

**Jimmy Cooper #3 Closure Report
Duke Energy Field Services
Lea County, New Mexico**

SEPTEMBER 30, 2001

Prepared For:

**Duke Energy Field Services
P. O. Box 5493
Denver, CO 80217**

Site Name:

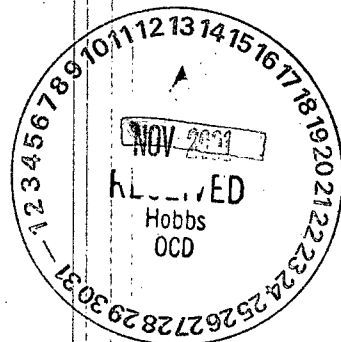
JIMMY COOPER #3 (JC#3)

Case Number:

1R0306

Site Location:

T20S, R37 E, SECTION 30, UNIT D



Prepared By:



**PO Box 7624
Midland, Texas 79708**



September 30, 2001

Mr. Steve Weathers
Duke Energy Field Services Inc.
P. O. Box 5493
Denver, Colorado 80217

Re: Removal of Hydrocarbon-Impacted Soils from the JC#3 site
Township 20 South, Range 37 East, Section 30, Unit D
Case # 1R0306

Dear Mr. Weathers:

TRW Inc. – Energy & Environmental Integration Services (TRW) was retained by Duke Energy Field Services Inc. (DEFS) to oversee the removal of hydrocarbon-impacted soil from an area along a pipeline right-of-way operated by DEFS near Monument, New Mexico in Lea County. The site (JC#3) is located in Section 30 (Unit D), Township 20 South, Range 37. The work was conducted between February 19 and March 28, 2001 in accordance with the revised work plan (March 19, 2001) submitted to Donna Williams at the New Mexico Oil Conservation Division (OCD) Hobbs, New Mexico office. Initially it was the understanding of DEFS that the subject property was owned or leased by Mr. Jimmy T. Cooper. However, it was later determined after initiation of remedial activities that the property is actually owned by the New Mexico State Land Office (SLO) and the surface is leased to Enron. In the revised work plan submitted to Donna Williams the legal description of the site was described as being located in Unit K, however it was later confirmed the actual unit letter is "D" as indicated on the attached documentation. TRW personnel periodically collected soil samples to characterize the extent of hydrocarbon-impact and to verify when cleanup target levels had been achieved. This letter report describes the methods and results of the excavation, sampling, waste disposition, and backfilling.

Excavation and Sampling Procedures

Allstate Services Environmental (Allstate) performed excavation. Allstate used one trackhoe, one dozer, and one loader for earthmoving services. An area was excavated where Mr. Cooper identified indications of hydrocarbon-impacted soils. During excavation operations, subsurface soil samples were collected and submitted to an analytical laboratory to characterize the approximate lateral and vertical extent of hydrocarbon-impacted soil in each area. Samples were collected by TRW with stainless steel trowels. Floor samples were collected as a composite sample consisting of five aliquots. Composite samples consisting of a minimum of three aliquots were also collected from each wall (north, south, east, and west), unless noted otherwise. During the course of excavation activities, samples were also collected for headspace analysis using an organic vapor meter (OVM), which was calibrated to assume a benzene response factor. All soil sampling, headspace analysis, and laboratory analysis were performed in accordance with OCD *"Guidelines for Remediation of Leaks, Spills, and Releases"* (August 13, 1993). Unless noted otherwise, excavation operations were completed when laboratory analysis of collected samples indicated the extent of hydrocarbon-impacted soils remaining in the excavation were below the following concentrations:

- 100 milligrams per kilogram (mg/kg) of total petroleum hydrocarbons (TPH),
- 10 mg/kg benzene,
- 50 mg/kg total benzene, toluene, ethylbenzene, and xylenes (BTEX)

Soil samples were submitted to Environmental Laboratory of Texas (Odessa, Texas) and analyzed for gas and diesel range organics (GRO and DRO) using EPA Method 8015 to determine TPH concentrations. BTEX analyses were conducted only for soil samples that exceeded 100 ppm using the calibrated OVM.

Soil Stockpiling, Waste Disposition, and Backfilling

An effort to segregate clean versus impacted soil during excavation was made. Only hydrocarbon-impacted soil that exceeded 100 mg/kg GRO/DRO, 10 mg/kg benzene, and/or 50 mg/kg total BTEX was transported to the C & C Landfarm. These target cleanup levels are based on the ranking criteria in the OCD "Guidelines for Remediation of Leaks, Spills, and Releases". A total ranking score of greater than 19 points was assumed since groundwater is less than 50 feet below ground surface based on well records from the Office of the State Engineer.

Approximately ~~6,930~~ cubic yards of hydrocarbon-impacted soils were transported by local hauling contractors (Allstate) to the C & C Landfarm, owned and operated by Mr. Jimmy T. Cooper (OCD Rule 711 Permit Approval NM-01-0016). Completed *Request for Approval to Accept Solid Waste* form (C-138), *Generator Certificate of Waste Status* form (C-143), and *Release Notification and Corrective Action* forms (C-141) are included in Attachment A. Approximately 7,224 cubic yards of native soil provided by Mr. Cooper was backfilled into the excavation to restore the excavation to a level grade. Allstate reseeded the topsoil on May 18, 2001.

Results

On April 4, 2001, Wayne Price (OCD Santa Fe office) granted permission to backfill the excavation due to safety concerns (suspended natural gas liquid pipeline with support lacking) with the understanding that DEFS may have to conduct further investigation and/or excavation in the future. At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the target values listed above with the exception of the following:

Sample Identification/Location	GRO (mg/kg)	DRO (mg/kg)	Benzene (mg/kg)	BTEX (mg/kg)
JC#3-w (E. Wall)	182	2557	< 0.025	0.173
JC#3-y (S. Floor 20')	47	584	< 0.025	0.837
JC#3-dd (SE Wall)	992	5227	< 0.050	14.062

Values in boldface type indicate concentrations above NMOCD guidelines.

Soil sample locations and site features are depicted on the site map in Attachment A. A Site Data Form that includes a summary of the analytical results and photo documentation are also provided in Attachment A. Laboratory analytical reports, and chain-of-custody documentation for the samples collected are provided in Attachment B. Copies of the field logbook are in Attachment C.

Sincerely,



Gilbert J. Van Deventer, REM
Project Manager

cc: Myra Meyers (New Mexico State Land Office, Hobbs, NM)
Attachments

ATTACHMENT A

TOPOGRAPHIC MAP

SITE MAP

SITE DATA FORM

SUMMARY OF ANALYTICAL RESULTS

C-138, C-141, AND C-143 FORMS

PHOTODOCUMENTATION



12" Poly Pipeline

Lease access road

Ltr	Type (Depth)	GRO (mg/kg)	DRO (mg/kg)
A	Floor (8')	< 10	< 10
B	Floor (2')	< 10	< 10
C	Floor (2')	63	447
D	Floor (3')	< 10	191
E	Floor (6.5')	78	393
F	Floor (7')	< 10	< 10
G	Floor (2')	< 10	< 10
H	Floor (3')	< 10	< 10
I	S. Wall	< 10	400
J	N. Wall	< 10	< 10
K	W. Wall	71	897
L	E. Wall	< 10	201
M	S. Wall	< 10	< 10
N	N. Wall	< 10	< 10
O	W. Wall	< 10	850
P	E. Wall	< 10	177
Q	Floor (8')	< 10	49
R	Floor (2')	< 10	264
S	W. Wall	< 10	32
T	N. Wall	< 10	< 10
U	E. Wall	< 10	< 10
V	S. Wall	< 10	< 10
W	Floor (3.5')	< 10	< 10
X	W. Wall	< 10	< 10
Y	E. Wall	< 10	< 10
Z	Floor (10')	17	456

Ltr	Sample Type (Depth)	GRO (mg/kg)	DRO (mg/kg)
a	Floor (12')	< 10	< 10
b	S. Wall	< 10	< 10
c	W. Wall	< 10	263
d	E. Wall	< 10	< 10
e	W. Wall	< 10	< 10
f	Floor (21-25')	< 10	< 10
g	Floor (23.5')	< 10	< 10
h	N. Wall	< 10	< 10
i	S. Wall	< 10	< 10
j	W. Wall	< 10	< 10
k	Floor (28')	< 10	< 10
l	Floor (15')	< 10	< 10
m	S. Wall	< 10	< 10
n	W. Wall	< 10	< 10
o	N. Wall	< 10	< 10
p	E. Wall	< 10	< 10
q	Floor (15')	< 10	< 10
u	Floor (17')	< 10	< 10
v	N. Wall	< 10	< 10
w	E. Wall	182	2557
x	S. Wall	< 10	< 10
y	Floor (20')	47	584
z	Floor (20')	< 10	133
aa	N. Wall	< 10	< 10
bb	NE Wall	< 10	< 10
cc	S. Wall	< 10	< 10
dd	SE Wall	992	5227

Samples in red type indicate GRO and/or DRO > 100 mg/kg

Trident Environmental

P. O. Box 7624
Midland, Texas 79708

SITE: JIMMY COOPER #3

LOCATION: UNIT D, SEC. 30, T20S, R37E

DATE: 3/28/01

DRN BY: GJV

APPROXIMATE SCALE: 1 INCH = 60 FEET

SITE MAP

RECEIVED
Hobbs
OCD



SITE DATA FORM

TRW Technician: JMF/GJV Excavation Crew Names: Allstate Services Environmental Site ID: Jimmy Cooper #3
Site Location: Latitude 32°33.7'N Longitude 103°19.5'W County: Lea State: New Mexico
Section 30 Township 20 South Range 37 East Unit D
Begin Excavation (Date/Time) 02/19/01 Complete Excavation (Date/Time) 03/28/01

LAND USE: ☐ Residential ☐ Recreational ☐ Farm land
(Check all that apply) ☐ Industrial ☐ School/Daycare ☒ Range land
☒ Oil & Gas ☐ Rural ☐ Other: _____

Depth to Groundwater: ☐ > 100 feet ☐ 50 - 99 ☒ < 50 feet
Wellhead Protection Area: ☒ > 1,000 feet from a water source ☐ < 200 feet from private domestic water source
Distance to Nearest Surface Water Body: ☒ > 1,000 feet ☐ 200 - 1,000 feet ☐ < 200 feet

SURFACE SOILS: ☒ Sand ☐ Gravel ☐ Silt
☐ Caliche ☐ Clay ☐ Other _____

EXCAVATION DIMENSIONS Length Variable feet Width Variable feet Average Depth Variable feet Maximum Depth 28 feet

VOLUME BACKFILLED: 2,224 yd³ **VOLUME HAULED TO LANDFARM:** 6,930 yd³

ANALYTICAL RESULTS

Sample Identification	Sample Date	GRO (mg/kg)	DRO (mg/kg)
JC#3-A (Floor) 8'	2/19/01	< 10	< 10
JC#3-B (Floor) 2'	2/19/01	< 10	< 10
JC#3-C (Floor) 2'	2/19/01	63	447
JC#3-D (Floor) 3'	2/19/01	< 10	191
JC#3-E (Floor) 6.5'	2/19/01	78	393
JC#3-F (Floor) 7'	2/20/01	< 10	< 10
JC#3-G (Floor) 2'	2/20/01	< 10	< 10
JC#3-H (Floor) 3'	2/20/01	< 10	< 10
JC#3-I (S. Wall)	2/20/01	< 10	400
JC#3-J (N. Wall)	2/20/01	< 10	< 10
JC#3-K (W. Wall)	2/20/01	71	897
JC#3-L (E. Wall)	2/20/01	< 10	201
JC#3-M (S. Wall)	2/20/01	< 10	< 10
JC#3-N (N. Wall)	2/20/01	< 10	< 10
JC#3-O (W. Wall)	2/20/01	< 10	850
JC#3-P (E. Wall)	2/20/01	< 10	177
JC#3-Q (Floor) 8'	2/21/01	< 10	49
JC#3-R (2')	2/21/01	< 10	264
JC#3-S (W. Wall)	2/22/01	< 10	32
JC#3-T (N. Wall)	2/22/01	< 10	< 10
JC#3-U (E. Wall)	2/22/01	< 10	< 10
JC#3-V (S. Wall)	2/22/01	< 10	< 10
JC#3-W (Floor) 3.5'	2/22/01	< 10	< 10
JC#3-X (W. Wall)	2/22/01	< 10	< 10
JC#3-Y (E. Wall)	2/22/01	< 10	< 10
JC#3-Z (Floor) 10'	2/22/01	17	456

Sample Identification	Sample Date	GRO (mg/kg)	DRO (mg/kg)
JC#3-a (Floor) 12'	2/26/01	< 10	< 10
JC#3-b (S. Wall)	2/26/01	< 10	< 10
JC#3-c (W. Wall)	2/26/01	< 10	263
JC#3-d (E. Wall)	2/26/01	< 10	< 10
JC#3-e (W. Wall)	2/27/01	< 10	< 10
JC#3-f (Floor 21-25')	3/15/01	< 10	< 10
JC#3-g (Floor 23.5')	3/15/01	< 10	< 10
JC#3-h (N. Wall)	3/15/01	< 10	< 10
JC#3-i (S. Wall)	3/15/01	< 10	< 10
JC#3-j (W. Wall)	3/15/01	< 10	< 10
JC#3-k Grab (Floor 28')	3/15/01	< 10	< 10
JC#3-l (Floor 15')	3/16/01	< 10	< 10
JC#3-m (S. Wall)	3/16/01	< 10	< 10
JC#3-n (W. Wall)	3/20/01	< 10	< 10
JC#3-o (N. Wall)	3/20/01	< 10	< 10
JC#3-p (E. Wall)	3/20/01	< 10	< 10
JC#3-q (Floor 15')	3/20/01	< 10	< 10
JC#3-u (Floor 17')	3/23/01	< 10	< 10
JC#3-v (N. Wall)	3/23/01	< 10	< 10
JC#3-w (E. Wall)	3/23/01	182	2557
JC#3-x (S. Wall)	3/23/01	< 10	< 10
JC#3-y (S. Floor 20')	3/28/01	47	584
JC#3-z (N. Floor 20')	3/28/01	< 10	133
JC#3-aa (N. Wall)	3/28/01	< 10	< 10
JC#3-bb (NE Wall)	3/28/01	< 10	< 10
JC#3-cc (S. Wall)	3/28/01	< 10	< 10
JC#3-dd (SE Wall)	3/28/01	992	5227

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

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
2040 South Pacheco
Santa Fe, NM 87505

Form C-141
Revised March 17, 1999

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

Release Notification and Corrective Action

OPERATOR

☐ Initial Report ☒ Final Report

Name of Company Duke Energy Field Services Inc.	Contact Mr. Steve Weathers
Address P. O. Box 5493, Denver, Colorado 80217	Telephone No. (303) 605-1718
Facility Name Site Name: JC #3	Facility Type Natural Gas Pipeline

Surface Owner New Mexico (State Land Office)	Mineral Owner Unknown	Lease No.
---	--------------------------	-----------

LOCATION OF RELEASE

Unit Letter	Section	Township	Range	Feet from the North/South Line	Latitude	Feet from the East/West Line	Longitude	County
D	30	20S	37E		32° 33.7' N		103° 19.5' W	Lea

NATURE OF RELEASE

Type of Release Condensate	Volume of Release Unknown	Volume Recovered 20790' ~6,930 yd ³ soil removed
Source of Release Pipeline	Date and Hour of Occurrence Unknown	Date and Hour of Discovery Unknown
Was Immediate Notice Given? <input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Not Required	If YES, To Whom? Donna Williams, NMOCD District 1	
By Whom? Steve Weathers	Date and Hour	
Was a Watercourse Reached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	If YES, Volume Impacting the Watercourse. N/A	

If a Watercourse was Impacted, Describe Fully.*

N/A

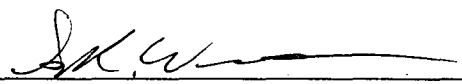
Describe Cause of Problem and Remedial Action Taken.*

Historical condensate release caused by external corrosion of steel pipeline in subsurface. Original 12" steel pipeline was replaced with 12" plastic Drisco line prior to initiation of over-excavation work. Removal of impacted soil requested by Jimmy Cooper who claimed to be landowner/leaseholder, however it was later determined that he was not the landowner or leaseholder.

Describe Area Affected and Cleanup Action Taken.*

On 2/19/01 over-excavation was initiated. Excavation continued until 3/28/01. At the completion of excavation activities all areas had GRO and DRO concentrations on floors and walls below 100 mg/kg, with the exception of the east wall (GRO=182, DRO=2557), south floor 20' (DRO=584) and southeast wall (GRO=992, DRO=5227) of the easternmost excavation. Excavation dimensions varied because there were six separate areas being excavated (map attached). Approx. 6,930 cu yds of soil was transported to the C&C Landfarm. Backfilling of excavation and re-seeding of area was completed on 5/18/01. Closure report, analytical results, photographs, and site map are attached.

I hereby certify that the information given above is true and complete to the best of my knowledge and understand that pursuant to NMOCD rules and regulations all operators are required to report and/or file certain release notifications and perform corrective actions for releases which may endanger public health or the environment. The acceptance of a C-141 report by the NMOCD marked as "Final Report" does not relieve the operator of liability should their operations have failed to adequately investigate and remediate contamination that pose a threat to ground water, surface water, human health or the environment. In addition, NMOCD acceptance of a C-141 report does not relieve the operator of responsibility for compliance with any other federal, state, or local laws and/or regulations.

Signature: 	OIL CONSERVATION DIVISION	
Printed Name: Stephen Weathers	Approved by District Supervisor:	
Title: Environmental Specialist	Approval Date:	Expiration Date:
Date: 11/9/01	Phone: (303) 605-1718	Conditions of Approval:
		Attached <input type="checkbox"/>

* Attach Additional Sheets If Necessary

I - (505) 393-6161
Box 1980
S. NM 88241-1980
II - (505) 748-1283
First
NM 88210
III - (505) 334-6178
Pro Brazos Road
NM 87410
IV - (505) 827-7131

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-138
Originated 8.8.97

Submit Original
Plus 1 Copy
to appropriate
District Office

REQUEST FOR APPROVAL TO ACCEPT SOLID WASTE

RCRA Exempt: <input checked="" type="checkbox"/> Non-Exempt: <input type="checkbox"/>	4. Generator <i>DUKE ENERGY FS.</i>
Verbal Approval Received: Yes <input type="checkbox"/> No <input type="checkbox"/>	5. Originating Site <i>CATHERINE LINE</i>
Management Facility Destination <i>C & C LANDFARM</i>	6. Transporter <i>ALLSTATE ENV.</i>
Address of Facility Operator <i>MONUMENT, NM</i>	8. State <i>NM</i>
Location of Material (Street Address or ULSTR) <i>E-30-205-37E</i>	

Circle One:

- A. All requests for approval to accept oilfield exempt wastes will be accompanied by a certification of waste from the Generator; one certificate per job.
- B. All requests for approval to accept non-exempt wastes must be accompanied by necessary chemical analysis to PROVE the material is not-hazardous and the Generator's certification of origin. No waste classified hazardous by listing or testing will be approved.

All transporters must certify the wastes delivered are only those consigned for transport.

BRIEF DESCRIPTION OF MATERIAL: *EXEMPT OIL CONTAMINATED SOIL FROM
LINE LEAK*

Estimated Volume _____ cy Known Volume (to be entered by the operator at the end of the haul) _____ cy

SIGNATURE: *Jim Cooper* TITLE: *President* DATE: *2/20/01*
Waste Management Facility Authorized Agent
TYPE OR PRINT NAME: *Jim Cooper* TELEPHONE NO. *397-2045*

This space for State Use)

APPROVED BY: *Chris Miller* TITLE: *Assistant* DATE: *2/20/01*

1625 N. French Dr
Hobbs, NM 88240
District II - (505) 748-1283
811 S. First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV - (505) 827-7131
2040 S. Pacheco
Santa Fe, NM 87505

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

Form C-143
3/15/00

Submit to OCD
Permitted Surface
Waste Management
Facility

GENERATOR CERTIFICATE OF WASTE STATUS

1. Waste Generator Name and Address:

Duke Energy Field Services
PO Box 5493
Denver, CO 80217

2. Permit Number (if waste generated at an OCD
permitted facility)

3. Description of Waste and Generating Process:

Historic line leak
Exempt oil field waste

4. Location of Waste (Street address &/or ULSTR):

See 30 T205, R37E
(Unit E)

5. Destination (Surface Waste Management Facility):

C & C Land Farm, Monument, NM

6. Transporter:

7. Estimated Volume 1000 (cy/bbls)

For NON-EXEMPT waste only, the following documentation is attached (check appropriate items):

_____ MSDS Information

_____ RCRA Hazardous Waste Analysis (With Chain of Custody).

_____ Other (Description)

Generator certifies that, according to the Resource Conservation and Recovery Act (RCRA) and the Environmental Protection Agency's July 1988 regulatory determination, the above described waste is: (check appropriate classification)

☒ EXEMPT oilfield waste.

☐ NON-EXEMPT oilfield waste that is non-hazardous
pursuant to 40 CFR Part 261. (Attach appropriate
documentation)

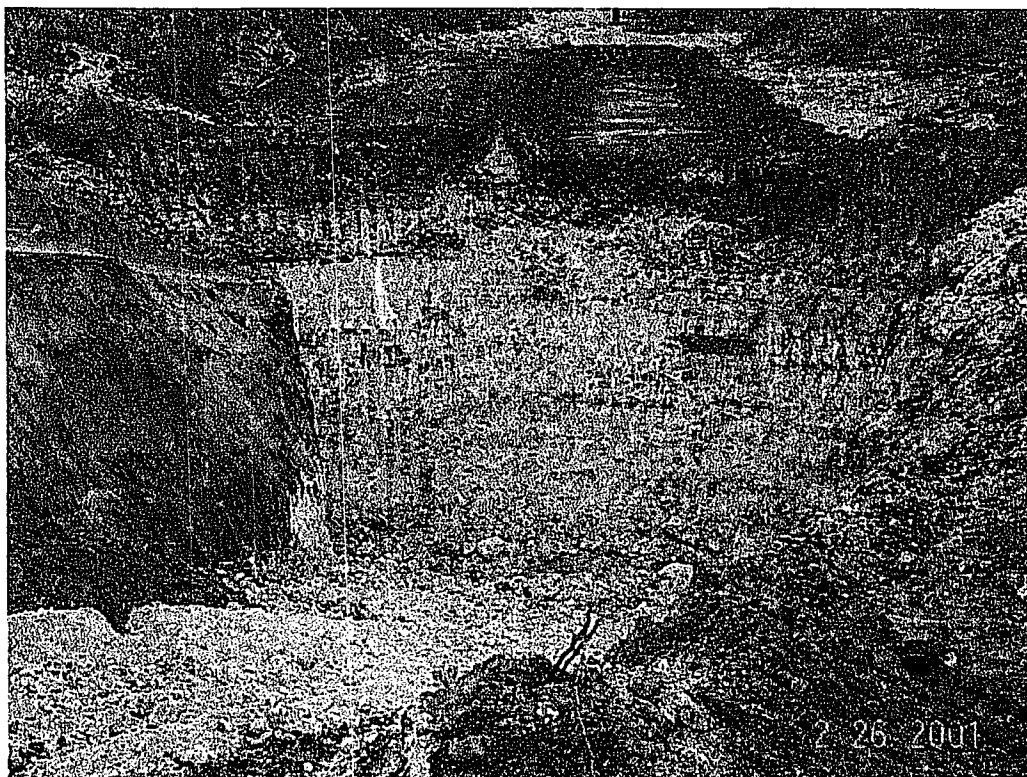
In addition, Generator certifies that nothing has been added to this exempt or non-exempt non-hazardous waste and that this waste does not contain Naturally Occurring Radioactive Material (NORM) regulated pursuant to 20 NMAC 3.1 Subpart 1403.

Generator Signature: Steve Weathers

Date: 2/19/01

Print Name: Steve Weathers

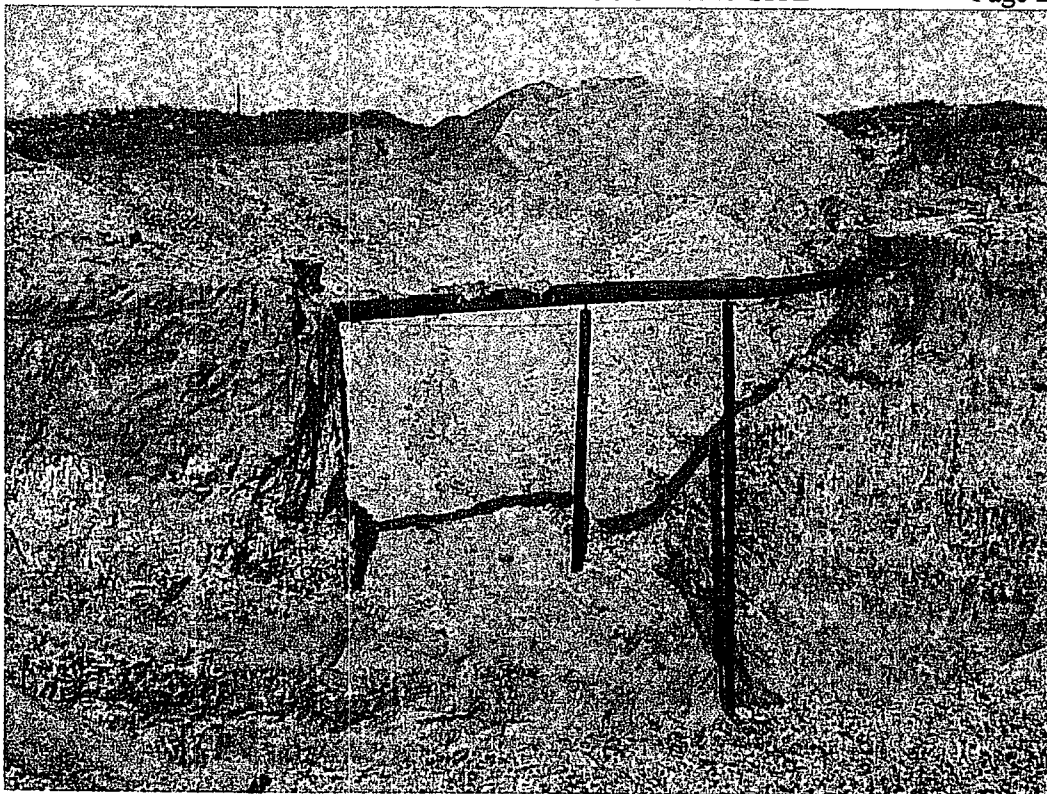
Title: Env Specialist



JC3-25 View facing south showing southernmost excavation at JC#3 site

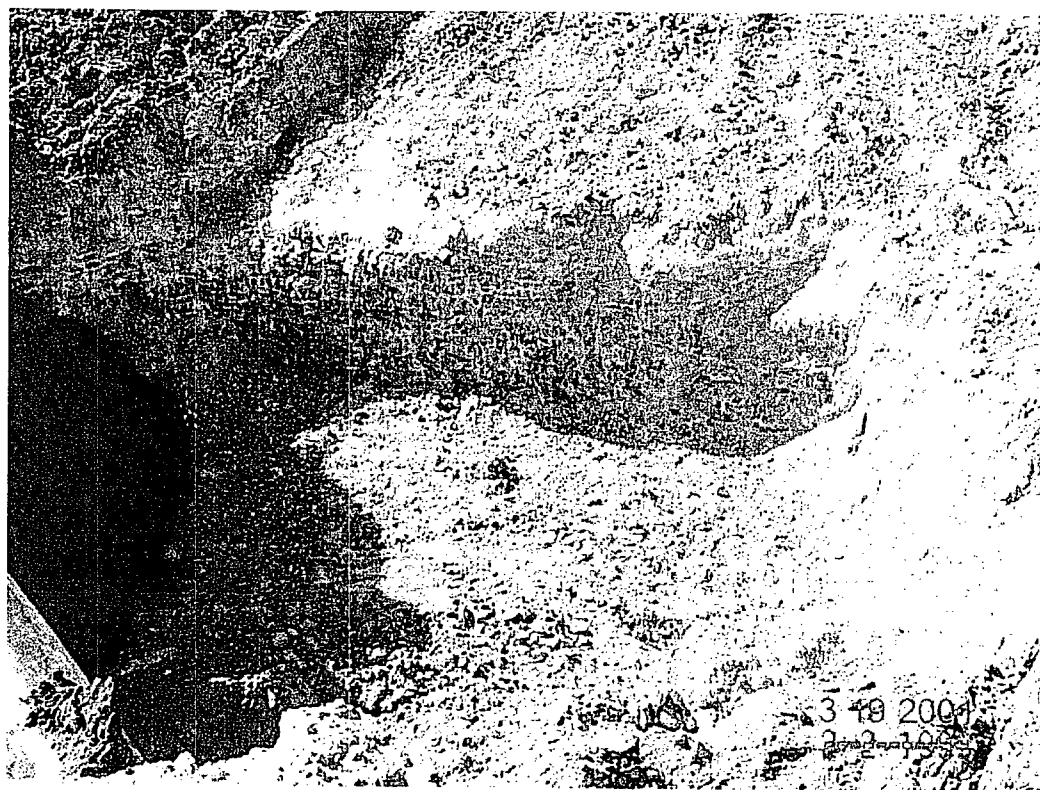


JC3-28 View facing south of excavation just to the south of pipeline right of way.



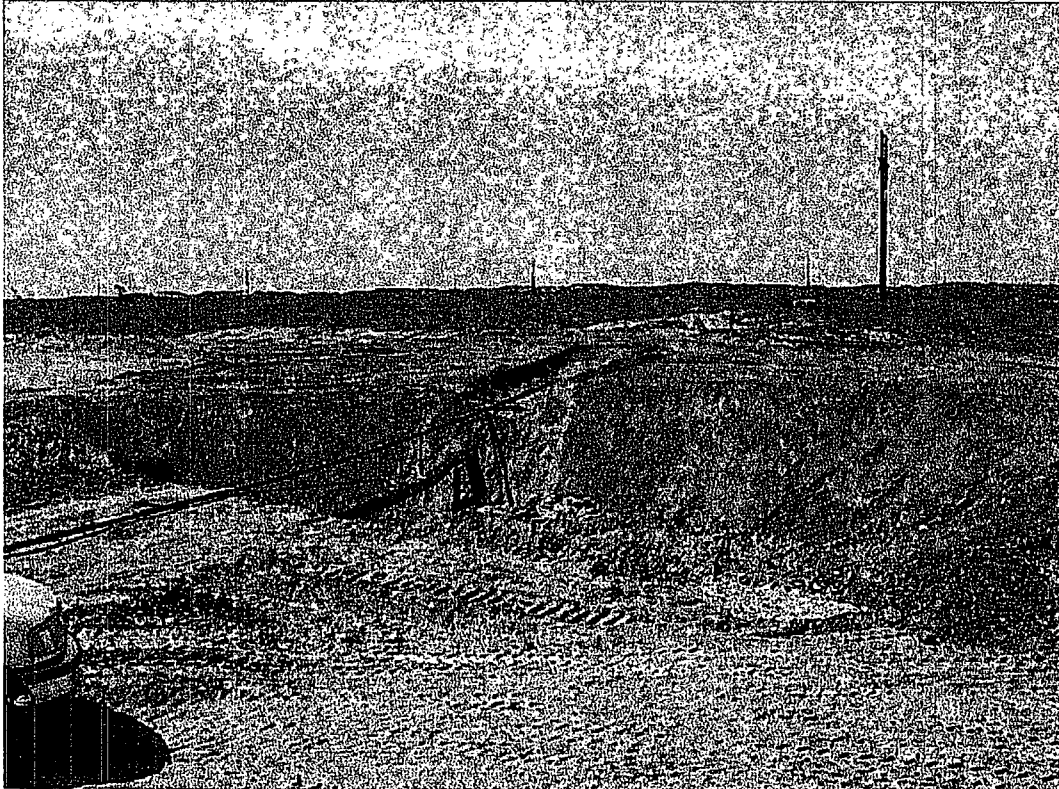
JC3-62

View facing NE of westernmost excavation beneath pipeline.



JC3-64

Floor of westernmost excavation beneath pipeline.

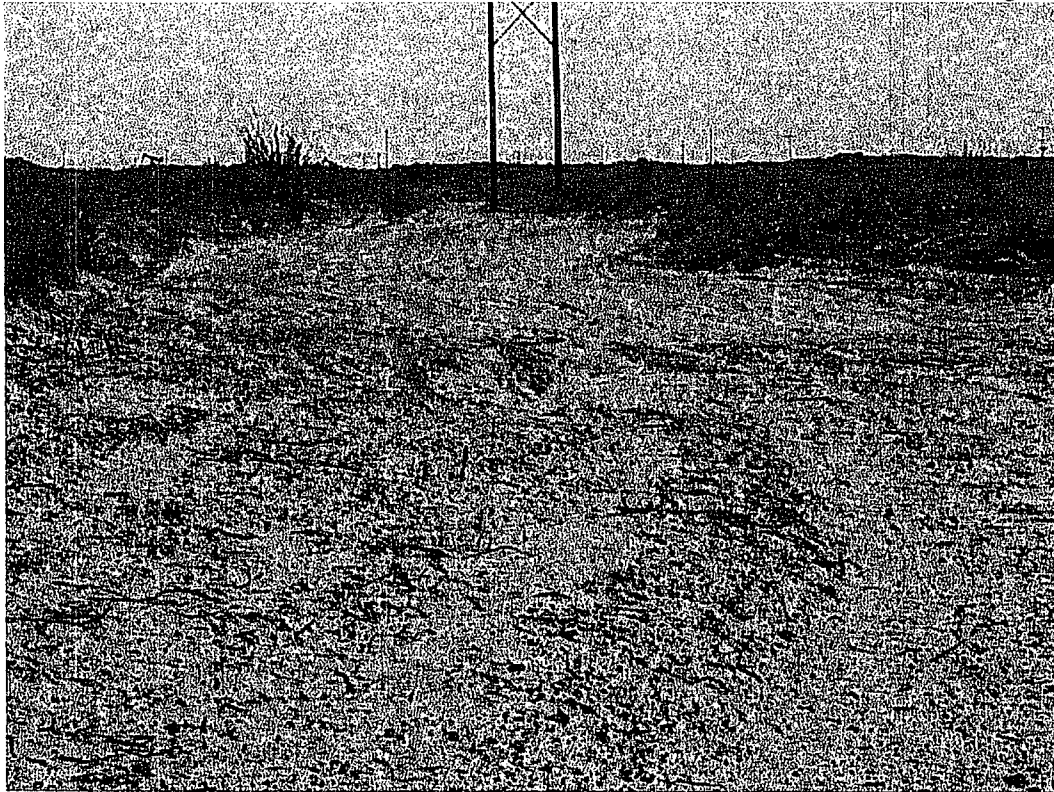


JC3-70

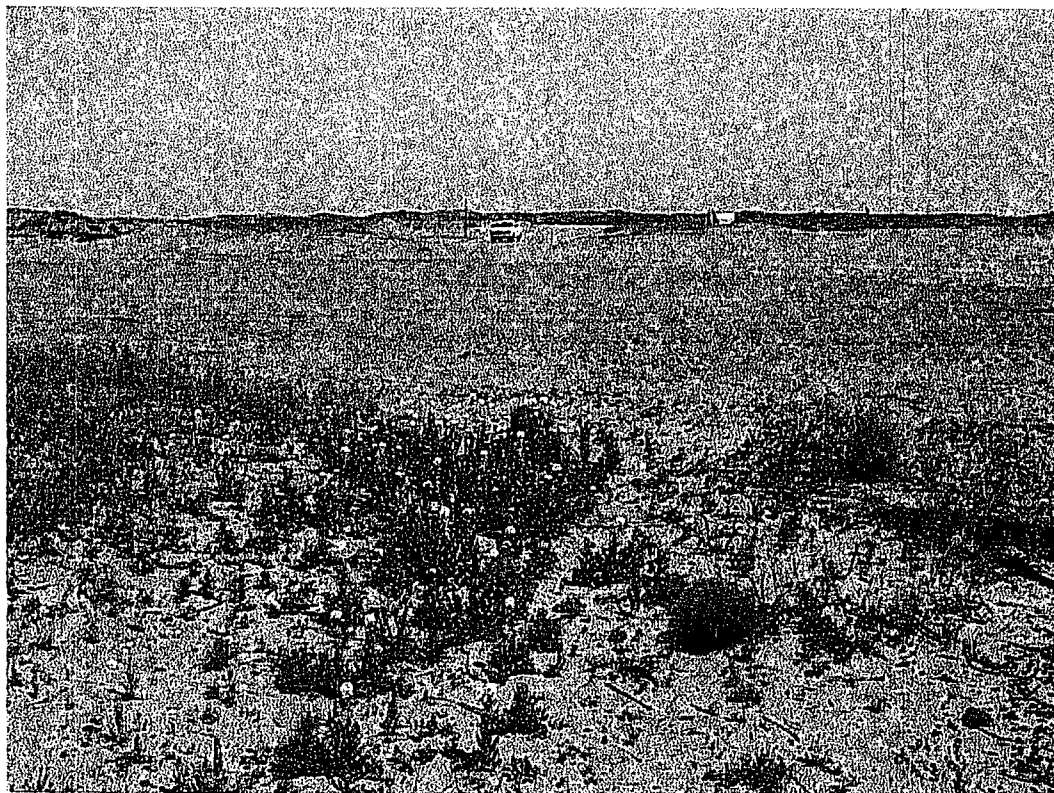
View facing southwest showing continued excavation towards the east after backfilling westernmost excavation and placing pipeline support.



JC3-87 View facing southeast showing floor, east and south walls of easternmost excavation.



JC3-841 View facing southwest showing backfilled area of excavated areas south of the pipeline.



JC3-840 View facing east showing backfilled area of northern excavated areas.

ATTACHMENT B

**LABORATORY ANALYTICAL REPORTS
AND
CHAIN-OF-CUSTODY DOCUMENTATION**

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 1 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field services
Project Location: Sec 30 T20S R37E

Sampling Date: 02/19/01
Receiving Date: 02/19/01
Analysis Date: 02/19/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37486	JC #3-A (Floor) 8'	<10	<10
37487	JC #3-B (Floor) 2'	<10	<10
37488	JC #3-C (Floor) 2'	63	447
37489	JC #3-D (Floor) 3' <i>band</i>	<10	191
37490	JC #3-E (Floor) 6 1/2'	78	393
37491	JC #3 Exc. Soil-AE	164	550
37492	JC #3 Ec. Soil-BCD	89	591
	% IA	99	93
	%EA	93	85
	BLANK	<10	<10

Methods: EPA SW. 846-8015M GRO/DRO


Ralanda K. Tuttle

2-20-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

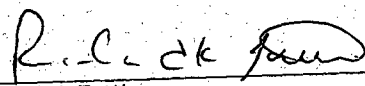
Sample Type: Soil
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: P/6846/1C
Project Name: Duke Energy Field Services
Project Location: Sec 30 T20S R37E

Sampling Date: 02/19/01
Receiving Date: 02/19/01
Analysis Date: 02/19/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
37491	JC #3 Exc. Soil-AE	<0.025	0.055	0.232	0.242	<0.025
37492	JC #3 Exc. Soil-BCD	<0.025	<0.025	<0.025	<0.025	<0.025

%IA	90	94	95	92	94
%EA	91	93	97	94	97
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

2-20-01
Date



Chain of Custody

Date 2-19-01 Page 1 of 1

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"


TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 1.5 deg C
Project #: P/6846/1C
Project Name: Jimmy Cooper #3
Project Location: Unit E, Sec 30, T20S, R37E

Sampling Date: 02/20/01
Receiving Date: 02/21/01
Analysis Date: 02/21/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37508	JC-3F (Floor) (3')	10	541
37509	JC-3G (Floor) (2')	<10	<10
37510	JC-3H (Floor) (3')	<10	<10
% IA		93	87
%EA		114	110
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

2-26-01
Date



Chain of Custody

Date 2/20/01 Page 1 of 2

[illegible]

0935

Distribution: White, Canary-Laboratory / Pink-TRW

ENVIRONMENTAL LAB OF , Inc.

"Don't Treat Your Soil Like Dirt!"

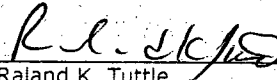
TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 1.5 deg C
Project #: P/6846/1C
Project Name: Jimmy Cooper No.3
Project Location: Unit E, Sec 30, T20S, R37E

Sampling Date: 02/20/01
Receiving Date: 02/21/01
Analysis Date: 02/21/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37511	JC3-I (South Wall)	<10	400
37512	JC3-J (North Wall)	<10	<10
37513	JC3-K (West Wall)	71	897
37514	JC3-L (East Wall)	<10	201
37515	JC3-M (South Wall)	<10	<10
37516	JC3-N (North Wall)	<10	<10
37517	JC3-O (West Wall)	<10	850
37518	JC3-P (East Wall)	<10	177
% IA		93	87
%EA		114	110
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

2-26-01
Date



TRW Inc.
Energy & Environmental Systems
415 West Wall St. Suite. 1818
Midland, Texas 79701
(915) 682-0008
FAX: (915) 682-0028

No 13620

Chain of Custody

Date 2/20/01 Page 2 of 2

Lab Name: <u>Environmental Labs of Texas</u> Address: <u>12600 W I 20 E</u> <u>Odessa, TX 79765</u> Telephone: <u>915/563-1800</u>				Analysis Request																								
Samplers (SIGNATURES) <u>Dore T. Littlejohn</u>				BTEX (EPA 8021B)	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	TPH (TX-1005)	TPH (TX-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Total Metals	TCLP Metals											Number of Containers
Sample Identification	Matrix	Date	Time																									
JC3-I (South Wall)	Soil	2/20/01	1658									✓	✓															1
JC3-J (North Wall)	"	"	1659									✓	✓															1
JC3-K (West Wall)	"	"	1700									✓	✓															1
JC3-L (East Wall)	"	"	1701									✓	✓															1
JC3-M (South Wall)	Soil	2/20/01	1710									✓	✓															1
JC3-N (North Wall)	"	"	1711									✓	✓															1
JC3-O (West Wall)	"	"	1712									✓	✓															1
JC3-P (East Wall)	"	"	1713									✓	✓															1
Project Information				Sample Receipt		Relinquished By:		(1)		Relinquished By:		(2)		Relinquished By:		(3)												
Project Name: <u>Jimmy Cooper No. 3</u>				Total Containers: <u>8</u>		Signature: <u>Dore T. Littlejohn</u>		(Time)		Signature: _____		(Time)		Signature: _____		(Time)												
Project Location: <u>Unit E, Sec. 30 T20S, R37E</u>				DOC Seals: _____		Signature: <u>Dore T. Littlejohn</u>		(Time)		Signature: _____		(Time)		Signature: _____		(Time)												
Project Manager: <u>Gil Van Deventer</u>				Rec'd Good Cond/Cold: <u>15°C</u>		Signature: <u>TRW</u>		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
Cost Center No.: <u>P/6846/1C</u>				Conforms to Records: _____		Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
Shipping ID No.: <u>Hand Delivered</u>				Lab No.: _____		Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
P O No.: _____						Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
Special Instructions/Comments: <u>Bill Direct To:</u>						Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
<u>Duke Energy Field Services, Attn. Steve</u>						Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
<u>P.O. Box 5493, Denver CO. 80217</u>						Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												
						Signature: _____		(Date)		Signature: _____		(Date)		Signature: _____		(Date)												

0835

Distribution: White, Canary-Laboratory / Pink-TRW

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

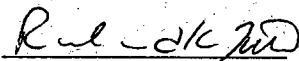
Sample Type: Soil
Sample Condition: Intact/Iced/ 1 deg C
Project #: P/6846/1C
Project Name: Jimmy Cooper #3
Project Location: Unit E, Sec 30, T20S, R37E

Sampling Date: 02/21/01
Receiving Date: 02/21/01
Analysis Date: 02/21/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37569	QC (Floor) 8'	<10	49
37570	R (2')	<10	264

% IA	93	87
%EA	114	110
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

2-26-01
Date



Chain of Custody

Date 2-21-01 Page 1 of 1

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

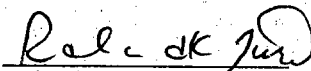
Sample Type: Soil
Sample Condition: Intact/Iced/ -2.0 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services
Project Location: Sec 30, T20S, R37E

Sampling Date: 02/23/01
Receiving Date: 02/23/01
Analysis Date: 02/23/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37598	JC #3-S (W.Wall)	<10	32
37599	JC #3-T (N. Wall)	<10	<10
37600	JC #3-U (E. Wall)	<10	<10
37601	JC #3-V (S. Wall)	<10	<10
37602	JC #3-W (Floor) 3.5'	<10	<10
37603	JC #3-X (W. Wall)	<10	<10
37604	JC #3-Y (E. Wall)	<10	<10
37605	JC #3-Z (Floor) 10'	17	456

% IA	119	112
%EA	117	107
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

2-26-01
Date



TRW Inc.
Energy & Environmental Systems
415 West Wall St. Suite. 1818
Midland, Texas 79701
(915) 682-0008
FAX: (915) 682-0028

No 13599

Chain of Custody

Date 2/22/01 Page 1 of 1

Lab Name: <u>Environmental Lab of Texas</u> Address: <u>12600 W. I-20 E</u> <u>Odessa, TX 79765</u> Telephone: <u>915/563-1800</u>				Analysis Request																									
Samplers (SIGNATURES) <u>John Ferguson</u>				BTEX (EPA 8021B)	MTBE (EPA 8021B)	SVOC (EPA 8270)	PAH (EPA 8270)	VOC (EPA 8260)	TPH (EPA 418.1)	TPH (TX-1005)	TPH (TX-1006)	GRO (EPA 8015G)	DRO (EPA 8015D)	TDS (EPA 160.1)	Anions/Cations	Total Metals	TCLP Metals											Number of Containers	
Sample Identification	Matrix	Date	Time																										
JC#3-S (W. Wall)	Soil	2/23/01	0930									✓	✓						37598									1	
JC#3-T (N. Wall)	Soil	2/23/01	0940									✓	✓						37599									1	
JC#3-U (E. Wall)	Soil	2/23/01	0950									✓	✓						37600									1	
JC#3-V (S. Wall)	Soil	2/23/01	1000									✓	✓						37601									1	
JC#3-W (Floor) 3.5'	Soil	2/23/01	1015									✓	✓						37602									1	
JC#3-X (W. Wall)	Soil	2/23/01	1130									✓	✓						37603									1	
JC#3-Y (E. Wall)	Soil	2/23/01	1140									✓	✓						37604									1	
JC#3-Z (Floor) 10'	Soil	2/23/01	1150									✓	✓						37605									1	
Project Information				Sample Receipt		Relinquished By:		(1)		Relinquished By:		(2)		Relinquished By:		(3)													
Project Name: <u>Duke Energy Field Services</u>				Total Containers: <u>8</u>		Signature: <u>John Ferguson</u>		1518		Signature: _____		_____		Signature: _____		_____													
Project Location: <u>Sec 30, T20S, R37E</u>				COC Seals: _____		Date: <u>2/23/01</u>		_____		Date: _____		_____		Date: _____		_____													
Project Manager: <u>Gil Van Deventer</u>				Rec'd Good Cond/Cold: <u>20</u>		Signature: <u>TRW Inc</u>		_____		Signature: _____		_____		Signature: _____		_____													
Cost Center No.: <u>P/6846/1C</u>				Conforms to Records: _____		Date: _____		_____		Date: _____		_____		Date: _____		_____													
Shipping ID No.: _____				Lab No.: _____		Received By: _____		(1)		Received By: _____		(2)		Received By: _____		(3)													
P O No.: _____						Signature: <u>Jeanne McMurray</u>		_____		Signature: _____		_____		Signature: _____		_____													
Special Instructions/Comments: <u>Please Invoice to:</u>						Signature: <u>Jeanne McMurray</u>		_____		Signature: _____		_____		Signature: _____		_____													
<u>Duke Energy Field Services</u>						Date: _____		_____		Date: _____		_____		Date: _____		_____													
<u>Attn: Steve Weathers</u>						Signature: _____		_____		Signature: _____		_____		Signature: _____		_____													
<u>P.O. Box 5493, Denver, CO 80217</u>						Date: <u>2-23-01</u>		1518		Date: _____		_____		Date: _____		_____													

* RUSH BY MON 3/26 AM

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

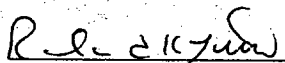
TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 6.5 deg. C
Project #: P/6846/1C
Project Name: Duke Energy Field Services
Project Location: Sec 30, T20S, R37E

Sampling Date: 02/26/01
Receiving Date: 02/26/01
Analysis Date: 02/27/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
37666	JC #3-a (Floor) 12'	<10	<10
37667	JC #3-b (S. Wall)	<10	<10
37668	JC #3-c (W. Wall)	<10	263
37669	JC #3-d (E. Wall)	<10	<10
% IA		99	90
%EA		89	110
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

2-27-01
Date



Chain of Custody

Date 2/26/01 Page 1 of 1

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

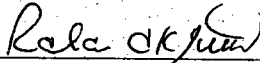
Sample Type: Soil
Sample Condition: Intact/Iced/ -3 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services
Project Location: Sec 30, T20S, R37E

Sampling Date: 02/27/01
Receiving Date: 02/28/01
Analysis Date: 02/28/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
37758	JC #3-e (W. Wall)	<10	<10

% IA	111	108
%EA	117	99
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-01-01
Date



Chain of Custody

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

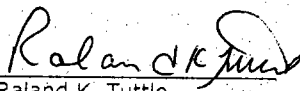
TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TX. 79701
FAX: 682-0028

Sample Type: Soil
Sample Condition: Intact/ Iced/ 1 deg C
Project #: P/6846/1C
Project Name: Jimmy Cooper Site #3
Project Location: Sec. 30, T20S, R37E

Sampling Date: 03/15/01
Receiving Date: 03/15/01
Analysis Date: 03/15/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
38231	JC#3-k Grab (Floor 28')	<10	<10
38232	JC#3-f (Floor 21-25')	<10	<10
38233	JC#3-g (Floor 23.5)	<10	<10
38234	JC#3-h (N. Wall)	<10	<10
38235	JC#3-I (S. Wall)	<10	<10
38236	JC#3-j (W. Wall)	<10	<10
% IA		89	112
%EA		92	112
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-16-01
Date



Chain of Custody

Date 3/15/01 Page 1 of 1

[illegible]

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

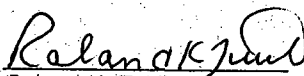
Sample Type: Soil
Sample Condition: Intact/Iced/ 1.0 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services / Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/16/01
Receiving Date: 03/16/01
Analysis Date: 03/18/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
38322	JC#3-1 (Floor 15')	<10	<10
38323	JC#3-M (S. Wall)	<10	<10
38324	JC#3-Soil Pile #1 (Native Backfill)	<10	<10
38325	JC#3-Soil Pile #2 (Native Backfill)	<10	<10

% IA	99	112
%EA	94	107
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-19-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

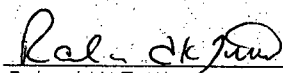
Sample Type: Soil
Sample Condition: Intact/Iced/ -2 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services / Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/20/01
Receiving Date: 03/20/01
Analysis Date: 03/20/01

ELT#	FIELD CODE	GRO	DRO
		C6-C10 mg/kg	>C10-C28 mg/kg
38360	JC #3-N (W. Wall)	<10	<10
38361	JC #3-O (N. Wall)	<10	<10
38362	JC #3-P (E. Wall)	<10	<10
38363	JC #3-Q (Floor 15')	<10	<10
38364	JC #3-Local (Backfill)	<10	<10

% IA	92	110
%EA	100	115
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-21-01
Date



Chain of Custody

Date 3/20/01 Page 1 of 1

[illegible]



Chain of Custody

Date 3/16/01 Page 1 of 1

[illegible]

Distribution: White, Canary-Laboratory / Pink-TRW

Rush Montana AM

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 1 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services / Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/27/01
Receiving Date: 03/27/01
Analysis Date: 03/27/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
38554	JC#3 (Contaminated Soil)	380	1504

% IA	99	113
%EA	86	101
BLANK	<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-28-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 682-0028

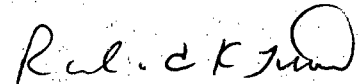
Sample Type: Soil
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: P/6846/1C
Project Name: Duke Energy Field Services, Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/27/01
Receiving Date: 03/27/01
Analysis Date: 03/29/01

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
38554	JC#3 (Contaminated Soil)	<0.025	1.14	1.56	3.76	0.554

%IA	91	95	100	107	100
%EA	85	87	92	98	94
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

3-30-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 682-0028

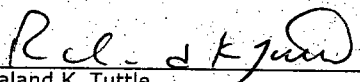
Sample Type: Soil
Sample Condition: Intact/ Iced/ 1 deg. C
Project #: P/6846/1C
Project Name: Duke Energy Field Services/ Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/23/01
Receiving Date: 03/23/01
Analysis Date: 03/23/01

ELT #	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
38408	JC#3-W (E. Wall)	<0.025	<0.025	0.047	0.126	<0.025

%IA	93	96	99	105	99
%EA	88	90	92	97	93
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

3-26-01
Date



Chain of Custody

Date 3/23/01 Page 1 of 1

[illegible]

NEED BY 8 AM MONDAY

Distribution: White, Canary-Laboratory / Pink-TRW

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

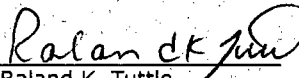
TRW INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 915-682-0028

Sample Type: Soil
Sample Condition: Intact/Iced/ 0.5 deg C
Project #: P/6846/1C
Project Name: Duke Energy Field Services / Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/28/01
Receiving Date: 03/29/01
Analysis Date: 03/29/01

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg
38620	JC#3-Y (SOUTH FLOOR 20')	47	584
38621	JC#3-Z (NORTH FLOOR 20')	<10	133
38622	JC#3-aa (NORTH WALL)	<10	<10
38623	JC#3-bb (NORTH-EAST WALL)	<10	<10
38624	JC#3-cc (SOUTH WALL)	<10	<10
38625	JC#3-dd (SOUTH-EAST WALL)	992	5227
% IA		93	109
%EA		114	111
BLANK		<10	<10

Methods: EPA SW 846-8015M GRO/DRO


Raland K. Tuttle

3-30-01
Date

ENVIRONMENTAL LAB OF , INC.

"Don't Treat Your Soil Like Dirt!"

TRW, INC.
ATTN: MR. GILBERT VAN DEVENTER
415 WEST WALL ST., STE. 1818
MIDLAND, TEXAS 79701
FAX: 682-0028

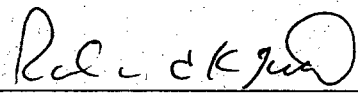
Sample Type: Soil
Sample Condition: Intact/ Iced/ 0.5 deg. C
Project #: P/6846/1C
Project Name: Duke Energy Field Services/ Jimmy Cooper Site #3
Project Location: Sec 30, T20S, R37E

Sampling Date: 03/28/01
Receiving Date: 03/29/01
Analysis Date: 03/30/01

ELT #	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
38620	JC#3-Y (South Floor 20')	<0.025	0.083	0.120	0.347	0.287
38625	JC#3-dd (South-East Wall)	<0.050	3.33	2.74	7.14	0.852

%IA	97	102	107	114	108
%EA	90	94	99	106	100
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025

METHODS: EPA SW 846-8021B ,5030


Raland K. Tuttle

3-31-01
Date



Chain of Custody

Date 3/29/01 Page 1 of 1

Distribution: White, Canary-Laboratory / Pink-TRW

ATTACHMENT C

FIELD BOOK NOTES

3/23/01

0900 Left Midland for JC#3 Site

- Stopped for Fuel + Field Supplies

¹⁰³⁰
~~0930~~ Arrive @ Project Location

- Allstate Working on Lease Road to Site In Anticipation of Rain

- Have Also Excavated Back To The East

Objective: Oversight of Excavation Activity + Collection of Soil Samples

Equipment: PPE, Decon, Camera, OVI, Measuring Wheel, Soil Sampling Kit

Weather: Mostly Sunny + Clear, Warm (Temp \approx 60°F), Mild SW Winds

Personnel: John Fergerson - TRW

- Allstate: 3 Men @ Location

Allstate Equipment:

- ① John Deere Tractor - 230LC

1 John Deere Backhoe - 410 E

1 John Deere Loader -

1 John Deere Dozer -

Sample Collection

Sample Location	Desc	Letter	Depth	Time	PIID
Floor	Comp	U	17'	1100	0.6
W. Wall	Comp	V	-	1110	0.8
E. Wall	Comp	W	-	1120	9.6

} JMF }

3/23/01

Sample Location	Desc	Letter	Depth	Time	PID
E. Wall	Comp	X	-	1130	0.9

* No Trucking Activity + Very Little

Excavation Activity Took Place Today

1155 Left Location For CC#3 Site

1200 Arrive CC#3 Site

Objective: Same

Equipment: Same

Weather: Same

Personnel: John Ferguson - TRW

- Walton - 4 men on location

- Excavation + Trucking of Contaminated Soil in Progress Upon Arrival

- Excavation on West Side of Pipeline

Has Widened to 50', and Has a Depth of 27' (Northwest Corner of Excavation)

* Some Concern Over Tank Located West of Lease Road May Have Caused or Contributed to Contamination

- Observations: ① Encrusted Soil to West + NW of Tank, ② No Clamps Have Been Located on Pipeline, ③ Heavy Black Stain Just Beneath Pipeline w/ Strong Odor + Green Stain w/ Strong Odor @ Western Margin of Excavation

3/23/01

- Had Walton Make Small Excavation \approx 7 Feet From East Edge of Lease Road.

- Dark Green Stain Seen in Soil

- Collected Floor (Grab) Sample @ 15'

- Collected Floor (Grab) Sample @ 20'

- Sample Collected @ 15' Contained Dark Green staining + Strong ^{Hydrocarbon} Odor in Matrix. Sample Collected @ 20' Contained Partially Stained Soil + Good-Strong Hydrocarbon Odor in Matrix.

Sample Collection

Sample Location	Desc	Letter	Depth	Time	PID
15' Floor	Grab	F	15'	1330	177
Floor	Grab	G	20'	1340	72
Floor	Grab	H	27'	1350	78

1400 Left Location For Analytical Lab

1530 Arrive Analytical Lab

1600 Arrive Midland

Drive Time = 3.0 Hours

Labor Time = 4.0 Hours

3/26/01

JC#3 Excavation + Trucking Activity
Update

3/27/01

0830 Left Midland For JC#3 Site

- Stopped For Fuel + Field Supplies

1030 Arrive @ Project Location

- Allstate Securing ~~Suppo~~ Pipeline to
Support Pipe Upon Arrival

- Trucks Hauling Backfill Soil to
Location Upon Arrival

Objective: Oversight of Excavation
Activity + Soil Sample Collection

Equipment: PPE, Decon, Camera, Soil
Sampling Kit, OVM (PID), Measuring
Wheel

Weather: Cloudy + Overcast, Cool, (Temp
 $\approx 45^{\circ}\text{F}$), Mild E Winds

Personnel: John Fergerson - TRW

- Need Excavate More on The S. Wall
Heavy Good Stain Still Noticeable on
Wall Face. Need to Excavate More
on E. Wall. Heavy Staining Still
Noticeable. N Wall Looks Fine.
Floor May Need To Be Deepened
Some

* Allstate Will Excavate Some More
Before Sampling. Will Collect Contaminated
Soil Sample Before Heading To Midland

JMF

3/27/00

1110 Left JC#3 for CC#3

1115 Arrive CC#3 Site

- Walton Pushing Contaminated Soil From Excavation on West Side of Pipeline. Deepest Depth To Date is $\approx 32.5-33'$ (NW Corner of Excavation on West Side of Pipeline)
- Contaminated Soil Being Hauled to Landfarm Upon Arrival
- ~~Contamination From Clean Soil Pile~~ Located @ NW Corner of Excavation Has Been Contaminated From Leak Caused by Walton Running Over Duke's Pipeline. Roy (Walton) said He contacted Duke. He Tried Getting In Touch w/ Robbie Ward + Paul Mulkey But Could Not Contact Them. Finally, contacted Linam Ranch Plant. Jay Miller (Duke) Investigated The Leak + Quizzed Operator Who Hit The Pipeline. Roy Said He Called Steve Weathers But Could Not Get In Touch With Him. Contacted Kenna Kay Cooper. She Said They Would Inform Steve When They Talked

JMF

3/27/01

- to Him

Sample Collection

Sample Location	Desc	Letter	Depth	Time	PID
Floor	Grab	I	32.5'	1510	79
E. Wall	Grab	J	5'	1520	86
E. Wall	Grab	K	23'	1530	100
W. Wall	Grab	L	15'	1540	150

- Collected Samples So GRO/DRO Ratios + BTEX For Correlation Purposes. Have Also Collected Duplicate Samples For Fingerprinting If Needed
- Collected Sample of Soil Contaminated From Leak Caused By Walton

Sample Location	Desc	Letter	Depth	Time	PID
Surface	Grab	M	0	1550	-

- Have Sample Ready For BTEX/GRO/DRO / Fingerprinting if Needed

1550 Left CC#3 for JC#3

1555 Arrive JC#3

Sample Collection

Sample Location	Desc	Letter	Depth	Time	PID
Contaminated Soil	Comp	-	-	1555	-

- Discussed Excavation Activity w/ Billy (Alstate)

JMF

3/27/01

- Have Contamination Located @
South-East Wall + Corner of
East + South Walls + on Floor
South of Pipeline.
- Cannot Excavate Due to Limitations
of Support Pipe. Told Billy to
Excavate S. Wall to Find Limit
in That Direction + To Deepen
the Excavation Floor

1615 Left Location For Analytical Lab

1745 Arrive @ Lab

1800 Arrive Midland

Drive Time: 4 Hours

Labor: 5.5 Hours

3/28/01

1000 Left Midland For JC#3 Site

- Stopped For Field Supplies

1200 Arrive Monument, NM

1200-1300 Lunch w/ Bobby + Billy
(Allstate)

1300 Arrive @ Project Location

Objective: Oversight of Excavation
Activity + Soil Sample Collection

Equipment: PPE, Camera, Decon, PID
(LOVR), Measuring Wheel, Soil Sampling
Kit

Weather: Cloudy + Overcast, Cool (Temp
≈ 50°F), Calm Winds

Personnel: John Fergerson - TRW
5 Man Crew - Allstate

* Received call From Gil (PM) Enroute
to Location That Steve (Duke)
Was Suspending Excavation
Activity @ JC#3.

- Had Allstate Complete Cleaning Floor
so Samples Could Be Collected.

Sample Collection

Sample Location	Desc	Letter	Depth	Time	PID
South Floor	Comp	Y	20'		121
North Floor	Comp	Z	20'		28

PID
SE Wall 177 N. Floor 28
S Floor 121

JMF

3/28/01			
North Wall Comp	aa	—	0.01
North-East Wall Comp	bb	—	0.04
South Wall Comp	cc	—	0.01
South-East Wall Comp	dd	—	177
1700 Left Location For Analytical Lab			
1830 Arrive @ Lab			
1900 Arrive Midland			

3/29/01			
CC#3 Excavation & Truck Hauling Activity			
Continuing			
- Truck Loads =			
JC#3 No Excavation Activity. Hauling			
Contaminated Soil to Land Farm			
-			
-			

3/30/01			
CC#3 No Excavation Activity. Contaminated			
Soil being Hauled to Land Farm			
- Truck Loads			

JCH3
 Excavation along easterly
 direction terminated about
 162 feet west of riser
 (90° turn of pipeline)

