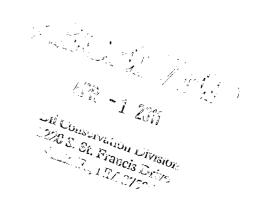
### 1R-426-279

### REPORTS

DATE:

8-26-10

### BD Jct. C 23-1 2010



### **DISCLOSURE**

### RICE OPERATING COMPANY JUNCTION BOX DISCLOSURE\* REPORT

BOX LOCATION

Bineton-Dinkerd   ct. C 23+1   C   23   228   37E   Lea   Leagn   Le		SWD SYSTEM	JUNCTION	UNIT	SECTION			COUNT	/ BOX DI	IMENSIONS - FEE	ĒT
Depth to Groundwater 59 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20  Date Started 1/27/2010 Date Completed 3/23/2010 OCD Witness no composition of the composition o		Blinebry-Drinkard (BD)  LAND TYPE: BLM STATE FEE LANDOWNER W  Depth to Groundwater 59 feet NMOCD SITE  Date Started 1/27/2010 Date Completed 3/23/2  Soil Excavated 77.8 cubic yards Excavation Length  Soil Disposed 156 cubic yards Offsite Facility STATE Procure 5-point composite sample of bottom and 4-point or NMOCD guideline  Procure 5-point composite sample of bottom and 4-point or NMOCD guideline  Sample PID (field) GRO DRO Chlc mg/kg mg/			37E Lea		5'				
Depth to Groundwater 59 feet NMOCD SITE ASSESSMENT RANKING SCORE: 20  Date Started 1/27/2010 Date Completed 3/23/2010 OCD Witness no composition of the composition o		<b>!</b>	1		<u> </u>	1	L	_			
Date Started 1/27/2010 Date Completed 3/23/2010 OCD Witness no Soil Excavated 77.8 cubic yards Excavation Largth 35 width 5 Depth 12 feet Soil Excavated 77.8 cubic yards Offsite Facility Sundance Location Eunice, NM Soil Disposed 156 cubic yards Offsite Facility Sundance Location Eunice, NM Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.  Sample PID (field) GRO DRO Chlorides mg/kg mg/kg mg/kg mg/kg 4-WALL COMP. 0.1 <10.0 <10.0 794 Mg/kg Mg/k		LAND TYPE:	BLM	STATE	FEE LAI	NDOWNER	Walco	Ranch, LL	COTHER_		
Soil Disposed 156 cubic yards Offsite Facility Sundance Location Eunice, NM  FINAL ANALYTICAL RESULTS: Sample Date 2/24/2010 Sample Depth 12 ft.  Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMCCD guidelines.  Sample PID (fled) GRO DRO Chlorides to NMCD guidelines.  Sample PID (fled) GRO DRO Chlorides mg/kg  4-WALL COMP, 0.1 < 10.0 < 10.0 < 744  4-WALL COMP, 0.3 < 10.0 < 10.0 < 12.200  BOTTOM COMP, 0.3 < 10.0 < 10.0 1.310  Sample Description of Remedial Action: This junction box and line were eliminated furing the pipeline replacement/upgrade program. After the former junction box was amoved, an investigation was conducted using a backheb to collect samples at regular intervals producing a 35-6x12-ft deep excavation. Chloride field tests were performed on gloring the pipeline replacement/upgrade program. After the former junction box was ample which did not rolent with depth. Organic vapors, measured using a PID, 10' 4.129 (surfect) 10' 4.1		Depth to Grou	ndwater	59	_feet	NMO	CD SITE AS	SESSME	NT RANKING S	CORE:2	20
FINAL ANALYTICAL RESULTS: Sample Date 224/2010 Sample Depth 12 ft.  Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMCD guidelines.  Sample PID (field) GRO DRO Citorides Manager Manage		Date Started	1/27	2010	_ Date Co	mpleted	3/23/2010	oc	D Witness	no	
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Procure 5-point composite sample of bottom and 4-point composite sample of sidewells. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMCCD guidelines.  Sample PID (field) GRO DRO Chlorides mg/kg		Soil Disposed	156	cubic ya	irds Of	fsite Facility	S <u>un</u>	dance	Location _	Eunice, N	<u>IM</u>
Procure 5-point composite sample of bottom and 4-point composite sample of sidewells. TPH and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMCCD guidelines.  Sample PID (field) GRO DRO Chlorides mg/kg		141 ABIAL V.T	10 A 1 DE	OLU TO.						45	2.5
Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.    Sample	-11	IAL ANALY I	ICAL RE	SUL 15:	Sample	e Date	2/24/2	2010	Sample De	oth12	<u>2 π.</u>
Location ppm mg/kg mg/kg mg/kg Mg/kg 4-Wall COMP. 0.1 <10.0 <10.0 784 4-Wall COMP. 0.3 <10.0 <10.0 1.310 bottom comp. 12' 2532 backfill COMP. 0.0 <10.0 <10.0 1.310 bottom comp. 12' 2532 backfill COMP. 0.0 <10.0 <10.0 1.310 bottom comp. 12' 2532 backfill comp. n/a 1.749 background 6' 211 sackfill comp. n/a 1.749 background 6' 2.391 metrovals producing a 35x5x12-ft deep excavation. Chloride field tests were performed on sackfill comp. n/a 1.749 background 6' 2.391 metrovals producing a 35x5x12-ft deep excavation composite samples were collected from the blended backfill, the bottom of the excavation of producing area. An 12' 4.616 composite samples were collected from the blended backfill the remaining excavation up to 6 ft. below ground surface (BGS). AT 6-5 ft. BGS a 1-ft. hick clay barrier was installed with a compaction test performed on 32/32/2010. The remaining backfill was hauled to an NMOCD approved actific sackfill comp. n/a 1.749 background for composite sackfill comp. n/a 1.749 background for composite sackfill comp. n/a 1.749 backg					sults complet	ted by using	an approved				
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	Α		arry Bruce Ba	ker Jr.	INITIAL 6	LBB			•		
	PRO.					Lany a prioritized lis	Buce to the similar sites	Sales post for further of	DATE_consideration.	8-26	-10

3/25/201 2/19/2010 Seeding excavation Unit C, Section 23, T22S, R37E Taking a sample 3/23/2010 112712010 BD Jct. C-23-1 Junction box prior to excavation

Docufilling site above clay liner



ANALYTICAL RESULTS FOR RICE OPERATING COMPANY ATTN: BRUCE BAKER 122 W. TAYLOR HOBBS, NM 88240

Receiving Date: 02/24/10 Reporting Date: 03/01/10

Project Number: NOT GIVEN

Project Name: BD JCT. C-23-1 (2237) Project Location: BD JCT. C-23-1 (2237) Sampling Date: 02/24/10 Sample Type: SOIL

Sample Condition: COOL & INTACT

Sample Received By: JH Analyzed By: AB/HM

GRO

DRO  $(C_6-C_{10})$  (>C<sub>10</sub>-C<sub>28</sub>) CI\*

LAB NUMBER SAMPLE ID

(mg/kg) (mg/kg) (mg/kg)

ANALYSIS D	PATE	02/26/10	02/26/10	02/26/10
H19336-1	5PT BOTTOM COMP @ 12'	<10.0	<10.0	2,200
H19336-2	4-WALL COMP.	<10.0	<10.0	784
H19336-3	BLENDED BACKFILL	<10.0	<10.0	1,310
		<u> </u>		
Quality Conti	rol	392	476	510
True Value C	OC .	500	500	500
% Recovery		78.4	95.2	102
Relative Per	cent Difference	1.9	4.8	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; CIT; Std. Methods 4500-CITB

\*Analysis performed on a 1:4 w:v aqueous extract.

Reported on wet weight.

### H19336 TCL RICE

# CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

ARDINAL LABORATORIES
101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 78603

505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

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300		Sample I.D.	10%	9	4							
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Z	Man # # 12 F	S O O	6	12	1						k 4	
mpa	Project Manager: Address: 12 City: Hobb Phone #: 575 Project Name: Project Location:	Sampler Name: FOR LAB USE ONLY Lab I.D.	1-9%661									,
ပ္ပ	문 B 등 등 등 등	8	三						<u>L.</u>			

Kesuits To I Purvis @ Ric REgans 8 baker Co Yes 7 Yes Received By Time: Sampler JUPS - Bus - Other: Delivered By: (Circle One) Relinquished By

† Cardinal cannot accept verbal changes. Please fax written changes to 505-393-2476

### RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240 PHONE: (575) 393-9174 FAX: (575) 397-1471 PID METER CALIBRATION & FIELD REPORT FORM

		Check Mo	odel Number:		
	Model: PGM 7300	Serial No: 590-000183		Model: PGM 7600	Serial No: 110-023920
L	Model: PGM 7300	Serial No: 590-000508		Model: PGM 7600	Serial No: 110-013744
	Model: PGM 7300	Serial No: 590-000504		Model: PGM 7600	Serial No: 110-013676

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOTNO:	925621	EXPIRATION DATE: 9-27-2012
FILL DATE:	9-28-09	METER READING ACCURACY: 99.8

ACCURACY: +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BO	C-23-1	C	23	22	37

SAMPLE ID	PID	SAMPLE ID	PID
Bottom 5 pt. Composite	0.3		
Blended Backfill	8		
4-Wall Composite	0.1		
		COPY	

I verify that I have calibrated the above instrument in accordance to the manufacture operation manual.

SIGNATUE: Robert June

DATE: 2-24-2010



### \*Corrected Copy 8/20/10 LABORATORY TEST REPORT PETTIGREW & ASSOCIATES, P.A.

### 1110 N. GRIMES

HOBBS, NM 88240 (575) 393-9827



DEBRA P. HICKS, P.E./L.S.I. WILLIAM M. HICKS. III, P.E./P.S.

To:

Rice Operating Company

122 W. Taylor

Hobbs, NM 88240

Material:

Wallach Red Clay

Test Method:

ASTM: D 2922

Project:

BD JCT C-23-1 (22/37)

Project No. 2010.1074

\*Date of Test:

March 23, 2010

Depth:

See Below

Depth of Probe:

12"

\*Dry Density

% Max Test No. Location % Moisture Depth FSG SG 2 20' S. & 10' W. of NE Corner of Pit 91.3 16.1



**Control Density:** 

**ASTM: D 698** 

**Optimum Moisture:** 

20.3%

Required Compaction: 90-95%

Densometer iD:

5572

Lab No.:

10 2305-2306

**PETTIGREW & ASSOCIATES** 

Copies To:

**Rice Operating** 

P.E.



### ETTL Engineers & Consultants Inc. GEOTECHNICAL \* MATERIALS \* ENVIRONMENTAL \* DRILLING \* LANDFILLS

### HYDRAULIC CONDUCTIVITY DETERMINATION FLEXIBLE WALL PERMEAMETER - CONSTANT VOLUME (Mercury Permometer Test)

Date	Pettigrew &	associales, i		, NM - Project			Report No: 1-	1201-00000	ý
Date:	2/5/2010			anei Number :		P3; ASTM	D 5084		
Project No.:	C 4635-101	Per	mometer D	ate					
Boring No.:			ap =	0.031418	cm2	But Mercury to	Equilibrium	1.8	cm3
Sample:	8540		88 =	0.767120			Pipet Ro	6.7	cm3
Depth (ft):			M1 =	0.030180	C=	0.000434704	Annulus Ra	1.5	cm3
Other Location:	Wallach Plan	nt Eunice	M2 =	1.040953	Te	0.203790628			
Material Des	cription :	Red Clay (	Your Samp	le No 10 1422-	-1424) Com	pacted D 698 a	t 95% of your P	A/D curve (	vet side)
				8AMPLI	E DATA			-	
Wet Wf. sam	ple + ring or t	ate :	561.37	9					
Tare or ring			0.0	g		Before	e Test	After	Test
Wet Wit: of S		•	561.37	g		Tare No.:	T 6	Tare No.:	ТЭ
Diameter:	2.77	in	7.05	cm2	-	Wel WL+tare:	731.90	Wet Wt.+tero:	
Length:	2.79	in	7.08	cm .		Dry Wt.+tere:	641.75	Dry Wt.+lare:	690.35
Area:	6.04	in^2	38.99	cm2	•	Tare Wt:	218.78	Tare Wt:	220.69
Volume:	16.84	in^3	276.92	cm3		Dry Wt.:	422.97	Ory WL:	469.66
Unit Wt.(wet):	126.95	pcf	2.03	g/cm^3		Weter Wt.:	90.15	Water W.:	110.16
Unit Wt.(dry):	104.65	pcf	1.68	g/om^3		% molst.:	21.3	% molat.:	23.5
Specific Gravity:		2.77	Max Dry D	ensity(pcf) =	104.6948	OMC =	21,3135683		
opecin ciarry.			mon on o	% of max =		+/- OMC =		•	
Calculated 9	% saturation:	99.58	Vold	ratio (e)	0.65	Parasity (n)=	0.39	•	
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			• • •				•	
				TEST RE				بسيدا التهييات	
Z1(Mercury i	Height Differe	nce @ t1):	5.1	_cm	Hydraulic (	Gradient =	9.10		
Date	elapsed (	Z	ΔΖπ	temp	α	k	k		
Date	(seconds)	(pipet @ t)	(cm)	(deg C)	(temp corr)	• •	(ft./day)	Reset = *	
2/6/2010		6	0.656997	25	0.889	1.17E-08	3.32E-05	110001	
2/5/2010		5.9	0.756997	25	0.889	1.09E-08	3.09E-05	1	
2/5/2010	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.	5.8	0.856997	25	0.889	1,08E-08	3,05E-05	t.	
2/5/2010	7800	5.7	0.956997	28	0.889	1.08E-08	3.05E-05	•	
	to a contract to the last limit	Harri 100,000-11, 000-11,111,111							
		ka ≃	1.10E-08	SUMN	IARY	Acceptance cr			
			1,106-00	CHARRED .			Mada	06	0/
		i-i			Ven	receptation of	iteria =	25	%
		<u>ki</u> k1 =	1 17F-08	cmisso	<u>Vm</u>	Ť			
		k1 =	1.17E-08		6.3	%	fteria ≃ Vm ≖	[ka-ki]	
		k1 = k2 =	1.09E-08	спувес	6.3 1.2	% %			
		k1 =	1.09E-08 1.08E-08	cm/sec cm/sec	6.3	%		[ka-ki]	
		k1 = k2 = k3 = k4 =	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec cm/sec	6.3 1.2 2.5 2.5	% % % %	Vm≖	[ka-ki]	
i	Hydraulic co	k1 = k2 = k3 = k4 =	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec 1.10E-08	6.3 1.2 2.5	% % %		[ka-ki]	
i	Void Retio	k1 = k2 = k3 = k4 =	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec cm/sec 1.10E-08 0.88	6.3 1.2 2.5 2.5	% % % %	Vm≖	[ka-ki]	
į	Void Retio Perosity	k1 = k2 = k3 = k4 =	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec cm/sec 1.10E-08 0.88 0.39	6.3 1.2 2.5 2.5	% % % % 3.13E-05	Vm ≖ ft/day	[ka-ki]	
i	Void Ratio Porosity Bulk Density	k1 = k2 = k3 = k4 = nductivity	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec 1.10E-08 0.88 0.39	6.3 1.2 2.5 2.5 cm/sec	% % % % 3.13E-05	Vm ≖ ft/day	[ka-ki]	
	Void Ratio Porosity Bulk Density Water Conte	k1 = k2 = k3 = k4 = nductivity	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm ≖ ft/day	[ka-ki]	
	Void Ratio Porosity Bulk Density	k1 = k2 = k3 = k4 = nductivity	1.09E-08 1.08E-08 1.08E-08	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 cm/sec	% % % % 3.13E-05	Vm ≖ ft/day	[ka-ki]	
	Void Retio Porosity Bulk Density Water Conte Intrinsic Peri Uquid Umit	k1 = k2 = k3 = k4 = nductivity  int meability	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm ≖ ft/day	[ka-ki]	
	Void Retio Porosity Bulk Density Water Conte Intrinsic Peri	k1 = k2 = k3 = k4 = nductivity  int meability	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm =	[ka-ki]	
	Void Retio Porosity Bulk Density Water Conte Intrinsic Peri Uquid Umit	k1 = k2 = k3 = k4 = nductivity  Interpolation the meability  LL  PL	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm ≖ ft/day	[ka-ki]	
	Void Ratio Porosity Bulk Density Water Conte intrinsic Peri Liquid Limit Piastic Limit	k1 = k2 = k3 = k4 = nductivity  Interpolation the meability  LL  PL	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm =	[ka-ki]	
	Void Ratio Porosity Bulk Density Water Conte Intrinsic Per Uquid Limit Piastic Limit Plasticity inc	k1 = k2 = k3 = k4 = nductivity  Interpretation the meability  LL PL fex Pl	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	cm/sec cm/sec 1.10E-08 0.85 0.39 2.03 0.36 1.13E-13	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm =	[ka-ki]	
	Void Ratio Porosity Bulk Density Water Conte intrinsic Peri Liquid Limit Piastic Limit Plasticity inc - 200 Sleve	k1 = k2 = k3 = k4 = nductivity  Interpretation to the content of t	1.09E-08 1.08E-08 1.08E-08 k = 0 n = 7 W =	Cm/sec cm/sec 1.10E-08 0.88 0.39 2.03 0.36 1.13E-13	6.3 1.2 2.5 2.5 2.5 em/sec g/cm3 em3/em3	% % % % 3.13E-D5	Vm =	[ka-ki]	

Texarkena, AR 71854 870-772-0013 Phone 870-216-2413 Fax

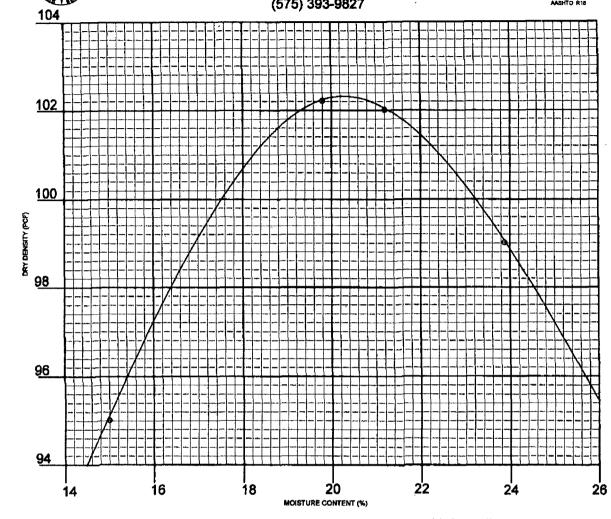
Tyler, Yexas 76702 903-695-4421 Phone 903-595-6113 Pax www.ettlino.com

707 West Cotton Street Longview, Texas 76604-6505 903-789-0915 Phone 903-769-8245 Fax

### \*Corrected Copy 2/17/10 PETTIGREW & ASSOCIATES, P.A.

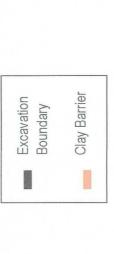
1110 N. GRIMES ST. HOBBS, NM 88240 (575) 393-9827



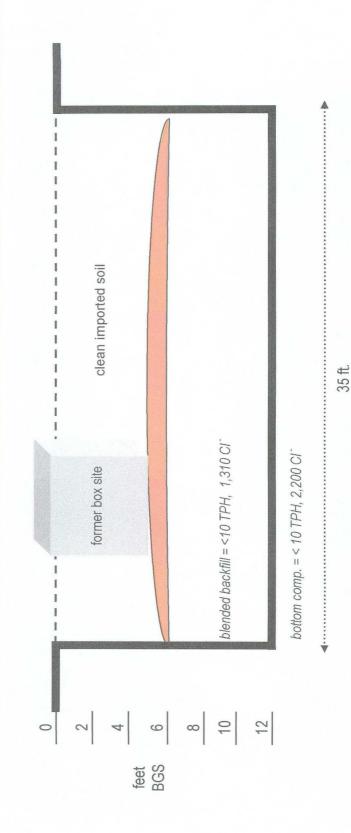


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CLIENT:	Rice Opera			CT: Proje	ct No. 20	10.1026		
SAMPLE L	OCATION:	Eunice Wallac	h Plant					
SOIL DESC	RIPTION:	Wallach Red C	lay					
	SIFICATION	N: PI	TEST M	METHOD:	ASTM: D		ered 2/8/10	<u> </u>
DATE: 2/	12/10		LAB NO	). <u>10 142</u>	22-1424			
DRY WEIG	HT LB/CU. I		MOIS		ONTENT	· %	20.3	
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					PETTIC	REW &	ASSOCIA	res
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COPIES	: Rice Ope	erating			ev.			DE

## **Excavation Cross-Section**



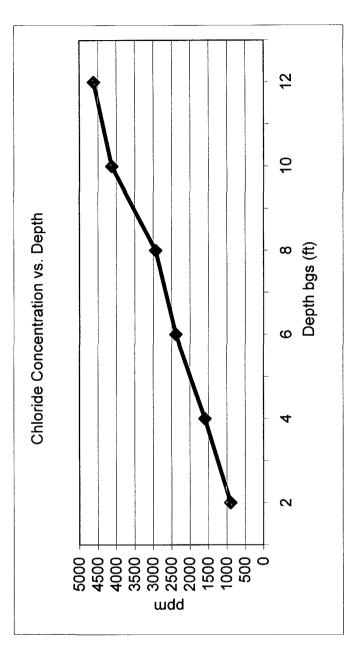
S



### **BD JCT. C-23-1** Unit 'C', Sec. 23, T22S, R37E

Backhoe samples 20 ft. south of the junction (source)

Depth bgs (ft)	[CI] ppm
2	897
4	1,597
9	2,391
8	2,932
10	4,129
12	4,616



Groundwater = 59 ft.