4891

DEAR SIRS,

RECEIVED
JUN 16 2008
SOLID WASTE SECTION

THIS IS THE PAPER WORK FOR WELLS FOR THE RJR LANDFILL ON EDWARDS ROAD IN RURAL HALL.

SINCERELY,

Mary S. Hawks
Grady R Hawks

Research & Analytical Laboratories, Inc.

Analytical/Process Consultations

RECEIVED NC JUN 16 2008 SOLID WASTE SECTION

RESEARCH & ANALYTICAL LABS SIDNEY L. CHAMPION NC #34 DIRECTOR CERTIFIED ANALYSIS

TABLE 1- Monitoring for Selected Groundwater Wells, Streams, and Parameters for the Rural Hall Landfill Conducted on 30 April 2008

mg/L	Parameter	Units	RHMW 001	RHMW Dup 001	RHMW 002	RHMW 003A	RHMW 003B	RHSS 001	RHSS 002	Ret. Pond MW-001	Ret. Pond MW-003	Backgrnd (MW)	Field Blank	Travel Blank
	Arsenic	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
2000	Barium	mg/l	<0.250	<0.250	<0.250	0.261	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250	<0.250
	Cadmium	mg/l	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002
	Chromium	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
	Copper	mg/l	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020	<0.020
300	Iron	mg/l	0.536	0.698	4.45	0.148	0.505	0.242	0.278	9.68	3.36	<0.100	<0.100	<0.100
15	Lead	mg/l	<0.005	<0.005	0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005
50	Manganese	mg/l	6.87	3.91	0.334	<0.010	1.01	0.021	0.254	2.99	3.80	<0.010	<0.010	<0.010
	Mercury	mg/l	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
10,000	Nitrate-nitrogen	mg/l	0.158	0.149	0.071	0.553	<0.050	0.238	0.285	0.155	0.297	<0.050	0.336	<0.050
50	Selenium	mg/l	<0.010	<0.010	<0.010	0.094	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
	Silver	mg/l	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
1050	Zinc	mg/l	<0.020	<0.020	0.072	<0.020	<0.020	<0.020	0.046	0.022	0.037	0.037	<0.020	0.023
250,000	Sulfate	mg/l	1.920	1.860	246	91.0	570	56.3	159	1,100	2,090	<10.0	<10.0	<10.0
500,000	Dissolved Solids	mg/l	3,410	3,380	330	331	955	171	371	2,910	2,110	392	<5.0	<5.0
	TOC	mg/l	2.99	2.85	7.26	0.76	1.18	2.69	2.74	3.38	3.56	5.61	<0.5	<0.5
3.5 mg/L NCPKG	Aluminum	mg/l	0.291	0.349	<0.100	<0.100	<0.100	0.170	<0.100	<0.100	<0.100	<0.100	<0.100	<0.100
	Conductivity	(µmhos/cm)	3,590	3,600	609	470	1,270	260	569	4,880	2,290	615	<30	<30
	Sample Number		615965	615974	615966	615967	615968	615970	615971	615973	615972	615969	615976	615975
	Sample Date		04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08
	Sample Time		0852	0852	0857	0823	0819	0827	0841	0846	0832	0630	0907	0500

mg/l = milligrams per liter = parts per million

< = less than or below detection limit

GROUNDWATER MONITORING FIELD LOG

Facility	RJR Landfill		Personnel Present: Glenn Price	COMMENTS: *MW003B purged 1 well volume to stabilization and sampled.
		April 30, 2008		
Weather	40°F Clear	Date		

Monitoring Well No.	RHMW 001	RHMW 002	RHMW 003A	*RHMW 003B	**Background	RHSS001	RHSS002	Ret. Pond @ MW-3	Ret. Pond @ MW-1			RHMW 003B Stabilization			
												Gal	pH	Temp	Time
Total Depth (FT.)	27.91	19.36	18.00	205.00	200.00							20.00	6.77	10.8	0740
Surface Depth (FT.)	12.84	14.68	7.04	0.00	99.29							24.00	6.84	10.3	0751
Water Depth (FT.)	15.07	4.68	10.96	205.00	100.71							30.00	6.91	10.6	0810
Diameter (IN.)	2"	2"	2"	2"	2"							33.00	6.93	10.4	0819
Conversion Factor	0.16	0.16	0.16	0.16	0.16										
Well Volume (GAL.)	2.41	0.75	1.75	32.80	16.11										
Volume (GAL.) X 3	7.23	2.25	5.26	98.40	48.34										
# Bails (L)	29	9	22	394	194										
Purge Date	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08										
Purge Time (hrs.)	0645	0635	0657	0708	0520										
Purge Method	Bailer	Bailer	Bailer	Bailer	Bailer										
Volume Removed (GAL.)	1.75-Dry	1.00-Dry	5.50	33.00	19.50-Dry										
Sampling Date	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08	04/30/08						
Sampling Time (hrs.)	0852	0857	0823	0819	0630	0827	0841	0832	0846						
Sampling Method	Bailer	Bailer	Bailer	Bailer	Bailer	Grab-Direct	Grab-Direct	Grab-Direct	Grab-Direct						
pH (Standard Units)	6.22	6.37	6.15	6.93	10.40	6.81	6.79	6.76	7.04						
Temperature (EC)	10.4	10.1	10.3	10.4	11.7	10.1	9.9	9.8	9.7						
Conductivity (µmhos/cm)															
Dissolved Oxygen (mg\L)															
Observations\Sampling	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear	Clear						

RESEARCH & ANALYTICAL LABORATORIES, INC.

Analytical / Process Consultations
Phone (336) 996-2841

CHAIN OF CUSTODY RECORD

COMPANY: RJR Rural Hall
JOB NO.:
STREET ADDRESS:
PROJECT:
CITY, STATE, ZIP:
SAMPLER NAME (PLEASE PRINT): Glenn Rice
CONTACT: PHONE:
SAMPLER SIGNATURE:

WATER / WASTEWATER | MISC.

SAMPLE NUMBER (LAB USE ONLY)	DATE	TIME	COMP	GRAB	TEMP °C	RES Cl	CHLORINE REMOVED (Y or N)	SAMPLE MATRIX (S or W)	SAMPLE LOCATION / I.D.	NO. OF CONTAINERS	2L G (BNA, Herb. / Pest.)	2 40ml Vials (VOA) HCL	250ml G (TOX)	250ml P (TOC) H_2SO_4	1L P.G (BOD, TSS, Unpreserved, etc.)	1L G (Phenol, Oil & Grease) H_2SO_4	1L P.G (COD, N, P) H_2SO_4	1L P.G (Metals, Hardness) HNO_3	Sterile P.G (CYANIDE) NaOH	Sterile P.G (Coliform)					REQUESTED ANALYSIS
415965	4/30/06	0852		✓				W	RHMW001	5				3	1			1							See Remarks
966		0857		✓				W	RHMW002	5				3	1			1							
967		0823		✓				W	RHMW003A	5				3	1			1							
968		0819		✓				W	RHMW003B	5				3	1			1							
969		0630		✓				W	Background	5				3	1			1							
970		0827		✓				W	RHSS001	5				3	1			1							
971		0841		✓				W	RHSS002	5				3	1			1							
972		0832		✓				W	Ret. Pond e MW003	5				3	1			1							
973		0846		✓				W	Ret. Pond e MW001	5				3	1			1							
974		0852		✓				W	Duplicate	5				3	1			1							
975		0500		✓				W	TB	5				3	1			1							
976		0907		✓				W	FB	5				3	1			1							

RELINQUISHED BY	DATE/TIME	RECEIVED BY
	5/1/06	
RELINQUISHED BY	DATE/TIME	RECEIVED BY

REMARKS: * As, Ba, Cd, Cr, Cu, Fe, Pb, Mn, Hg, NO_3-N, Se, Ag, Zn, SO_4, DS, Al, TOC, Cond

SAMPLE TEMPERATURE AT RECEIPT 2.8 °C