

August 7, 2003

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

Re: Removal of Hydrocarbon-Impacted Soils from the C-23-2 (Site #3) site Township 20 South, Range 36 East, Section 25, Unit B

Dear Mr. Weathers:

Trident Environmental (Trident) was retained by Duke Energy Field Services, LP. (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, C-23-2 (Site #3), is located in Section 25 (Unit B), Township 20 South, Range 36 East on property owned by Dale Cooper and managed by Clay Cooper. The location of the C-23-2 (Site #3) is shown on the topographic map in Attachment A? The work was conducted in accordance with the work plan submitted to the New Mexico Oil Conservation Division (OCD). Trident personnel periodically collected soil samples to characterize the extent of hydrocarbonimpact 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 operations for documentation that closure requirements have been satisfied.

Excavation and Sampling Procedures

Walton Construction Company, Inc. (Hobbs, New Mexico) performed the excavation work using one trackhoe, one dozer, one loader, and 12 yd3 dump trucks for earthmoving services. An area adjacent to two pipelines was excavated where Mr. Cooper identified indications of hydrocarbon-impacted soils. The 12" steel pipeline (C-23-2 line) was replaced with 10" poly line prior to (~1991?) excavation activities and remains in service. Indications of hydrocarbon-impacted soil were not observed below this line. Another 12" steel pipeline (F-3 line) located approximately 10 ft south of and parallel to the C-23-2 line was removed sometime prior to excavation activities. Excavation activities concentrated beneath the former F-3 line and adjacent to the south side of the F-3 line in an area where surface staining was observed. During excavation activities a 4-inch riser with external corrosion was found buried beneath where the F-3 pipeline was located. 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 Trident with stainless steel trowels. Grab samples were collected from the floor and walls (north, south, east, and west), as specified in the site data form in Attachment A. 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). 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)

LRe-229153 Celly-FPAC0605424546

inspect - ePACO605426650 application incident - nPACO605426690 pPACO605427110

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 the soil samples with OVM or GRO concentrations exceeding 100 ppm.

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 South Monument 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 landowner's claims and well records from the Office of the State Engineer.

Approximately 1,488 cubic yards of hydrocarbon-impacted soils were transported by Walton Construction

to cell C-1 at the South Monument Landfarm, which is owned and operated by Ms. Kena Kay Cooper (OCD Rule 711 Permit Approval NM-01-0032). A completed Release Notification and Corrective Action (C-141) form is included in Attachment A.

Excavated soils below the remediation action levels and as agreed upon by Mr. Cooper were returned to the excavation after sampling and analysis verification. Also, native soil from adjacent sand dunes in the area was provided by Mr. Cooper and used as additional backfill in the excavation to restore the excavation to a level grade.

Results

At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the OCD standards listed above. Soil sample locations are depicted on the Site Map in Attachment A. 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 Beventer, REM

Project Manager

Attachments

CC:

Clay Cooper, landowner – Hobbs, NM



NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor
Joanna Prukop
Cabinet Secretary

Lori Wrotenbery
Director
Oil Conservation Division

September 19, 2003

Duke Energy Field Services (DEFS) Attn: Stephen Weathers 370 17th Street, Suite 900

Denver, CO 80202

Re: Remediation Closure Approval for Removal of Hydrocarbon-Impacted Soils

C-23-2, (sites: 1, 2, 3)

Site Location: UL-B, Sec 25-T20S-R36E

All Dated: August 7, 2003

Dear Mr. Weathers,

The remediation closuresreferenced above and submitted to the New Mexico Oil Conservation Division (OCD) by Trident Environmental for DEFS are hereby approved. According to the information provided no further action is required at this time.

Please be advised that OCD approval of this plan does not relieve DEFS of liability should their operations fail to adequately investigate and remediate contaminants that threaten ground water, surface water, human health or the environment. In addition, OCD approval does not relieve DEFS of responsibility for compliance with any other federal, state, or local laws and/or regulations.

If you have any questions or need assistance write or call: (505) 393-6161, ext. 113, or email: psheeeley@state.nm.us

Sincerely,

Paul Sheeley-Environmental Engineer

Cc: Roger Anderson - Environmental Bureau Chief

Chris Williams - District I Supervisor

Bill Olson - Hydrologist

Larry Johnson - Environmental Engr.

ATTACHMENT A

TOPOGRAPHIC MAP

SITE MAP

SITE DATA FORM

C-141 FORM

PHOTODOCUMENTATION



Site Data Form

Trident Technician: GJV	Excavation Crew Nam	es: Walton Construction	Site ID:	C-23-2 (Site #3)	
Site Location: Latitude 32	2° 33.072' N Longitud	e <u>103° 18.357' W</u> C	County: Le	a State: New Mexico	
Township 20 South	Range 3	66 East Section	251	Unit B	
Begin Excavation (Date/Tin	ne) <u>03/04/03</u>	Complete Excavation (I	Date/Time)03	/19/03	
LAND USE: (Check all that apply)	☐ Residential ☐ Industrial ☐ Oil & Gas	☐ Recreational ☐ School/Daycare ☐ Rural	☐ Farn ■ Rang □ Othe	ge land	
Wellhead Protection Area:	epth to Groundwater: □ > 100 feet □ 50 - 99 ■ < 50 feet Vellhead Protection Area: ■ > 1,000 feet from a water source □ < 200 feet from private domestic water source istance to Nearest Surface Water Body: ■ > 1,000 feet □ 200 - 1,000 feet □ < 200 feet				
SURFACE SOILS:	■ Sand □ Caliche	☐ Gravel ■ Clay	☐ Silt ■ Other	Silty clay at depth	
EXCAVATION DIMENSIONS	Length feet	Width feet		Maximum Depth feet feet	
VOLUME EXCAVATED	: _~2,000 yd ³	VOLUME HAULEE	TO LANDFAR	M: <u>1,488</u> yd ³	

SUMMARY OF ANALYTICAL RESULTS

Sample ID	Sample	OVM	GRO	DRO	В	T	Е	X
(Depth)	Location	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
A (10')	Floor	108	565	3610	<0.025	0.037	0.084	0.432
A (20')	Floor	8.4	< 10	< 10	NA	NA	NA	NA
B (5')	Below Riser	6	<100	4220	NA	NA	NA	NA
C (10')	West Wall	77	38.1	684	NA	NA	NA	NA
D (10')	North Wall	42	140	2950	NA	NA	NA	NA
E (10')	South Wall	114	810	6990	<0.025	0.028	0.092	0.501
F (10')	East Wall	5	< 10	< 10	NA	NA	NA	NA
G (8')	Below Riser	2.0	< 10	< 10	NA	NA	NA	NA
H (12')	North Wall	0.7	< 10	< 10	NA	NA	NA	NA
I (12')	South Wall	2.1	< 10	< 10	NA	NA	NA	NA
J (12')	West Wall	2.6	< 10	< 10	NA	NA	NA	NA
Backfill		0.2	< 10	< 10	NA	NA	NA	NA
Exc. Soil		53	622	5970	NA	NA	NA	NA

Comments: The areas beyond samples A (10'), B (5'), C (10'), D (10'), and E (10') were excavated further until concentrations were below OCD guidelines (<100 mg/kg) as confirmed by subsequent samples A (20'), G (8'), J (12'), H (12'), and I (12'), respectively.

<u>District I</u> 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**

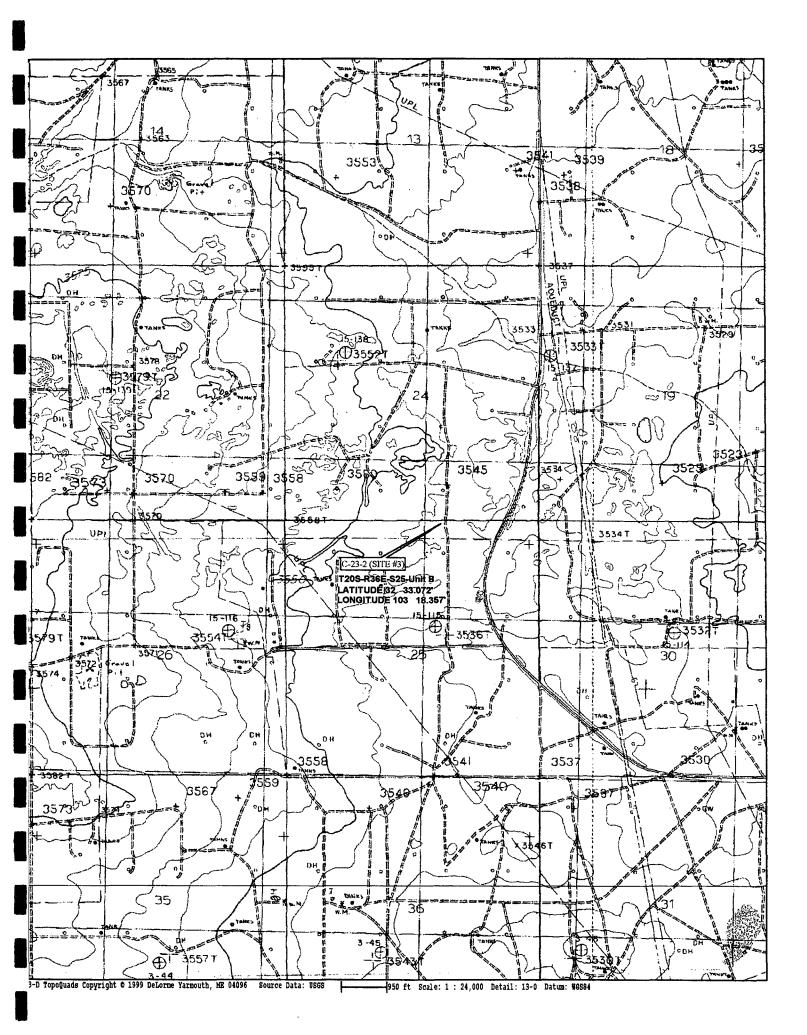
Oil Conservation Division 2040 South Pacheco Santa Fe, NM 87505

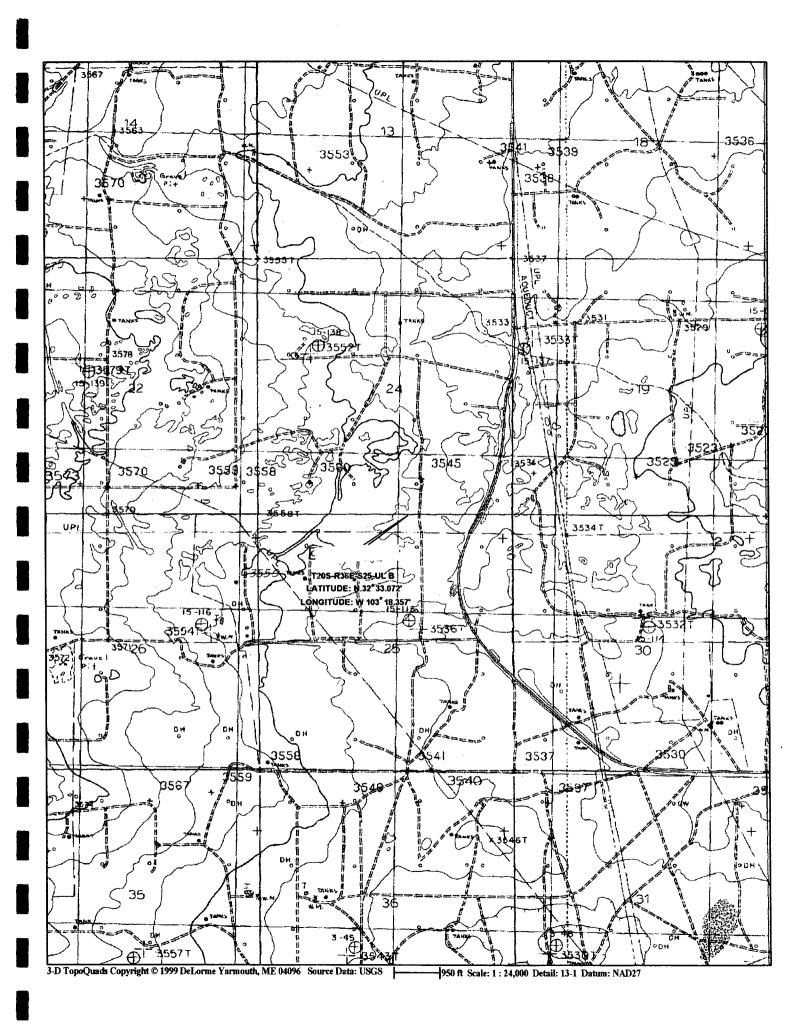
Submit 2 Copies to appropriate District Office in accordance with Rule 116 on back side of form

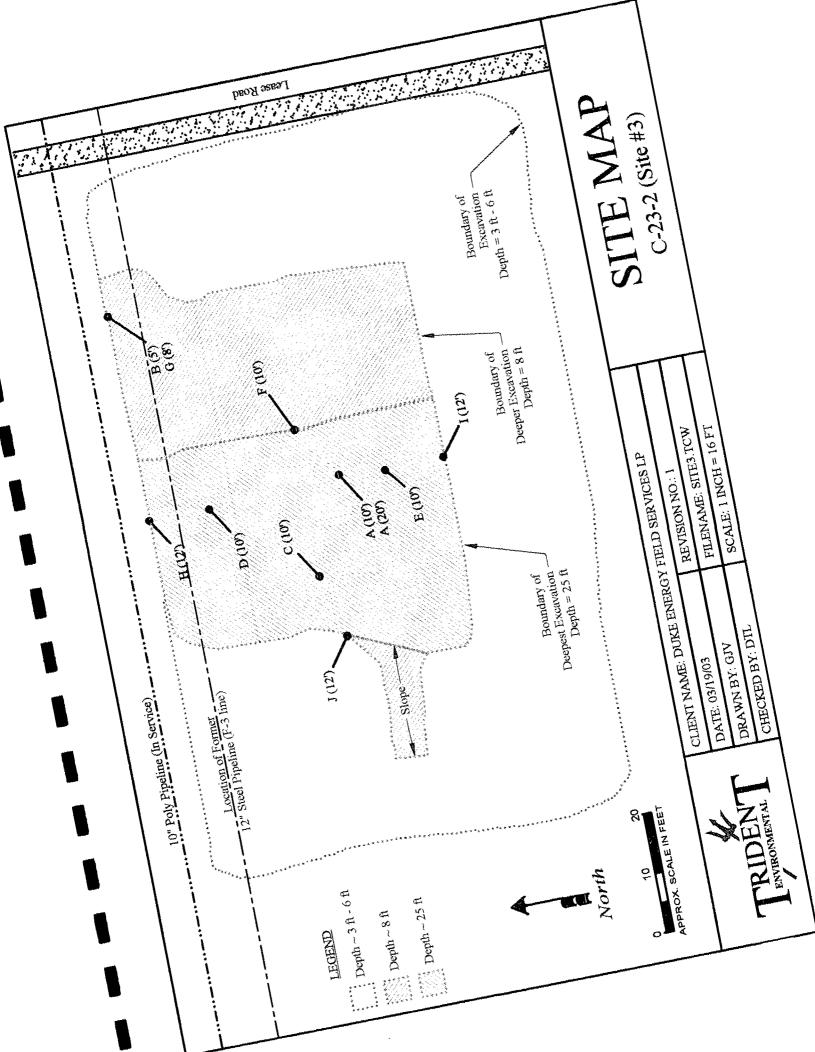
Form C-141

Revised March 17, 1999

			Relea	se Notifi	cation :	and Cor	rective Act	ion		
					OPER	TOR		☐ Initi	al Report	Final Report
Name of Co		Energy Fiel	d Service	s Inc.		Contact Mr. Steve Weathers				
Address					.,	Telephone No.				
Facility Nan		5493, Denve	er, Colora	ido 80217		Facility T		(303) 605	-1718	
1 dointy 1 van		Name: C-2	3-2 (Site	#3)		l womey i		tural Gas	Pipeline	
Surface Own		e Cooper		Min	eral Owne	r Unkn	own		Lease N	0.
L		*		LOC	ATION	OF RELI			· —	
Unit Letter	Section	Township	Range	Feet from the		South Line	Feet from the	East/W	est Line	County
В	25	208	36E		32°	33.077' N		103° 18	.357° W	Lea
				NA'	FURE O	F RELEA	ASE			
Type of Relea	ase					Volume of	Release			Recovered
Source of Re	ease	Conden	sate			Date and I	Unknown Hour of Occurrence	 æ		8 yd ³ soil removed nd Hour of Discovery
		Pipeli	ne		····		Unknown			Unknown
Was Immedia	Was Immediate Notice Given? Yes				Required	If YES, To		nson, NM	OCD Distr	ict 1
By Whom?	By Whom? Date and Hour Steve Weathers									
Was a Water	Was a Watercourse Reached? If YES, Volume Impacting the Watercourse. N/A									
If a Watercou	rse was Im	pacted, Descr	ibe Fully:			1				
N/A										
Describe Cau	se of Probl	em and Reme	dial Actio	n Taken:						
										h 10" poly line prior th of and parallel to the
C-23-2 line v	as removed	l sometime pr	ior to exca	vation activit	ies. During	excavation a	ctivities a 4-inch r	iser with e	xternal corr	osion was found buried
		and Cleanup			acted soil w	as requested	by landowner (Cl	ay Cooper).	
On 03/04/03	over-excav	ation was init	iated. Ex	cavation activ						ne south side of the F-3
										ated. Within this area, a mately 1,488 cu yds of
	sported to c	ell C-1 at the	South Mo							osure report, analytical
I hereby certi	fy that the	nformation g	iven above							ant to NMOCD rules
and regulatio	ns all opera	itors are requi	ired to rep	ort and/or file	certain rele	ase notificat	ions and perform	corrective	actions for	releases which may not relieve the operator
										ound water, surface
							report does not r	elieve the	operator of	responsibility for
compnance v	compliance with any other federal, state, or local laws and/or regulations. OIL CONSERVATION DIVISION									
Signature:						A 1	• • • • • • • • • • • • • • • • • • • •			
						Approved District St	•			
Printed Name	e: Step	hen Weathers						T		
Title:	Envi	ronmental Sp	ecialist		··· ······	Approval	Date:]	Expiration 1	
Date:			Pho	ne: (303) 605-	1718	Conditions	s of Approval:			Attached





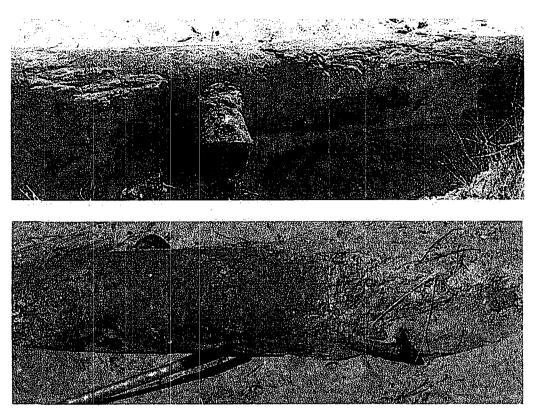




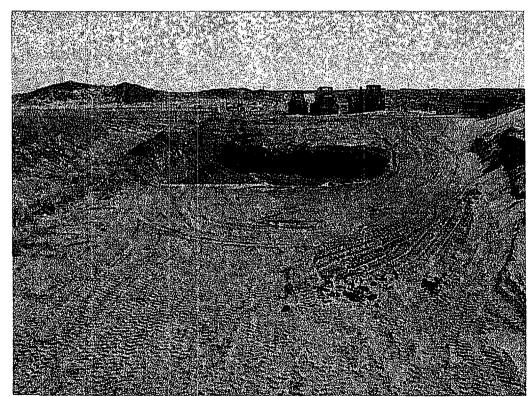
View facing northeast showing hydrocarbon-stained soil (foreground) and C-23-2 (in service) and F-3 (out of service) pipeline ROW prior to excavation.



View facing northeast showing floor of excavation at 10 ft below surface. Sample A (10') was taken from floor (bottom of photo) and indicated a GRO = 565 mg/kg and DRO =3,610 mg/kg.

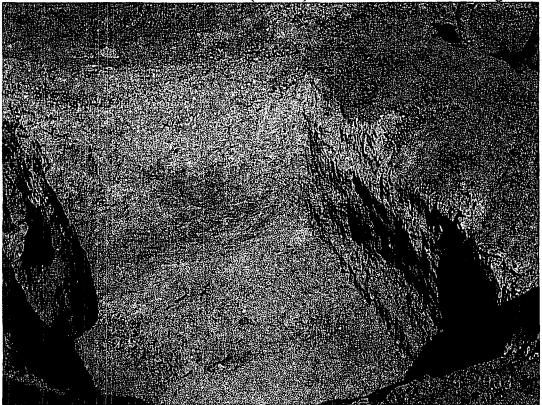


Views showing external corrosion around 4" riser, which was found in the excavation already removed from the 10" F-3 pipeline. Shovel handle points to 1/4" hole in 10" pipeline (03-06-03).

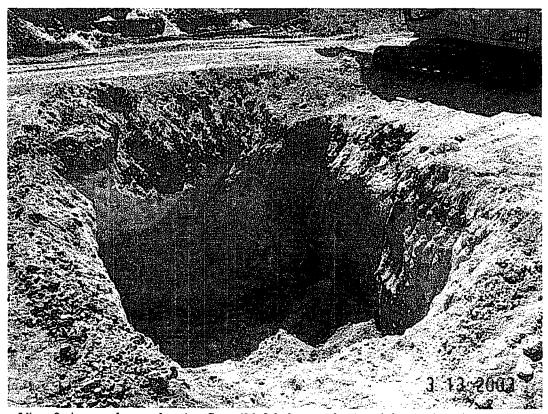


View facing east parallel to pipeline ROW showing status of excavation on 03-06-03.

Left side of main excavation is adjacent to the C-23-2 pipeline, which is currently in service. The former F-3 line located 10 feet south of the C-23-2 pipeline has been removed.



View facing northeast showing floor (20 ft below surface) and the north and east walls at completion of excavation activities.



View facing southwest showing floor (20 ft below surface) and the south and west walls at completion of excavation activities.

ATTACHMENT B

LABORATORY ANALYTICAL REPORTS

AND

CHAIN-OF-CUSTODY DOCUMENTATION

ANALYTICAL REPORT

Prepared for:

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

Project:

C-23 (Site #3)

PO#:

V-106

Order#:

G0305895

Report Date:

03/10/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

682-0727

Order#:

G0305895

Project:

V-106

Project Name: C-23 (Site #3)

Location:

C-23 (Site #3)

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

<u>Lab ID:</u> 0305895-01	Sample: A (10') ab Testing:	Matrix: SOIL Rejected:		Date / Time Collected 3/6/03 9:00 Ter	Date / Time Received 3/6/03 14:10 np: 8.0 C	Container 4 oz glass	Preservative Ice
	8015M 8021B/5030 BTEX						
0305895-02	B (5')	SOIL	ı	3/6/03 9:05	3/6/03 14:10	4 oz glass	Ice
<u>La</u>	ab Testing: 8015M	Rejected:	No	Тег	np: 8.0 C		
0305895-03	Backfill	SOIL		3/6/03 9:10	3/6/03 14:10	4 oz glass	Ice
<u>La</u>	ab Testing: 8015M	Rejected:	No	Tei	np: 8.0 C		
0305895-04	Exc. Soil-1	SOIL		3/6/03 9:15	3/6/03 14:10	4 oz glass	Ice
<u>La</u>	ab Testing: 8015M	Rejected:	No	Тег	np: 8.0 C		

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0305895

Project: V-106

Project Name: C

C-23 (Site #3)

Location:

C-23 (Site #3)

Lab ID:

0305895-01

Sample ID:

A (10')

8015M

Method	
Blank	

Date Prepared Date Analyzed 3/7/03 Sample <u>Amount</u>

1

Dilution Factor 5

Analyst

CK

Method 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	565	50.0
DRO, >C12-C35	3610	50.0
TOTAL, C6-C35	4175	50.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	24%	70	130
1-Chlorooctadecane	21%	70	130

8021B/5030 BTEX

Method
Blank
0004866-02

Date <u>Prepared</u> Date <u>Analyzed</u> 3/8/03 15:54 Sample
Amount

Dilution <u>Factor</u> 25

<u>Analyst</u> CK

Method 8021B

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.037	0.025
Ethylbenzene	0.084	0.025
p/m-Xylene	0.355	0.025
o-Xylene	0.077	0.025

Surrogates	% Recovered	ered QC Limits (%)		
aaa-Toluene	83%	80	120	
Bromofluorobenzene	103%	80	120	

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

Order#:

G0305895

Project:

V-106

Project Name:

C-23 (Site #3)

Location:

C-23 (Site #3)

Lab ID:

0305895-02

Sample ID:

B (5')

8015M

Method Blank Date <u>Prepared</u> Date Analyzed 3/7/03 Sample Amount

1

Dilution Factor

10

Analyst

CK

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 <100</td>
 100

 DRO, >C12-C35
 4220
 100

 TOTAL, C6-C35
 4220
 100

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	9%	70	130
1-Chiorooctadecane	10%	70	130

Lab ID:

0305895-03

Sample ID:

Backfill

8015M

Method Blank Date Prepared Date
<u>Analyzed</u>
3/7/03

Sample Amount

1

Dilution <u>Factor</u> 1

on <u>r Analyst</u>

CK

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 <10.0</td>
 10.0

 DRO, >C12-C35
 <10.0</td>
 10.0

 TOTAL, C6-C35
 <10.0</td>
 10.0

Surrogates	% Recovered	QC Limits (%)		
1-Chlorooctane	90%	70	130	
1-Chlorooctadecane	84%	70	130	

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0305895

Project:

V-106

Project Name:

C-23 (Site #3)

Location:

C-23 (Site #3)

Lab ID:

0305895-04

Sample ID:

Exc. Soil-1

8015M

Method Blank Date Prepared Date Analyzed 3/7/03 Sample Amount 1 Dilution <u>Factor</u>

10

Analyst CK

Method 8015M

 Parameter
 Result mg/kg
 RL

 GRO, C6-C12
 622
 100

 DRO, >C12-C35
 5970
 100

 TOTAL, C6-C35
 6592
 100

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	10%	70	130
1-Chiorooctadecane	9%	70	130

Approval: Roland L July 3-11-03
Raland K. Tuttle, Lab Director, QA Officer Date

Celey D. Keene, Org. Tech. Director

Jeanne McMurrey, Inorg. Tech. Director

Sandra Biezugbe, Lab Tech. Sara Molina, Lab Tech.

QUALITY CONTROL REPORT

8015M

Order#: G0305895

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004879-02			<10.0		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004879-03		952	927	97.4%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004879-04		952	919	96.5%	0.9%
SRM SOIL	LAB-ID#	Sample Concentr,	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0004879-05		1000	805	80.5%	

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#: G0305895

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004866-02			<0.025		
Γoluene-mg/kg		0004866-02	· · · · · · · · · · · · · · · · · · ·		<0.025		
Ethylbenzene-mg/kg		0004866-02			<0.025		,
p/m-Xylene-mg/kg		0004866-02			<0.025		
o-Xylene-mg/kg		0004866-02			<0.025		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305915-05	0	2.5	2.67	106.8%	
Toluene-mg/kg		0305915-05	0.028	2.5	2.68	106.1%	
Ethylbenzene-mg/kg		0305915-05	0.042	2.5	2.82	111.1%	
p/m-Xylene-mg/kg		0305915-05	0.179	5	5.82	112.8%	
o-Xylene-mg/kg		0305915-05	0	2.5	2.90	116.%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0305915-05	0	2.5	2.74	109.6%	2.6%
Toluene-mg/kg		0305915-05	0.028	2.5	2.76	109.3%	2.9%
Ethylbenzene-mg/kg		0305915-05	0.042	2.5	2.72	107.1%	3.6%
p/m-Xylene-mg/kg		0305915-05	0.179	5	5.87	113.8%	0.9%
o-Xylene-mg/kg		0305915-05	0	2.5	2.88	115.2%	0.7%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg		0004866-05		0.1	0.106	106.%	
Toluene-mg/kg		0004866-05		0.1	0.113	113.%	
Ethylbenzene-mg/kg		0004866-05		0.1	0.113	113.%	
p/m-Xylene-mg/kg		0004866-05		0.2	0.224	112.%	
o-Xylene-mg/kg		0004866-05		0.1	0.108	108.%	

CASE NARRATIVE

ENVIRONMENTAL LAB OF TEXAS

Prepared for:

TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

Order#:

G0305895

Project:

C-23 (Site #3)

The following samples were received as indicated below and on the attached Chain of Custody record. All analyses were performed within the holding time and with acceptable quality control results unless otherwise noted.

SAMPLE ID	LAB ID	MATRIX	Date Collected	Date Received
A (10')	0305895-01	SOIL	03/06/2003	03/06/2003
B (5')	0305895-02	SOIL	03/06/2003	03/06/2003
Backfill	0305895-03	SOIL	03/06/2003	03/06/2003
Exc. Soil-1	0305895-04	SOIL	03/06/2003	03/06/2003

Surrogate recoveries on the 8015M are outside the control limits because they were diluted out. (0305895-01,02,04)

The enclosed results of analyses are representative of the samples as received by the laboratory. Environmental Lab of Texas makes no representations or certifications as to the methods of sample collection, sample identification, or transportation handling procedures used prior to our receipt of samples. To the best of my knowledge, the information contained in this report is accurate and complete.

Approved By:

KalandkJul

Date: 3-11-03

RIDEN T

Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 689-4578 (Fax)

V106-C-23-3-1

Chain of Custody

Date 3-6-03 Page / of /

	S.	tainer	uoc	o fo	equi	υN															(Time)			_		(Time)
																	Relinquished By: (3) (Company)		(Printed Name)	ture)		Received By: (3) (Company)		(Printed Name)	(Signature)	(Date)
				alete		IJΙ							<u>. </u>									-				
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Environmental Lab of Texas, Inc.	12600 West I-20 East Odessa TX 79763	(915) 563-1800		(82	N A	tification				/ -							Project Information	Duke Energy Field Services	C-23 (Site#3)	Gil Van Deventer	V-106		Duke Energy Field Services	Attn: Steve Weathers	POBox 5493	Denver, CO 80217
Lab Name:	Address: 1	Telephone:		Samplers (SignATURES)		Sample Identification	(101) A	B180	13246	Fre 50.1							Proje	Project Name:	Project Location:	Project Manager:	Cost Center No.:	Shipping ID No.:	Bill to (see below):	Special Instructions:		

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10

ANALYTICAL REPORT

Prepared for:

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

Project:

C-23 (#3)

PO#:

Order#:

G0305973

Report Date:

03/17/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

682-0727

Order#:

G0305973

Project:

V106

Project Name: C-23 (#3)

Location:

DEFS

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

			Date / Time	e D	ate / Time		
Sample:	Matrix:		Collected		Received	Container	Preservative
A (20')	SOIL		3/13/03		3/13/03	4 oz glass	Ice
			14:05		17:40		
b Testing:	Rejected:	No	Т	emp:	3.0 C		
8015M							
C (10')	SOIL		3/13/03		3/13/03	4 oz glass	Ice
			14:15		17:40		
b Testing:	Rejected:	No	Т	Temp:	3.0 C		
8015M							
D (10')	SOIL		3/13/03		3/13/03	4 oz glass	Ice
			14:20		17:40		
b Testing:	Rejected:	No	Т	Temp:	3.0 C		
8015M							
E (10')	SOIL		3/13/03		3/13/03	4 oz glass	Ice
			14:25		17:40		
b Testing:	Rejected:	No	Т	Гетр:	3.0 C		
8015M							
8021B/5030 BTEX							
F (10')	SOIL		3/13/03		3/13/03	4 oz glass	Ice
	m	NI.		_			
	Rejected:	NO	1	l'emp:	3.0 C		
8015M							
	A (20') b Testing: 8015M C (10') b Testing: 8015M D (10') b Testing: 8015M E (10') b Testing: 8015M 8021B/5030 BTEX F (10') b Testing:	A (20') SOIL b Testing: 8015M C (10') SOIL b Testing: 8015M D (10') SOIL b Testing: 8015M E (10') SOIL b Testing: 8015M E (10') SOIL b Testing: 8015M SOIL C (10') SOIL	A (20') SOIL b Testing: 8015M C (10') SOIL b Testing: 8015M D (10') SOIL b Testing: 8015M E (10') SOIL b Testing: 8015M E (10') SOIL b Testing: 8015M E (10') SOIL b Testing: 8015M Rejected: No SOIL b Testing: 8015M 8021B/5030 BTEX F (10') SOIL b Testing: Rejected: No	Sample : Matrix: Collected A (20') SOIL 3/13/03 14:05 B Testing: Rejected: No 7 8015M SOIL 3/13/03 14:15 B Testing: Rejected: No 7 8015M SOIL 3/13/03 14:20 B Testing: Rejected: No 7 8015M SOIL 3/13/03 14:25 B Testing: Rejected: No 7 8015M SOIL 3/13/03 14:25 8015M SOIL 3/13/03 14:20 8015M SOIL 3/13/03 14:30 8021B/5030 BTEX Rejected: No 7 B Testing: Rejected: No 7	Sample : Matrix: Collected A (20') SOIL 3/13/03 14:05 B Testing: Rejected: No Temp: 8015M SOIL 3/13/03 14:15 Temp: B Testing: Rejected: No Temp:	Sample : Matrix: Collected Received A (20') SOIL 3/13/03 3/13/03 14:05 17:40 17:40 b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 8021B/5030 BTEX Rejected: No Temp: 3.0 C	Sample : Matrix: Collected Received Container A (20') SOIL 3/13/03 3/13/03 4 oz glass b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 4 oz glass b Testing: Rejected: No Temp: 3.0 C 8015M SOIL 3/13/03 3/13/03 4 oz glass b Testing: Rejected: No Temp: 3.0 C 8015M Temp: 3.0 C 3/13/03 4 oz glass b Testing: Rejected: No Temp: 3.0 C 8015M Temp: 3.0 C 4 oz glass b Testing: Rejected: No Temp: 3.0 C 8015M Temp: 3.0 C 4 oz glass 8015M Temp: 3.0 C 4 oz glass

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0305973

Project:

V106

Project Name: Location:

C-23 (#3) **DEFS**

Lab ID:

0305973-01

Sample ID:

A (20')

8015M

Method Blank

Date **Prepared**

Date Analyzed

Sample **Amount** Dilution **Factor**

Analyst

CK

Method 8015M

3/14/03 1 1

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

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	94%	70	130
1-Chlorooctadecane	84%	70	130

Lab ID:

0305973-02

Sample ID:

C (10')

8015M

Method Blank

Date **Prepared**

Date Analyzed

Sample **Amount** 3/14/03 1

1

Dilution **Factor** Analyst

CK

Method 8015M

Result **Parameter** RL mg/kg GRO, C6-C12 38.1 10.0 10.0 DRO, >C12-C35 684 10.0 TOTAL, C6-C35 722

Surrogates	% Recovered	QC Limits (%)				
1-Chlorooctane	94%	70	130			
1-Chlorooctadecane	91%	70	130			

ANALYTICAL REPORT

GILBERT VAN DEVENTER

TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0305973

Project:

V106

Project Name: Location: C-23 (#3) DEFS

Lab ID:

0305973-03

Sample ID:

D (10')

8015M

1

Method Blank Date Prepared Date Analyzed 3/14/03

Sample
<u>d</u> Amount

Sample Dilution

Factor 1

Analyst CK

Method 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	140	10.0
DRO, >C12-C35	2,950	10.0
TOTAL, C6-C35	3,090	10.0

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	101%	70	130
1-Chlorooctadecane	110%	70	130

Lab ID:

0305973-04

Sample ID:

E (10')

8015M

Method Blank Date Prepared Date <u>Analyzed</u>

3/14/03

Sample <u>Amount</u>

1

Dilution <u>Factor</u>

1

Analyst

CK

Method 8015M

Parameter	Result mg/kg	RL
GRO, C6-C12	810	10.0
DRO, >C12-C35	6,990	10.0
TOTAL, C6-C35	7,800	10.0

Surrogates	% Recovered	QC Lii	mits (%)
1-Chlorooctane	97%	70 130	
1-Chlorooctadecane	103%	70	130

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0305973

Project:

V106

Project Name: Location:

C-23 (#3) **DEFS**

Lab ID:

0305973-04

Sample ID:

E (10')

8021B/5030 BTEX

Method	Date	Date	Sample	Dilution		
Blank	<u>Prepared</u>	Analyzed	<u>Amount</u>	<u>Factor</u>	<u>Analyst</u>	Method
0004962-02		3/17/03	1	25	CK	8021B
		11:00				

Parameter	Result mg/kg	RL
Benzene	<0.025	0.025
Toluene	0.028	0.025
Ethylbenzene	0.092	0.025
p/m-Xylene	0.343	0.025
o-Xylene	0.158	0.025

Surrogates	% Recovered	QC Limits (%		
aaa-Toluene	88%	80	120	
Bromofluorobenzene	120%	80	120	

Lab ID:

0305973-05

Sample II):

F (10')

8015M

Method Blank	Date <u>Prepared</u>	Date <u>Analyzed</u>	Sample <u>Amount</u>	Dilution <u>Factor</u>	Analyst	Method
		3/14/03	1	1	CK	8015M

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

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	100%	70	130
1-Chlorooctadecane	103%	70	130

Approval: Ralandt July 3-17-03 Raland K. Tuttle, Lab Director, QA Officer Date

Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

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

Page 3 of 3

QUALITY CONTROL REPORT

8015M

Order#: G0305973

BLANK	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/I	kg	0004948-02	·		<10.0		
MS	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/l	kg	0305973-05	0	952	931	97.8%	
MSD	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/l	kg	0305973-05	0	952	891	93.6%	4.4%
SRM	SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/l	kg	0004948-05		1000	881	88.1%	

QUALITY CONTROL REPORT

8021B/5030 BTEX

Order#:	G0305973
---------	----------

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0004962-02			<0.025		
Toluene-mg/kg	0004962-02			<0.025		
Ethylbenzene-mg/kg	0004962-02			<0.025		
p/m-Xylene-mg/kg	0004962-02			<0.025		
o-Xylene-mg/kg	0004962-02	T		<0.025		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0004962-03		0.1	0.099	99.%	
Foluene-mg/kg	0004962-03		0.1	0.103	103.%	
Ethylbenzene-mg/kg	0004962-03		0.1	0.106	106.%	
p/m-Xylene-mg/kg	0004962-03		0.2	0.222	111.%	
o-Xylene-mg/kg	0004962-03		0.1	0.113	113.%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0004962-04		0.1	0.094	94.%	5.2%
Toluene-mg/kg	0004962-04		0.1	0.097	97.%	6.%
Ethylbenzene-mg/kg	0004962-04		0.1	0.099	99.%	6.8%
p/m-Xylene-mg/kg	0004962-04		0.2	0.206	103.%	7.5%
o-Xylene-mg/kg	0004962-04		0.1	0.106	106.%	6.4%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
Benzene-mg/kg	0004962-05		0.1	0.103	103.%	
Toluene-mg/kg	0004962-05		0.1	0.108	108.%	
Ethylbenzene-mg/kg	0004962-05		0.1	0.108	108.%	
p/m-Xylene-mg/kg	0004962-05		0.2	0.223	111.5%	
o-Xylene-mg/kg	0004962-05		0.1	0.110	110.%	

ANALYTICAL REPORT

Prepared for:

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL P.O. BOX 7624 MIDLAND, TX 79708

Project:

C-23 (Site #3)

PO#:

V-106

Order#:

G0306023

Report Date: 03/21/2003

Certificates

US EPA Laboratory Code TX00158

SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

682-0727

Order#:

G0306023

Project:

V-106

Project Name: C-23 (Site #3)

Location:

C-23 (Site #3)

The samples listed below were submitted to Environmental Lab of Texas and were received under chain of custody. Environmental Lab of Texas makes no representation or certification as to the method of sample collection, sample identification, or transportation/handling procedures used prior to the receipt of samples by Environmental Lab of Texas, unless otherwise noted.

Lab ID:	Sample:	Matrix:		Date / Tim Collected		Pate / Time Received	Container	Preservative
0306023-01	G (8')	SOIL		3/19/03 9:40		3/19/03 15:15	4 oz glass	Ice
<u>La</u>	ib Testing:	Rejected:	No -		Temp:			
	8015M							
0306023-02	H (12')	SOIL		3/19/03		3/19/03	4 oz glass	Ice
!				9:45		15:15		
<u>La</u>	ib Testing:	Rejected:	No	,	Temp:	2.5 C		
	8015M							
306023-03	I (12')	SOIL		3/19/03		3/19/03	4 oz glass	Ice
				9:50		15:15		
<u>La</u>	ib Testing:	Rejected:	No	,	Temp:	2.5 C		
	8015M		<u>-</u>					
0306023-04	J (12')	SOIL		3/19/03		3/19/03	4 oz glass	Ice
1				9:55		15:15		
<u>La</u>	ib Testing:	Rejected:	No	•	Temp:	2.5 C		
	8015M							

ANALYTICAL REPORT

GILBERT VAN DEVENTER

TRIDENT ENVIRONMENTAL

P.O. BOX 7624

MIDLAND, TX 79708

Order#:

G0306023

Project:

V-106

Project Name:

C-23 (Site #3)

Location:

C-23 (Site #3)

Lab ID:

0306023-01

Sample ID:

G (8')

8015M

Method Blank Date Prepared Date
Analyzed
3/21/03

Sample <u>Amount</u>

1

Dilution <u>Factor</u>

1

Analyst CK

Method 8015M

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

Surrogates	% Recovered	QC Limits (%)						
1-Chlorooctane	86%	70	130					
1-Chlorooctadecane	84%	70	130					

Lab ID:

0306023-02

Sample ID:

H (12')

8015M

Method <u>Blank</u> Date Prepared Date
Analyzed
3/21/03

Sample Amount

1

Dilution <u>Factor</u>

1

ution <u>ctor Analyst</u>

CK

Method 8015M

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

Surrogates	% Recovered	QC Li	mits (%)
1-Chlorooctane	84%	70	130
1-Chlorooctadecane	77%	70	130

ANALYTICAL REPORT

GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708 Order#:

G0306023

Project:

V-106

Project Name:

C-23 (Site #3)

Location:

C-23 (Site #3)

Lab ID:

0306023-03

Sample ID:

I (12')

8015M

Method Blank

Date **Prepared**

Parameter

GRO, C6-C12

TOTAL, C6-C35

Date **Analyzed** 3/21/03

Sample **Amount**

1

Dilution **Factor**

1

Analyst CK

10.0

Method 8015M

Result RLmg/kg 10.0 <10.0 DRO, >C12-C35 <10.0 10.0

<10.0

Surrogates	% Recovered	QC Limits (%)				
1-Chlorooctane	77%	70 130				
1-Chlorooctadecane	73%	70	130			

Lab ID:

0306023-04

Sample ID:

J (12')

8015M

Method Blank

Date **Prepared**

TOTAL, C6-C35

Date **Analyzed**

3/21/03

Sample **Amount** 1

mg/kg

<10.0

<10.0 <10.0 Dilution **Factor**

1

<u>Analyst</u>

RL

10.0 10.0

10.0

CK

Method 8015M

Result **Parameter** GRO, C6-C12 DRO, >C12-C35

Surrogates	% Recovered	QC Limits (%)					
1-Chlorooctane	86%	70	130				
1-Chlorooctadecane	77%	70	130				

Kalandk Raland K. Tuttle, Lab Director, QA Officer

Date

Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Sandra Biezugbe, Lab Tech.

Sara Molina, Lab Tech.

QUALITY CONTROL REPORT

8015M

Order#: G0306023

BLANK SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005007-02			<10.0		
CONTROL SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005007-03		952	924	97.1%	
CONTROL DUP SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005007-04		952	914	96.%	1.1%
SRM SOIL	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
TOTAL, C6-C35-mg/kg	0005007-05		1000	885	88.5%	-,,,,

ENVIRONMENTAL LOS NATIONAL TO Lab Name: Environment of Lab Name: Environment of Lab Name: 17500 Week

Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 689-4578 (Fax)

V106-C-23-3-2

Chain of Custody

Date 3-14-03 Page 1 of 1

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			563-1713				Time	0460	3460	0950	. 2260							Sample Receipt	.S.			ŀ			Friday	AM		
is, Inc.			Fax: (915) 563-171			1	Date	3-19-03	219-03	3-19-03	3-19-03	+						Samp	Total Containers:	COC Seals:	Rec'd Good Cond/Cold:	Conforms to Records:	Lab No.:		Needs by Friday			
Lab of Texa	20 East	9763	0			\Z_	Matrix	(;)	105	1:05	1:15								eld Services		ter			eld Services	athers No		117	
: Environmental Lab of Texas, Inc.			(915) 563-1800	, EG)	(/ / / / /	1 / Ca	ntification											Project Information	Duke Energy Field Services	C-23 (Site#3)	Gil Van Deventer	V-106		Duke Energy Field Services	Attn: Steve Weathers	POBox 5493	Denver, CO 80217	
Lab Name:	Address	,	Telephone:	Complete (CICAIATIDEC)	Sampers (Significant		Sample Identification	6(8,)	(21) H	1(12)	5(12)							Proj	Project Name:	Project Location:	Project Manager:	Cost Center No.:	Shipping ID No.:	Bill to (see below):	Special Instructions:			
0	_		/	:			نب.	70	4	3	7	<u> </u>	<u> </u>	-			<u> </u>		<u> </u>	<u></u>	<u> </u>	<u>, </u>	1 (1)	w	I ₀₁			

ATTACHMENT C

FIELD BOOK NOTES

3 C-23(#3)	Scale Scale	• A(10)				Breken
13-6-0 1 2-6-0		L-B(5')				
		3 .7 . T.				
C. 23(143) 3.42 (100) 63 for worterst	Ato (Tridont) The (Tridont) The site Ruy The make of whi	the to hopfal there we not a hope hereaft	pr betwee sempling			
3-6-05 (273(t) 3-6-05 (270) Objective Collect Samps from corresponding to the corresponding	Sampling control Planting Control Planting Control Control Control Control Control Control De Contr	He has to the his father to happing to the said three was a restrict to the hearth in the old popular with a half a half herenth	OUM (chibyation 96 pp. before son		211.0 21. 1. 1.	
160-0870 B	Chipment Sample	H. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2. 2.	OVM C	Serek 10 Time A (10°) 0705 0 (5°) 0705 0 15°1 0710	Eye. Soll	

			49/4/67							77	
3-17-03		or very surectional	Found a drip pot 41 t' vise in histories the two lines.	Politi(1,1,1) from 146;	8.4 680	17 624381 47 (40		B T & Kin Kun Konots 0,028 0,047 0.343 0.153			
 - - - -	Z Z Z	1	(Per Sarpling)		K(20) (ELIV) Samph 10(1/1/14)	10. C(10.) D. C.	((10) E MAI	15(Cx) 5, Ux1		3	
3-13-03	A (20/)5/11 600 1405	CD ((10) (1.02.11 1415 0 ((10) (1.02.11 1415 C ((10) (1.02.11 1415 C ((10) (1.02.11 1415)	Helive samp						· · · · · · · · · · · · · · · · · · ·		

Collect more samples after
begand provisions sample
und 620 080 >100 mg/kg 2.0 pp. 2.6 pp. 2.6 pp. 2.6 pp. 2.6 (-13(#3) Cullited sandes as follow,

JD (dreft) Locatly Time

GER) Directly beneath drip put onto

H(12.) N. Wall

I(12.) S. Wall

J(12.) W. Wall OUM Calibratini
198 ppm before sampling
46 ppm atter sampling Objective: C Psychiating (Sycations) (Syca

oniel Vialdes pers lin Finde 1488 423 hould to Call Col Danges (35×85) Roy L-122-03 Rey Ly Welter celled Red to Elso next site C-23(#3)