD
	Rosen				Circle Cais	1			\vdash		
7	Jane 1					 IKS			N arsc	H	i i i i i i i i i i i i i i i i i i i
PROJECT NO.	11 NO.:	1/7	۱,0		17.7 # 472	3MIATI	ws		SSOC	SSOCIATES, INC. Fax: 915-687-0456 Environmental Consultants 915-687-0901	56
PAGE	2 2 P	,		LAB. PO#	#Q	100 H	ZG! 108		507 N. Mc	507 N. Marienfeld, Ste. 202 • Midland, TX 79701	79701
₹10°C	1	437pm	1105	93/410	SAMPLE IDENTIFICATION	ANWBEK C	997 Hell		LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, CRAB COMPOSITE)	paragona ja "Polinda
10	1330		4		55.7	-	7				
4			7		55-8	_	7				e nedecisco
3	1350		7		55-9	_	7				
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SAMPL	SAMPLEO BY: (Signature)	parture)	- 7		DATE: 4/2/18 RELINQUISHE	HED BY: (Signature)	gnature)	DATE: TIME:	RECEIVED BY: (Signature)	gnature) DAIE:	Maria de la compansión de
RECENT	RELINQUISMED BY: (Signature)	(Signal	(jure)		101/3/03/RECEIVED I	3Y: 15'gng/ure)	ire) In Man	DATE(0/13/	AAMPLE SHIPPED BY: (Circle)	J BY: (Circle)	
	1				TIME: 0805	3, 1,	racion	TIME:	C FEDEX	BUS AI	1/40340
TWO J	COMMENTS						TURN	TURNAROUND TIME NEEDED	HAND DELIVERED		
)								WHITE - RECE	- Receiving Lab - Receiving Lab (TO Be Retti (RNE) To	s en toakeye
RECEIV	RECEIVING LABORATORY:	ATORY:			2	RECEIVED	RECEIVED BY: (Signature)			LA AFTER RECEIPT)	
CITY:					STATE: ZIP: [DATE	TIME:	AE:		QA/QC COORDINATOR	
CONIACI:	ار: ار:									(0)	
SAMPLE	SAMPLE CONDITION WHEN RECEIVED	JEN RECE	IVED:			IA CON	LA CONTACT PERSON:	2.	SAMPLE TYPE:	(°,0°) 1.15	arear e estado
	Section of the Paris Contractor		100				7		0		o

ANALYTICAL REPORT

Prepared for:

JOHN STEWART
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project:

Dynegy/ Site #45

PO#:

Order#:

G0306930

Report Date:

07/11/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

LARSON AND ASSOCIATES, INC.

Order#:

G0306930

P.O. BOX 50685

Project:

MIDLAND, TX 79710

Project

Project Name: Dynegy/ Site #45

915-687-0456

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.

<u>Lab ID:</u>	Sample:	Matrix:	Date / Colle 7/9/	cted	Received 7/9/03	Container 4 oz glass	Preservative
0306930-01	55 11	JOIL	13:		17:03	T 02 61000	100
<u>La</u>	b Testing:	Rejected:	No	Temp	: 4.5 C		
	8015M	•					
	8021B/5030 BTEX						
0306930-02	SS-12	SOIL	7/9/	03	7/9/03	4 oz glass	Ice
			13:	10	17:03		
<u>La</u>	ib Testing:	Rejected:	No	Temp	: 4.5 C		
l	8015M						
	8021B/5030 BTEX						

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306930

Project:

Project Name:

Dynegy/ Site #45

Location:

None Given

Lab ID:

0306930-01

Sample ID:

SS-11

8015M

Method

Date

Date

Sample

Dilution

Method

Blank

Prepared

Analyzed 7/10/03

Amount 1

Factor 1

Analyst RKT

8015M

12:16

Result RL**Parameter** mg/kg GRO, C6-C12 <10 10.0 DRO, >C12-C35 10.0 <10 TOTAL, C6-C35 10.0 <10

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	117%	70	130
1-Chlorooctadecane	114%	70	130

8021B/5030 BTEX

Method Blank 0006142-02

Date Prepared

Date Analyzed 7/10/03 16:38

Sample **Amount** 1

Dilution Factor 25

Analyst CK

Method 8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	<0.025	0.025
Ethylbenzene	<0.025	0.025
p/m-Xylene	<0.025	0.025
o-Xylene	<0.025	0.025

Surrogates	% Recovered	QC Li	mits (%)
aaa-Toluene	103%	80	120
Bromofluorobenzene	93%	80	120

ANALYTICAL REPORT

JOHN STEWART

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306930

Project:

Project Name:

Dynegy/ Site #45

Location:

None Given

Lab ID:

0306930-02

Sample ID:

SS-12

8015M

Method Blank

Date **Prepared**

Date Analyzed

Sample

Amount

1

Dilution **Factor**

1

Analyst

RKT

Method 8015M

7/10/03 12:16

Parameter	Result mg/kg	RL
GRO, C6-C12	<10	10.0
DRO, >C12-C35	68.3	10.0
TOTAL, C6-C35	68.3	10.0

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	112%	70	130	
1-Chlorooctadecane	107%	70	130	

8021B/5030 BTEX

Method <u>Blank</u>	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	<u>Analyst</u>	Method
0006142-02		7/10/03	1	25	CK	8021B
		17:26				

Parameter	Result mg/kg	RL	
Benzene	<0.025	0.025	
Toluene	<0.025	0.025	
Ethylbenzene	<0.025	0.025	
p/m-Xylene	<0.025	0.025	
o-Xylene	<0.025	0.025	

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	100%	80	120
Bromofluorobenzene	87%	80	120

Approval:

7-11-03

Date

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.

Page 2 of 2

QUALITY CONTROL REPORT

8015M

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-02			<10.0		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-03		952	1,220	128.4%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-04		952	1,220	128.6%	0.2%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0006140-05		1,000	1,090	109.4%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306930

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0006142-02			< 0.0250		
Toluene-mg/kg	· · · · · · · · · · · · · · · · · · ·	0006142-02			<0.0250		
Ethylbenzene-mg/kg		0006142-02			<0.0250		
p/m-Xylene-mg/kg		0006142-02			<0.0250		
o-Xylene-mg/kg		0006142-02			<0.0250		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306942-12	0	0.10	0.109	109.%	
Toluene-mg/kg		0306942-12	0	0.10	0.115	115.%	
Ethylbenzene-mg/kg		0306942-12	0	0.10	0.116	116.%	
p/m-Xylene-mg/kg		0306942-12	0	0.20	0.240	120.%	
o-Xylene-mg/kg		0306942-12	0	0.10	0.117	117.%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0306942-12	0	0.10	0.105	105.%	3.7%
Toluene-mg/kg		0306942-12	0	0.10	0.112	112.%	2.6%
Ethylbenzene-mg/kg		0306942-12	0	0.10	0.117	117.%	0.9%
p/m-Xylene-mg/kg	Jan. 11, 1	0306942-12	0	0.20	0.237	118.5%	1.3%

Sample

Concentr.

0306942-12

LAB-ID#

0006142-05

0006142-05

0006142-05

0006142-05

0006142-05

SOIL

o-Xylene-mg/kg

Benzene-mg/kg

Toluene-mg/kg

Ethylbenzene-mg/kg

p/m-Xylene-mg/kg

-Xylene-mg/kg

SRM

0.113

QC Test

Result

0.110

0.114

0.111

0.233

0.117

0.10

Spike

Concentr.

0.10

0.10

0.10

0.20

0.10

113.%

Pct (%)

Recovery

110.%

114.%

111.%

116.5%

117.%

3.5%

RPD

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

LARSON AND ASSOCIATES, INC.

P.O. BOX 50685

MIDLAND, TX 79710

Order#:

G0306930

Project:

Dynegy/ Site #45

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

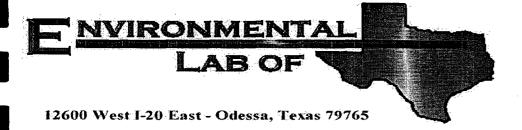
SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
SS-11	0306930-01	SOIL	07/09/2003	07/09/2003
SS-12	0306930-02	SOIL	07/09/2003	07/09/2003

Surrogate recoveries on the 8021B BTEX are outside control limits due to matrix interference. (0306930-01)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By: Roland K June Date: 7-//-03

SAMPLE DENTIFICATION SOURCE DENTIFICATION SSS-1 (LAB USE ONLY) SSS-1 COSCINEDATE COSCINEDA
DATE: 79 RELINQUISHED BY: (Signature) DATE: RECEIVED BY: (Signature)
RECEIVED BY: (Signature) RECEIVED BY: (Signature) TURNAROUND TIME (1203 FEDEX 1708)
RECEIVING LABORATORY: ENLINE ALCENING LAB (FIGURE) ADDRESS: STATE: STATE: DATE: DATE: WHITE - RECEIVING LAB YELLOW - RECEIVING LAB TELOW - RECEIVING LAB TO LA FIER RECEIPT) BINK - PROJECT MANAGER GOLD - QA/QC COORDINATOR
SAMPLE TYPE: SAMPLE TYPE: SAMPLE TYPE:



Analytical Report

Prepared for:

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

Project: Dynegy Site #45
Project Number: 0-0100-45
Location: None Given

Lab Order Number: 4A29004

Report Date: 01/31/04

Larson & Associates, Inc. P.O. Box 50685

Project: Dynegy Site #45
Project Number: 0-0100-45

(432) 687-0456 Reported: 01/31/04 06:12

Larson & Associates, Inc.

Project Manager: Cindy Crain

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
SS-A	4A29004-01	Soil	01/29/04 08:45	01/29/04 16:00
Spoil	4A29004-02	Soil	01/29/04 08:50	01/29/04 16:00

Larson & Associates, Inc. P.O. Box 50685 Larson & Associates, Inc.

Project: Dynegy Site #45
Project Number: 0-0100-45

Project Number: 0-0100-45
Project Manager: Cindy Crain

(432) 687-0456 Reported: 01/31/04 06:12

Organics by GC Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-A (4A29004-01) Soil Sampled: 01/2	29/04 08:45 R	eceived: 01/2	29/04 16:00				···		
Gasoline Range Organics C6-C12	ND	10.0	mg/kg dry	1	EA42810	01/29/04	01/30/04	EPA 8015M	
Diesel Range Organics >C12-C35	22.8	10.0	11	**	Ħ	ŧ	Ħ	n	
Total Hydrocarbon C6-C35	22.8	10.0	"	n	n	**	11	и	
Surrogate: 1-Chlorooctane		93.2 %	70-13	0	"	"		"	
Surrogate: 1-Chlorooctadecane		115 %	70-13	0	n	"	"	n	
Spoil (4A29004-02) Soil Sampled: 01/	29/04 08:50 R	eceived: 01/2	29/04 16:00						
Gasoline Range Organics C6-C12	J [8.44]	10.0	mg/kg dry	1	EA42810	01/29/04	01/30/04	EPA 8015M	J
Diesel Range Organics >C12-C35	25.6	10.0	и	#	W.	U	97	n	
Total Hydrocarbon C6-C35	25.6	10.0	11	tı	n	ŧr	Ħ	II .	
Surrogate: 1-Chlorooctane		91.8 %	70-13	0	-11	"		"	
Surrogate: 1-Chlorooctadecane		109 %	70-13	0	"	"	"	"	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Ouality Assurance Review

Page 2 of 6

Larson & Associates, Inc.

Project: Dynegy Site #45

(432) 687-0456

P.O. Box 50685 Larson & Associates, Inc. Project Number: 0-0100-45
Project Manager: Cindy Crain

Reported: 01/31/04 06:12

General Chemistry Parameters by EPA / Standard Methods Environmental Lab of Texas

Analyte	Result	Reporting Limit	Units	Dilution	Batch	Prepared	Analyzed	Method	Notes
SS-A (4A29004-01) Soil	Sampled: 01/29/04 08:45 R	eceived: 01/2	9/04 16:0	0					
Chloride	170	20.0	mg/kg	2	EA43015	01/29/04	01/30/04	SW 846 9253	
% Solids	94.0		%	1	EA43004	01/30/04	01/30/04	% calculation	
Spoil (4A29004-02) Soil	Sampled: 01/29/04 08:50 R	eceived: 01/2	9/04 16:0	0					
Chloride	149	20.0	mg/kg	2	EA43015	01/29/04	01/30/04	SW 846 9253	
% Solids	95.0		%	1	EA43004	01/30/04	01/30/04	% calculation	

Environmental Lab of Texas

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Quality Assurance Review

Page 3 of 6

Larson & Associates, Inc. P.O. Box 50685

Project: Dynegy Site #45
Project Number: 0-0100-45

(432) 687-0456 Reported: 01/31/04 06:12

Larson & Associates, Inc.

Project Manager: Cindy Crain

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 EA42810 - 1005 TX										
Blank (EA42810-BLK1)				Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	ND	10.0	mg/kg wet							
Diesel Range Organics >C12-C35	ND	10.0	11							
Total Hydrocarbon C6-C35	ND	10.0	n							
Surrogate: 1-Chlorooctane	35.6		mg/kg	50.0		71.2	70-130			
Surrogate: 1-Chlorooctadecane	35.9		"	50.0		71.8	70-130			
LCS (EA42810-BS1)				Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	395	10.0	mg/kg wet	500		79.0	75-125			
Diesel Range Organics >C12-C35	427	10.0	Ħ	500		85.4	75-125			
Total Hydrocarbon C6-C35	822	10.0	11	1000		82.2	75-125			
Surrogate: I-Chlorooctane	36.2		mg/kg	50.0		72.4	70-130			
Surrogate: 1-Chlorooctadecane	37.4		"	50.0		74.8	70-130			
Calibration Check (EA42810-CCV1)				Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	509		mg/kg	500		102	80-120			
Diesel Range Organics >C12-C35	509		Ħ	500		102	80-120			
Total Hydrocarbon C6-C35	1010		**	1000		101	80-120			
Surrogate: 1-Chlorooctane	62.1		"	50.0		124	70-130			
Surrogate: 1-Chlorooctadecane	64.4		"	50.0		129	<i>70-130</i>			
Matrix Spike (EA42810-MS1)	So	urce: 4A280	15-01	Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	551	10.0	mg/kg dry	526	ND	105	75-125	-		
Diesel Range Organics >C12-C35	556	10.0	Ħ	526	49.8	96.2	75-125			
Total Hydrocarbon C6-C35	1110	10.0	**	1050	49.8	101	75-125			
Surrogate: 1-Chlorooctane	<i>57.1</i>		mg/kg	50.0		114	70-130			
Surrogate: 1-Chlorooctadecane	53.0		"	50.0		106	70-130			
Matrix Spike Dup (EA42810-MSD1)	So	ource: 4A280	15-01	Prepared	& Analyz	ed: 01/29/	04			
Gasoline Range Organics C6-C12	567	10.0	mg/kg dry	526	ND	108	75-125	2.86	20	· · · · · · · · · · · · · · · · · · ·
Diesel Range Organics >C12-C35	546	10.0	11	526	49.8	94.3	75-125	1.81	20	
Total Hydrocarbon C6-C35	1110	10.0	"	1050	49.8	101	75-125	0.00	20	
Surrogate: 1-Chlorooctane	56.5		mg/kg	50.0		113	70-130		-	
Surrogate: 1-Chlorooctadecane	<i>54.1</i>		"	50.0		108	70-130			

Environmental Lab of Texas

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Quality Assurance Review

Larson & Associates, Inc. P.O. Box 50685 Larson & Associates, Inc.

Project: Dynegy Site #45

(432) 687-0456

Project Number: 0-0100-45 Project Manager: Cindy Crain

Reported: 01/31/04 06:12

General Chemistry Parameters by EPA / Standard Methods - Quality Control **Environmental Lab of Texas**

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
Batch EA43004 - % Moisture										
Blank (EA43004-BLK1)				Prepared of	& Analyz	ed: 01/30/	04			
% Solids	100		%							
Duplicate (EA43004-DUP1)	So	urce: 4A2801	15-01	Prepared	& Analyz	ed: 01/30/	04			
% Solids	95.0		%		95.0			0.00	20	
Batch EA43015 - Water Extraction										
Blank (EA43015-BLK1)			•	Prepared:	01/27/04	Analyzed	1: 01/30/04			
Chloride	ND	20.0	mg/kg							************
Calibration Check (EA43015-CCV1)				Prepared	& Analyz	ed: 01/30/	04			
Chloride	4940		mg/kg	5000		98.8	80-120			
Matrix Spike (EA43015-MS1)	So	urce: 4A270	06-01	Prepared:	01/27/04	Analyzed	1: 01/30/04			
Chloride	691	20.0	mg/kg	500	223	93.6	80-120			
Matrix Spike Dup (EA43015-MSD1)	So	urce: 4A270	06-01	Prepared:	01/27/04	Analyzed	i: 01/30/04			
Chloride	702	20.0	mg/kg	500	223	95.8	80-120	1.58	20	

Environmental Lab of Texas

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.



Larson & Associates, Inc. P.O. Box 50685

Project: Dynegy Site #45 Project Number: 0-0100-45

(432) 687-0456 Reported:

Larson & Associates, Inc.

Project Manager: Cindy Crain

Notes and Definitions

01/31/04 06:12

Detected but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).

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 chain of custody document. This analytical report must be reproduced in its entirety.

Page 6 of 6

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

Client: Larson + Ass oc.				
Date/Time: 01 - 29-04 @ 1600				
Order #: 4 A 29004				·
Initials: JMM				
Sample Receipt	t Chackli	ict		
Temperature of container/cooler?	(Yes	No	4.0 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?	¥25	No		
Sample bottles intact?	Yes	No	·····	
Preservations documented on Chain of Custody?	(res)	No		
Containers documented on Chain of Custody?	Yes	No		
Sufficient sample amount for indicated test?	Yes	No		
All samples received within sufficient hold time? VOC samples have zero headspace?	CYes (Yes	No No	Not Applicable	
Other observations:				
Contact Person: Date/Time: Regarding:				
Corrective Action Taken:				

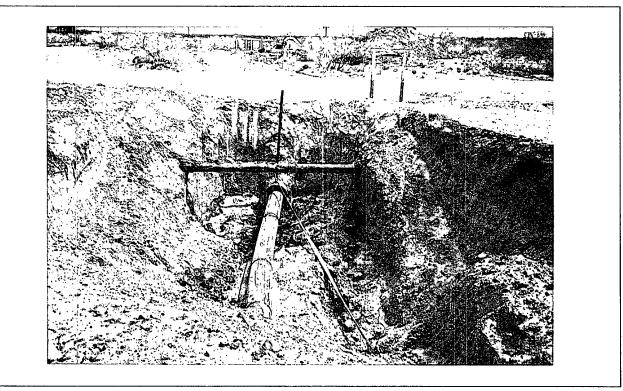
٠,

PROJECT NO.: O. O. 100 - 45 PROJECT NAME.: O. O. 100 - 45 Sife #4 Sife	Cia Si	PA SONSMERS	In		+	
TOS STAND ST	S) z				•	Constitution of the last of th
ASTAM ASTAM	z				SSOCI Environm	A Grson & Sasciates, Inc. Fax: 432-687-0456 Environmental Consultants 432-687-0901
*37410 1105 \ \(\) \(\	z				507 N. Mar	507 N. Marienfeld, Ste. 202 • Midland, TX 79701
77			112		LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (i.e., Filtered, Unfiltered, Preserved, Undreserved, Grab Composite)
7		\ \ \ \			9-400bz 4th	
		7			70- 1	
_						
SAMPLED BY: (Signature) TIME: 08.	RELINQUISHED	BY: (Signature)		DATE: TIME:	RECEIVED BY: (Signature)	rature) DATE:
	RECEIVED BY: (Signature)	signature)		DATE:	SAMPLE SHIPPED BY: (Circle)	3Y: (Circle)
JANE TIME 1600	.0			TIME:	FEDEX	BUS AI
COMMÉNTS:	•		TURNAROUND TIME NEEDED	TIME NEEDED	WHITE - RECEIVING LAB	LIVERED S OFFICE CONTREKE CONT
RECEIVING LABORATORY: KNUTVONMENTAL ADDRESS: CITY: STATE: STATE:	ZIP. CON DA	RECEIVED BY: (Signature)	ure) A TIME: 16	ospos	PINK - PROJECT - CALOR - PROJECT - DROJECT - DA/QC	- RECEIVING LAB II.O BE RELORIVED LO LA AFTER RECEIPT) - PROJECT MANAGER - QA/QC COORDINATOR
/ED:	201 Co	LA CONTACT PERSON:	NO.		SAMPLE TYPE:	
しゅつ		2:2	CIB		7	9;/

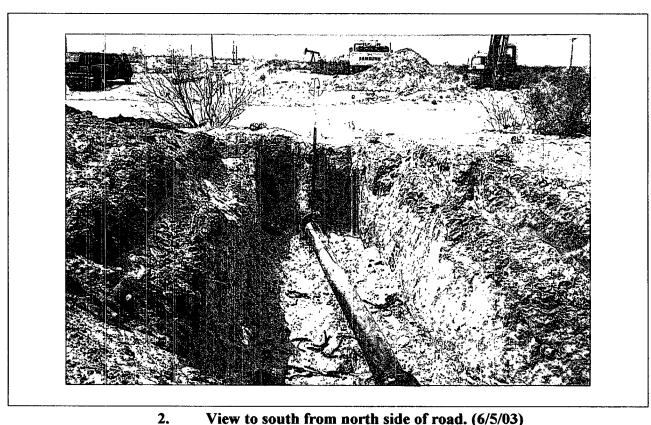
APPENDIX C

PHOTOGRAPHS

DYNEGY MIDSTREAM SERVICES, L.P. SITE #45, NE/4, SW/4, SEC. 31, T23S, R37E, LEA CO., NM **PHOTOGRAPHS**

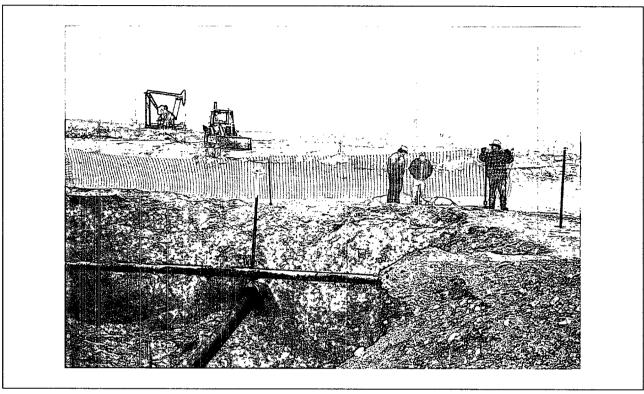


1. View to north from south side of road. (6/5/03)

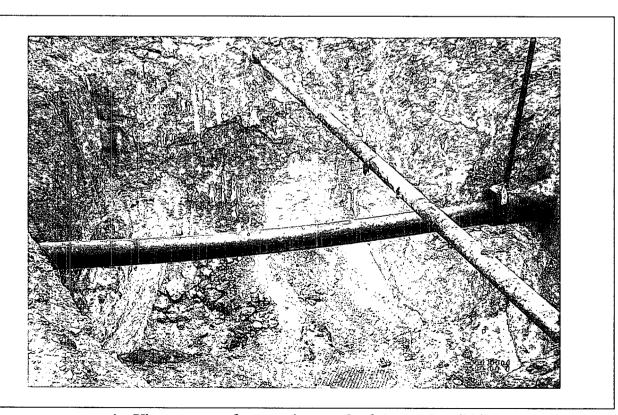


View to south from north side of road. (6/5/03)

DYNEGY MIDSTREAM SERVICES, L.P. SITE #45, NE/4, SW/4, SEC. 31, T23S, R37E, LEA CO., NM PHOTOGRAPHS



3. View to north from south side of road. (1/28/04)



4. View to west of excavation south of the road. (1/28/04)

APPENDIX A

RELEASE NOTIFICATION AND CORRECTIVE ACTION FORM (C-141)

'Actalie W/ Hoseret Emissonmental

	Not found	Sulldance o Fed #3	
	Not found	Sindance 8 Fed #3	
	Not found	West Marland North Lease	
	Not found	Edwards 10 State #1	
	30-015-32941	Palladium 7-6	
	Not found	Lee Stebblings #5	
Yes	30-015-33451	Patton 18 Federal #3	
	Not found	Neverready #3	
	Not found	Triple X 6 State #1	
	Not found	Edwards 22 State #3	
	Not found	Edwards 22 State #2	
	Not found	Winter 20 #7	
	Not found	WA Ramsey Federal Com #1	
	30-015-32617	Harroun 10-3	
	30-015-31709	Harroun 10-2	
Yes	30-015-33317	Harroun 15-15	
	Not found	Resier B #1	
	Not found	Resier A #1	
	Not found	Resier B #3	
	Not found	JR Holt NCT "A" 6Y	
Yes	30-015-33822	Harroun 15-17	
	30-015-33318	Harroun 15-16	
Yes	30-015-33820	H. Buck State #3	
	30-015-28389	Riverbend #2	
Yes	30-015-32620	Harroun 15-14	
Yes	30-015-32618	Harroun 10-4	
	30-015-33973	Lakewood 14 #2	
	30-015-34695	H. Buck #10	
	30-025-36593	Foxglove 29 Fed #1	
Yes	30-015-33574	Lakewood 15 #1	
Yes	30-015-33709	Sundance Fed #29	
	Not found	Sundance Fed #30	
	Not found	Sundance Fed #31	Arch/Pogo
C-144 Filed 1/N	API#	Well Name	Company

		- Cocinoro Ctoto CX #1	
		Sender State 6 #1	
		NW Crain A-7	
		N-7	
		Flounder State 39 #1	
		Goldfish 17 #1	BP America
		Rawhide 29	
		State BD #4	
		MesaVerde 15 Federal #1	
		Pubco Federal #2	
		Maverick 14 Federal #1	
		Pineshprings 2 State #1	Samson Resources
		HS Turner #17	
Nead C-144 to San	30-025-37399	Cole State #17	
Weed C-144 to Stave	30-025-37400	Cole State #19	
Yes	30-025-37539	Brunson #6	
Yes	30-025-37355	New Mexico State #50	
Yes	30-025-37354	New Mexico State #51	
Yes	30-025-37147	Greenwood #22	
Yes	30-025-37148	Greenwood #23	
	30-025-37224	Greenwood #24	Range Operating New Mexico
That in KODINS	30-025-36514	William 14 Federal #1	Chesapeake Operating
*	30-015-30158	Patton 17 #12	
Yes	30-015-32435	Patton 17 #9	
	Not found	Edward 22 State #3	
	Not found	Edward 22 State #2	
Yes	30-015-33825	Patton 18 #6	
Yes	30-015-33598	Riverbend 23 #16	
Yes	30-015-33208	Riverbend 10 #1	
	Not found	Whitmire #11	
Yes	30-015-32466	State V 492 #2	
Yes	30-015-32435	Patton 18 Federal #1	
Yes	30-015-33732	Palledium 7 Federal #9	
Yes	30-015-33969	Palledium 7 #10	
Yes	30-015-33430	Seven Rivers 17 #1	
	30-015-33349	State W #7	

G.L. Beck #8 Horsetail Federal 9 #1

4 day work week schedule for Sharon, Donna and Pat 6:00am - 12:30pm and 1:00pm - 4:30pm

May Work Schedule 2006

	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	4/30/2006	5/1/2006	5/2/2006	5/3/2006	5/4/2006	5/5/2006	5/6/2006
Sharon	off	off	work	work	work	work	off
Donna	off	work	work	work	work	off	off
Pat	off	work	work	work	work	off	off
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	5/7/2006	5/8/2006	5/9/2006	5/10/2006	5/11/2006	5/12/2006	5/13/2006
Sharon	off	off	work	work	work	-* work	off
Donna	off	work	work	work	work	off	off
Pat	off	work !	work -	work	work	off	off
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	5/14/2006	5/15/2006	5/16/2006	5/17/2006	5/18/2006	5/19/2006	5/20/2006
Sharon	off	off	: work	work	∴ work 🐇	work	work
Donna	off	work	work	work	work	off	off
Pat	off	work	Work	work) show:	off	off
	Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
	5/21/2006	5/22/2006	5/23/2006	5/24/2006	5/25/2006	5/26/2006	5/27/2006
ु Sharon ⊹	off	off	work :	work 🚉	work	/ work	
Donna	off	work	work	work	work		
Pat	off	work:	worlk	work	work !		
	Sunday	Monday	Tuesday	,	,	Friday	Saturday
	5/28/2006	5/29/2006	5/30/2006	5/31/2006	6/1/2006	6/2/2006	6/3/2006
Sharon	off						
Donna	off						
Pat	off						

District I
1625 N. French Dr., Hobbs, NM 88240
District II
811 South First, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico Energy Minerals and Natural Resources

Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505 Form C-141 Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 1 l6 on back side of form

Release Notification and Corrective Action

OPERA	ATOR	Initial Re	port 🔀 Final Report			
Name: Dynegy Midstream Services, L. P.	Contact: Dave Harris					
Address: PO Box 1909 Eunice, NM 88231	Telephone No (505) 631-7069					
Facility Name: Eunice Plant Gathering System	Facility Type: Gas Plant Low Pressure Gathering Lines []					
C. C. O. W. H. M. D. W. H. LLC. 10						
Surface Owner: Kelly Meyer Deep Wells Mineral Owner	Lease No.□					
Ranch						
	OF RELEASE					
	South Line Feet from the	East/West Line	County□ Lea			
NW Q of 31 23S 37E						
the SE Q						
NATURE O	F RELEASE					
Type of Release Natural gas condensate	Volume of Release ??	Volun	ne Recovered none			
Source of Release Pipeline leak	Date and Hour of Occurrence	and Hour of Discovery				
•	6/7/03 4:30 PM same					
Was Immediate Notice Given?	If YES, To Whom?					
☐ Yes 🗵 No ☐ Not Required						
By Whom?	Date and Hour					
Was a Watercourse Reached?		If YES, Volume Impacting the Watercourse.				
	II 120, Totalio Inflavinio dio Transcomos.					
U Yes ▼ No						
If a Watercourse was Impacted, Describe Fully.*						
Describe Cause of Problem and Remedial Action Taken.* 10" Pipeline leak due to interior and exterior currosion. While line wa to leak. Dug up approximately 600 feet of line exposing some historic	s dug out for clamping leak o contamination.	ther contamina	ted soil was seen adjacent			
Describe Area Affected and Cleanup Action Taken.* Spots of stained soil along right of way. Will cleanup per NMOCD gu	idelines and submit documen	tation to district	office.			
Describe General Conditions Prevailing (Temperature, Precipitation Mid 90 degree daytime temperatures with dry conditions.	on, etc.)*					
I hereby certify that the information given above is true and complete to	OIL CONSERVATION DIVISION					
the best of my knowledge and belief.	OID OOMBDIC CITES OF THE STATE					
///////////////////////////////////////	1					
Signature: Whiteful	Approved by □ District Supe	ervisor:				
Printed Name:	Approved by□District Supe					
Printed Name: Cal Wrangham	Approved by□District Super		ation Date:			
Printed Name: Cal Wrangham Title: PS&H Advisor	Approval Date:					
Printed Name: Cal Wrangham Title: ES&H Advisor	· · · · · · · · · · · · · · · · · · ·		ation Date:			
Printed Name: Cal Wrangham Title: RS&H Advisor	Approval Date:					