1R - 426-204

REPORTS

DATE:

1-6-09

BD Jct B-4-2

IR426-204

DISCLOSURE

RICE OPERATING COMPANY
JUNCTION BOX DISCLOSURE* REPORT

BOX LOCATION

SWD SYSTEM	JUNCTION	UNIT	SECTION	TOWNSHIP	RANGE	COUNTY	BOX DIMENSIONS - FEET		
							Length	Width	Depth
Blinebry-Drinkard (BD)	B-4-2	B	4	22S	37E	Lea	Eliminated		

LAND TYPE: BLM ___ STATE ___ FEE LANDOWNER Pricilla Brunson Moody OTHER ___

Depth to Groundwater 97 feet NMOCD SITE ASSESSMENT RANKING SCORE: 30*

Date Started 3/25/2008 Date Completed 4/11/2008 OCD Witness No

Soil Excavated 333 cubic yards Excavation Length 30 Width 25 Depth 12 feet

Soil Disposed 0 cubic yards Offsite Facility n/a Location n/a

FINAL ANALYTICAL RESULTS: **Sample Date** 4/1/2008 **Sample Depth** 12'

Procure 5-point composite sample of bottom and 4-point composite sample of sidewalls. TPH, BTEX and Chloride laboratory test results completed by using an approved lab and testing procedures pursuant to NMOCD guidelines.

Sample Location	Benzene mg/kg	Toluene mg/kg	Ethyl Benzene mg/kg	Total Xylenes mg/kg	PID (field) ppm	GRO mg/kg	DRO mg/kg	Chlorides mg/kg
4-WALL COMP.	<0.002	0.008	0.039	0.496	284.0	107	842	1220
BOTTOM COMP.	<0.001	<0.001	<0.001	<0.003	247.0	<10	<10	1580
BACKFILL COMP.					33.6	<10	42.9	512

General Description of Remedial Action: This junction was addressed during the pipeline replacement/upgrade program. After the former junction box was removed, an investigation was conducted using a backhoe to collect soil samples at regular intervals producing a 30X25X12-ft-deep excavation. Chloride field test were performed on each sample and chlorides didn't relent with depth. Organic vapors were measured using a PID meter. Composite samples were sent to a commercial laboratory for analysis of chloride and TPH. The blended backfill was returned up to 5 feet bgs and a 40X25X1-ft thick clay layer was installed. The remaining blended backfill was returned to the excavation and contoured to the surrounding area. NMOCD was notified of potential groundwater impact on 1/06/09

* 2 Water Wells within 1000 ft. *

ADDITIONAL EVALUATION IS HIGH PRIORITY

enclosures: photos, lab results, PID field screenings, cross section, clay test, chloride curve, BTEX

CHLORIDE FIELD TESTS

LOCATION	DEPTH	mg/kg
4-Wall COMP.	n/a	983
Bottom Comp.	12'	1201
Blended Backfill	n/a	543
vertical delineation trench at the junction (10' east of source)	2'	638
	4'	415
	6'	420
	8'	941
	10'	755
	12'	1778

I HEREBY CERTIFY THAT THE INFORMATION ABOVE IS TRUE AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REPORT ASSEMBLED BY Larry Bruce Baker Jr. INITIAL LBB COMPANY RICE OPERATING COMPANY

SITE SUPERVISOR Larry Bruce Baker Jr. SIGNATURE Larry Bruce Baker Jr.

DATE 1-6-09 TITLE PROJECT LEADER

*This site is a "DISCLOSURE." It will be placed on a prioritized list of similar sites for further consideration.

BD Junction B-4-2

Unit B, Section 4, T22S, R37S

Source vertical 3/25/08

Delineation vertical being dug 3/31/08

Site being backfilled 4/09/08

Clay compaction test being performed 4/10/08

Site complete 4/11/08

Clay marker 4/14/08

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: BRUCE BAKER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/02/08
Reporting Date: 04/04/08
Project Number: NOT GIVEN
Project Name: BD JCT B-4-2
Project Location: BD JCT B-4-2

Sampling Date: 04/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		04/03/08	04/03/08	04/02/08
H14555-1	5 PT. BTTM COMP @ 12'	<10.0	<10.0	1,580
Quality Control		1060	1020	490
True Value QC		1000	1000	500
% Recovery		106	102	98.0
Relative Percent Difference		0.5	5.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl B
*Analysis performed on a 1:4 w:v aqueous extract.

Chemist

4/7/08
Date

H14555A RICE

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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RICE OPERATING
HOBBS, NM

ANALYTICAL RESULTS FOR
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ATTN: BRUCE BAKER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/02/08
Reporting Date: 04/03/08
Project Owner: NOT GIVEN
Project Name: BD JCT B-4-2
Project Location: BD JCT B-4-2

Sampling Date: 04/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		04/02/03	04/02/03	04/02/03	04/02/03
H14555-1	5 PT. BTTM COMP @ 12'	<0.001	<0.001	<0.001	<0.003
H14555-2-6	5PT. BTTM SAMPLE COMPOSITE PT. 1-5	<0.001	<0.001	<0.001	<0.003
Quality Control		0.097	0.094	0.089	0.284
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.4	94.4	88.8	94.5
Relative Percent Difference		0.1	0.1	0.2	0.3

METHOD: EPA SW-846 8021B

COPY

Chemist

04/04/08
Date

H14555B RICE

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Rice Operating Co.	**BILL TO**	
Project Manager:	Bruce Baker	P.O. #:	
Address:	122 W Taylor	Company:	
City:	Hobbs State: NM Zip: 88240	Attn:	
Phone #:	393-9174 Fax #: 397-1471	Address:	
Project #:	Project Owner:	City:	
Project Name:	BD Jct B-4-2	State: Zip:	
Project Location:	BD Jct B-4-2	Phone #:	
Sampler Name:	Bruce Baker	Fax #:	

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	ANALYSIS REQUEST: Cl-	TPH 8015 M	BTEX								
H14555-1	Spt. Bttm Comp @ 12	C	1			✓					✓		4-1-08	2:50pm	✓	✓	✓								
-2	Bttm Pt. 1	G				✓					✓		4-1-08	2:30pm											
-3	Bttm Pt. 2	G				✓					✓		4-1-08	2:32pm					Comp. in Lab						
-4	Bttm Pt. 3	G				✓					✓		4-1-08	2:35pm					Run BTEX ONLY						
-5	Bttm Pt. 4	G				✓					✓		4-1-08	2:37pm											
-6	Bttm Pt. 5	G				✓					✓		4-1-08	2:41pm											

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising whether based in contract or tort, shall be limited to the amount paid by the client for the analyses. All claims including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within 30 days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequental damages, including without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries affiliates or successors arising out of or related to the performance of services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise.

Relinquished By: Bruce Baker	Date: 4-2-08 Time: 9:25a	Received By: Misty DeBut	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials) MCB	REMARKS: Email results to bbaker@ricesud.com & CC to jpurvis@ricesud.com

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

CARDINAL LABORATORIES

PHONE (575) 393-2326 • 101 E. MARLAND • HOBBS, NM 88240

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RICE OPERATING
HOBBS, NM

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: BRUCE BAKER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/02/08
Reporting Date: 04/04/08
Project Number: NOT GIVEN
Project Name: BD JCT B-4-2
Project Location: BD JCT B-4-2

Sampling Date: 04/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: BC/HM

LAB NUMBER	SAMPLE ID	GRO (C_6-C_{10}) (mg/kg)	DRO (>C_{10}-C_{28}) (mg/kg)	Cl* (mg/kg)
ANALYSIS DATE		04/03/08	04/03/08	04/02/08
H14556-1	4 WALL COMP. 30x25	107	842	1,220
H14556-6	BLENDED BACKFILL	<10.0	42.9	512
Quality Control		1060	1020	490
True Value QC		1000	1000	500
% Recovery		106	102	98.0
Relative Percent Difference		0.5	5.1	2.0

METHODS: TPH GRO & DRO: EPA SW-846 8015 M; Cl: Std. Methods 4500-Cl B
*Analyses performed on 1:4 w:v aqueous extracts.

Chemist

04/04/08
Date

H14556A RICE

CARDINAL LABORATORIES

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RICE OPERATING
HOBBS, NM

ANALYTICAL RESULTS FOR
RICE OPERATING CO.
ATTN: BRUCE BAKER
122 W. TAYLOR
HOBBS, NM 88240
FAX TO: (575) 397-1471

Receiving Date: 04/02/08
Reporting Date: 04/03/08
Project Owner: NOT GIVEN
Project Name: BD JCT B-4-2
Project Location: BD JCT B-4-2

Sampling Date: 04/01/08
Sample Type: SOIL
Sample Condition: COOL & INTACT
Sample Received By: ML
Analyzed By: AB/CK

LAB NUMBER	SAMPLE ID	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)
ANALYSIS DATE		04/02/03	04/02/03	04/02/03	04/02/03
H14556-1	4 WALL COMP. 30X25	<0.002	0.008	0.039	0.496
H14556-2-5	4PT. WALL COMP.OF NORTH, SOUTH, EAST, WEST	<0.002	0.008	0.045	0.490
H14556-6	BLENDED BACKFILL	<0.001	<0.001	<0.001	<0.003
Quality Control		0.097	0.094	0.089	0.284
True Value QC		0.100	0.100	0.100	0.300
% Recovery		97.4	94.4	88.8	94.5
Relative Percent Difference		0.1	0.1	0.2	0.3

METHOD: EPA SW-846 8021B

Chemist

04/04/08
Date

H14556B RICE

CARDINAL LABORATORIES

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

101 East Marland, Hobbs, NM 88240 2111 Beechwood, Abilene, TX 79603
(505) 393-2326 FAX (505) 393-2476 (325) 673-7001 FAX (325)673-7020

Company Name:	Rice Operating Co	**BILL TO**	
Project Manager:	Bruce Baker	P.O. #:	
Address:	122 W Taylor	Company:	
City:	Hobbs	State: NM Zip: 88240	Attn:
Phone #:	393-9174	Fax #: 397-1471	Address:
Project #:		Project Owner:	City:
Project Name:	BO Jet B-4-2		State: Zip:
Project Location:	BO Jet B-4-2		Phone #:
Sampler Name:	Bruce Baker		Fax #:

FOR LAB USE ONLY Lab I.D.	Sample I.D.	(G)RAB OR (C)OMP.	# CONTAINERS	MATRIX: GROUNDWATER	WASTEWATER	SOIL	OIL	SLUDGE	OTHER :	PRESERV.: ACID/BASE:	ICE / COOL	OTHER :	SAMPLING: DATE	TIME	Cl-	TPH 8015M	BTEX									
H14556-1	4 Wall Comp 30x25	C	1			✓					✓		4-1-08	3:00pm	✓	✓	✓								
-2	North Wall Comp	C	1			✓					✓		4-1-08	2:52pm											
-3	South Wall Comp	C	1			✓					✓		4-1-08	2:54pm				Comp for Lab							
-4	East Wall Comp	C	1			✓					✓		4-1-08	2:56pm				Run BTEX ONLY							
-5	West Wall Comp	C	1			✓					✓		4-1-08	2:58pm											
-6	Blended Backfill	C	1			✓					✓		4-1-08	3:10pm	✓	✓	✓								

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Relinquished By: Bruce Baker	Date: 4-2-08 Time: 9:25a	Received By: Kristy LeBert	Phone Result: ☐ Yes ☐ No Add'l Phone #:
Relinquished By:	Date: Time:	Received By:	Fax Result: ☐ Yes ☐ No Add'l Fax #:
Delivered By: (Circle One) Sampler - UPS - Bus - Other:	Sample Condition Cool: ☑ Yes ☐ No Intact: ☑ Yes ☐ No	CHECKED BY: (Initials)	REMARKS: Email results to bbaker@ricesud.com CC to jparvis@ricesud.com

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

RICE OPERATING COMPANY

122 West Tayor Hobbs, NM 88240
PHONE: (505) 393-9174 FAX: (505) 397-1471

PID METER CALIBRATION & FIELD REPORT FORM

CK.	✓	MODEL: PGM 7600	SERIAL NO: 110-013676
MODEL		MODEL: PGM 7600	SERIAL NO: 110-013744
NO.		MODEL: PGM 7600	SERIAL NO: 110-12383
		MODEL: PGM 7600	SERIAL NO: 110-012920

GAS COMPOSITION: ISOBUTYLENE 100PPM / AIR: BALANCE

LOT NO: 07-3353	EXPIRATION DATE: 4/12/09
FILL DATE: 10/12/07	METER READING ACCURACY: 100 ppm

ACCURACY : +/- 2%

SYSTEM	JUNCTION	UNIT	SECTION	TOWN SHIP	RANGE
BD	B-4-2	B	4	22S	37E

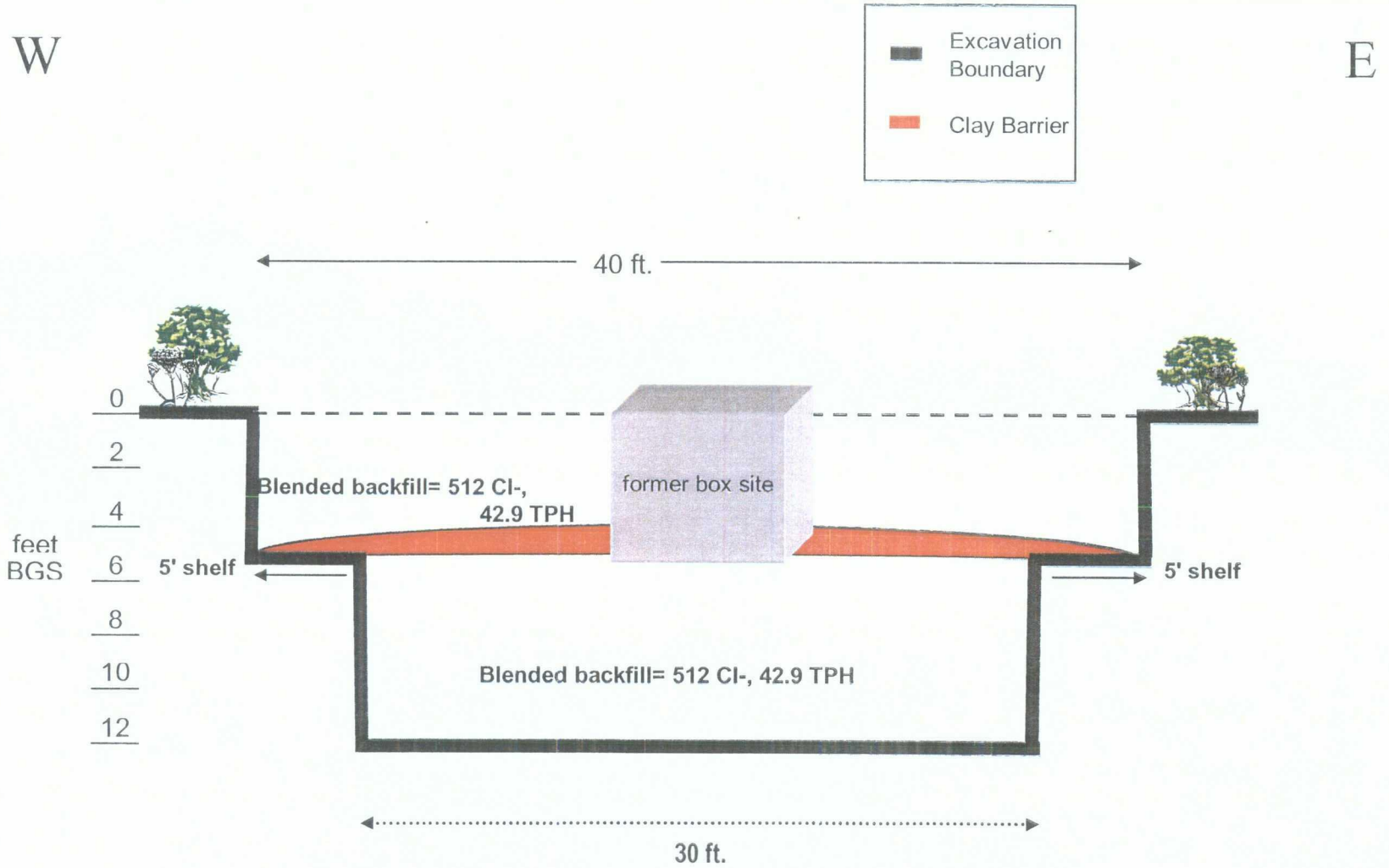
SAMPLE ID	PID	SAMPLE ID	PID
Spt Bttm Comp 1st Sample	247	4 Wall Comp 25 x 30	284
Spt Bttm Comp @ 12'	12	North Wall	9.6
Bttm 1	1.7	South Wall	293
Bttm 2	6.6	East Wall	324
Bttm 3	2.5	West Wall	97.9
Bttm 4	14.0		
Bttm 5	3.8	Blended Backfill	33.4
		COPY	

I verify that I have calibrated the above insrument in accordance to the namufacture operation manual.

SIGNATUE: Bruce Baker DATE: 4-01-08

BD Junction B-4-2
Unit 'B', Sec. 4, T22S, R37E

Excavation Cross-Section



LABORATORY TEST REPORT
PETTIGREW & ASSOCIATES, P.A.
1110 N. GRIMES
HOBBS, NM 88240
(505) 393-9827

AASHTO R18

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

To: Rice Operating Company
Attn: Hack Conder
122 W. Taylor
Hobbs, NM 88240

Material: Wallach Red Clay

Test Method: ASTM: D 2922

Project: BD JCT - B-4-2
Project No. 2008.1069

Date of Test: April 10, 2008

Depth: See Below

Depth of Probe: 6"

Test No.	Location	Dry Density % Max	% Moisture	Depth
SG 1	15' N. & 15' W. of SE Corner of Pad	94.4	10.7	FSG

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HOBBS, NM

852-965

Control Density: 102.8
ASTM: D 698

Optimum Moisture: 22.6%

Required Compaction: 90% - 95%

Densometer ID: 2505

Lab No.: 08 3543-3544

PETTIGREW & ASSOCIATES

Copies To: Rice Operating

BY: Debra P. Hicks

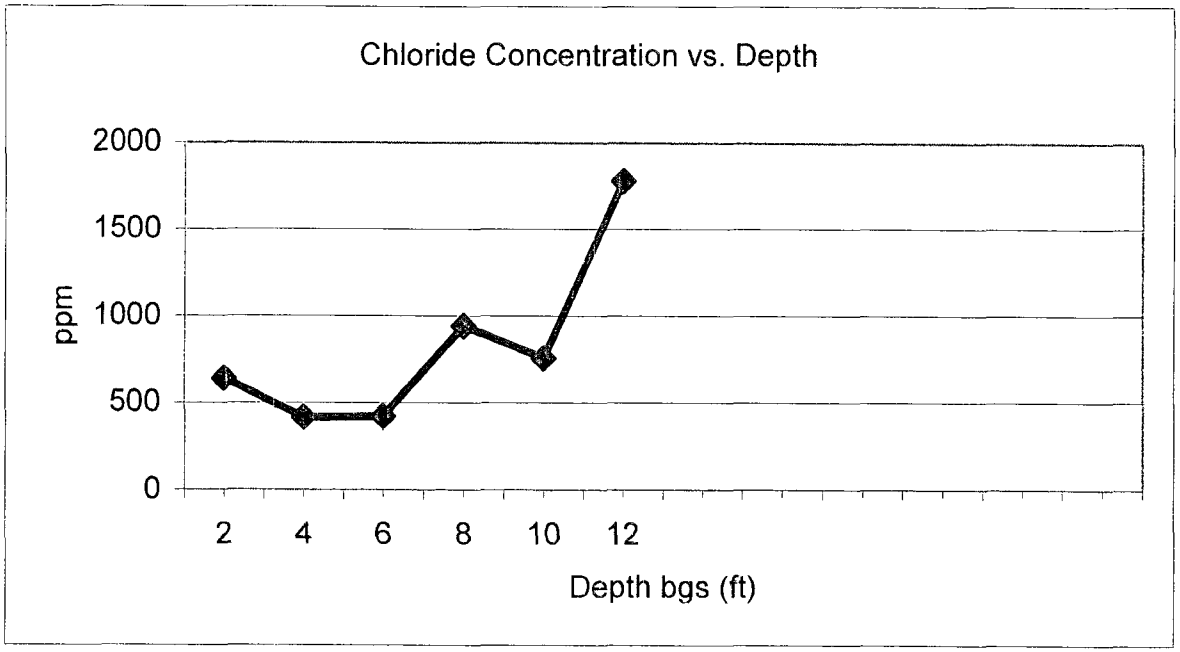
BY: Debra P. Hicks P.E.

BD JCT. B-4-2

Unit 'B', Sec. 4, T22S, R37E

Backhoe samples at junction (10' east of source)

Depth bgs (ft)	[Cl⁻] ppm
2	638
4	415
6	420
8	941
10	755
12	1778



Groundwater = **97 (ft.)**

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: BD
Site: Junction B-4-2
Date: 4/1/2008
Sampler: Bruce Baker
Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg) Benzene	Toluene	Ethyl Benzene	Total Xylenes
4 wall compsite at 30 ft.X25 ft.	North Wall	10	<0.002	0.008	0.039	0.496
	South Wall	293				
	East Wall	324				
	West Wall	98				

LAB COMPOSITE (mg/kg) Benzene	Toluene	Ethyl Benzene	Total Xylenes
<0.002	0.008	0.045	0.490

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

2008 BTEX Study

Revised Junction Box Upgrade Plan (2003)

System: BD
Site: Junction B-4-2
Date: 4/1/2008
Sampler: Bruce Baker
Laboratory: Cardinal Laboratories

Location	Component	PID reading (ppm)	FIELD COMPOSITE (mg/kg)			
			Benzene	Toluene	Ethyl Benzene	Total Xylenes
bottom composite at 12 ft BGS	1	2	<0.001	<0.001	<0.001	<0.003
	2	7				
	3	3				
	4	14				
	5	4				
			LAB COMPOSITE (mg/kg)			
			<0.001	<0.001	<0.001	<0.003

Field PID tests <100 ppm are considered final for BTEX. If PID is >100 ppm, the components of the BTEX composite sample will be collected individually and will be composited under laboratory conditions to prevent excessive volatilization. A 15-box, 30-sample study will be made to compare field-compositing with lab-compositing BTEX samples. Composite components are collected in a skewed 'W' pattern.

Revised Junction Box Upgrade Work Plan (July 16, 2003)