3R - 272

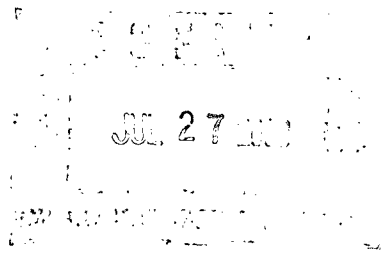
GENERAL CORRESPONDENCE

YEAR(S):
2000 - 1995

Environmental & Safety Department
P.O. Box 525
Sonora, Texas
76950

Telephone 1 915 387-5355
Fax 1 915 387-3744

Louis Dreyfus Natural Gas



July 24, 2000

New Mexico Oil Conservation Division
Mr. Bill Olson
2400 Pacheco Street
Sante Fe, NM 85730

Re:MKL #2-R
Section 5, T26N, R07W,
Rio Arriba County, New Mexico

Please consider the enclosed data for "Final Closure" of pit and monitor well at this location.

Data has been gathered on this location from work done by either Louis Dreyfus Natural Gas personnel or by Contract Environmental Services, Inc., working under directions of LDNG personnel. This data includes a sundry notice, pit remediation and closure report , site diagram, and enclosures 1, 2, and 3 discussed below.

Excavation was not complete, however a report (See Enclosure #1) from Contract Environmental Services shows that excavation was completed as far as possible without disturbing permanent equipment. Verbal approval was received from OCD and BLM to hold excavation at this point.

Our attention was then directed to the soil farms for remediation. Soil samples taken in September of 1996 show one of these soil farms is within limits of guidelines (See Enclosure #3). The other soil farm was turned and fertilized and resampled on 6 Dec. 99. These test show this farm also within limits.

Soil from soil farms will be used to contour location in standards for surrounding area and revegitate to BLM standards for the Largo Canyon area.

Soil samples tested below required 100 ppm in Gasoline and Diesel Ranges for both soil farms.

Supporting data for all lab analysis are enclosed and are true and accurate to the best of knowledge. If further information is required, please contact me at (915)387-5355.

Thank you,

Tommy H. Arnwine
Environmental & Safety Director

cc: Gene Simer
OCD- Aztec-Denny Faust
BLM- Farmington- Bill Liese

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

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

5. Lease Designation and Serial No.: 03353A
6. If Indian, Allottee or Tribe Name:
7. If Unit or CA, Agreement Designation:

1. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other
2. Name of Operator: Louis Dreyfus Natural Gas
3. Address and Telephone No.: P.O. Box 525, Sonora, TX 76950 (915) 387-5355
4. Location of Well (Footage, Sec., T., R., M., or Survey Description): Sec 5, T26N, R07W

8. Well Name and No.: MKL 2-R
9. API Well No.: 3003924611
10. Field and Pool, or Exploratory Area: GCNM
11. County or Parish, State: Rio Arriba, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION	
☐ Notice of Intent	☐ Abandonment	☐ Change of Plans
☐ Subsequent Report	☐ Recompletion	☐ New Construction
☐ Final Abandonment Notice	☐ Plugging Back	☐ Non-Routine Fracturing
	☐ Casing Repair	☐ Water Shut-Off
	☐ Altering Casing	☐ Conversion to Injection
	☒ Other Final Pit Closure	☐ Dispose Water

(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

13. Describe Proposed or Completed Operations (Clearly state all 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 vertical depths for all markers and zones pertinent to this work.)*

All laboratory analysis for soil farms have proven within limits of guidelines. LDNG proposes the following leading to "final closure" of pit:

1) Contour soil farm t suit location drainage.
2) Reseed to BLM area requirements.

14. I hereby certify that the foregoing is true and correct

Signed Tommy A. Amos Title Environmental & Safety Director Date 7-24-2000

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
Conditions of approval, if any:

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 States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

***See Instruction on Reverse Side**

GENERAL INSTRUCTIONS

This form is designed for submitting proposals to perform certain well operations, and reports of such operations when completed, as indicated, on Federal and Indian lands pursuant to applicable Federal law and regulations, and, if approved or accepted by any State, on all lands in such State, pursuant to applicable State law and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office.

SPECIFIC INSTRUCTIONS

Item 4—If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 13—Proposals to abandon a well and subsequent reports of abandonment should include such special information as is required by local Federal and/or State offices. In addition, such proposals and reports should include reasons for the abandonment; data on any former or present productive zones, or other zones with present significant fluid contents not sealed off by cement or otherwise; depths (top and bottom) and method of placement of cement plugs; mud or other material placed below, between and above plugs; amount, size, method of parting of any casing, liner or tubing pulled and the depth to top of any left in the hole; method of closing top of well; and date well site conditioned for final inspection looking to approval of the abandonment.

NOTICE

The Privacy Act of 1974 and the regulation in 43 CFR 2.48(d) provide that you be furnished the following information in connection with information required by this application.

AUTHORITY: 30 U.S.C. 181 et. seq., 351 et. seq., 25 U.S.C. et. seq.; 43 CFR 3160.

PRINCIPAL PURPOSE — The information is to be used to evaluate, when appropriate, approve applications, and report completion of secondary well operations, on a Federal or Indian lease.

ROUTINE USES:

(1) Evaluate the equipment and procedures used during the proposed or completed subsequent well operations.

(2) Request and grant approval to perform those actions covered by 43 CFR 3162.3-2(2).

(3) Analyze future applications to drill or modify operations in light of data obtained and methods used.

(4)(5) Information from the record and/or the record will be transferred to appropriate Federal, State, local or foreign agencies, when relevant to civil, criminal or regulatory investigations or prosecutions.

EFFECT OF NOT PROVIDING INFORMATION — Filing of this notice and report and disclosure of the information is mandatory once an oil or gas well is drilled.

The Paperwork Reduction Act of 1980 (44 U.S.C. 3501, et. seq.) requires us to inform you that:

This information is being collected in order to evaluate proposed and/or completed subsequent well operations on Federal or Indian oil and gas leases.

This information will be used to report subsequent operations once work is completed and when requested, to obtain approval for subsequent operations not previously authorized.

Response to this request is mandatory for the specific types of activities specified in 43 CFR Part 3160.

BURDEN HOURS STATEMENT

Public reporting burden for this form is estimated to average 25 minutes per response, including the time for reviewing instructions, gathering and maintaining data, and completing and reviewing the form. Direct comments regarding the burden estimate or any other aspect of this form to U.S. Department of the Interior, Bureau of Land Management, (Alternate) Bureau Clearance Officer, (WO-771), 18 and C Streets, N.W., Washington, D.C. 20240, and the Office of Management and Budget, Paperwork Reduction Project (1004-0135), Washington, D.C. 20503.

*U.S. GPO: 1990-773-016/26019

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

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Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
Louis Dreyfus Natural Gas

3. Address and Telephone No.
P.O. Box 525, Sonora, TX 76950 (915) 387-5355

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 5, T26N, R07W

5. Lease Designation and Serial No.
03353A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA, Agreement Designation

8. Well Name and No.
MKL 2-R

9. API Well No.
3003924611

10. Field and Pool, or Exploratory Area
GCNM

11. County or Parish, State
Rio Arriba, New Mexico

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Signed Tommy A. Ulmer Title Environmental & Safety Director Date 7-24-2000

(This space for Federal or State office use)

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7. If Unit or CA, Agreement Designation

8. Well Name and No.
MKL 2-R

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GCNM

11. County or Parish, State
Rio Arriba, New Mexico

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1) Contour soil farm t suit location drainage.
2) Reseed to BLM area requirements.

14. I hereby certify that the foregoing is true and correct

Signed Tammy A. Adams Title Environmental & Safety Director Date 7-24-2000

(This space for Federal or State office use)

Approved by _____ Title _____ Date _____
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*See Instruction on Reverse Side

District I
P.O. Box 1980, Hobbs, NM
District II
P.O. Drawer DD,
District III
1000 Rio Brazos Rd., Aztec, NM 87410

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
P.O. Box 2088
Santa Fe, New Mexico 87504-2088

SUBMIT 1 COPY TO APPROPRIATE DISTRICT OFFICE AND 1 COPY TO SANTE FE OFFICE

PIT REMEDIATION AND CLOSURE REPORT

Operator: Louis Dreyfus Natural Gas Telephone: (915) 387-5355

Address: P.O. Box 525, Sonora, TX 76950

Facility Or: MKL #2-R
Well Name

Location Unit or Qtr/Qtr Sec Sec 5 T 26N R07W County _____

Pit Type: Separator Dehydrator Other _____

Land Type: BLM ,State ,Fee , Other _____

Pit Location: (Attach diagram)
Pit dimensions: length 12, width 12, depth 12

Reference: wellhead _____, Other _____

Footage from reference: 30Ft.

Direction from reference: Degrees 300° East North of West South

Depth To Ground Water: (Vertical distance from contaminants to seasonal high water elevation of ground water)	Less than 50 feet 50 feet to 99 feet Greater than 100 feet	(20 points) (10 points) (0 points)	20
Wellhead Protection Area: (Less than 200 feet from a private domestic water source, or; less than 1000 feet from all other water sources	Yes No	(20 points) (0 points)	0
Distance To Surface Water: (Horizontal distance to perennial lakes, ponds, rivers, streams, creeks, irrigation canals and ditches)	Less than 200 feet 200 feet to 1000 feet Greater than 1000 feet	(20 points) (10 points) (0 points)	20

RANKING SCORE (TOTAL POINTS):

Date Remediation Started: 9-27-95 **Date completed** 11-12-99

Remediation Method: (Check all appropriate sections)
Excavation X **Approx. cubic yards** 64
Landfarmed X **Insitu Bioremediation** _____
Other _____

Remediation Location: (i.e. landfarmed onsite, name and location of offsite facility)
Onsite X **Offsite** _____

General Description of Remedial Action:

Placed excavated soil into two soil farms areas. Turn soil and fertilize periodically.

Ground Water Encountered: No X Yes _____ **Depth** _____

Final Pit:
Closure Sampling:
(if multiple samples, attach sample results and diagram of sample locations and depths)

Sample location _____

Sample depth _____

Sample date _____ **Sample time** _____

Sample Results

Benzene (ppm) _____

Total BTEX (ppm) _____

Field headspace (ppm) _____

TPH _____

Ground Water Sample: Yes _____ No X (If yes, attach sample results)

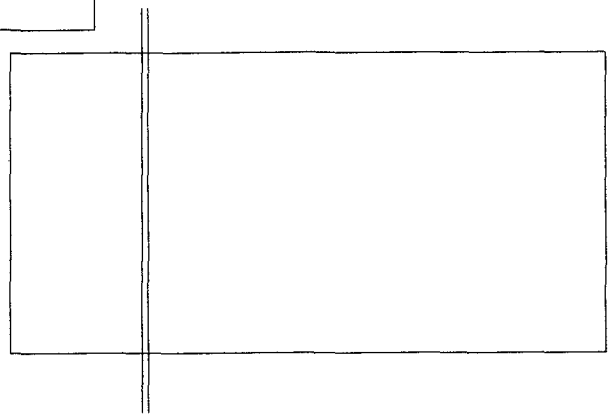
I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

DATE 7-24-00

SIGNATURE

PRINTED NAME Tommy H. Arnwine
AND TITLE Environmental & Safety Director

LOUIS DREYFUS NATURAL GAS
MKL # 2-R
Sec 5 T26N R07W
Rio Arriba County, New Mexico



DEHY

PIT
AREA

UNDERGROUND
LINE CROSSING PIT

N ←

WELL

SOIL FARMS

ENCLOSURE 1

MKL #2-R

Louis Dreyfus Natural Gas

re: MKL #2R
Sec. 5 T26N R07W

Rationale for Risk Based Closure

As per the report from "Contract Environmental Services, Inc., (enclosed) the contaminated soil was removed to depth in center of pit and the remainder of the pit was cleaned to this same depth.

"It is anticipated that not all contamination was removed from the walls of the excavation. On the north side of the excavation a subsurface flowline prevents removing all contaminated material. On the east side of the excavation the separator is located. These features eliminate further excavation in at least two directions. Leaving the excavation open for an extended period of time will enable the contaminated soils in the walls to remediate as well".

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9911022-01AMS** Batch ID: **8015GRO_S-** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116A** SeqNo: **21343**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.537	0.18	1.802	0	85.3%	46	118				

Sample ID: **9911022-01AMSD** Batch ID: **8015GRO_S-** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116A** SeqNo: **21344**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.496	0.18	1.802	0	83.0%	46	118	1.537	2.7%	12	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Method Blank

Sample ID: **MBlank** Batch ID: **8015GRO_S-** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:

Client ID: **9911023** Run ID: **GC-1_991116A** SeqNo: **21331**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	ND	0.18									

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 GRO_99092** Batch ID: **8015GRO_S-** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116A** SeqNo: **21332**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.718	0.18	1.812	0	94.8%	85	115				
Trifluorotoluene	.0769	0	0.08	0	96.1%	77	134				

Sample ID: **CCV2 GRO_99092** Batch ID: **8015GRO_S-** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116A** SeqNo: **21345**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.719	0.18	1.812	0	94.9%	85	115				
Trifluorotoluene	.0756	0	0.08	0	94.5%	77	134				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS Soil** Batch ID: **8015GRO_S-9911023** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/16/99** Prep Date:

Client ID: Run ID: **GC-1_991116A** SeqNo: **21333**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C6-C10	1.647	0.18	1.802	0	91.4%	65.9	118				

Qualifiers:

ND - Not Detected at the Reporting Limit

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S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT
Method Blank

Sample ID: **MBlank** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:

Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21625**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	ND	10									
Ethylbenzene	ND	10									
m,p-Xylene	ND	20									
o-Xylene	ND	20									
Toluene	ND	30									

Qualifiers:
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Project: Landfarms

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9911022-01AMS** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21635**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	88.77	10	100	0	88.8%	80	120				
Ethylbenzene	93.14	10	100	0	93.1%	80	120				
m,p-Xylene	187.4	20	200	0	93.7%	80	120				
o-Xylene	188.6	20	200	0	94.3%	80	120				
Toluene	276.5	30	300	0	92.2%	80	120				

Sample ID: **9911022-01AMSD** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21636**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	87.3	10	100	0	87.3%	80	120	88.77	1.7%	20	
Ethylbenzene	91.27	10	100	0	91.3%	80	120	93.14	2.0%	20	
m,p-Xylene	184	20	200	0	92.0%	80	120	187.4	1.9%	20	
o-Xylene	186.3	20	200	0	93.1%	80	120	188.6	1.2%	20	
Toluene	271.7	30	300	0	90.6%	80	120	276.5	1.8%	20	

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS Soil** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:

Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21627**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	93.68	10	100	0	93.7%	80	120				
Ethylbenzene	98.82	10	100	0	98.8%	80	120				
m,p-Xylene	201	20	200	0	100.5%	80	120				
o-Xylene	198.6	20	200	0	99.3%	80	120				
Toluene	292.8	30	300	0	97.6%	80	120				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 GRO_99092** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21626**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	96.51	10	100	0	96.5%	85	115				
Ethylbenzene	101.4	10	100	0	101.4%	85	115				
m,p-Xylene	203.7	20	200	0	101.9%	85	115				
o-Xylene	204.1	20	200	0	102.1%	85	115				
Toluene	300.5	30	300	0	100.2%	85	115				
Trifluorotoluene	76.95	0	80	0	96.2%	70	130				

Sample ID: **CCV2 GRO_99092** Batch ID: **GRO_S-12/2/** Test Code: **SW8015B** Units: **µg/Kg** Analysis Date **11/16/99** Prep Date:
Client ID: **9911023** Run ID: **GC-1_991116B** SeqNo: **21637**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Benzene	97.33	10	100	0	97.3%	85	115				
Ethylbenzene	101.5	10	100	0	101.5%	85	115				
m,p-Xylene	203.5	20	200	0	101.8%	85	115				
o-Xylene	205.2	20	200	0	102.6%	85	115				
Toluene	302.8	30	300	0	100.9%	85	115				
Trifluorotoluene	75.61	0	80	0	94.5%	70	130				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/23/99** Prep Date: **11/16/99**

Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	10.53	25									J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CHAIN OF CUSTODY RECORD

4359

ON SITE TECHNOLOGIES, LTD.

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

Date: 9/27/96

Page 1 of 1

Purchase Order No.:	Job No.		
SEND INVOICE TO: Name	Mike Rainwater	REPORT RESULTS TO: Name	Shawn Adams
Company	Louis Dreyfus Natural Gas	Company	Contract Env. Services
Dept.		Mailing Address	PO Box 505
Address		City, State, Zip	Kirtland NM 87417
City, State, Zip	Farm. NM	Telephone No.	325-1198
		Title / Telefax No.	

Sampling Location: Louis Dreyfuss Soil Farms - Largo

Sampler: Jayson Blanchard

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	MATRIX	PRES.	Number of Containers	Tex. 4oz glass	TPH by 418.1	LAB ID
MKL-500 MKL-5 Soil Farm	9/27/96	1230pm	Soil	none	1	X	X	17360-4359
MKL-501 "	"	"	"	"	1	X	X	17361
MKL-502 "	"	"	"	"	1	X	X	17362
MKL-503 "	"	"	"	"	1	X	X	17363
Fed-600 Federal 6-32 Soil Farm	"	100pm	"	"	1	X	X	17364
Fed-601 "	"	"	"	"	1	X	X	17365
Fed-602 "	"	"	"	"	1	X	X	17366
MKL-200 MKL-2R Soil Farm	"	130pm	"	"	1	X	X	17367
MKL-201 "	"	"	"	"	1	X	X	17368
Miles-100 Miles Federal 1E Soil Farm	"	200pm	"	"	1	X	X	17369
Miles-101 "	"	"	"	"	1	X	X	17370
Miles-102 "	"	"	"	"	1	X	X	17371

ANALYSIS REQUESTED

Relinquished by: Jayson Blanchard	Date/Time 9/27/96 4:00pm	Received by:	Date/Time 9/27/96 4:15
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time

Method of Shipment:

Authorized by: Jayson Blanchard Date 9/27/96
(Client Signature Must Accompany Request)

Rush	24-48 Hours	10 Working Days	Special Instructions:

Distribution: White - LAB Pink – Sampler Goldenrod – Client

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Laboratory Control Spike - generic

Sample ID: **LCS Soil** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/23/99** Prep Date: **11/16/99**

Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21553**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	529.3	25	501.9	10.53	103.4%	59	126				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT
Method Blank

Sample ID: **MB1** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/23/99** Prep Date: **11/16/99**

Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21551**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	10.53	25									J

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT
Continuing Calibration Verification Standard

Sample ID: **CCV6 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/29/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21578**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	470.4	25	501.9	0	93.7%	85	115				

Sample ID: **CCV7 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/30/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21579**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	526.6	25	501.9	0	104.9%	85	115				

Sample ID: **CCV8 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/30/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21580**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	528.5	25	501.9	0	105.3%	85	115				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Continuing Calibration Verification Standard

Sample ID: **CCV1 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/23/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21552**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	435.6	25	501.9	0	86.8%	85	115				

Sample ID: **CCV2 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/23/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21574**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	464.4	25	501.9	0	92.5%	85	115				

Sample ID: **CCV3 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/24/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21575**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	455.3	25	501.9	0	90.7%	85	115				

Sample ID: **CCV4 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/24/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21576**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	438.5	25	501.9	0	87.4%	85	115				

Sample ID: **CCV5 DRO_99100** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/29/99** Prep Date:
Client ID: **9911023** Run ID: **GC-2_991123A** SeqNo: **21577**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	492.2	25	501.9	0	98.1%	85	115				

Qualifiers:
ND - Not Detected at the Reporting Limit
J - Analyte detected below quantitation limits
S - Spike Recovery outside accepted recovery limits
R - RPD outside accepted recovery limits
B - Analyte detected in the associated Method Blank

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn:	*Shawn Adams*	*Date:*	1-Oct-96
Company:	*Contract Environmental Services, Inc.*	*COC No.:*	*4359*
Address:	*P.O. Box 505*	*Sample No.*	*12367*
City, State:	*Kirtland, NM 87417*	*Job No.*	*2-1000*

Project Name:	***Loius Dreyfus Natural Gas - MKL-2R Soil Farm***				
Project Location:	***MKL-200***				
Sampled by:	JB	Date:	27-Sep-96	Time:	13:30
Analyzed by:	DC/BV	Date:	30-Sep-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Detection Limit*	*Unit of Measure*	*Method*
Total Petroleum Hydrocarbons, TPH	46	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	*Analyzed Value*	*Acceptable Range*	*Unit of Measure*
Laboratory Fortified Blank Soil - QCBS2	<25	<25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	850	828 - 1024	mg/kg

Duplication

Laboratory Identification	*(% RSD)*	*Limit (% RSD)*
12328-3974	0.8	15.0

Approved by:

Date: 10/1/96

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn:	*Shawn Adams*	*Date:*	1-Oct-96
Company:	*Contract Environmental Services, Inc.*	*COC No.:*	*4359*
Address:	*P.O. Box 505*	*Sample No.*	*12368*
City, State:	*Kirtland, NM 87417*	*Job No.*	*2-1000*

Project Name:	***Loius Dreyfus Natural Gas - MKL-2R Soil Farm***				
Project Location:	***MKL-201***				
Sampled by:	JB	Date:	27-Sep-96	Time:	13:30
Analyzed by:	DC/BV	Date:	30-Sep-96		
Sample Matrix:	*Soil*				

Laboratory Analysis

Parameter	*Result*	*Detection Limit*	*Unit of Measure*	*Method*
Total Petroleum Hydrocarbons, TPH	505	25	mg/kg	EPA Method 418.1

Quality Assurance Report

Laboratory Fortified Blank/Spike Soil

Laboratory Identification	*Analyzed Value*	*Acceptable Range*	*Unit of Measure*
Laboratory Fortified Blank Soil - QCBS2	<25	<25	mg/kg
Laboratory Fortified Spike Soil - QCSS1	850	828 - 1024	mg/kg

Duplication

Laboratory Identification	*(% RSD)*	*Limit (% RSD)*
12368-4359	9.5	15.0

Approved by:

Date: 10/1/96

ENCLOSURE 2

MKL #2-R

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

QUALITY ASSURANCE REPORT

for EPA Method 8020

Date Analyzed: 30-Sep-96

Internal QC No.: 0486-QC
Surrogate QC No.: 0488-QC
Reference Standard QC No.: 0417-QC

Method Blank

Analyte	*Result*	*Units of Measure*
Average Amount of All Analytes In Blank	<0.2	ppb

Calibration Check

Analyte	*Units of Measure*	*True Value*	*Analyzed Value*	*% Diff*	*Limit*
Benzene	ppb	20.0	19.9	1	15%
Toluene	ppb	20.0	19.6	2	15%
Ethylbenzene	ppb	20.0	19.7	1	15%
m,p-Xylene	ppb	40.0	37.9	5	15%
o-Xylene	ppb	20.0	18.7	7	15%

Matrix Spike

Analyte	*1- Percent Recovered*	*2 - Percent Recovered*	*Limit*	*%RSD*	*Limit*
Benzene	109	111	(39-150)	1	20%
Toluene	80	83	(46-148)	1	20%
Ethylbenzene	102	104	(32-160)	1	20%
m,p-Xylene	88	90	(35-145)	1	20%
o-Xylene	92	94	(35-145)	1	20%

Surrogate Recoveries

Laboratory Identification	*S1 Percent Recovered*	*S2 Percent Recovered*	*Laboratory Identification*	*S1 Percent Recovered*	*S2 Percent Recovered*
Limit Percent Recovery	(70-130)		*Limit Percent Recovery*	(70-130)	
S1: Flourobenzene			*S1: Flourobenzene*		
12357-4307	93				
12358-4307	93				

ENCLOSURE 3

MKL #2-R

OFF: (505) 325-5667

ON SITE
TECHNOLOGIES, LTD.

LAB: (505) 325-1556

December 06, 1999

Tommy H. Arnwine
Louis Dreyfus Natural Gas
P.O. Box 220
Flora Vista, NM 87415
TEL: (915) 387-5355
FAX (915) 387-3744

RE: Landfarms

Order No.: 9911023

Dear Tommy H. Arnwine,

On Site Technologies, LTD. received 7 samples on 11/12/99 for the analyses presented in the following report.

The Samples were analyzed for the following tests:
Diesel Range Organics (SW8015B)
Gasoline Range Organics (SW8015B)

There were no problems with the analyses and all data for associated QC met EPA or laboratory specifications except where noted in the Case Narrative.

If you have any questions regarding these tests results, please feel free to call.

Sincerely,

David Cox

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

On Site Technologies, LTD. **Date:** *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Project: Landfarms
Lab Order: 9911023

CASE NARRATIVE

Samples were analyzed using the methods outlined in the following references:

Test Methods for Evaluating Solid Waste, Physical/Chemical Methods, SW846, 3rd Edition

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objectives.

P.O. BOX 2606 • FARMINGTON, NM 87499

- TECHNOLOGY BLENDING INDUSTRY WITH THE ENVIRONMENT -

10421

CHAIN OF CUSTODY RECORD

ON SITE TECHNOLOGIES, LTD.

612 E. Murray Dr. • P.O. Box 2606 • Farmington, NM 87499
LAB: (505) 325-5667 • FAX: (505) 327-1496

Date: _____

Page: _____ of _____

Purchase Order No.:	Project No.		
SEND INVOICE TO: Name	Louis Dreyfus Natural Gas	REPORT RESULTS TO: Name	Title
Company	Dept.	Company	
Address		Mailing Address	
City, State, Zip		City, State, Zip	
		Telephone No.	Telefax No.

PROJECT LOCATION:

SAMPLER'S SIGNATURE:

SAMPLE IDENTIFICATION	SAMPLE DATE	SAMPLE TIME	SAMPLE MATRIX	SAMPLE PRES.	Number of Containers	ANALYSIS REQUESTED: 8015 MOD GRO / DRO	BTEX	LAB ID
Land Farm MKL 5-A #1					X			9911023-01A
MKL 5-A #3					X			
Fed-6-32 #1					X			9911023-02A
" #2					X			
" #3					X			
Miles 1-E #1					X			9911023-03A
#2					X			
#3					X			
MKL 2-R #1					X			9911023-04A

Relinquished by:	Date/Time	Received by: Heidi Reese	Date/Time 11/12/99 1415
Relinquished by:	Date/Time	Received by:	Date/Time
Relinquished by:	Date/Time	Received by:	Date/Time
Method of Shipment:		Rush / 24-48 Hours / 10 Working Days / By Date	

Authorized by: Mike Ramirez Date 11/12/99 2:15 PM
(Client Signature Must Accompany Request)

Special Instructions / Remarks:
RUN BTEX ONLY IF 8015 MOD PASSES
11/12/99

Distribution: White - On Site Yellow - LAB Pink - Sampler Goldenrod - Client

OFF: (505) 325-5667

ON SITE TECHNOLOGIES, LTD.

LAB: (505) 325-1556

ANALYTICAL REPORT

Date: *06-Dec-99*

Client:	Louis Dreyfus Natural Gas	**Client Sample Info:**	Landfarm
Work Order:	9911023	**Client Sample ID:**	MKL 2-R #1
Lab ID:	9911023-04A **Matrix:** SOIL	**Collection Date:**	11/12/99
Project:	Landfarms	**COC Record:**	10421-10422

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		**SW8015B**				Analyst: **DM**
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	11/24/99
GASOLINE RANGE ORGANICS		**SW8015B**				Analyst: **DC**
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	11/16/99
GASOLINE RANGE ORGANICS		**SW8015B**				Analyst: **DM**
Benzene	ND	10		µg/Kg	1	11/16/99
Ethylbenzene	ND	10		µg/Kg	1	11/16/99
m,p-Xylene	ND	20		µg/Kg	1	11/16/99
o-Xylene	ND	20		µg/Kg	1	11/16/99
Toluene	ND	30		µg/Kg	1	11/16/99

Qualifiers:

PQL - Practical Quantitation Limit

ND - Not Detected at Practical Quantitation Limit

J - Analyte detected below Practical Quantitation Limit

B - Analyte detected in the associated Method Blank

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

E - Value above quantitation range

Surr: - Surrogate

P.O. BOX 2606 • FARMINGTON, NM 87499

On Site Technologies, LTD.

Date: *06-Dec-99*

CLIENT: Louis Dreyfus Natural Gas
Work Order: 9911023
Project: Landfarms

QC SUMMARY REPORT

Sample Matrix Spike

Sample ID: **9911023-04AMS** Batch ID: **GC-2_991123** Test Code: **SW8015B** Units: **mg/Kg** Analysis Date **11/30/99** Prep Date: **11/30/99**

Client ID: **MKL 2-R #1** **9911023** Run ID: **GC-2_991123A** SeqNo: **21572**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
T/R Hydrocarbons: C10-C28	449	25	501.9	0	89.5%	63	126				

Qualifiers:

ND - Not Detected at the Reporting Limit

J - Analyte detected below quantitation limits

S - Spike Recovery outside accepted recovery limits

R - RPD outside accepted recovery limits

B - Analyte detected in the associated Method Blank

Contract Environmental Services, Inc.
Post Office Box 505
Kirtland, New Mexico 87417-0505
Phone (505) 325-1198

October 19, 1995

New Mexico Oil Conservation Division
Mr. Bill Olson
2400 Pacheco Street
Santa Fe, New Mexico 85730

RE: Louis Dreyfus Natural Gas Corporation, MKL #2R, Sec 5, T26N, R07W SE/SW, Rio Arriba County, New Mexico

Dear Mr. Olson,

Contract Environmental Services, Inc. (CES) is pleased to present this "Closure Report" for the MKL #2R well location on behalf of Louis Dreyfus Natural Gas Corporation (LDNG). This report contains background information, current site assessment data, a site plan, conclusions and recommendations.

Background Information

On September 27, 1995 CES began excavating the soil immediately below the earthen pit. As soils were removed from the excavation, periodic samples were gathered to be analyzed using a Photo-Ionization Detector (PID) meter. Soils removed were transferred to another portion of the wellpad to establish a soil farm for continued remediation. These soils were spread on the wellpad some 6" to 12" in depth to allow for aeration and the release of volatile aromatic hydrocarbons.

Approximately 45 cubic yards of contaminated soil was removed from the pit area during the excavation process. At a depth of 12-13' a field PID soil sample indicated that the contaminated soil had been removed. A confirmation laboratory soil sample was gathered to be processed for Total Petroleum Hydrocarbons (TPH) using EPA Method 8015 Modified. This laboratory soil analysis confirmed that uncontaminated soil had been reached. The remainder of the pit area was "Cleaned Out" to this same depth. It is anticipated that not all contamination was removed from the walls of the excavation. On the north side of the excavation a subsurface flow line prevents removing all contaminated material. On the east side of the excavation the separator is located. These features eliminate further excavation in at least two directions. Leaving the excavation open for an extended period of time will enable the contaminated soils in the wall to remediate as well.

The following is field PID data collected during the removal process.

Center Of Earthen Pit

PID Field Data Collected

Depth	Sample No.	PID(PPM)	Location
4'	#1	2000+	Center of Pit
6'	#2	500	Center of Pit
10'	#3	55	Center of Pit
13'	#4	7.0	Center of Pit

Laboratory Data Collected

Depth	Sample No.	8015(PPM) Gas	Diesel	Location
12'	MKL2A-100	89.3	17.9	Northeast Corner

The field PID data and the recently received laboratory data indicate that significant clean soil was reached in the excavation prior to contact with groundwater.

Conclusions

Soil contamination discontinued in the center of the excavation prior to contacting groundwater. The core of the contamination has been removed and is currently remediating on the well pad. Remaining wall contamination will remediate while the excavation remains open during the soil farm remediation process. CES believes that LDNG has adequately removed contaminated soil and sufficiently defined the vertical extent. CES ranks this site at 100 PPM cleanup score with a maximum benzene level of 10 PPM.

Recommendations

Remediate the soils contained in the soil farm to below 100 PPM laboratory TPH by EPA Method 418.1 or 8015 Modified for gas and diesel. Return the remediated soils to the pit area as backfill and slightly dome the area to prevent water ponding. A report on the findings should be presented to NMOCD for their records.

Contract Environmental Services, Inc. appreciates this opportunity to present this "Closure Report" on behalf of Louis Dreyfus Natural Gas Corporation. If you have questions or require additional information, please don't hesitate to contact our offices at (505) 325-1198 or stop by at 4200 Hawkins Road, Farmington.

Sincerely,

Shawn A. Adams
Contract Environmental Services, Inc.

cc: Mr. Denny Foust, NMOCD Farmington
Mr. Bill Liese, BLM Farmington