



PHONE (575) 383-2326 • 101 E. MARLAND • HOBBS, NM 88240

ANALYTICAL RESULTS FOR
BBC INTERNATIONAL, INC.
ATTN: CLIFF BRUNSON
P.O. BOX 805
HOBBS, NM 88241
FAX TO (575) 397-0397

Receiving Date: 07/07/10
Reporting Date: 07/12/10
Project Owner: CHESAPEAKE
Project Name: REMUDA BASIN 31-1 TRUCK RELEASE
Project Location: LOVING, NM

Sampling Date: 07/08/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: AB
Analyzed By: AB/ZL/HM

LAB NO.	SAMPLE ID	GRO (C ₆ -C ₁₀) (mg/kg)	DRO (C ₁₀ -C ₂₈) (mg/kg)	BENZENE (mg/kg)	TOLUENE (mg/kg)	ETHYL BENZENE (mg/kg)	TOTAL XYLENES (mg/kg)	Cl ⁻ (mg/kg)
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ANALYSIS DATE:		07/09/10	07/09/10	07/08/10	07/08/10	07/08/10	07/08/10	07/07/10
H20289-1	SP1 @ SURFACE	<10.0	225	<0.050	0.058	<0.050	<0.300	4,880
H20289-2	SP1 @ 1'	<10.0	11.8	<0.050	<0.050	<0.050	<0.300	4,320
H20289-3	SP2 @ SURFACE	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	3,780
H20289-4	SP2 @ 1'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	1,800
H20289-5	SP3 @ SURFACE	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	17,800
H20289-6	SP3 @ 1'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	80
H20289-7	SP4 @ SURFACE	<10.0	238	<0.050	<0.050	<0.050	<0.300	4,800
H20289-8	SP4 @ 1'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	4,160
H20289-9	SP5 @ SURFACE	<10.0	484	<0.050	<0.050	<0.050	<0.300	6,240
H20289-10	SP5 @ 1'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	4,480
H20289-11	SP6 @ SURFACE	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	3,680
H20289-12	SP6 @ 1'	<10.0	<10.0	<0.050	<0.050	<0.050	<0.300	112
Quality Control		533	524	0.009	0.009	0.009	0.027	500
True Value QC		500	500	0.010	0.010	0.010	0.030	500
% Recovery		107	105	90.0	90.0	90.0	90.0	100
Relative Percent Difference		1.2	1.8	5.5	3.9	4.6	3.8	3.8

METHODS: TPH GRO & DRO - EPA SW-846 8015 M; BTEX - SW-846 8021B; Cl⁻: Std. Methods 4500-Cl-B

*Analyses performed on 1:4 w:v aqueous extracts. Reported on wet weight.

TEXAS NELAP ACCREDITATION T104704398-08-TX FOR BENZENE, TOLUENE, ETHYL BENZENE, AND TOTAL XYLENES. Not accredited for GRO/DRO and Chloride.

Lab Director

H20289 TBCL BBC

Date

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ATTN: CLIFF BRUNSON
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Receiving Date: 07/07/10
Reporting Date: 07/16/10
Project Owner: CHESAPEAKE
Project Name: REMUDA BASIN 31-1 TRUCK RELEASE
Project Location: LOVING, NM

Sampling Date: 07/08/10
Sample Type: SOIL
Sample Condition: COOL & INTACT @ 3°C
Sample Received By: AB
Analyzed By: JM/JE

TOTAL RCRA METALS

LAB NO.	SAMPLE ID	As (mg/kg)	Ag (mg/kg)	Ba (mg/kg)	Cd (mg/kg)	Cr (mg/kg)	Pb (mg/kg)	Hg (mg/kg)	Sr (mg/kg)
ANALYSIS DATE		07/14/10	07/14/10	07/14/10	07/14/10	07/14/10	07/14/10	07/15/10	07/14/10
H20289-1	SP-1 @ SURFACE	<10.0	<1.0	10.7	<1.0	3.55	<5.0	<0.1	<20.0
H20289-2	SP-1 @ 1'	<10.0	<1.0	11.1	<1.0	4.07	<5.0	<0.1	<20.0
H20289-3	SP-2 @ SURFACE	<10.0	<1.0	19.4	<1.0	3.88	<5.0	<0.1	<20.0
H20289-4	SP-2 @ 1'	<10.0	<1.0	29.6	<1.0	3.71	<5.0	<0.1	<20.0
H20289-5	SP-3 @ SURFACE	<10.0	<1.0	38.6	<1.0	4.44	<5.0	<0.1	<20.0
H20289-6	SP-3 @ 1'	<10.0	<1.0	24.9	<1.0	3.97	<5.0	<0.1	<20.0
H20289-7	SP-4 @ SURFACE	<10.0	<1.0	11.9	<1.0	2.79	<5.0	<0.1	<20.0
H20289-8	SP-4 @ 1'	<10.0	<1.0	31.1	<1.0	3.99	<5.0	<0.1	<20.0
H20289-9	SP-5 @ SURFACE	<10.0	<1.0	13.9	<1.0	3.49	<5.0	<0.1	<20.0
H20289-10	SP-5 @ 1'	<10.0	<1.0	38.3	<1.0	4.76	<5.0	<0.1	<20.0
H20289-11	SP-6 @ SURFACE	<10.0	<1.0	22.9	<1.0	3.47	<5.0	<0.1	<20.0
H20289-12	SP-6 @ 1'	<10.0	<1.0	27.5	<1.0	4.21	<5.0	<0.1	<20.0
Quality Control		5.04	0.523	2.44	2.48	2.55	6.14	0.0020	10.1
True Value QC		5.00	0.50	2.50	2.50	2.50	5.00	0.0020	10.0
% Recovery		101	105	97.6	99.2	102	103	100	101
Relative Standard Deviation		2.0	0.5	1.5	1.5	1.0	1.7	<0.1	0.5

METHODS: EPA 800/4-91/010,3050 6010B 6010B 6010B 6010B 6010B 6010B 7471 8010B

Analyses subcontracted to Green Analytical Laboratories, a subsidiary of Cardinal Laboratories.

Cliff Brunson
Chemist

07/16/10
Date

H20289M BBC

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CARDINAL LABORATORIES

101 East Marland, Hobbs, NM 88240

(605) 263-2323 FAX (605) 263-2470

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 508-383-2476

**CARDINAL LABORATORIES**

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(505) 393-2323 FAX (505) 393-2476

CHAIN-OF-CUSTODY AND ANALYSIS REQUEST

[illegible]

† Cardinal cannot accept verbal changes. Please fax written changes to 505-583-2478

Location LoringDate 7-6-10Project / Client Rennick Basin 31-1 Truck Release / Chesapeake

Sample ID	Date	Time	Depth	GPS Coordinate
SP1@Surf	7-6-10	3:05	Surface	N 32.25376
SP1@1'	7-6-10	3:10	1'	W 103.92973
SP2@Surf	7-6-10	3:15	Surface	N 32.25327
SP2@1'	7-6-10	3:20	1'	W 103.92985
SP3@Surf	7-6-10	3:22	Surface	N 32.25364
SP3@1'	7-6-10	3:25	1'	W 103.93005
SP4@Surf	7-6-10	3:30	Surface	N 32.25364
SP4@1'	7-6-10	3:33	1'	W 103.93019
SP5@Surf	7-6-10	3:36	Surface	N 32.25323
SP5@1'	7-6-10	3:40	1'	W 103.93032
SP6@Surf	7-6-10	3:45	Surface	N 32.25360
SP6@1'	7-6-10	3:48	1'	W 103.93056

Analyze for TPH, BTEX, Chloride, & Metals

Location LoringDate 7-6-10Project / Client Rennick Basin 31-1 Truck Release / Chesapeake