

May 14, 2002

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

1 RP- 19.05

Re: Removal of Hydrocarbon-Impacted Soils from the CC #9 site Township 20 South, Range 36 East, Section 25, Unit A

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 (CC #9) is located in Section 25 (Unit A), Township 20 South, Range 36 East on property owned by Dale Cooper and managed by Clay Cooper. The location of the CC #9 site 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 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 operations for documentation that closure requirements have been satisfied.

#### **Excavation and Sampling Procedures**

Walton Construction Company, Inc. (Hobbs, New Mexico) performed excavation. Walton Construction used one trackhoe, one dozer, one loader, and 12 yd<sup>3</sup> dump trucks 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 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)

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 readings exceeding 100 ppm.

#### Soil Stockpiling, Waste Disposition, and Backfilling

An effort to segregate clean versus impacted soil during excavation was made. Only hydrocarbonimpacted 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 1,556 cubic yards of hydrocarbon-impacted soils were transported by Walton Construction to cell C-5 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.

#### <u>Results</u>

At the completion of excavation activities all areas had petroleum hydrocarbon concentrations below the OCD standards listed above, with the exception of the floor sample taken at a depth of 42 feet (GRO <10 mg/kg and DRO = 106 mg/kg) and the sample taken from the west wall of the main excavation and immediately adjacent to County Road 41 (GRO = 1080 mg/kg and DRO = 5120 mg/kg). The floor sample is considered to be close enough to the 100 mg/kg guideline to warrant no further excavation. In addition, there was a concern for safety in expediting backfilling operations and eliminate the traffic hazard of a relatively deep excavation adjacent to a much used oilfield traffic road. The west wall could not be excavated further to the west due to the presence of the county road. However, an excavation was conducted on the west side of the road to a depth of 13 feet directly beneath where the abandoned pipeline had been. A sample taken from the excavation floor on the west side of the road indicated GRO and DRO concentrations below the laboratory detection limit of 10 mg/kg. Soil sample locations are depicted on the Site Map 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

Attachments

cc: Clay Cooper, landowner - Hobbs, NM



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## Site Data Form

TRW Technician:       GJV       Excavation Crew Names:       Walton Construction       Site ID:       Clay Cooper # 9         Site Location:       Latitude       32° 33' 5" N       Longitude       103° 18' 5" W       County:       Lea       State:       New Mexico         Township       20 South       Range       36 East       Section       25       Unit       A         Begin Excavation (Date/Time) $t02/12/02$ Complete Excavation (Date/Time) $02/28/02$ LAND USE:       Residential       Recreational       Farm land         Industrial       School/Daycare       Range land         (Check all that apply)       0il & 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       I200 - 1,000 feet       < 200 feet         SurFACE SOILS:       Sand       Gravel       Silt       Silt         Caliche       Clay       Other       Sandy silty clay at depth         DIMENSIONS      72_feet       45       feet       20-42_feet       42_feet					
Site Location: Latitude $32^{\circ} 33^{\circ} 5^{\circ}$ N       Longitude $103^{\circ} 18^{\circ} 5^{\circ}$ W       County:       Lea       State:       New Mexico         Township       20 South       Range       36 East       Section       25       Unit       A         Begin Excavation (Date/Time) $102/12/02$ Complete Excavation (Date/Time) $02/28/02$ LAND USE:       Residential       Recreational       Farm land         Check all that apply)       Residential       School/Daycare       Range land         Oil & Gas       Rural       Other:       Other:         Depth to Groundwater:       > 100 feet       50 - 99       < 50 feet	TRW Technician: <u>GJV</u>	_Excavation Crew Names:	Walton Construction	Site ID:(	Clay Cooper # 9
Township       20 South       Range       36 East       Section       25       Unit       A         Begin Excavation (Date/Time)       02/12/02       Complete Excavation (Date/Time)       02/28/02         LAND USE:       Residential       Recreational       Farm land         (Check all that apply)       Industrial       School/Daycare       Range land         Other:       Other:       Other:       Other:         Depth to Groundwater:       > 100 feet       50 - 99       < 50 feet	Site Location: Latitude 3	<u>2° 33' 5" N</u> Longitude	<u>103° 18' 5" W</u> C	County:L	eaState: <u>New Mexico</u>
Begin Excavation (Date/Time)       02/12/02       Complete Excavation (Date/Time)       02/28/02         LAND USE:       Residential       Recreational       Farm land         (Check all that apply)       Industrial       School/Daycare       Range land         Depth to Groundwater:       > 100 feet       50 - 99       < 50 feet	Township 20 South	Range 36	East Section	25	Unit A
LAND USE: <ul> <li>Residential</li> <li>Recreational</li> <li>Farm land</li> <li>Range land</li> <li>Industrial</li> <li>School/Daycare</li> <li>Range land</li> <li>Other:</li> </ul> Depth to Groundwater:         > 100 feet         50 - 99         < 50 feet	Begin Excavation (Date/Tin	ne) <u>102/12/02</u>	Complete Excavation (I	Date/Time)0	2/28/02
Depth to Groundwater:       □ > 100 feet       □ 50 - 99       ■ < 50 feet	LAND USE: (Check all that apply)	<ul> <li>Residential</li> <li>Industrial</li> <li>Oil &amp; Gas</li> </ul>	<ul> <li>Recreational</li> <li>School/Daycare</li> <li>Rural</li> </ul>	□ Far ■ Rar □ Oth	m land nge land ner:
SURFACE SOILS:       Sand       Gravel       Silt         Caliche       Clay       Other       Sandy silty clay at depth         EXCAVATION       Length       Width       Average Depth       Maximum Depth         DIMENSIONS      72       feet       45       feet       20 - 42       feet       42       feet         VOLUME EXCAVATED:      3000_yd <sup>3</sup> 9000       VOLUME HAULED TO LANDFARM:      1556_yd	Depth to Groundwater: Wellhead Protection Area: Distance to Nearest Surface	□ > 100 feet □ 50 - ■ > 1,000 feet from a wate Water Body: ■ > 1,000 feet	99         ■ < 50 feet	t $\Box < 200$ for the set from private density of the set of the se	omestic water source ext
EXCAVATION       Length       Width       Average Depth       Maximum Depth         DIMENSIONS       ~72       feet       45       feet       20-42       feet       42       feet         VOLUME EXCAVATED:       ~3.000       yd <sup>3</sup> 9000       VOLUME HAULED TO LANDFARM:       1,556       yd	SURFACE SOILS:	Sand I Caliche I	☐ Gravel ☐ Clay	□ Silt ■ Other	Sandy silty clay at depth
VOLUME EXCAVATED: 3000 yd <sup>3</sup> 9000 VOLUME HAULED TO LANDFARM; 1,556 yd	EXCAVATION DIMENSIONS	Length feet	Width 45 feet	Average Depth 20-42	Maximum Depth feet <u>42</u> feet
	VOLUME EXCAVATED	: <u>~3,000</u> yd <sup>3</sup> 9000'	VOLUME HAULEI	) TO LANDFAR	RM: <u>1,556</u> yd <sup>3</sup>

#### SUMMARY OF ANALYTICAL RESULTS

Sample ID	Sample	Sample	OVM	GRO	DRO	Benzene	Toluene	Ethylbenzene	Xylenes
(Depth)	Туре	Date	(ppm)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)	(mg/kg)
Floor-1 (20')	Grab	02-14-02	110	515	5160	<0.025	0.160	0.274	1.74
Floor-2 (38')	Grab	02-18-02	144	< 10	209	<0.025	<0.025	<0.025	0.046
Floor-3 (42')	Grab	02-20-02	29	< 10	106				
S. Wall-1 (10')	Grab	02-14-02	151	192	3480	< 0.025	<0.025	0.161	0.458
S. Wall-2 (12')	Grab	02-20-02	0	< 10	< 10		******		
S. Wall-3 (25')	Grab	02-20-02	0	< 10	< 10				
E. Wall-1 (10')	Grab	02-12-02	0	< 10	< 10		*******		
W. Wall-1 (10')	Grab	02-14-02	338	1080	5120	0.392	1.38	1.37	5.31
W. Side of Road	Carb	02 20 02	1	< 10	< 10				
Floor-1 (13')	Giao	02-20-02	1	<b>N</b> 10	< 10	******			
N. Wall-1 (10')	Grab	02-14-02	5	< 10	< 10				
Exc. Soil-1	Comp	02-14-02	199	287	2210	0.041	0.219	0.649	1.29
Backfill-1	Comp	02-14-02	2	< 10	< 10	*******			
0		T. 1. 1. 1		<b>T</b> \		1 1 100101		0	

Samples analyzed by Environmental Lab of Texas (Odessa, Texas) using EPA Method 8015M for Gas Range Organics (GRO) and Diesel Range Organics (DRO) and EPA Method 8021B for benzene, toluene, ethylbenzene, and xylenes. Indicates sample not analyzed for this constituent. Values in red indicate concentrations exceed Oil Conservation Division cleanup guidelines.

<u>District I</u> 1625 N. French	n Dr., Hobbs,	, NM 88240		Energy	State of	f New Me	exico			For	m C-141	
District II 811 South First District III	t, Artesia, NI	M 88210			Conse	mution D			Submit 2	Revised Marc	h 17, 1999	
1000 Rio Brazo	os Road, Azt	ec, NM 87410			2040 S	South Pacheco District Office in accor						
2040 South Pacheco, Santa Fe, NM 87505 Santa Fe, NM 87											le of form	
			Relea	se Notifica	tion a	and Cor	rective Act	ion				
Newser					OPER	ATOR			itial Report	Fin	al Report	
Name of Co	mpany Duke	Energy Field	d Service	s Inc.		Contact	Mı	r. Steve V	Weathers			
Address				<u></u>		Telephone	No.				<u></u>	
[Fasility Man	P. O. Box	5493, Denve	er, Colora	ido 80217		Facility T	(	(303) 60:	5-1718			
Facility Nan	le	Site Name:	CC #9			Facility 1	ype Na	tural Gas	Pipeline	)		
Surface Owi	1er			Mineral	Owner	·			Lease N	0		
Surface Own	Dale	e Cooper		wincia	owner	Unkno	own		Lease IV			
				LOCAT	TION	OF RELF	EASE					
Unit Letter	Section	Township	Range	Feet from the	North/	South Line	Feet from the	East/W	/est Line	Cou	nty	
А	25	205	36E		32°	33' 5" N		103° 1	8' 5" W	Le	a	
	<b>L</b> u , <u> </u>						ACE		<u>.                                    </u>			
Type of Relea	ise			NATU	RE U	Volume of	Release		Volume	Recovered	<u> </u>	
Course of Dat		Conden	sate			Deterrit	Unknown		~1,55	6 yd <sup>3</sup> soil re	moved	
Source of Rei	ease	Pipeli	ne			Date and H	Unknown	e	Date af	Unknown	iscovery	
Was Immedia	te Notice C	iven?	es 🔲	o <b>N</b> ot Requ	ired	If YES, To	Whom? Paul She	eley, NM	OCD Distric	xt 1		
By Whom?		Stove We		· · · · · =		Date and H	lour					
Was a Watero	ourse Reac	hed?				If YES, Vo	lume Impacting t	he Water	course.	<u> </u>	<u></u>	
		۲	es 🗖	0		N/A						
If a Watercou	rse was Im	pacted, Descri	ibe Fully.*									
N/A												
Describe Cau	se of Proble	em and Reme	dial Action	n Taken.*								
Historical con work. Remov	idensate)rel	ease caused b cted soil reque	y subsurfa	nce external corros	sion. 10' ooper).	" steel pipeli	ne was removed ir	n 1991, pi	rior to initiat	ion of excava	ation	
Describe Are On 02/12/02 long x 12 -42	a Affected a over-excav ft deep. A	and Cleanup A vation was init pproximately	Action Tak iated. Exc 1,556 cu	en.* avation continued /ds of soil was tra	l until 02 nsported	/20/02. Fina to cell C-5 a	I excavation dime tt the South Monu	ensions w Iment Lar	ere approx id Farm. Bac	-45 ft wide x kfilling of ex	κ ~72 ft ccavation	
was complete	d on 02/28. fy that the i	02. Closure r	eport, ana	ytical results, pho	tograph: lete to th	s, and site ma	ip are attached.	nderstand	that pursuar	t to NMOCI	Drules	
and regulation	ns all opera	tors are requi	red to repo	ort and/or file cert	ain relea	se notificatio	ns and perform co	prrective a	actions for re	leases which	may	
endanger pub of liability sh	olic health o ould their c	or the environment operations hav	nent. The re failed to	acceptance of a C adequately invest	C-141 rep tigate an	oort by the N d remediate o	MOCD marked as contamination that	s "Final R t pose a th	eport" does: areat to grou	not relieve th nd water, sur	e operator	
water, human	health or t	he environme	nt. In add	ition. NMOCD ac	ceptance	e of a C-141	report does not re	lieve the	operator of r	esponsibility	for	
		el leueral, sta		naws and/or regu	liations.	1	OIL CONS	ERVA	TION DI	VISION		
Signature:												
Printed Name	e: Step	hen Weathers				District Supervisor:						
Title:	Envi	ironmental Sp	ecialist		Approval Date:							
						rippioval				Attached		
Date: * Attach Ad	ditional S	heets If Nece	Phone	: (303) 605-1718		Conditions	s of Approval:			Anacheu		



1 View (facing southwest) showing CC #9 excavation site and its proximity to County Road 41.



View facing west showing hydrocarbon-impacted soil beneath release point, where drip pot was located (center of photo). An abandoned steel pipeline (removed in 1991) was located directly above the drip pot. An active 10-inch polyethylene gas pipeline is located approx. 12 feet to the north (right side of photo) of the drip pot and abandoned pipeline.

#### DIGITAL PHOTOGRAPHS OF THE CLAY COOPER #9 SITE



<sup>3</sup> View facing east showing east end of excavation (center) and non-impacted stockpile (left background). The polyethylene 10-inch gas line to the left (north) of the excavation is in service.



4 View facing north showing the north wall beneath the active 10-inch polyethylene pipeline.



5 View facing southwest showing south side of main excavation at 12 feet depth. County Road 41 is in background (top of photo)



6 View facing southeast showing floor of excavation at maximum depth (42 feet).



View facing west showing west wall of main excavation at completion of excavation activities.
 Excavation activities on the west side of County Road 41 is shown in the background (top of photo)



8 View facing south showing south wall of excavation at maximum depth (42 feet).

#### ATTACHMENT A

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#### **TOPOGRAPHIC MAP**

### SITE DATA FORM

C-141 FORM

#### **PHOTODOCUMENTATION**



District I 1625 N. French District II	ı Dr., Hobbs,	, NM 88240		Energy	State of Mineral	of New Mexico Is and Natural Resources Form C-141 Revised March 17, 1991							
811 South First	, Artesia, NM	<b>M 882</b> 10		(	Jil Cons	ervation T	livision		Submit	2 Copies to a	opropriate		
1000 Rio Brazo District IV	os Road, Azt	ec, NM 87410		,	2040 \$	South Pac	heco		Distri	ct Office in a with Rule 11	ccordance 6 on back		
2040 South Pac	checo, Santa	Fe, NM 87505	Dalaa	NI - 4* C	Santa	$\frac{1}{100}$	/505		<u> </u>	si	te of form		
			Kelea	se notifi		and Cor	rective Act				1.5		
Name of Co	mpany				OPER	Contact			nitial Report	Fin	al Report		
	Duke	Energy Fiel	d Service	s Inc.		Tuluation	M	r. Steve	Weathers		. <u></u>		
Address	P. O. Box	5493, Denve	er, Colora	ido 80217		1 elephon	e NO(	(303) 60	5-1718				
Facility Nam	ne	Site Name	: CC #9	·		Facility T	ype Na	tural Ga	s Pipeline				
Surface Owr	ner			Mine	eral Owner	r			Lease N	о.			
	Dale	e Cooper		<u>)</u>		Unkn	own	•••••••••••••••••••••••••••••••••••••••					
Unit Lattar	Section	Township	Danga	LOC	ATION	OF RELI	EASE Feet from the	Fact/V	Vest Line	Cau			
Unit Letter	Section	Township	Kange	reet nom u	ie Norm	South Line	reet nom me	Easu	west Line	Cou	шу		
<u>A</u>	25	205	36E	<u> </u>	32°	<u>33' 5" N</u>	<u> </u>	103°	<u>18' 5" W</u>	Le	<u>a</u>		
				NAT	TURE O	FRELE	ASE						
Type of Relea	ise	Conden	isate			Volume of	Volume of Release Volume Recovered Unknown ~1.556 vd <sup>3</sup> soil removed						
Source of Rel	ease	Pineli	ne			Date and H	Hour of Occurrenc	e	Date a	nd Hour of D	iscovery		
Was Immedia	te Notice G	iven?	es 🗔	o Jot Re	equired	If YES, To	Whom? Paul She	elev. NN		ct 1			
By Whom?			·······			Date and H	lour				w		
Was a Watero	ourse Reac	Steve We	athers			If YES, Ve	olume Impacting t	he Water	rcourse.		<u> </u>		
	-		es	0		N/A							
If a Watercou	rse was Imp	pacted, Descri	ibe Fully.*										
N/A													
Describe Cau	se of Proble	em and Reme	dial Action	1 Taken.*									
Historical cor work. Remov	densate rel	lease caused b	y subsurfa	ice external co ndowner (Clay	rrosion. 10 / Cooper).	" steel pipeli	ne was removed in	n 1991, p	rior to initiat	ion of excava	tion		
Describe Area	A ffacted of	and Cleanum (	Action Tal								<u> </u>		
On 02/12/02	over-excav	ation was init	tiated. Exc	avation contin	ued until 0	2/20/02. Fina	al excavation dime	ensions v	vere approx.	-45 ft wide	ĸ ~72 ft		
long x 12 -42 was complete	ft deep. A d on 02/28/	pproximately /02. Closure r	1,556 cu j eport, ana	yds of soil was lytical results,	transported photograph	d to cell C-5 a is, and site ma	at the South Monu ap are attached.	iment La	nd Farm. Bao	kfilling of ex	cavation		
I hereby certi-	fy that the i	nformation gi	ven above	is true and co	mplete to the	ne best of my	knowledge and up	nderstan	d that pursual	nt to NMOCI	D rules		
endanger pub	lic health o	or the environ	nent. The	acceptance of	a C-141 re	port by the N	MOCD marked as	s "Final I	Report" does	not relieve th	ne operator		
of liability sh water, human	health or t	perations hav he environme	e failed to nt. In add	adequately in ition. NMOCI	vestigate ar ) acceptanc	id remediate of a C-141	contamination that report does not re	t pose a t lieve the	hreat to grou operator of r	nd water, sur esponsibility	face for		
compliance w	ith any oth	er federal, sta	te, or loca	l laws and/or r	egulations.		OIL CONS	CDV A					
Signatura						OIL CONSERVATION DIVISION							
Printed Name	e: Step	hen Weathers		<u>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</u>		Approved by District Supervisor:							
Title:	Envi	ironmental Sp	ecialist			Approval	Date:		Expiration	Date:			
Date:			Phone	·· (303) 605-17	118	Conditions of American Attached							
* Attach Ad	ditional SI	heets If Nece	essary	. (303) 00341	10	1 Conumon	s or Approval.						

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ATTACHMENT B

#### LABORATORY ANALYTICAL REPORTS

#### AND

#### **CHAIN-OF-CUSTODY DOCUMENTATION**

# ENVIRONMENTAL LAB OF $\checkmark$ I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: 02/14/02 Receiving Date: 02/14/02 Analysis Date: 02/14/02

		GRO C6-C10	DRO >C10-C28	
ELT#	FIELD CODE	mg/kg	mg/kg	
0202603-01	Floor-1 (20')	515	5160	
0202603-02	S. Wall-1 (10')	192	3480	
0202603-03	W. Wall-1 (10')	1080	5120	
0202603-04	N. Wall-1 (10')	<10	<10	
0202603-05	Exc. Soil-1	287	2210	
0202603-06	Backfill-1	<10	<10	

QUALITY CONTROL	570	625
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	114	125
SPIKED AMOUNT	500	500
ORIGINAL SAMPLE	<10	<10
SPIKE	531	591
SPIKE DUP	520	580
% EXTRACTION ACCURACY	104	116
BLANK	<10	<10
RPD	2.09	1.88

Methods: SW 846-8015M

une Celey D. Kee Raland K /Tuttle

02/15/02 Date

ENVIRONMENTAL LAB OF  $\checkmark$  I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 2.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC #9 Sampling Date: 02/14/02 Receiving Date: 02/14/02 Analysis Date: 02/14/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202603-01	Floor-1 (20')	<0.025	0.160	0.274	1.74	0 270
0202603-02	S. Wall-1 (10')	<0.025	<0.025	0.161	0.458	0.138
0202603-03 0202603-05	W. Wall-1 (10') Exc. Soil-1	0.392 0.041	1.38 0.219	1.37 0.649	5.31 1.29	0.528 0.265
0202603-01 0202603-02 0202603-03 0202603-05	S. Wall-1 (10') W. Wall-1 (10') Exc. Soil-1	<0.025 <0.025 0.392 0.041	<0.025 1.38 0.219	0.274 0.161 1.37 0.649	0.458 5.31 1.29	0. 0. 0. 0.

QUALITY CONTROL	0.111	0.115	0.109	0.227	0.102
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	111	115	109	114	102
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	0.041	0.219	0.649	1.29	0.265
SPIKE	0.116	0.122	0.139	0.279	0.120
SPIKE DUP	0.116	0.117	0.142	0.285	0.127
% EXTRACTION ACCURACY	114	113	113	114	109
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	0.00	4.18	2.14	2.13	5.67

METHODS: EPA SW 846-8021B ,5030

Celey D. Keene Raland K. Tuttle

15/0

Trident Environmental P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)

V-106-CC9-01 Chain of Custody

Date 2-13-02 Page \_\_\_\_\_ of \_\_\_\_

Lab Name: Envir	ronmental Lab of Tex	as, Inc.		T									A	nalys	sis R	eque	est								]
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Project Name: Duke	Energy Field Services	Total Contair	iers:		Trid	ent E	nviro	nme	ental																
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Project Manager: Gil V	an Deventer	Rec'd Good (	Cond/Cold:	200	(Signa	M/a	kī	<del>/</del>				(Signat	ture)						(Signati	ure)					7
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\* RUSH BOIS only

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"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 4.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: See Below Receiving Date: 02/18/02 Analysis Date: 02/18/02

ELT#	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	SAMPLE DATE	
0202622-01	E. Wall-1 (10')	<10	<10	02/12/02	
0202622-02	Floor-2 (38')	<10	209	02/18/02	

	477	550
	4//	550
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	95	110
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	593	644
SPIKE DUP	563	598
% EXTRACTION ACCURACY	118	126
BLANK	<10	<10
RPD	5.19	7.41

Methods: SW 846-8015M

Celey D. Keene

Raland K. Tuttle

-19-02 Date

ENVIRONMENTAL LAB OF  $\checkmark$  I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79706 FAX: 682-0727

Sample Type: Soil Sample Condition: Intact/ Iced/ 4.0 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC #9 Sampling Date: 02/18/02 Receiving Date: 02/18/02 Analysis Date: 02/18/02

ELT#	FIELD CODE	BENZENE mg/kg	TOLUENE mg/kg	ETHYLBENZENE mg/kg	m,p-XYLENE mg/kg	o-XYLENE mg/kg
0202622-02	Floor-2 (38')	<0.025	<0.025	<0.025	0.046	<0.025

QUALITY CONTROL	0.091	0.094	0.086	0.186	0.086
TRUE VALUE	0.100	0.100	0.100	0.200	0.100
% INSTRUMENT ACCURACY	91	94	86	. 93	86
SPIKED AMOUNT	0.100	0.100	0.100	0.200	0.100
ORIGINAL SAMPLE	<0.025	<0.025	<0.025	<0.025	<0.025
SPIKE	0.092	0.096	0.093	0.201	0.091
SPIKE DUP	0.088	0.092	0.089	0.192	0.088
% EXTRACTION ACCURACY	92	96	93	100	91
BLANK	<0.025	<0.025	<0.025	<0.025	<0.025
RPD	4.44	4.26	4.40	4.58	3.35

METHODS: EPA SW 846-8021B ,5030

Celey D. Keene

Raland K. Tuttle

2-19-02 Date

# Environmental Lab of Texas, Inc.

12600 West I-20 East Phone: 915-563-1800			CHAIN OF CUSTODY RECORD AND ANALYSIS REQUEST
Project Manager: Gillan Devie	onte-		Project Name: Dike Fingeran Field SI
Company Name Trident Enviro	price		$\frac{V - 10l_{a}}{V - 10l_{a}}$
Company Address: PD Box 7/62	4		$\frac{1}{2} = \frac{1}{2} = \frac{1}$
city/State/Zip: Midland Tx	79706		PO #:
Telephone No: 915 7682 - 0808	Fax	No: 918-682-07	27
Sampler Signature:			
			Analyze For: TCLP:
		Preservative	Matrix &
LAB#(lab.use only) FIELD CODE 02.02022-01 E.Wall-1 (101) 02 Floor-2 (381)	Date Sampled           02         120-02           7.0-01         20-01           7.0-02         140           7.0-01         7.0-01	C C C No. of Containers No. of Containers tee HCI HCI NaCH HCI NaCH HCI NaCH NaCH Containers	Water       Sludge       Sludge       Sudge       Other (specify)       Driver (specify)       Dr
		╾┼╼╂┼╍┼╌┼╶┼╶┼	┝┼┼┼┨┼┼┼┼┼┼┼┼┼┼┼┼
Special Instructions:	II		Sample Containers Intact?
Invoice direct to Duke Energy Field Sus	(Aftn: Steve W	eathers)	Temperature Upon Receipt:
Relinquished by: 2/18/12 5:13/12 13/12	Received by:		Date Time 760 4
Relinquished by: Date Time	Received by ELOT. Jane MG	munez 2-	Date Time -18-2 1713

# ENVIRONMENTAL LAB OF $\checkmark$ I, LTD.

"Don't Treat Your Soil Like Dirt!"

TRIDENT ENVIRONMENTAL ATTN: GILBERT VAN DEVENTER P.O. BOX 7624 MIDLAND, TEXAS 79708 FAX: 682-0808

Sample Type: Soil Sample Condition: Intact/ Iced/ 3.5 deg C Project Name: Duke Energy Field Services Project #: V-106 Project Location: CC#9 Sampling Date: 02/20/02 Receiving Date: 02/20/02 Analysis Date: 02/20/02

<u>ELT#</u>	FIELD CODE	GRO C6-C10 mg/kg	DRO >C10-C28 mg/kg	
0202638-01 0202638-02	West Side of Road-Floor-1 (13') 5. Wall-2 (25')	<10 <10	<10 <10	
0202638-03	S. Wall-3 (12')	<10	<10	

QUALITY CONTROL	463	530
TRUE VALUE	500	500
% INSTRUMENT ACCURACY	93	106
SPIKED AMOUNT	476	476
ORIGINAL SAMPLE	<10	<10
SPIKE	515	603
SPIKE DUP	536	587
% EXTRACTION ACCURACY	113	123
BLANK	<10	<10
RPD	4.00	2.69

Methods: SW 846-8015M

Celey D. Keene Raland K. Tuttle

aliler

**Trident Environmental** P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)



# V-106-CC9-02 Chain of Custody

Date 2.20-0L Page / of /

Lab Name: Er	nvironmental	Lab of Tex	as, Inc.		T									Ar	alys	sis R	eque	est								
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Telephone: (9	15) 563-1800	0	Fax: (915)	563-1/13	l g	<u>a</u>	<u>(</u>	6						ΰ	ନ					ļ					{ !	Itain
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Project Manager: Gi	l Van Deven	ter	Rec'd Good C	Cond/Cold:	3.20	Z	<u>Wa</u>	K	X	(T)	<u> </u>		(0.9.14)				(Time)			(Orgina				(71		
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\* RUSH

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# ANALYTICAL REPORT

# **Prepared for:**

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

Project:Duke Energy Field ServicesOrder#:G0202643Report Date:02/27/2002

<u>Certificates</u> US EPA Laboratory Code TX00158

# ENVIRONMENTAL LAB OF TEXAS SAMPLE WORK LIST

TRIDENT ENVIRONMENTAL P.O. BOX 7624

MIDLAND, TX 79708 915-682-0727 Order#:G0202643Project:V-106Project Name:Duke Energy Field ServicesLocation:CC#9

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.

			Date / Time	Date / Time		
Lab ID:	Sample :	Matrix:	Collected	<u>Received</u>	<u>Container</u>	<b>Preservative</b>
0202643-01	Floor-3 (42')	SOIL	02/20/2002	02/21/2002	4 oz glass	Ice
			9:30	10:25		
La	<u>b_Testing:</u>	Rejected: No	Tem	np: 3.5 C		
	8015M TPH GRO/I	DRO				

# **ENVIRONMENTAL LAB OF TEXAS ANALYTICAL REPORT**

Order#:

**Project:** 

Location:

**Project Name:** 

G0202643

**Duke Energy Field Services** 

V-106

CC#9

#### GILBERT VAN DEVENTER TRIDENT ENVIRONMENTAL

P.O. BOX 7624 MIDLAND, TX 79708

0202643-01

Lab ID: Sample ID:

Floor-3 (42')

Method Blank	Date Prepared	8015M T Date Analyzed	<b>PH GRO/D</b> Sample Amount	RO Dilution Factor	Analyst	Method
0000701-02		02/24/2002 14:32	1	1	СК	8015
	Parameter		Resul	lt g	RL	
	GRO, C6-C12		< 10.	0	10.0	
	DRO, >C12-C28		106		10.0	

2-27-02 Approval:

Raland K. Tuttle, Lab Director, QA Officer Celey D. Keene, Org. Tech. Director Jeanne McMurrey, Inorg. Tech. Director Irene Perry, QA Assistant Sandra Biezugbe, Lab Tech. Curt Cowdrev, Lab Tech. Sara Molina, Lab Tech.

Date

N/A = Not Applicable RL = Reporting Limit

Page 1 of 1

# ENVIRONMENTAL LAB OF TEXAS QUALITY CONTROL REPORT 8015M TPH GRO/DRO

Order#: G0202643

BLANK	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000701-02		······	<10		
DRO, >C12-C28-mg/kg	0000701-02			<10		
MS	LAB-ID #	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202645-01	0	480	530	111.1%	
DRO, >C12-C28-mg/kg	0202645-01	0	480	550	115.1%	
MSD	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0202645-01	0	480	520	108.6%	2.3%
DRO, >C12-C28-mg/kg	0202645-01	0	480	560	116.6%	1.3%
SRM	LAB-ID#	Sample Concentr.	Spike Concentr.	QC Test Result	Pct (%) Recovery	RPD
GRO, C6-C12-mg/kg	0000701-05		500	480	97.%	0.%
DRO, >C12-C28-mg/kg	0000701-05		500	470	94.8%	0.%

**Trident Environmental** P.O. Box 7624 Midland, Texas 79708 (915) 682-0808 (915) 682-0727 (Fax)

# V-106-CC9-03 Chain of Custody

Date 2-21-02 Page \_\_\_\_ of \_\_\_\_

Lab Name	e: Environmenta	I Lab of Tex	as, Inc.	Analysis Request																							
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Project Name:	Duke Energy Fi	eld Services	Total Contair	ers:	1	Trid	ent E	Invir	onme	ental	·			-				·	_								
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Project Manager:	Gil Van Dever	nter	Rec'd Good (	Cond/Cold:	<u> </u>	2	10	in e	<u>k</u>	4			(Sigria				(Time)			(Signa				(Time)			
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# ATTACHMENT C

### **FIELD BOOK NOTES**

2-12-02 Objective Begin excavation of site located adjacent to county roul. Eventhe (leave, coul (50°s), breezy Porsonne / Equipment Mike Neasley Trackhor 2 Pozers with operators Roy Dozens had to push sand denes back to make norm for stockpling and access. Did a little exiguation along 10" Drisco DEPS pipelino from rouge (dital) formands past. No other pipelines in area when we are working. One Rice Operating line a ways horth per Roy. County is doing road work (watering blading, compacting, etc). Jin Jones Works For Lea County Road Dept.

2-12-02 2-12-02 Concentrated on dissing small avea near road (west end) East end looks very clean all the 20064 Nay to the pipeline marker where 10" Divisco connects f. 12" steel Another live used to be adjacent to the existing DEFS pipeline (sorth) but was removed - yrs -go - old pipeline ROW ( pipe no linger in place. At first we thought we tound a vennant of old pipeline but it turned out to bre a drip pot and was the apparent surce of some localized contamination the "drip pot" is a short (~6 ft) section of 12" steel pilpe oned to collect liquids and periodiculty (old lim) (old lim) (ounty Rad was drained

CCHQ 2-14-02 (C#19 2-13-02 -New cattle guest being installed by void dept. Excavated a bit more around drip pot, Contamination appears localized to drip pot area and Canty Road extends toward road County voal dept. suggested DÉFS lower the pipeline where it 20 crosses the road. I notified stan Shave of this & he de made a site visit to discuss with road dept Should be read to coller Sove samples tomorrow Task photos.

21402 (CH9 2.15-02 CC#9 Called in the Mike my Valta to Collected samples from floor (20) give him and that possite and and 3 wills (south, west, & north) isstudied him to continue excavaling midway down (10 bas). south walk and deeper. Mile said he would have to spand Sangle ID Time OVM some time on the track have to \* Floor-1 (20') 1320 110 build a sheld on south side to \* SW211-1 (10') 1324 151 ke able to get deeper Wourt W, W, 11-1 (10') 338 1336 N.WA11-1 (10) be ready to Sample anything 1345 5 unt. Monday, 199 Exc Soil 1353 BackFill-1 Z 1400 2-13-02 3.00 pm Back on sit to collect floor Délivered samples to lab (Env. Lab of F; & requested rush analysis (8015 only) sample at 38 bass Johnon with OCP also deve up on site Sand tike OV M Calib recard OUM read 86 pph - Span gas (100 ppm isobut the so re-calibrated instrument to read 100ppm with span gas.

2-18, 02 CC#9 0900 - 1100 Durine Milland to CCH9 1100 the Stopped by CCH 9 sil to check on status the is about 30 bys and night be close at that depth. There is a lease of highroundown stained soil about 2' thick above a bed of caliche (about the 25-27 level bys) Instructed more to dig out more of the south wall & to the 30' depth level Swill be back later to sample it they're Verdy .. Last CCH9 sit to lo 08m at Kiham Rand Plant 3100 pm back on site to collect Floor sample at 38 bgs Paul Sheeley & Larry Johnson (NMOCD) also drove up on site at some time. Then doserved excavation & scrap pipe (From drip pot).

2-18-02 OUN Calibration record . Betwe calibration 100 ppm isobutylene 3 pan gas measured 36 ppm. Att Attac calibration it read 100 ppm. Collected floor sample the at 2:20 pm MST Floor-2(38') OUM - 144 ppm At first Paul Sheden suggestal that he would require us to excavate under the road but said he would be satisfied if we dug a trench and sampled there. Still needs excavation along South

2-20-02 (049 2.20.02 Cver exerciced south wold for the Expanded have to 42 bys and also excavated on west side of road divertly below abundaned 12 steel pipe line Cullerteil samples Time HTT Floor -3(42') GVM 29 0930 W. Road-Floor-1(13) 1000 5. Wall-3 (25') 1030 0 D 5. Wall 3 (12') 1040 E. W. 11-160 OVM measured 40 ppm will calibration gas (100 ppm isobut fine) before and after sample measurements. Good calibration 420 5.441-1(10') - j s. Wall-3 (12') Y'l ... - 2 (3; ) K-12'- 14 W. W. W. 11 1 (10') - Flore -- 3 (42') 4.120 - W ROM - Flow -1(13)