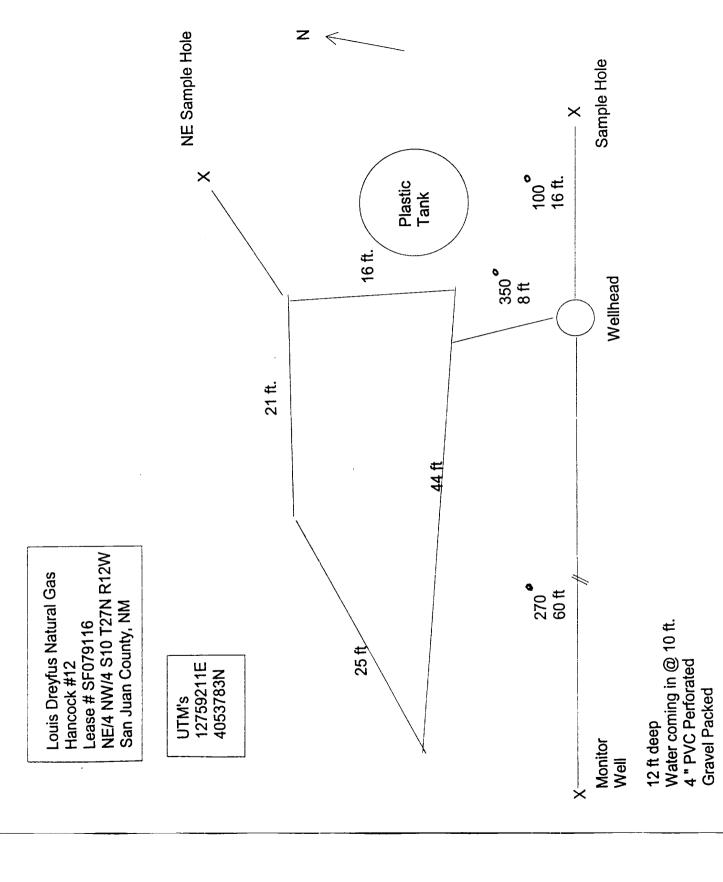
Form 3160-5 (June 1990)

UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT

FORM APPROVED Budget Bureau No. 1004-0135 Expires: March 31, 1993 5. Lease Designation and Serial No.

BUREAU OF I	ZAND MANAGEMENT	J. Double Designation and Serial Ivo.
CHARDY MOTIOES	AND DEDORTE ON WELLS	SF079116
	AND REPORTS ON WELLS	6. If Indian, Allottee or Tribe Name
Do not use this form for proposals to dr	ill or to deepen or reentry to a different reservoir.	
Use "APPLICATION FO	R PERMIT—" for such proposals	_
		7. If Unit or CA, Agreement Designation
H MY EVEL SUBMIT	IN TRIPLICATE	
		1 C-10-27N-17 W
1. Type of Well		8. Well Name and No.
Oil Sas Other	- DEVELMED	4
2. Name of Operator	미르아티카르베	Hancock #12
Louis Dreyfus Natural Gas		9. API Well No.
3 Address and Telephone No.	JUL 1 6 1908 🛂	
P.O. Box 370, Carlsbad, NM 8821	.1	10. Field and Pool, or Exploratory Area
4. Location of Well (Footage, Sec., T., R., M., or Survey D	escription) OND CONT DITTY	
•	And Aama maa	11. County or Parish, State
	6197 , 3	
		
Unit C S10 T27N R12 W		San Juan
CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION	TYPE OF ACTION	
Nation of Lorent	Abandonment	Change of Plans
Notice of Intent		New Construction
	Recompletion	Non-Routine Fracturing
Subsequent Report	Plugging Back	
	Casing Repair	Water Shut-Off
Final Abandonment Notice	Altering Casing	Conversion to Injection
	X Other FINAL CLOSURE	Dispose Water
		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)
12 December of Completed Operations (Clearly state 2	Il pertinent details, and give pertinent dates, including estimated date of starting	any proposed work. If well is directionally drilled.
give subsurface locations and measured and true verti-	cal depths for all markers and zones pertinent to this work.)*	
The sit at thic wall was excav	ated, remediated, sampled and closed u	nder the guidelines
The pit at this well was executed	al, Navajo, and Louis Dreyfus Natural	Gas regulations.
the State of New Mexico, reder	ar, havajo, and house here	J
14. I hereby certify that the foregoing is true and correct	_	7 10 00
January St. HAM	Title Environmental & Safety Direct	tor Date 7-13-98
Signed Signed		
(This space for Federal or State office use)		
Approved by	Title	Date
Conditions of approval, if any:		
		States any false figuritions as fearthclast statements
Title 18 U.S.C. Section 1001, makes it a crime for any person	knowingly and willfully to make to any department or agency of the United	i Suites any raise, rictitious of fraudusers statements
or representations as to any matter within its jurisdiction.		

1		
Date Remediation S	tarted: 7-9-97	Dated Completed: 6-9-98
Remediation Method (Check all appropriate	Excavation X	Approx. cubic yards197
sections)	Landfarmed XX	Insitu Bioremediation
	Other	
j		
Remediation Location (ie. landfarmed onsite name and location of offsite facility)	on: Onsite <u>xx</u> of	site
General Description	Of Remedial Action	ı:
Contamination was re	mediated by dilution	and aeration
Ground Water Encoun	tered: No	Yes X Depth 12 feet
Final Pit: Closure Sampling: (if multiple samples,	Sample location	
attach sample results and diagram of sample	Sample depth See	Attached
locations and depths;	Sample date See At	tached Sample time See Attached
	Sample Results	
	Benzene(ppm)	See Attached
	Total BTEX(pp	a) See Attached
		ce(ppm) <u>See Attached</u>
	TPH <u>See Attac</u>	
Ground water sample:	Yes X No	(If yes, attach sample results)
I HEREBY CERTIFY THA OF MY KNOWLEDGE AND	T THE INFORMATION A	BOVE IS TRUE AND COMPLETE TO THE BEST
DATE		
SIGNATURE		AME Tommy H. Arnwine, A.S.P. Environmental & Safety Director



To: Tommy H. Arnwine

From: Daniel G. Marshall

Date: 7/28/97

Re: Hancock #12 Information

Sir,

This is a brief summary of the work Shawn Adams and I did at the Hancock #12. All of this information may also be found in the field notes, chain of custody's and lab results that are enclosed.

The site, Section 10, T27N, R12W, San Juan County, is on the inner edge of an actively irrigated wheat field on Navajo Agricultural Products Industry land.

7/9/97 - Arrived on site to determine extent of contamination. Took five head space samples. None of the five samples taken were sent to the laboratory for testing.

7/10/97 - Took ten headspace samples; three from the landfarm, two from exploratory pits and the four banks and one bottom sample of the pit. Of the ten samples taken for headspace analysis five were sent to the laboratory for Total Petroleum Hydrocarbon (TPH) analysis.

Lab samples from 7/10/97.

Lab Sample Number	Sample Location	Headspace Results	Lab Results	Remarks
		(PPM)	(PPM)	
Hanc - 1000	mid-pit bottom @ 9'	30	ND _	
Hanc - 1001	N, E, W bank composite	11	ND	8' depth
Hanc - 1002	South bank @ 8"	1560	46	
Hanc - 1003	NE exploratory pit	242	ND	
Hanc - 1004	SE exploratory pit	23	ND	

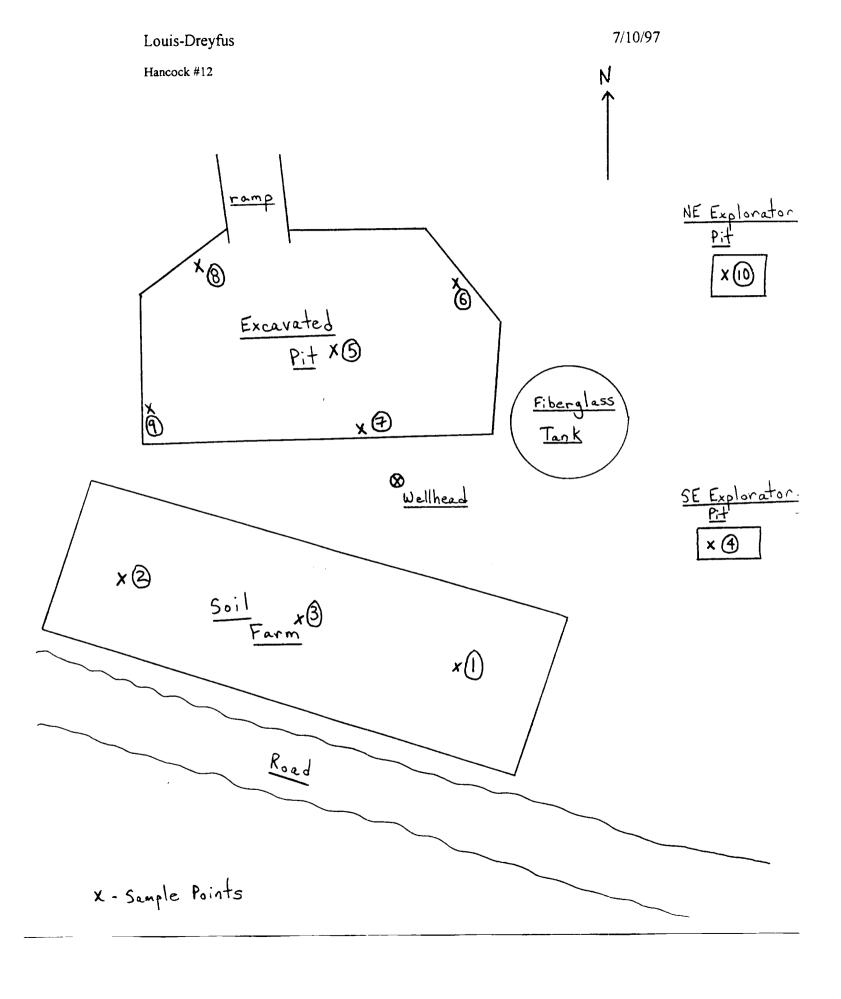
7/11/97 – Arrived on site to sample monitoring well and soil farms. Bailed out approximately six volumes each thirty inches in depth with a tree and a half inch diameter bailer. Took one sample from the monitoring well for Benzene, Toluene, Ethylbenzene, and Xylene (BTEX) laboratory analysis. Took four soil samples from the landfarm as shown on the attached field sketch.

Lab samples from 7/11/97.

Lab Sample Number	Sample Location	Headspace Results	Lab Results	Remarks
		(PPM)	(PPM)	
Hanc - 300	Monitoring well	N/A	0.0035	Total BTEX
Hanc - 301	Soil farm composite 1	960	770	
Hanc - 302	Soil farm composite 2	33	36	
Hanc - 303	Soil farm composite 3	287	36	
Hanc - 304	Soil farm composite 4	937	97	

Any questions may be directed to Shawn or myself.

Thank you.



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CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

S LAB ID Date/Time 7/11/97 Special Instructions: Date/Time Date/Time Telefax No. **ANALYSIS REQUESTED** 33 10 Working Days 160 Company CES, Inc.

Rushing Address PO Box3376

City. State, Zip Farm Ington,
Telephone No. 505) 325 1/98 1.8/x Hay Name Shawn Adams 24-48 Hours Goldenrod - Client 1500 Received by Head Received by Pink - Sampler Containers 4 Number of Nonc MATRIX PRES. 7-11-9 1045 1/20 1/CL . On Site Yellow - LAB = Farm Date/Time 7-//- 12/ 7-11-94 1200 50:1 Date/Time Dept. Date. SAMPLE = = (Client Signature Must Accompany Request) SE Job No. HANC-309/ Hancock #12 M. We Adams Soil Farm Compl City, State, Zip Farmington, SAMPLE IDENTIFICATION = Lowis - Dreyfus Well and edil r Shawn = Sampler: $\mathbb{D} G M$ 4ANC-301 Purchase Order No.: Method of Shipment: Sampling Location: Company 1ADC-302 Address Relinquished by: Relinquished by: Relinquished by Authorized by: LO INAOICE SEND



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6620

Address: P.O. Box 3376

Sample No.:

15275

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-1000; Mit-pit 9'

DM

Date: Date:

10-Jul-97 Time:

10-Jui-97

9:45

Sampled by: Analyzed by: Sample Matrix:

HR Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	896	828 - 1024	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
15176-3751	5.8	15.0

Approved by: Heigh Roses Date: 7/10/97

This is seen to be supported by the comment.



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6620

Address:

Sample No.:

15276

City, State: Farmington, NM 87499

P.O. Box 3376

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-1001; N,E,W Bank Composite 8'

Date:

10-Jul-97 Time:

11:00

Sampled by: Analyzed by: DM HR

Date:

10-Jul-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons. TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSSI	896	828 - 1024	mg/kg

Dunlication

Day		Limit
Laboratory Identification	RPD	RPD
Eaboratory Identification		
15176-3751	5.8	15.0

Approved by: Fleich Ress.
Date: 7/10/97

A TRUMP OF A CASE OF A SUPERFORM OF



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6620

Address:

P.O. Box 3376

15277

Sample No.:

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-1002; South Bank Composite 8' DM

Date:

10-Jul-97 Time:

Sampled by: Analyzed by:

HR

Date:

10-Jul-97

11:00

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	46	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	896	828 - 1024	mg/kg

Duplication

Laboratory identification	RPD	Limit RPD
15176-3751	5.8	15.0

Approved by:

P.O. BOX 2606 • FARMINGTON, NM 87499

- Technology Bushom of those for hoose the E. Mindows of



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6620

Address:

Sample No.:

15278

P.O. Box 3376

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-1003; NE Exploratory Pit 9'

Sampled by:

DM HR

Date: Date: 10-Jul-97 Time:

10-Jul-97

11:30

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons. TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	896	828 - 1024	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
15176-3751	5.8	15.0

P.O. BOX 2606 • FARMINGTON, NM 87499

on a figure and the second



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

10-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6620

Sample No.:

15279

Address: P.O. Box 3376

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-1004; SE Exploratory Pit 9'

10-Jul-97 Time:

Sampled by: Analyzed by: DM HR

Date: Date:

10-Jul-97

11:10

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons. TPH	ND	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

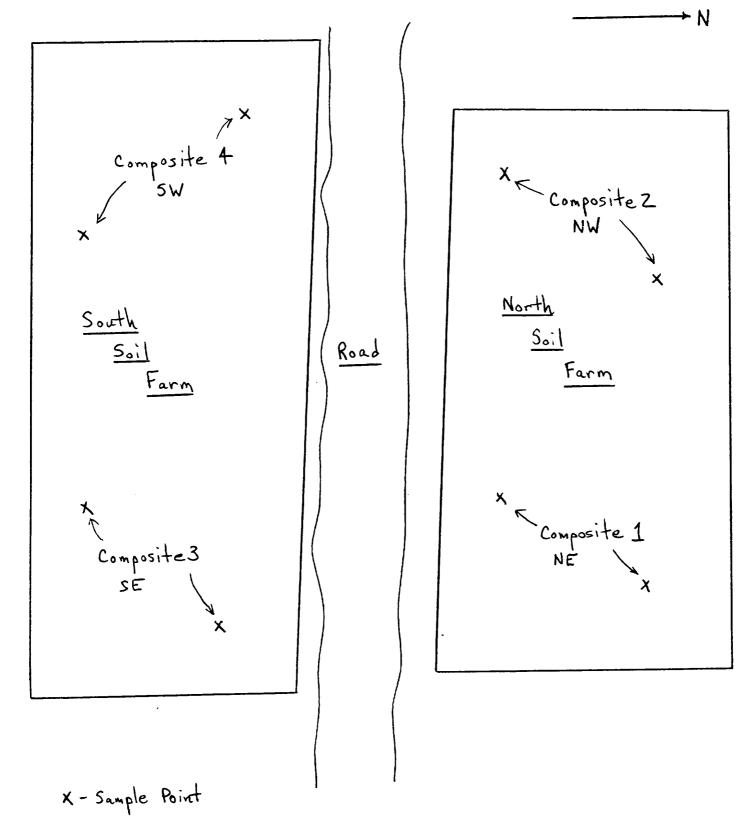
Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	896	828 - 1024	mg/kg

Duplication

- Dupiteution		
		Limit
Laboratory identification	RPD	RPD
15176-3751	5.8	15.0

Approved by: Acicli Rocs
Date: 7/10/97

P.O. BOX 2606 • FARMINGTON, NM 87499 Thanks in the Output of the Common Managers Hancock #12



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CHAIN OF CUSTODY RECORD

ON SITE

TECHNOLOGIES, LTD.

657 W. Maple • P. O. Box 2606 • Farmington NM 87499 LAB: (505) 325-5667 • FAX: (505) 325-6256

8 LAB ID Date/Time 7/11/97 Special Instructions: Date/Time Date/Time Telefax No. **ANALYSIS REQUESTED** 287 937 10 Working Days 160 33 City, State, Zip Farm Ington, Telephone No. 505) 325 1/98 Company CES, Inc.
Mailing Address PO Box 337((8/x 40/3) Adams 24-48 Hours 1500 Received by: Head Name Rush Received by: RESULTS TO Containers 4 ТЯОЧЭЯ Number of Nonc MATRIX PRES. = Hancock #12 Monitoring Date/Time 7-//- 97/ 7-11-19 1045 1/2 0 7.11.99 12.00 Soil = TIME Date/Time Date/Time SAMPLE Date Dept. DATE = = (Client Signature Must Accompany Request) $\frac{8}{5}$ S_F Job No. Hancock *12 M. We Adams 3376 City, State, Zip Farmington SAMPLE IDENTIFICATION = Soil Farm Shawn Lowis - Dreyt Well and d = HANC-300, Sampler: DGM Purchase Order No.: HANC-301 Method of Shipment: Company Sampling Location: Address Relinquished by: Relinquished by: Name Relinquished by: Authorized by: INVOICE SEND

Goldenrod - Client

Pint - Sampler

Yellow - LAB

On Site



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

23-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6624

15305

Address: P.O. Box 3376

Sample No.:

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Louis Dreyfus - Hancock #12

Project Location:

HANC-300; Monitor Well

DGM

Date:

11-Jul-97 Time:

Sampled by: Analyzed by:

DC

Date:

17-Jul-97

10:45

Sample Matrix:

Liquid

Parameter		Results as Received	Unit of Measure	Limit of Quantitation	Unit of Measure
Benzene		ND	ug/L	0.2	ug/L
Toluene		0.7	ug/L	0.2	ug/L
Ethylbenzene		0.3	ug/L	0.2	ug/L
m,p-Xylene		1.4	ug/L	0.2	ug/L
o-Xylene		1.1	ug/L	0.2	ug/L
	TOTAL	3.5	ug/L		

ND - Not Detected at Limit of Quantitation

Method - SW-846 EPA Method 8020A Aromatic Volatile Organics by Gas Chromatography



LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 17-Jul-97

Internal QC No.:

0527-STD

Surrogate QC No.: 0528-STD

Reference Standard QC No.: 0529/30-QC

Method Blank

		Unit of
Parameter	Result	Measure
Average Amount of All Analytes In Blank	< 0.2	ppb

Calibration Check

	Unit of	True	Analyzed		
Parameter	Measure	Value Value		RPD	Limit
Benzene	ppb	20.0	20.6	3	15%
Toluene	ppb	20.0	21.0	5	15%
Ethylbenzene	ppb	20.0	21.4	7	15%
m,p-Xylene	ppb	40.0	40.1	0	15%
o-Xylene	ppb	20.0	21.0	5	15%

Matrix Spike

mutia opiko					
Parameter	1- Percent Recovered	2 - Percent Recovered	Limit	RPD	Limit
Benzene	99	95	(39-150)	3	20%
Toluene	101	94	(46-148)	3	20%
Ethylbenzene	106	103	(32-160)	3	20%
m,p-Xylene	100	96	(35-145)	3	20%
o-Xylene	104	101	(35-145)	3	20%

Laboratory Identification	\$1 Percent Recovered	S2 Percent Recovered	Laboratory Identification	S1 Percent Recovered	S2 Percent Recovered
Limit Percent Recovered	(70-130)		Limit Percent Recovered	(70-130)	
15305-6624	95				
					(rin)
					+123/97

S1: Flourobenzene



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

11-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6624

Address:

15306

P.O. Box 3376

Sample No.:

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-301; Soil Farm Composite 1, NE DM

Date: Date:

11-Jul-97 Time:

12:00

Sampled by: Analyzed by: Sample Matrix:

HR Soil

11-Jul-97

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	770	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	922	828 - 1024	mg/kg

Duplication

Laboratory Identification	RPD	Limit RPD
15306-6624	6.4	15.0

Approved by:



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

11-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6624

Address:

P.O. Box 3376

Sample No.:

15307

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-302; Soil Farm Composite 2, NW

Sampled by: Analyzed by: DM HR

Date: Date:

11-Jul-97

11-Jul-97 Time:

12:00

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	36	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	922	828 - 1024	mg/kg

Duplication

		Limit
Laboratory Identification	RPD	RPD
15306-6624	6.4	15.0

Approved by:



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

11-Jul-97

Company: Contract Environmental Services, Inc.

COC No.:

6624

Address:

P.O. Box 3376

15308

City, State: Farmington, NM 87499

Sample No.: Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-303; Soil Farm Composite 3, SE

Sampled by:

HR

Date: Date: 11-Jul-97 Time:

11-Jul-97

12:00

Analyzed by: Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	36	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Laboratory Fortified Spike Soil - QCSS1	922	828 - 1024	mg/kg

Duplication

Laboratory identification	RPD	Limit RPD
<i>15306-6624</i>	6.4	15.0

Approved by:



LAB: (505) 325-1556

ANALYTICAL REPORT

Attn:

Shawn Adams

Date:

11-Jul-97

COC No.:

6624

Company: Contract Environmental Services, Inc.

Address:

P.O. Box 3376

Sample No.:

15309

City, State: Farmington, NM 87499

Job No.:

2-1000

Project Name:

Contract Environmental - Louis-Dreyfus, Hancock #12

Project Location:

HANC-304; Soil Farm Composite 4, SW

Date:

11-Jul-97 Time:

12:00

Sampled by: Analyzed by: DM HR

Date:

11-Jul-97

Sample Matrix:

Soil

Laboratory Analysis

Parameter	Results as Received	Limit of Quantitation	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	97	25	mg/kg	EPA Method 418.1

ND - Not Detected at Limit of Quantitation

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	Analyzed Value	Acceptable Range	Unit of Measure
Laboratory Fortified Blank Soil - QCBS2	ND	ND	mg/kg
Luboratory Fortified Spike Soil - QCSS1	922	828 - 1024	mg/kg

Duplication

Laboratory Identification	RPD R		
15306-6624	6.4	15.0	

Approved by:

CHAIN OF CUSTODY RECORD

Client / Project Name	// //		Project Location	612			ANALYSI	ANALYSIS / PARAMETERS	ETERS		
Sampler:	Manay (2	3	Client No.	7/						Bernards	
TORNY ARALINE	1,10		1300	92-0	to .c	fid					
Sample No./ Identification	Sample Date	Sample Time	Lab Number	Sample Matrix	Cont	108					
San / m	9 June 98	1700	D373	1108	7	7	1 800 /	0,40	١,	13.67.7 Py 100.601	. €0_
							AP	ब्रिट ५	4	Schm	
						-				I	
Belinguished by (Signature)	-			Date Time Bed	Beceived hv. (Signature)	Signatura)				Date	<u> </u>
		, <i>)</i>		£0:00 8				ş		2	U
Relinquished by. (Signature)	ture)				Received by: (Signature)	Signature)					
Relinquished by: (Signature)	ture)			Rec	ceived by: (Received by: (Signature)					
			a nous . A separation of the second of the s	FOVIDOTECH IOC	I C	<u>C</u>			Samp	Sample Receipt	
								<u> </u>		>	Z
				5796 U.S. Highway 64 Farmington, New Mexico 87401	lighway 6	.4 87401	3 6		Received Intact	7/	
				(505) 632-0615	2-0615			\dashv	Cool - Ice/Bitue Ice	2	-



EPA METHOD 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Client: Sample ID: Laboratory Number: Chain of Custody No: Sample Matrix: Preservative: Condition: Luis Dryfus Natural Gas Sample #1 D373 6069 Soil Cool Cool and Intact	Project #: Date Reported: Date Sampled: Date Received: Date Extracted: Date Analyzed: Analysis Requested:	97300-26 06-30-98 06-09-98 06-10-98 06-29-98 06-29-98 8015 TPH
---	---	--

Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	0.4	0.2
Diesel Range (C10 - C28)	39.5	0.1
Total Petroleum Hydrocarbons	39.9	0.2

ND - Parameter not detected at the stated detection limit.

References:

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Waste,

SW-846, USEPA, December 1996.

Comments:

Hancock #12.

Analyst

Review

Stacy W Sendler



EPA Method 8015 Modified Nonhalogenated Volatile Organics Total Petroleum Hydrocarbons

Quality Assurance Report

Client: Sample ID: Laboratory Number: Sample Matrix: Preservative: Condition:	QA/QC 06-29-TPH D516 Methylene Ch N/A N/A	QA/QC aloride	Project #: Date Reported Date Sampled Date Received Date Analyzed Analysis Reque	: : :	N/A 06-30-98 N/A N/A 06-29-98 TPH
Calibration	I-Cal Date	I-Cal RF:	C-Cal RF:	% Difference	Accept. Range
Gasoline Range C5 - C10	04-28-98	2.3634E-02	2.3511E-02	0.52%	0 - 15%
Diesel Range C10 - C28	04-28-98	2.3141E-02	2.3016E-02	0.54%	0 - 15%
Blank Conc. (mg/L - mg/K	(g)	Concentration		Detection Limit	
Gasoline Range C5 - C10		ND		0.2	
Diesel Range C10 - C28		ND		0.1	
Total Petroleum Hydrocarbons	S	ND		0.2	
Duplicate Conc. (mg/Kg)	Sample	Duplicate	% Difference	Accept. Range	
Gasoline Range C5 - C10	ND	ND	0.0%	0 - 30%	
Diesel Range C10 - C28	8.8	8.6	1.8%	0 - 30%	
Spike Conc. (mg/Kg) Gasoline Range C5 - C10	Sample ND	Spike Added 250	Spike Result 250	% Recovery 100%	Accept. Range 75 - 125%

250

ND - Parameter not detected at the stated detection limit.

References:

Diesel Range C10 - C28

Method 8015B, Nonhalogenated Volatile Organics, Test Methods for Evaluating Solid Wast

258

100%

75 - 125%

SW-846, USEPA, December 1996.

8.8

Comments:

QA/QC for samples D373, D516 and D524.

Analyst

Stacy W Sendler
Review