

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

RISK
bedrock

Submit 1 copy to
appropriate
District Office
and 1 copy to
the Santa Fe Office

Revised June 10, 2003

PIT REMEDIATION AND CLOSURE REPORT

30-039-22933

Operator: <u>Dominion Oklahoma Texas Exploration & Production Inc.</u> Telephone: <u>325-387-5355 ext.7239</u>		
Address: <u>P.O. Box 525 Sonora, Texas 76950</u>		
Facility Or: <u>Federal 8-22</u>		
Well Name _____		
Location: Unit or Qtr/Qtr <u>Sec SE 1/4 of NW 1/4 Sec 8</u> T <u>26N</u> R <u>7W</u> County <u>Rio Arriba</u>		
Pit Type: Separator <u>X</u> Dehydrator _____ Other _____		
Land Type: BLM <u>X</u> , State _____, Fee _____ Other _____		
Pit Location: Pit dimensions: length <u>25</u> , width <u>25</u> , depth <u>24</u> (Attach diagram)		
Reference: wellhead _____, other <u>Stock tanks</u>		
Footage from reference: <u>20 ft.</u>		
Direction from reference: <u>90</u> Degrees <u>X</u> 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) <u>20</u>
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) <u>0</u>
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) <u>20</u>
RANKING SCORE (TOTAL POINTS):		<u>40</u>

Date Remediation Started: 10 October 1996 Date completed: 4 Sept. 1998

Remediation Method: Excavation X Approx. cubic yards 555
(Check all appropriate sections.) Landfarmed X Insitu Bioremediation _____
Other _____

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

General Description of Remedial Action: _____

Placed excavated soil in landfarm. Turn soil periodically, fertilized, and sample.

HIT claystone at 18'

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 Attached

Sample depth 18'

Sample Date _____ Sample time _____

Sample Results Attached

Benzene(ppm) ~~88~~ 1694

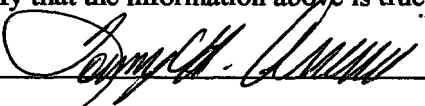
Total BTEX(ppm) 83

Field headspace(ppm) _____

TPH 4655

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

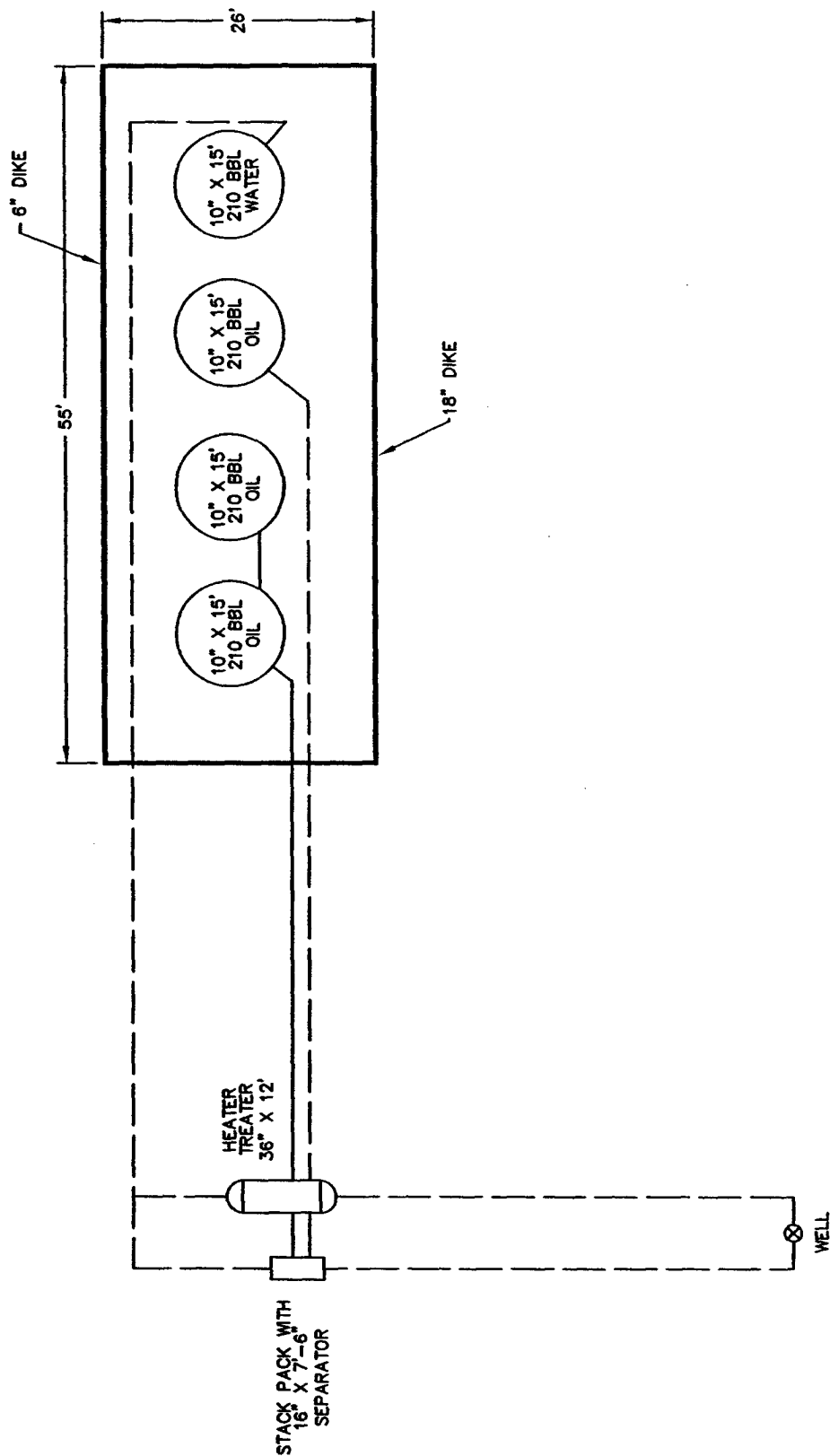
I hereby certify that the information above is true and complete to the best of my knowledge and belief.

Signature  Date 10-17-03

Printed Name Tommy H. Arnwine Title Senior Environmental & Safety Specialist

E-mail Address Tommy_H_Arnwine@dom.com

NOR. FLOW



RIO ARriba COUNTY, NEW MEXICO

DOMINION EXPLORATION &
PRODUCTION, INC.
WESTERN DISTRICT

FEDERAL 8-22 TB

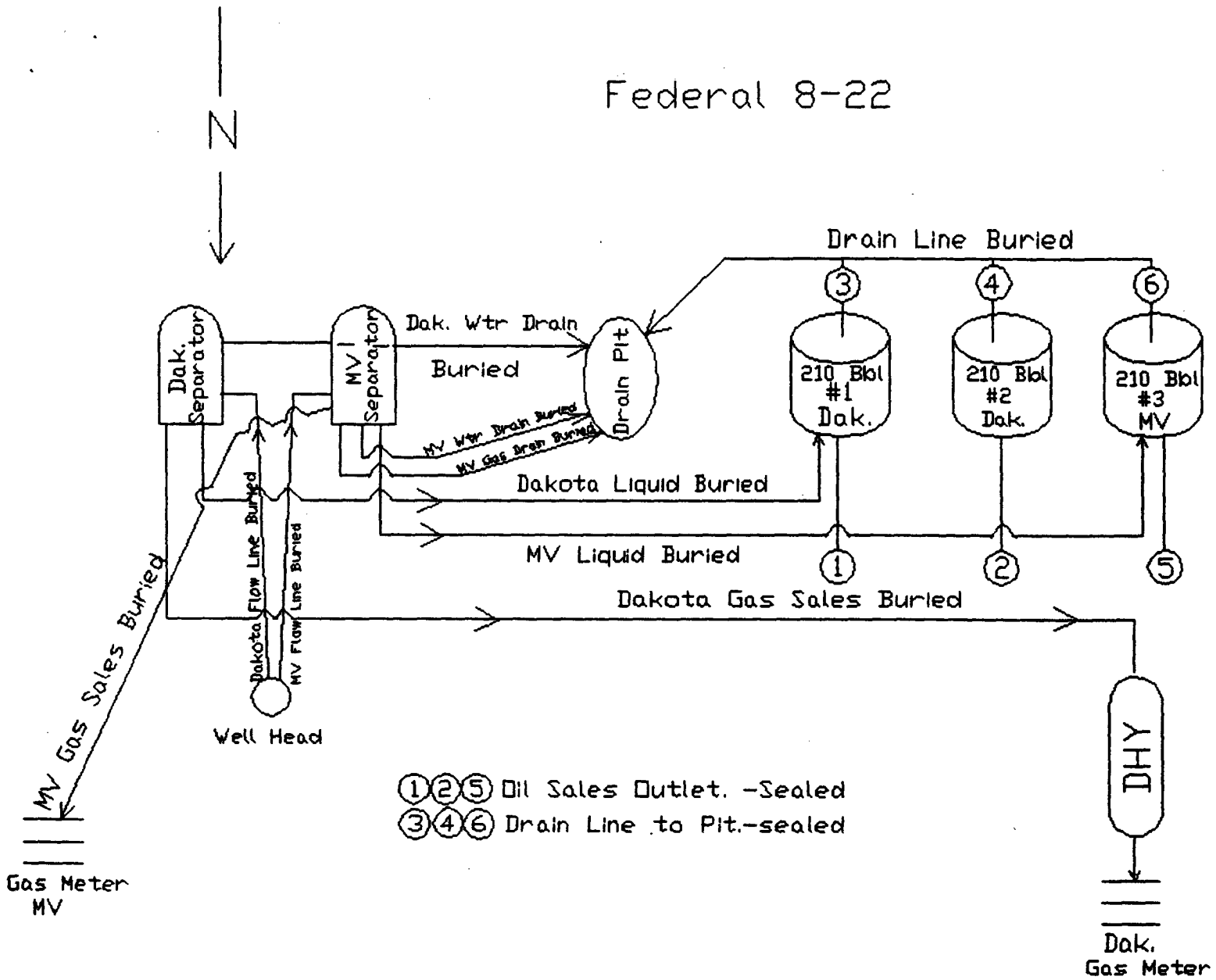
10/9/02

HIGHLANDER ENVIRONMENTAL CORP.
MIDLAND, TEXAS

DATE: 10/21/02
DWS: JDA
FILE: 02/00/000000
PDS-4-21

NOT TO SCALE

Federal 8-22



Federal 8-22

Section 8 T26N R7W
SE 1/4 of NW 1/4

10/10/96 Excavation Began
 @ 3' - 395 ppm
 @ 6' - 300 ppm
 @ 9' - 418 ppm

Widen excavation to 7 to 8

 @ 12' - 424 ppm
 @ 15' - 435 ppm
 @ 18-19' - 473 ppm

Lab test @ 18'

4,655 ppm by 418.1 test
B 695 T 2121 E 7170 x 72751
Hit gray claystone, very dense

10-11-96 Spread soil out into soil farm

7-1-97 Spread out and fertilize - widen excavation.

7-16-97 Fill soil farm - fertilize

8-15-97 Contract Environmental Inc. came to till - soil had been bladed off edge of location
 - used 2 bottom breaking plow to turn the soil farms. (maps in file)

9-4-97 Continue excavation -
 N Bank - 12' 12.0 ppm
 N Bank 227 ppm
 NW Bank 17' corner 230 ppm
 N Bank 12' 54.0ppm
 NW Bank corner 17' 180ppm

Possible ground water-
Soil type changed at 16-17' to clay.
Values of pid dropped 100 ppm

Pid bottom 18' + 473 ppm (Pid)
Tph Lab 4655 418-1

OFF: (505) 325-5667



LAB: (505) 325-1556

AROMATIC VOLATILE ORGANICS

Attn: **Shawn Adams**
Company: **Contract Environmental Services, Inc.**
Address: **P.O. Box 505**
City, State: **Kirtland, NM 87417**

Date: **15-Oct-96**
COC No.: **4361**
Sample No. **12582**
Job No. **2-1000**

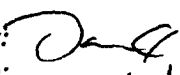
Project Name: **Louis Dreyfus - Federal 8-22**
Project Location: **FED8-100; Pit Bottom, ~18' deep**
Sampled by: **SA/JB**
Analyzed by: **DC**
Sample Matrix: **Soil**

Date: **10-Oct-96** Time: **14:47**
Date: **14-Oct-96**

Laboratory Analysis

Component	Result	Units of Measure	Detection Limit	Units of Measure
Benzene	694.6	ug/kg	0.2	ug/kg
Toluene	2121.1	ug/kg	0.2	ug/kg
Ethylbenzene	7170.1	ug/kg	0.2	ug/kg
m,p-Xylene	59880.3	ug/kg	0.2	ug/kg
o-Xylene	12871.0	ug/kg	0.2	ug/kg
TOTAL		82737.1		ug/kg

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

Approved by: 
Date: **10/15/96**

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OFF: (505) 325-5667



LAB: (505) 325-1556

TOTAL PETROLEUM HYDROCARBONS

Attn: **Shawn Adams**
 Company: **Contract Environmental Services, Inc.**
 Address: **P.O. Box 505**
 City, State: **Kirtland, NM 87417**

Date: **15-Oct-96**
 COC No.: **4361**
 Sample No. **12582**
 Job No. **2-1000**

Project Name: **Louis Dreyfus - Federal 8-22**
 Project Location: **FED8-100; Pit Bottom, ~18' deep**
 Sampled by: **SA/JB** Date: **10-Oct-96** Time: **14:47**
 Analyzed by: **HR** Date: **15-Oct-96**
 Sample Matrix: **Soil**

Laboratory Analysis

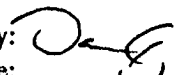
Parameter	Result	Detection Limit	Unit of Measure	Method
Total Petroleum Hydrocarbons, TPH	4655	25	mg/kg	EPA Method 418.1

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	855	828 - 1024	mg/kg

Duplication

Laboratory Identification	(% RSD)	Limit (% RSD)
12510-6006	3.3	15.0

Approved by: 
 Date: **10/15/96**

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**EPA METHOD 8015 Modified
Nonhalogenated Volatile Organics
Total Petroleum Hydrocarbons**

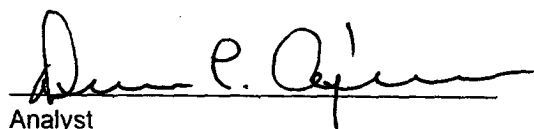
Client:	Dominion Exp. & Prod.	Project #:	03101-002
Sample ID:	Federal 8-22	Date Reported:	09-15-03
Laboratory Number:	26587	Date Sampled:	09-12-03
Chain of Custody No:	11312	Date Received:	09-12-03
Sample Matrix:	Soil	Date Extracted:	09-15-03
Preservative:	Cool	Date Analyzed:	09-15-03
Condition:	Cool and Intact	Analysis Requested:	8015 TPH

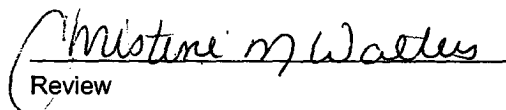
Parameter	Concentration (mg/Kg)	Det. Limit (mg/Kg)
Gasoline Range (C5 - C10)	ND	0.2
Diesel Range (C10 - C28)	ND	0.1
Total Petroleum Hydrocarbons	ND	0.2

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: **Federal 8-22.**


Analyst


Review

OFF: (505) 325-5667
FAX: (505) 327-1496



LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 12-Jan-02

Client:	Dominion Oklahoma Texas E&P, Inc.	Client Sample Info:	Federal 8-22
Work Order:	0112025	Client Sample ID:	Landfarm #1
Lab ID:	0112025-01A	Matrix:	SOIL
Project:	Federal 8-22 Landfarms	Collection Date:	12/18/2001 3:00:00 PM
		COC Record:	11609

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DDM
T/R Hydrocarbons: C10-C28	340	25		mg/Kg	1	1/11/2002
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DDM
T/R Hydrocarbons: C6-C10	ND	4.5		mg/Kg	25	12/20/2001

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

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1 of 1

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ANALYTICAL REPORT

Date: 12-Jan-02

Client:	Dominion Oklahoma Texas E&P, Inc.	Client Sample Info:	Federal 8-22
Work Order:	0112025	Client Sample ID:	Landfarm #2
Lab ID:	0112025-02A	Matrix:	SOIL
Project:	Federal 8-22 Landfarms	Collection Date:	12/18/2001 3:00:00 PM
		COC Record:	11609

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: DDM
T/R Hydrocarbons: C10-C28	ND	25		mg/Kg	1	1/11/2002
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DDM
T/R Hydrocarbons: C6-C10	ND	4.5		mg/Kg	25	12/20/2001

Qualifiers:

PQL - Practical Quantitation Limit

S - Spike Recovery outside accepted recovery limits

ND - Not Detected at Practical Quantitation Limit

R - RPD outside accepted recovery limits

J - Analyte detected below Practical Quantitation Limit

E - Value above quantitation range

B - Analyte detected in the associated Method Blank

Surr: - Surrogate

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ANALYTICAL REPORT

Date: 15-Dec-00

Client:	Louis Dreyfus Natural Gas	Client Sample Info:	Soil Samples
Work Order:	0012003	Client Sample ID:	Fed 8-22 Sample #1
Lab ID:	0012003-02A	Matrix:	SOIL
Project:	Soil Samples	Collection Date:	11/30/2000
		COC Record:	11038

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	560	25		mg/Kg	1	12/6/2000
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	12/4/2000

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

2 of 3

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LAB: (505) 325-1556
FAX: (505) 327-1496

ANALYTICAL REPORT

Date: 15-Dec-00

Client:	Louis Dreyfus Natural Gas	Client Sample Info:	Soil Samples
Work Order:	0012003	Client Sample ID:	Fed 8-22 Sample #2
Lab ID:	0012003-03A	Matrix:	SOIL
Project:	Soil Samples	Collection Date:	11/30/2000
		COC Record:	11038

Parameter	Result	PQL	Qual	Units	DF	Date Analyzed
DIESEL RANGE ORGANICS		SW8015B				Analyst: HR
T/R Hydrocarbons: C10-C28	210	25		mg/Kg	1	12/6/2000
GASOLINE RANGE ORGANICS		SW8015B				Analyst: DC
T/R Hydrocarbons: C6-C10	ND	0.18		mg/Kg	1	12/4/2000

Qualifiers:	PQL - Practical Quantitation Limit	S - Spike Recovery outside accepted recovery limits
	ND - Not Detected at Practical Quantitation Limit	R - RPD outside accepted recovery limits
	J - Analyte detected below Practical Quantitation Limit	E - Value above quantitation range
	B - Analyte detected in the associated Method Blank	Surr: - Surrogate

3 of 3

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