1R - 447

REPORTS

DATE:

11/21/2003

Larson & Associates, Inc.
Environmental Consultants

November 21, 2003

Mr. Larry Johnson
New Mexico Oil Conservation Division – District I
1625 North French Drive
Hobbs, New Mexico 88240

Re: Pipeline Spill Investigation Report, Dynegy Midstream Services. L.P., Unit Letter C (NE/4, NW/4) Section 30, Township 21 South, Range 37 East, Lea County, New Mexico

Dear Mr. Johnson:

Dynegy Midstream Services, L. P. (Dynegy) has retained Larson and Associates, Inc. (LA) to investigate potential impacts to soil from a crude oil spill that occurred on March 28, 2001, from a gas pipeline located in the northeast quarter (NE/4) of the northwest quarter (NW/4), Section 30, Township 21 South, Range 37 East, Lea County, New Mexico. The spill occurred when crude oil entered the pipeline after separation equipment failed at a tank battery (Graham St. #1 – Ramsay Consolidated #1 Tank Battery) owned by Chevron U.S.A. The tank battery is located in the SW/4, SW/4, Section 19, Township 21 South, Range 37 Esat, approximately 750 feet northwest of the spill (Site #9). Approximately 80 to 90 barrels of crude oil was released, and all free liquid was picked up with a vacuum truck. Impacted soil was scraped to a few inches below ground surface (bgs), and piled on location. The spill area covered approximately 40 x 150 feet, and Dynegy submitted a Release Notification and Corrective Action form (Form C-141) to the New Mexico Oil Conservation Division (NMOCD) on March 29, 2001.

On May 17, 2001, LA submitted a Pipeline Spill Investigation Report to the NMOCD, detailing results of an initial investigation at Site #9. The report stated that impacted soil would be excavated to approximately two (2) feet below ground surface (bgs), and transported to an NMOCD-approved commercial landfarm for treatment. The work plan was approved by the NMOCD in a letter dated December 12, 2001. This report details the final investigation and remediation conducted at Site #9. Figure 1 presents a Site location and topographic map. Appendix A presents a copy of the Form C-141.

Current Investigation

On May 30, 2003, LA collected soil samples from the north and south ends of the excavation at a depth of approximately two (2) 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). 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.

Based on published literature (1961) and well records of the New Mexico State Engineer, groundwater occurs at approximately 100 to 102 feet below ground surface (bgs). No domestic water wells are located within 1,000 feet 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	**1000 mg/kg**

Referring to Table 1, the samples from both the north and south ends of the excavation showed concentrations of TPH above the RRAL (4,670 mg/kg and 2,260 mg/kg, respectively). On June 2, 2003, excavation continued at Site #9, initially focusing on the original spill location (shown on Figure 2), directly under the pipeline. On June 4, 2003, a soil sample (SS-1) was collected from the bottom of the excavation, at a depth of approximately nine (9) feet bgs. The soil sample was placed in a clean glass sample jar, labeled, chilled in an ice chest, and delivered under chain-of-custody control to ELOT, and analyzed for TPH by EPA method SW-846-8015, benzene, toluene, ethylbenzene and xylene (collectively referred to as BTEX) by EPA method SW-846-8021B, and chloride by EPA method SW-846-9253. A duplicate sample was collected for headspace analysis. The headspace jar was filled approximately ¾ full, and a layer of aluminum foil was placed over the opening of the jar before replacing the cap. The headspace sample was 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 jar (through the aluminum foil), and the concentration of organic vapors was displayed by the instrument in parts per million (ppm), and recorded in a bound field notebook. The PID was calibrated to 100.1 ppm isobutylene prior to obtaining headspace readings. Table 1 presents a summary of the laboratory results and PID reading. Figure 2 shows the sample location. Appendix B presents the laboratory results and chain-of-custody documentation. Appendix C presents photographs.

Referring to Table 1, benzene and total BTEX concentrations in soil sample SS-1, were below the RRAL (0.076 mg/kg and 1.519 mg/kg, respectively). The TPH concentration in sample SS-1 (9,652 mg/kg) was above the RRAL of 1000 mg/kg, and the chloride concentration was 2,300 mg/kg. The NMOCD does not have a documented RRAL for chloride.

Excavation continued at Site #9, until soil samples were collected on June 10, 2003. All 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 by EPA method

SW-846-8015, and for chlorides by EPA method SW-846-9253. A portion of each sample was used for headspace analysis, as described above. The PID was calibrated to 99.9 ppm isobutylene prior to obtaining headspace readings. Table 1 presents a summary of the laboratory analyses of soil from the excavation, and PID readings. 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, all soil samples showed TPH concentrations below the RRAL, except SS-5 (5,980 mg/kg) and SS-6 (1,440 mg/kg). All samples showed chloride concentrations below the test method detection limit. No BTEX analyses were conducted, as PID readings were below 100 ppm. The NMOCD allows a PID of less than 100 ppm to substitute for a TPH laboratory analysis. The central portion of the excavation (where soil samples showed that TPH concentrations exceeded the RRAL), was excavated an additional one (1) to two (2) feet-bgs, and samples were collected on June 12, 2003. The soil samples were submitted to ELOT under chain-of-custody control, and analyzed for TPH by EPA method SW-846-8015 and chloride by EPA method SW-846-9253. Table 1 presents a summary of the laboratory analyses of soil from the excavation, and PID readings. 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, soil samples SS-9 and SS-10 showed TPH concentrations below the RRAL, and chloride concentrations below the test method detection limit. No BTEX analyses were conducted, as PID readings were below 100 ppm.

All soil removed from the excavation was taken to an NMOCD-approved landfarm. As all TPH, benzene, BTEX and chloride concentrations were below the RRAL, the excavation was filled with clean soil. Dynegy requests that Site #9 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 Cal.Wrangham@Dynegy.com, or Cindy@Laenvironmental.com.

Sincerely,
Larson & Associates, Inc.

Cindy K. Crain
Geologist

cc: Mr. Cal Wrangham - Dynegy
Mr. Dave Harris – Dynegy
Mr. Roger Holland – Dynegy

TABLE

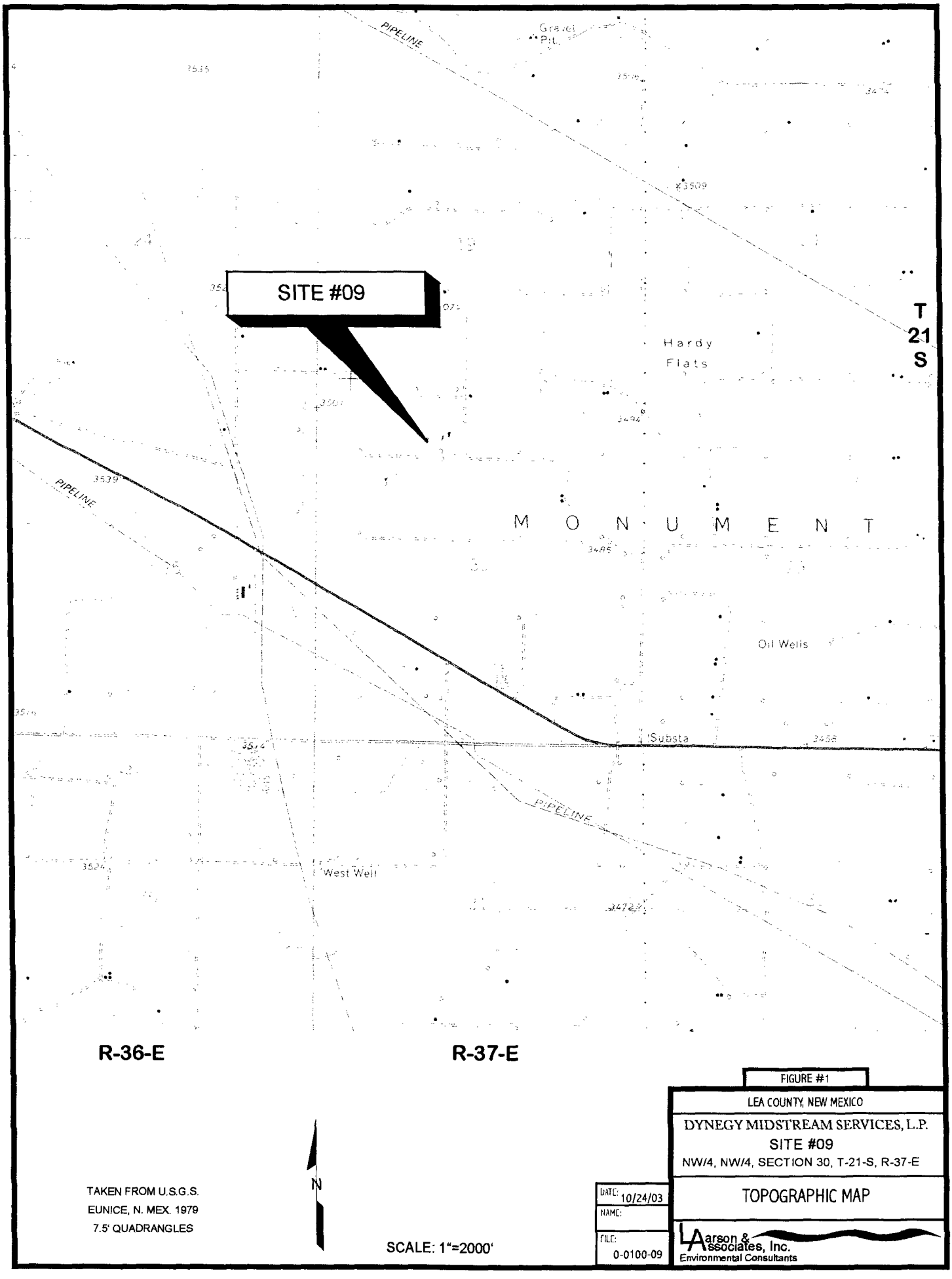
Table 1: Summary of Headspace and Laboratory Analysis of Soil Samples Following Excavation
Dynegy Midstream Services, L. P., Spill Site No. 9
NW/4, NW/4, Section 30, Township 21 South, Range 37 East
Lea County, New Mexico

Sample Number	Location of Sample	Sample Date	Sample Depth (feet BGS)	PID (ppm)	Benzene mg/kg	Total BTEX mg/kg	GRO (C6-C12) mg/kg	DRO (>C12-C35) mg/kg	TPH (C6-C35) mg/kg	Chloride mg/kg
RRAL					**10**	**50**			**1000**	
---	South Bottom	05/30/02	2	---	---	---	1,080	1,180	2,260	---
---	North Bottom	05/30/02	2	---	---	---	1,800	2,870	4,670	---
SS-1	Under Pipeline	06/04/03	9	1,355	0.076	1.519	342	9,310	9,652	2,300
SS-2	Under Pipeline	06/10/03	15	94.0	---	---	<10.0	52.7	52.7	<20.0
SS-3	North Bottom	06/10/03	5	2.9	---	---	<10.0	<10.0	<20.0	<20.0
SS-4	Mid-North Bottom	06/10/03	2	0.5	---	---	<10.0	877	877	<20.0
SS-5	Middle Bottom	06/10/03	3	1.6	---	---	<50.0	5,980	5,980	<20.0
SS-6	Mid-South Bottom	06/10/03	4	1.1	---	---	<10.0	1,440	1,440	<20.0
SS-7	South Bottom	06/10/03	5	0.3	---	---	<10.0	234	234	<20.0
SS-9	Middle Bottom	06/12/03	5	2.2	---	---	<10.0	<10.0	<20.0	<20.0
SS-10	Mid-South Bottom	06/12/03	5	21.2	---	---	<10.0	45	45	<20.0

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

1. **BGS:** Depth in feet below ground surface
2. **PID:** Photoionization detector
3. **ppm:** Parts per million
4. **GRO:** Gasoline-range organics
5. **DRO:** Diesel-range organics
6. **TPH:** Total petroleum hydrocarbons (Sum of GRO + DRO)
7. **mg/kg** Milligrams per kilogram
8. **---:** No data available
9. **<:** Below method detection limit
10. **RRAL** NMOCD Recommended Remediation Action Level

FIGURES



TAKEN FROM U.S.G.S.
EUNICE, N. MEX. 1979
7.5' QUADRANGLES

SCALE: 1"=2000'

FIGURE #1

LEA COUNTY, NEW MEXICO

DYNEGY MIDSTREAM SERVICES, L.P.

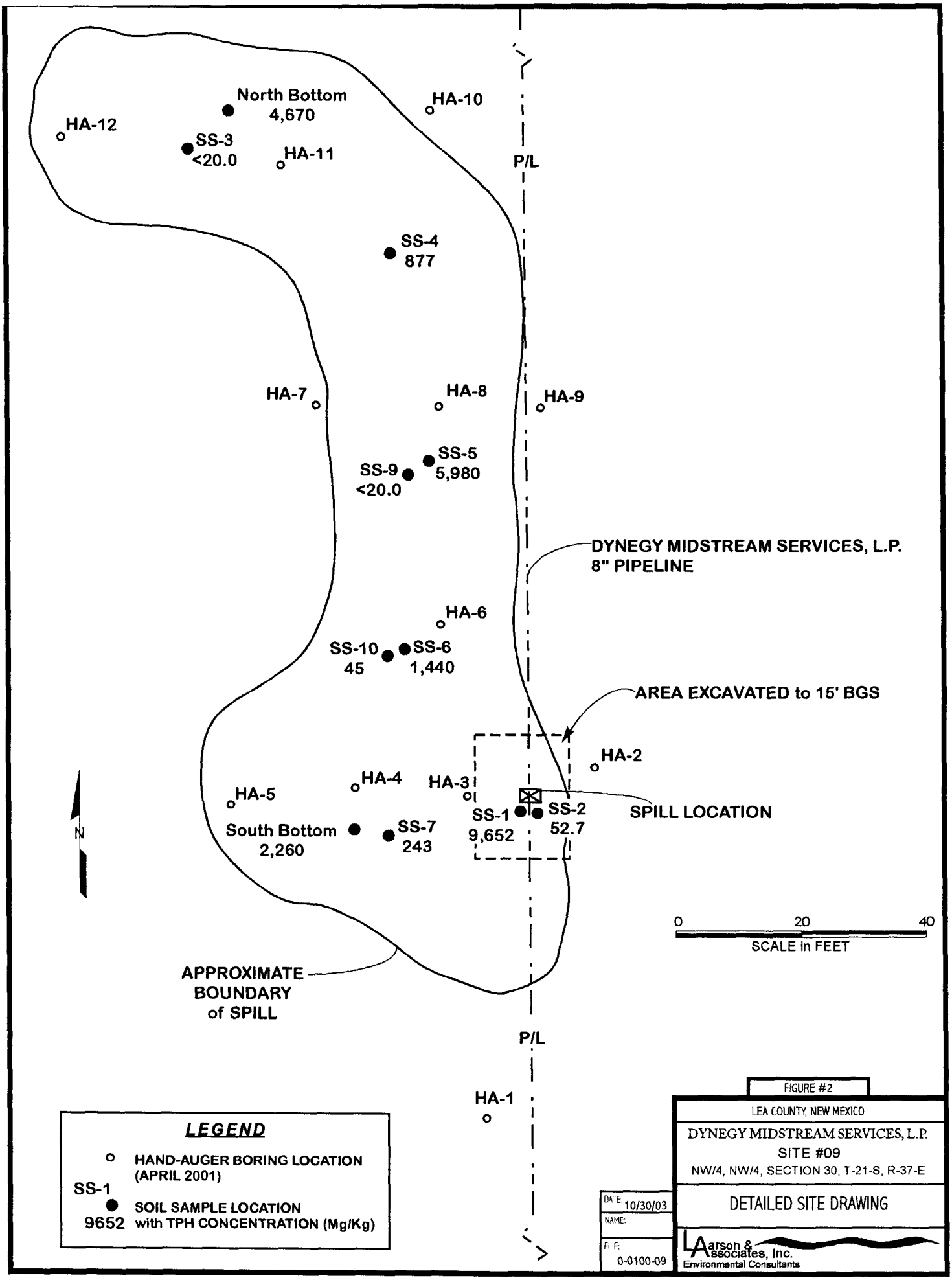
SITE #09

NW/4, NW/4, SECTION 30, T-21-S, R-37-E

TOPOGRAPHIC MAP

DATE: 10/24/03
NAME:
FILE: 0-0100-09

Larson & Associates, Inc.
Environmental Consultants


North Bottom
4,670
HA-10
HA-12
SS-3
<20.0
HA-11
P/L
SS-4
877
HA-7
HA-8
HA-9
SS-5
5,980
SS-9
<20.0
DYNEGY MIDSTREAM SERVICES, L.P.
8" PIPELINE
HA-6
SS-10
45
SS-6
1,440
AREA EXCAVATED to 15' BGS
HA-2
HA-4
HA-3
HA-5
SS-1
9,652
SS-2
52.7
SPILL LOCATION
South Bottom
2,260
SS-7
243
N
0
20
40
SCALE in FEET
APPROXIMATE
BOUNDARY
of SPILL
P/L
HA-1
LEGEND
HAND-AUGER BORING LOCATION
(APRIL 2001)
SS-1
SOIL SAMPLE LOCATION
9652 with TPH CONCENTRATION (Mg/Kg)
FIGURE #2
LEA COUNTY, NEW MEXICO
DYNEGY MIDSTREAM SERVICES, L.P.
SITE #09
NW/4, NW/4, SECTION 30, T-21-S, R-37-E
DETAILED SITE DRAWING
DATE: 10/30/03
NAME:
FILE: 0-0100-09
Larson & Associates, Inc.
Environmental Consultants

APPENDIX A

Release Notification and Corrective Action Form (C-141)

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

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Revised March 17, 1999

Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

Release Notification and Corrective Action

OPERATOR ☒ Initial Report ☐ Final Report

Name: Dynegy Midstream Services, L. P.	Contact: Dave Harris @ (505) 631-7069
Address: PO Box 1909 Eunice, NM 88231	Telephone No. (505) 394-2534
Facility Name: Eunice Plant Gathering System	Facility Type: Gas Plant Low Pressure Gathering Lines

Surface Owner:	Mineral Owner	Lease No.

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the	North/South Line	Feet from the	East/West Line	County
D	30	T21S	37E					Lea

NATURE OF RELEASE

Type of Release Crude Oil	Volume of Release 85 bbls	Volume Recovered 80 bbl
Source of Release Pipeline	Date and Hour of Occurrence PM of 3/28/01	Date and Hour of Discovery Same
Was Immediate Notice Given? ☐ Yes ☐ No ☒ Not Required	If YES, To Whom?	
By Whom?	Date and Hour	
Was a Watercourse Reached? ☐ Yes ☒ No	If YES, Volume Impacting the Watercourse.	

If a Watercourse was Impacted, Describe Fully.*

Describe Cause of Problem and Remedial Action Taken.*
Tank Battery malfunction filled Dynegy gas gathering line with crude oil. Line leak occurred. Wells and Tank Battery were shut-in immediately. A vacuum truck was used to suck up all free liquid.

Describe Area Affected and Cleanup Action Taken.*
The leak released 80 to 90 barrels of crude oil on the Dynegy right-away on an area of approximately 80 feet by 10 feet. The vertical and horizontal impact will be investigated and a remediation plan will be submitted to OCD for approval and area will be remediated per OCD guidelines.

Describe General Conditions Prevailing (Temperature, Precipitation, etc.)*
Mid 60 degree daytime temperatures with humid conditions.

I hereby certify that the information given above is true and complete to the best of my knowledge and belief.

Signature: Cal Wrangham

Printed Name: Cal Wrangham

Title: ES&H Advisor

Date: 3/29/2001 Phone: 915 688-0542

OIL CONSERVATION DIVISION

Approved by District Supervisor:

Approval Date: Expiration Date:

Conditions of Approval: Attached ☐

* Attach Additional Sheets If Necessary

APPENDIX B

Laboratory Data and Chain-of Custody Documentaion

ANALYTICAL REPORT

Prepared for:

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Project:	Dynegy Site #09
Order#:	G0203464
Report Date:	05/31/2002

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#: G0203464
Project: 0-0100-09
Project Name: Dynegy Site #09
Location: Eunice, NM

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.

Lab ID:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0203464-01	Site 09 South Bottom	SOIL	5/30/02 12:45	5/30/02 14:30	4 oz glass	Ice
	Lab Testing: 8015M	Rejected: No		Temp: 4.0 C		
0203464-02	Site 09 North Bottom	SOIL	5/30/02 12:50	5/30/02 14:30	4 oz glass	Ice
	Lab Testing: 8015M	Rejected: No		Temp: 4.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

Cindy Crain
LARSON AND ASSOCIATES, INC.
P.O. BOX 50685
MIDLAND, TX 79710

Order#: G0203464
Project: 0-0100-09
Project Name: Dynegy Site #09
Location: Eunice, NM

Lab ID: 0203464-01
Sample ID: Site 09 South Bottom

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/30/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**1080**	50.0
DRO, >C12-C35	**1180**	50.0
TOTAL, C6-C35	**2260**	50.0

Lab ID: 0203464-02
Sample ID: Site 09 North Bottom

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		5/30/02	1	5	CK	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**1800**	50.0
DRO, >C12-C35	**2870**	50.0
TOTAL, C6-C35	**4670**	50.0

Approval: Raland K Tuttle 6-03-02
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0203464

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0001845-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0001845-03		952	1110	116.6%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0001845-04		952	1090	114.5%	1.8%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0001845-05		1000	877	87.7%	

Environmental Lab of Texas I, Ltd.

12600 West I-20 East
Odessa, Texas 79763
Phone: 915-563-1800
Fax: 915-563-1713

CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST

Project Manager: Cindy Crain
Company Name: Larson and Associates, Inc.
Company Address: 507 N. Marienfeld, Suite 202
City/State/Zip: Midland, TX 79701
Telephone No: (915) 687-0901 Fax No: (915) 687-0456
Sampler Signature: Cindy Crain

Project Name: Dynegy Site #09
Project #: 0-0100-09
Project Loc: Eunice, NM
PO #:

LAB # (lab use only)	FIELD CODE	Date Sampled	Time Sampled	No. of Containers	Preservative: Ice	HNO_3	HCl	NaOH	H_2SO_4	None	Other (Specify)	Matrix: Water	Sludge	Soil	Other (specify):	Analyze For: TCLP: TPH: 418.1/8015M/1005/1006	TOTAL: TPH: 418.1/8015M/1005/1006	Cations (Ca, Mg, Na, K)	Anions (Cl, SO4, CO3, HCO3)	SAR / ESP / CEC	Metals: As Ag Ba Cd Cr Pb Hg Se	Volatiles	Semivolatiles	BTEX 8021B/5030	RCI	N.O.R.M.	Total Gamma			RUSH TAT (Pre-Schedule)	Standard TAT
0203464-01	Site 09 South Bottom	5-30-02	1245	1	X					X				X		X															
02	Site 09 North Bottom	5-30-02	1250	1	X					X				X		X															

Special Instructions:

Sample Containers Intact? Y N
Temperature Upon Receipt:
Laboratory Comments:
Rec 4.0°C.

Relinquished by:	Date	Time	Received by:	Date	Time
Cindy Crain	5/30/02	1430			
Relinquished by:	Date	Time	Received by ELOT:	Date	Time
			RL-dkJ	5/30/02	1430

ANALYTICAL REPORT

Prepared for:

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

Project: Site #9

PO#:

Order#: G0306647

Report Date: 06/06/2003

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#: G0306647
Project: 0-0100-09
Project Name: Site #9
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:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306647-01	SS-1 (9')	SOIL	6/4/03 13:55	6/5/03 8:18	4 oz glass	Ice

Lab Testing:

8015M
8021B/5030 BTEX
Chloride

Rejected: No **Temp:** 3.0 C

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306647
Project: 0-0100-09
Project Name: Site #9
Location: None Given

Lab ID: 0306647-01
Sample ID: SS-1 (9')

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/5/03	1	5	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	**342**	50.0
DRO, >C12-C35	**9310**	50.0
TOTAL, C6-C35	**9652**	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	**21%**	**70**	**130**
1-Chlorooctadecane	**24%**	**70**	**130**

8021B/5030 BTEX

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
0005738-02		6/5/03 14:43	5	25	JMM	8021B

Parameter	Result mg/kg	RL
Benzene	**0.076**	0.025
Toluene	**0.193**	0.025
Ethylbenzene	**0.342**	0.025
p/m-Xylene	**0.613**	0.025
o-Xylene	**0.295**	0.025

Surrogates	% Recovered	QC Limits (%)	
aaa-Toluene	**96%**	**80**	**120**
Bromofluorobenzene	**83%**	**80**	**120**

Approval: Celey D. Keene 06/06/03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN		Order#:	G0306647
LARSON AND ASSOCIATES, INC.		Project:	0-0100-09
P.O. BOX 50685		Project Name:	Site #9
MIDLAND, TX 79710		Location:	None Given

Lab ID: 0306647-01
Sample ID: SS-1 (9')

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	2300	mg/kg	1	20	9253	6/6/03	SB

Approval: Celey D. Keene 06/06/03
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.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS I, LTD. 12600 West I-20 East, Odessa, TX 79765 Ph: 915-563-1800

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0306647

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0005738-02			<0.0250		
Toluene-mg/kg	0005738-02			<0.0250		
Ethylbenzene-mg/kg	0005738-02			<0.0250		
p/m-Xylene-mg/kg	0005738-02			<0.0250		
o-Xylene-mg/kg	0005738-02			<0.0250		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306621-01	0	0.10	0.0920	92.%	
Toluene-mg/kg	0306621-01	0	0.10	0.0880	88.%	
Ethylbenzene-mg/kg	0306621-01	0	0.10	0.0870	87.%	
p/m-Xylene-mg/kg	0306621-01	0	0.20	0.179	89.5%	
o-Xylene-mg/kg	0306621-01	0	0.10	0.0850	85.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0306621-01	0.0920	0.10	0.0880	88.%	4.4%
Toluene-mg/kg	0306621-01	0.0880	0.10	0.0840	84.%	4.7%
Ethylbenzene-mg/kg	0306621-01	0.0870	0.10	0.0830	83.%	4.7%
p/m-Xylene-mg/kg	0306621-01	0.179	0.20	0.170	85.%	5.2%
o-Xylene-mg/kg	0306621-01	0.0850	0.10	0.0820	82.%	3.6%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Benzene-mg/kg	0005738-05		0.10	0.0980	98.%	
Toluene-mg/kg	0005738-05		0.10	0.0930	93.%	
Ethylbenzene-mg/kg	0005738-05		0.10	0.0870	87.%	
p/m-Xylene-mg/kg	0005738-05		0.20	0.177	88.5%	
o-Xylene-mg/kg	0005738-05		0.10	0.0850	85.%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306647

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005752-02			<10.0		
CONTROL SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005752-03		952	1096	115.1%	
CONTROL DUP SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005752-04		952	1075	112.9%	1.9%
SRM SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005752-05		1000	1157	115.7%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306647

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005764-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306647-01	2300	500	2820	104.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306647-01	2300	500	2840	108.%	0.7%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0005764-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

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

Order#: G0306647

Project: Site #9

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-1 (9')	0306647-01	SOIL	06/04/2003	06/05/2003

Surrogate recoveries on 8015 TPH are outside of control limits due to dilution (G0306647-01).

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: Ashley D. Kunz Date: 06/06/03

Environmental Lab of Texas I, Ltd.

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202 • Midland, TX 79701
Fax: 915-687-0456
915-687-0901

CLIENT NAME: Dynegy

SITE MANAGER: Cindy Crain

PROJECT NO.: 0-0100-09

PROJECT NAME: Site #9

PAGE 1 OF 1

LAB. PO #

	DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	BTEX 8021B	TPH 8015M	Chloride	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
01	6/4/03	1355		✓		SS-1 (9')	1	✓	✓	✓	030647	

SAMPLED BY: (Signature) Cindy Crain
DATE: 6/4/03
TIME: 1355

RELINQUISHED BY: (Signature) Cindy Crain
DATE: 6/5/03
TIME: 0820

RELINQUISHED BY: (Signature)
DATE:
TIME:

RECEIVED BY: (Signature) Kim Anderson
DATE: 6-5-03
TIME: 0818

RECEIVED BY: (Signature)
DATE:
TIME:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS:

TURNAROUND TIME NEEDED

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON:

SAMPLE TYPE: Soil 3.0 °C

ANALYTICAL REPORT

Prepared for:

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

Project: Dynegy/ Site #9

PO#:

Order#: G0306695

Report Date: 06/11/2003

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#: G0306695
Project: 0-0100-09
Project Name: Dynegy/ Site #9
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:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306695-01	SS-2	SOIL	6/10/03 11:00	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		
0306695-02	SS-3	SOIL	6/10/03 11:10	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		
0306695-03	SS-4	SOIL	6/10/03 11:13	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		
0306695-04	SS-5	SOIL	6/10/03 11:16	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		
0306695-05	SS-6	SOIL	6/10/03 11:19	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		
0306695-06	SS-7	SOIL	6/10/03 11:21	6/10/03 14:30	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 4.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306695
Project: 0-0100-09
Project Name: Dynegy/ Site #9
Location: None Given

Lab ID: 0306695-01
Sample ID: SS-2

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	52.7	10.0
TOTAL, C6-C35	52.7	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	102%	70	130

Lab ID: 0306695-02
Sample ID: SS-3

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	1	WL	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 Limits (%)	
1-Chlorooctane	105%	70	130
1-Chlorooctadecane	101%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306695
Project: 0-0100-09
Project Name: Dynegy/ Site #9
Location: None Given

Lab ID: 0306695-03
Sample ID: SS-4

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	877	10.0
TOTAL, C6-C35	877	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	110%	70	130
1-Chlorooctadecane	140%	70	130

Lab ID: 0306695-04
Sample ID: SS-5

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	5	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<50.0	50.0
DRO, >C12-C35	5980	50.0
TOTAL, C6-C35	5980	50.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	20%	70	130
1-Chlorooctadecane	22%	70	130

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306695
Project: 0-0100-09
Project Name: Dynegy/ Site #9
Location: None Given

Lab ID: 0306695-05
Sample ID: SS-6

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	1,440	10.0
TOTAL, C6-C35	1,440	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	114%	70	130
1-Chlorooctadecane	163%	70	130

Lab ID: 0306695-06
Sample ID: SS-7

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/11/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	234	10.0
TOTAL, C6-C35	234	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	109%	70	130
1-Chlorooctadecane	119%	70	130

Approval: Raland K Tuttle 6-11-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306695
Project: 0-0100-09
Project Name: Dynegy/ Site #9
Location: None Given

Lab ID: 0306695-01
Sample ID: SS-2

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

Lab ID: 0306695-02
Sample ID: SS-3

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

Lab ID: 0306695-03
Sample ID: SS-4

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

Lab ID: 0306695-04
Sample ID: SS-5

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

Lab ID: 0306695-05
Sample ID: SS-6

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

Lab ID: 0306695-06
Sample ID: SS-7

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/11/03	SB

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

CINDY CRAIN	Order#:	G0306695
LARSON AND ASSOCIATES, INC.	Project:	0-0100-09
P.O. BOX 50685	Project Name:	Dynegy/ Site #9
MIDLAND, TX 79710	Location:	None Given

Approval: Raland K Tuttle 6-11-03
Raland K. Tuttle, Lab Director, QA Officer Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306695

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005795-02			<10.0		
CONTROL SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005795-03		952	969	101.8%	
CONTROL DUP SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005795-04		952	960	100.8%	0.9%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
TOTAL, C6-C35-mg/kg	0005795-05		1000	1071	107.1%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306695

BLANK SOIL	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Chloride-mg/kg	0005791-01			<20.0		
MS SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306694-01	1490	500	1980	98.%	
MSD SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0306694-01	1490	500	2000	102.%	1.%
SRM SOIL	**LAB-ID #**	**Sample Concentr.**	**Spike Concentr.**	**QC Test Result**	**Pct (%) Recovery**	**RPD**
Chloride-mg/kg	0005791-04		5000	4960	99.2%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

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

Order#: **G0306695**

Project: **Dynegy/ Site #9**

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-2	0306695-01	SOIL	06/10/2003	06/10/2003
SS-3	0306695-02	SOIL	06/10/2003	06/10/2003
SS-4	0306695-03	SOIL	06/10/2003	06/10/2003
SS-5	0306695-04	SOIL	06/10/2003	06/10/2003
SS-6	0306695-05	SOIL	06/10/2003	06/10/2003
SS-7	0306695-06	SOIL	06/10/2003	06/10/2003

Surrogate recoveries on 8015M TPH are outside control limits due to matrix interference (G0306695-03, 05)

Surrogate recoveries on 8015M TPH are outside of control limits due to dilution (G0306695-04).

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.

Approved By: Roland K Tuttle Date: 6-11-03

Environmental Lab of Texas I, Ltd.

CHAIN—OF—CUSTODY RECORD

Larson & Associates, Inc.
Environmental Consultants
507 N. Marienfeld, Ste. 202 • Midland, TX 79701
Fax: 915-687-0456
915-687-0901

CLIENT NAME: Dynegy

SITE MANAGER: Cindy Crain

PROJECT NO.: 0-0100-09

PROJECT NAME: Site #9

PAGE 1 OF 1

LAB. PO #

DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: TPH 8015M	PARAMETERS/METHOD NUMBER: Chloride	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
6/10/03	1100		✓		SS-2	1	✓	✓	0306695-01	
"	1110		✓		SS-3	1	✓	✓	02	
"	1113		✓		SS-4	1	✓	✓	03	
"	1116		✓		SS-5	1	✓	✓	04	
"	1119		✓		SS-6	1	✓	✓	05	
"	1121		✓		SS-7	1	✓	✓	06	

SAMPLED BY: (Signature) Cindy Crain
DATE: 6/10/03
TIME: 1130

RELINQUISHED BY: (Signature) Cindy Crain
DATE: 6/10/03
TIME: 1430

RELINQUISHED BY: (Signature)
DATE:
TIME:

RECEIVED BY: (Signature)
DATE:
TIME:

RECEIVED BY: (Signature)
DATE:
TIME:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS: RUSH!!

TURNAROUND TIME NEEDED: RUSH!

RECEIVING LABORATORY: Env Lab of Tx
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature) Jaime Manning
DATE: 06-10-03 TIME: 1430

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED: 4.0°C

LA CONTACT PERSON: C. Crain

SAMPLE TYPE: Soil

ANALYTICAL REPORT

Prepared for:

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

Project: Dynegy/Site #9

PO#:

Order#: G0306715

Report Date: 06/16/2003

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#: G0306715
Project: 0-0100-09
Project Name: Dynegy/Site #9
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:	Sample :	Matrix:	Date / Time Collected	Date / Time Received	Container	Preservative
0306715-01	SS-9	SOIL	6/12/03 11:15	6/13/03 8:10	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 6.0 C		
0306715-02	SS-10	SOIL	6/12/03 11:18	6/13/03 8:10	4 oz glass	Ice
	Lab Testing: 8015M Chloride	**Rejected:** No		**Temp:** 6.0 C		

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306715
Project: 0-0100-09
Project Name: Dynegy/Site #9
Location: None Given

Lab ID: 0306715-01
Sample ID: SS-9

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/13/03	1	1	WL	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 Limits (%)	
1-Chlorooctane	107%	70	130
1-Chlorooctadecane	128%	70	130

Lab ID: 0306715-02
Sample ID: SS-10

8015M

Method Blank	Date Prepared	Date Analyzed	Sample Amount	Dilution Factor	Analyst	Method
		6/13/03	1	1	WL	8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	<10.0	10.0
DRO, >C12-C35	45.0	10.0
TOTAL, C6-C35	45.0	10.0

Surrogates	% Recovered	QC Limits (%)	
1-Chlorooctane	110%	70	130
1-Chlorooctadecane	130%	70	130

Approval: Raland K Tuttle 6-16-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

DL = Diluted out N/A = Not Applicable RL = Reporting Limit

ENVIRONMENTAL LAB OF TEXAS

ANALYTICAL REPORT

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

Order#: G0306715
Project: 0-0100-09
Project Name: Dynegy/Site #9
Location: None Given

Lab ID: 0306715-01
Sample ID: SS-9

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/13/03	SB

Lab ID: 0306715-02
Sample ID: SS-10

Test Parameters

Parameter	Result	Units	Dilution Factor	RL	Method	Date Analyzed	Analyst
Chloride	<20.0	mg/kg	1	20	9253	6/13/03	SB

Approval: Raland K Tuttle 6-16-03
Raland K. Tuttle, Lab Director, QA Officer — Date
Celey D. Keene, Org. Tech. Director
Jeanne McMurrey, Inorg. Tech. Director
Sandra Biezugbe, Lab Tech.
Sara Molina, Lab Tech.

RL = Reporting Limit N/A = Not Applicable

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

8015M

Order#: G0306715

BLANK SOIL	LAB-ID #	Sample 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		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%	

ENVIRONMENTAL LAB OF TEXAS

QUALITY CONTROL REPORT

Test Parameters

Order#: G0306715

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	0005817-04		5000	4960	99.2%	

CHAIN—OF—CUSTODY RECORD

LArson & Associates, Inc.
Environmental Consultants
Fax: 915-687-0456
915-687-0901
507 N. Marienfeld, Ste. 202 • Midland, TX 79701

CLIENT NAME: Dynegy

SITE MANAGER: Cindy Crain

PROJECT NO.: 0-0100-09

PROJECT NAME: Site #9

PAGE 1 OF 1

LAB. PO #

	DATE	TIME	WATER	SOIL	OTHER	SAMPLE IDENTIFICATION	NUMBER OF CONTAINERS	PARAMETERS/METHOD NUMBER: TPH 8015M	PARAMETERS/METHOD NUMBER: Chloride	LAB. I.D. NUMBER (LAB USE ONLY)	REMARKS (I.E., FILTERED, UNFILTERED, PRESERVED, UNPRESERVED, GRAB COMPOSITE)
01	4/2/03	1115		✓		SS-9	1	✓	✓	0306715	
02	"	1118		✓		SS-10	1	✓	✓		

SAMPLED BY: (Signature) Cindy Crain
DATE: 4/2/03
TIME: 1130

RELINQUISHED BY: (Signature) Cindy Crain
DATE: 4/2/03
TIME: 0805

RELINQUISHED BY: (Signature)
DATE:
TIME:

RECEIVED BY: (Signature) Tina Anderson
DATE: 04/3/03
TIME: 0810

RECEIVED BY: (Signature)
DATE:
TIME:

SAMPLE SHIPPED BY: (Circle)
FEDEX BUS AIRBILL #:
HAND DELIVERED UPS OTHER:

COMMENTS: RUSH!!

TURNAROUND TIME NEEDED: RUSH!!

RECEIVING LABORATORY:
ADDRESS:
CITY: STATE: ZIP:
CONTACT: PHONE:

RECEIVED BY: (Signature)
DATE: TIME:

WHITE – RECEIVING LAB
YELLOW – RECEIVING LAB (TO BE RETURNED TO LA AFTER RECEIPT)
PINK – PROJECT MANAGER
GOLD – QA/QC COORDINATOR

SAMPLE CONDITION WHEN RECEIVED:

LA CONTACT PERSON: C. Crain

SAMPLE TYPE: Soil

6.0°C RUSH

APPENDIX C

Photographs

DYNEGY MIDSTREAM SERVICES, L.P.
SITE #9, NW/4, NW/4, SEC. 30, T21S, R37E, LEA CO., NM
PHOTOGRAPHS

1. View to North of pipeline and excavation.

2. View to East of pipeline and excavation.

DYNEGY MIDSTREAM SERVICES, L.P.
SITE #9, NW/4, NW/4, SEC. 30, T21S, R37E, LEA CO., NM
PHOTOGRAPHS

3. View to North of backfilled excavation.

4. View to South of backfilled excavation.