



Florida Department of Environmental Regulation

Southeast District • 1900 S. Congress Ave., Suite A • West Palm Beach, Florida 33406

Lawton Chiles, Governor

Telephone: 407/433-2650

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NOV. 25 1992

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. TYPE INSPECTION: COMPLAINT X ROUTINE FOLLOW-UP PERMITTING

2. FACILITY NAME Rinker Portland Cement Corp.

DER/EPA ID FLD981758485

GMS ID

3. ADDRESS 1200 NW 137th Ave, Miami, Fl, 33182

Mailing: P.O. Box 24635, West Palm Beach, Fl 33416-4635

COUNTY Dade

PHONE 305- 221-7645

DATE 11/13/92 TIME 10:00

4. TYPE OF FACILITY Thermal Soil Treatment Facility

5. DESCRIPTION OF OPERATION:

Facility Operations include limerock mining and contaminated soil processing to produce cement.

Rinker uses kilns fired by coal, natural gas, or used oil in production.

6. APPL. REGULATIONS: 17-2, F.A.C. X 17-775, F.A.C.

7. RESPONSIBLE OFFICIAL: (Name and Title)

James Jenkins, Vice President

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

William Lee Martin and James Harmon, FDER

Dave Marple, Rinker Materials

9. FACILITY LATITUDE 25°46'48"

LONGITUDE 80°25'10"

10. TYPE OWNERSHIP: FEDERAL STATE COUNTY MUNICIPAL PRIVATE

11. NOTICE NO: SO13-195017 DATE ISSUED: 4/17/91 EXP. DATE: 4/4/96

Rev
Rev 1/8/92

A routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapter 17-775, Florida Administrative Code. This facility operates a rotary kiln and utilizes the petroleum contaminated soil in the manufacture of cement.

BACKGROUND INFORMATION:

Rinker was issued a General Permit #SO13-195017 to operate a soil thermal treatment facility on April 17, 1991 which expires on April 4, 1996. The Rinker facility was operating as an existing facility as defined in 17-775.200, FAC prior to the effective date of this rule. A complete process description is provided in the Rinker permit application; however, the process was reviewed at the inspection as follows:

According to Dave Marple, prior to accepting any soil for thermal treatment pursuant to 17-775, FAC, Rinker requires a soil analysis profile. Based on this profile, and concurrence from Metro Dade Department of Resource Management (DERM), soils are brought by truck to the new soil storage facility. All materials accepted by Rinker still receive approval from DERM in the form of a standardized form letter. This is required as a condition of the facility's current Dade County permits but may change in the future due to the increased administrative workload experienced by the County. At the time of the inspection the new soil storage facility is in use and the old temporary soil storage facility is under closure. Contaminated soils have been removed from the perimeter of the old facility concrete slab and a closure plan has been prepared which includes soil sampling for confirmation and continued groundwater sampling from the four wells around the slab for a specified period of time before closure approval. Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261.

Rinker has operated a materials substitution program for the last four years. This program researches and evaluates different alternative materials for use as raw materials in the production of cement or for use as an alternative fuel source in the kilns. Two alternative materials currently in use include the substitution of fuel contaminated soils for clean silica sand and the substitution of "on-spec" waste oil for fuel oil in kiln burners. Other alternative material substitutions under discussion and/or evaluation for possible future use include: (1) substitution of oily waste water for part of the slurry makeup water, (2) burning tires for fuel, (3) replacing FP&L slag with other power plant ashes such as ash from MSW incinerators, and (4) blending oily sludges with contaminated soils. Rinker has received approval for a trial burn using old tires as a fuel and iron supplement. The tires are injected whole, two at a time, through a patented system during each rotation of the kiln. The point of injection is approximately midway along the kiln where the temperature is approximately 1800 ° F. The trial appears to be progressing well and a compliance burn is forecast in the near future. Dave Marple estimates the kiln could burn as many as 4,000,000 tires per year.

Additionally, the afterburner system for the petroleum contaminated soils is in operation, although the soils process through a preliminary kiln and afterburner first, then go through the cement kiln. Preliminary in house analysis of the soils, although not required, indicate the soils meet clean soil criteria before they are processed through the cement kiln.

SOIL STORAGE FACILITY:

Incoming soils to be thermally treated by Rinker arrive by independent contractors via truck to the new soil storage facility. Rinker does not handle drums or containers; therefore, in the event a contractor delivers contaminated soils in drums or containers the contractor is responsible for emptying and removing the drums and/or containers from the facility. The new facility located South of the railroad tracks became operational February 9, 1992 and consists of a 100' by 300' monolith concrete slab sealed to solid concrete walls on three sides with a concrete curb across the

front. The facility has an open front to accommodate trucks and equipment, enclosed sides, and a roof. The floor slopes to the southeast corner where a sump and holding tank are located to collect any contaminated water from wind blown rain seeping through the contaminated soils. Minimal water has been collected to date. No standing water was observed around the perimeter on the Northeast corner of the facility on this visit. An additional interior concrete curb, with water a stop, sloping away from the Northeast front wall toward the interior of the facility has been installed. The previous standing water outside exhibited an algae growth, mosquito larvae, and a slight sheen but a water sample taken and analyzed in Rinker's lab indicated no volatiles present. This should be watched in the future. The points along the outside wall approximately two feet off the floor previously discharging small quantities of water around previously plugged holes appear to have subsided. The small quantities, the presence of iron staining, and the absence of any odor or sheen indicate this may be internal condensation draining. This should be watched in the future and investigated if it increases. The four groundwater wells off the corners of the facility have flush mounted, secured manhole lids. The wells appear to be located on ground high enough to prevent flooding; however, the presence of watertight, lockable well caps could not be confirmed.

The improved screening capability and metal removal by magnetic methods remain in operation. The metal and plastics removed from the soils are collected for transport to the County landfill. The larger concrete debris screened out initially are taken to the rock crusher to be pulverized separately and mixed back in with the contaminated soils at the soil storage facility.

Damage attributed to Hurricane Andrew appeared minimal. Some skylight sections were blown off the roof but these had been replaced. Some of the metal wall fascade panels were dented/torn and most of the roof gutters were missing but most of the replacement material was on site and a contractor was due to start work soon. No other structural damage was observed and Dave Marple indicated no flooding was experienced in the soil storage facility. The plant has a comprehensive hurricane preparation plan used to minimize damage which includes activities such as sealing critical electrical motors/pumps, etc. in plastic to prevent water damage.

RECORDKEEPING:

Rinker has received a Department alternative procedure approval (File No. AP-STTF001) for testing of contaminated soils. Rinker relies solely on the test results supplied by other labs; however, Rinker requires acknowledgment of a Department approved Quality Assurance plan from the labs supplying the data. Rinker performs spot checks of some samples. Random review of records over the past several months indicated one batch of untreated soils was received between 8/27/92 and 8/31/92 which exceeded the clean soil criteria for selenium of 165 mg/kg. Laboratory results were provided which confirmed this was a misprint and soils were received below the appropriate criteria. No treated soils analyzed since the last visit through October 25, 1992 exceeded the VOA or TRPH criteria for clean soil in 17-775, FAC.

SUMMARY:

The new soil storage facility incorporates "state of the art" technology in handling and storing petroleum contaminated soil and significantly enhances Rinker's capability to process contaminated soils in an environmentally sound manner.

EXHIBIT E
Florida Department of Environmental Regulation
STATIONARY SOIL THERMAL TREATMENT FACILITY
INSPECTION REPORT

Name of Facility RINKER MATERIALS CORP.
Location 1200 NW 137TH AVE, MIAMI, FL 33182
General Permit No. SO 13-195017 Date of Inspection 11/13/92
Contact Person DAVE MARPLE
Person Completing Report LEE MARTIN/JIM HARMON

Instructions: Complete the appropriate spaces for each item listed below. Use comments space to provide additional information for each item. Additional paper may be used if necessary.

Yes No SITE SURVEY

- ✓ 1. Does information provided on general permit notice of intent form coincide with actual facility?
- ✓ 2. Is soil sampling procedure correct?
- ✓ 3. Are monitoring wells properly installed (proper number and location)?
- ✓ 4. Are monitor wells being properly sampled and analysed for required parameters?
- ✓ 5. Is untreated soil stockpiled separately from treated soil and properly identified?
- ✓ 6. Is untreated soil adequately covered by roofing?
- ✓ 7. Do floors for storage appear to be properly constructed and in good condition?
- ✓ 8. Are floors properly bermed to provide runoff control?
- ✓ 9. Is a leachate collection system provided?

Yes No REPORTING FORMS

- * ✓ 10. Are untreated soil reporting forms being properly completed? starting date 7/27/92 end date 10/23/92
- ✓ 11. Are treated soil reporting forms being properly completed? starting date 6/22/92 end date 10/25/92

* SEVERAL LINE ENTRIES IN AUG/SEPT 92 HAD NO ANALYTICAL RESULTS RECORDED; HOWEVER, THESE WERE CONFIRMED TO BE CLEAN SAND SOLD TO TURKEY POINT FOR HURRICANE¹ ANDREW RECOVERY ACTIONS

12. Indicate frequency clean soil criteria is being met?
- 39 % TRPH - 10 mg/kg, or
 - 61 % TRPH - 50 mg/kg, PAH - 6 mg/kg, and VOH - 50 ug/kg
13. Indicate ranges and approximate median values of untreated soil analyses for the following parameters.
- TRPH 41 mg/kg to 457000 mg/kg, median 8930 mg/kg
 - VOA BDL mg/kg to 145300 mg/kg, median 5185 mg/kg
 - Arsenic BDL mg/kg to 8.36 mg/kg
 - Barium BDL mg/kg to 230 mg/kg
 - Cadmium BDL mg/kg to 2.8 mg/kg
 - Chromium BDL mg/kg to 120 mg/kg
 - Lead BDL mg/kg to 70 mg/kg
 - Mercury BDL mg/kg to .581 mg/kg
 - Selenium BDL mg/kg to 23.56 mg/kg
 - Silver BDL mg/kg to 8.56 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
- TRPH BDL mg/kg to 27.4 mg/kg, median 12.89 mg/kg
 - VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - Arsenic BDL mg/kg to 3.2 mg/kg
 - Barium 13.6 mg/kg to 30 mg/kg
 - Cadmium BDL mg/kg to 1.4 mg/kg
 - Chromium BDL mg/kg to 19 mg/kg
 - Lead 2.5 mg/kg to 11.5 mg/kg
 - Mercury BDL mg/kg to BDL mg/kg
 - Selenium BDL mg/kg to BDL mg/kg
 - Silver BDL mg/kg to 3.6 mg/kg
 - _____ mg/kg to _____ mg/kg
 - i. _____ mg/kg to _____ mg/kg

Comments: _____

William L. Martin
Signature

11/19/92
Date

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility:

Month: August Year: 1992

1	2	3	4	5										6	7	8
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results												
				Metals								Totals		Indicate Other Analyses		
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Attach Lab Results Only		
07/27/92	108-82169	1	1.31	BDL	3.0	BDL	3.0	1.4	BDL	BDL	BDL	2035	65			
07/27/92	108-82170	1	0.62	BDL	BDL	.9	BDL	6	BDL	BDL	BDL	93	78			
07/27/92	108-82171	1	4.22	3	1.5	BDL	3.5	9.3	BDL	BDL	BDL	BDL	14.7			
07/27/92	111-82188	1	1.08	.211	4.9	1.29	4.99	31.9	.00607	.0882	.579	<9	25.3			
07/27/92	111-82189	1	1.58	<4	5.08	<0.5	4.28	.687	<.001	<.5	<.05	<9	1110			
07/27/92	143-82012	1	38.88	BDL	BDL	BDL	5.20	13.2	BDL	BDL	BDL	BDL	260			
07/27/92	165-82005	1	40.30	BDL	2.7	BDL	9.1	16.0	BDL	BDL	BDL	BDL	20			
07/28/92	143-82012	1	115.29	BDL	BDL	BDL	5.20	13.2	BDL	BDL	BDL	BDL	260			
07/28/92	240-82012	1	52.32	2.02	31.82	.12	4.80	33.75	<.01	3.31	.01	86.8	1050			
07/29/92	103-82014	1	1.67	<4	17	<.5	.6	26	<.02	<.1	<.1	BDL	<5			
07/29/92	108-82167	1	24.93	<1.0	3.7	<.5	4.9	4.8	<.03	<.1	<.1	22000	130			
07/29/92	240-82011	1	123.42	3.68	74.59	.07	7.75	6.91	<.01	8.33	1.23	10776	800			
07/29/92	264-82005	1	21.40	BDL	2.8	BDL	2.7	3.2	BDL	BDL	BDL	2100	2830			
07/30/92	111-82187	1	0.31	BDL	2.5	BDL	4.7	1.9	BDL	BDL	BDL	BDL	29.1			
07/30/92	111-82191	1	0.47	BDL	1.8	BDL	2.1	1.2	BDL	BDL	BDL	BDL	20			
07/30/92	111-82182	1	0.41	BDL	1.7	BDL	2.7	1.1	BDL	BDL	BDL	BDL	3180			
07/30/92	111-82183	1	1.54	.0244	1.14	.0880	1.61	3.72	.0047	.00897	<.05	<12.41	18.8			
07/30/92	111-82194	1	0.41	BDL	2.0	BDL	BDL	BDL	BDL	BDL	2.0	BDL	12.6			
07/30/92	111-82185	1	0.38	BDL	2.6	BDL	4.3	2.0	BDL	BDL	2.9	BDL	105			
07/30/92	143-82011	1	74.35	<1	<20	<.5	5.0	13	<.1	<.5	<.1	BDL	84			
07/30/92	240-82010	1	20.47	2.47	3.71	.39	2.02	.7	<.01	5.32	2.63	<26.8	<10			
07/31/92	108-82168	1	13.57	.49	18.9	<.8	23.3	21.8	<.05	<.4	<1.8	BDL	5988			
07/31/92	111-82180	1	0.82	.592	3.83	<.05	4.25	1.91	.0168	.01	<.05	24.3	16.3			
07/31/92	143-82011	1	70.12	<1	<20	<.5	5.0	13	<.1	<.5	<.1	BDL	84			
07/31/92	240-82013	1	23.63	2.49	115.28	.07	3.79	1.68	<.01	.98	.14	BDL	<10			
07/31/92	305-82002	1	82.04	.49	102.8	<.8	4.0	52	<.05	<.4	<1.8	BDL	10			
08/03/92	108-82174	1	188.87	1.4	75.2	<.8	48.3	32.8	<.05	<.4	4	BDL	513			

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility: _____

Month: August Year: 1992

1	2	3	4	5					6	7	8				
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results											
				Metals							Totals		Indicate Other Analyses		
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Attach Lab Results Only	
08/03/92	240-92013	1	14.13	2.49	115.28	.07	3.78	1.68	<.01	.96	.14	BDL	<10		
08/03/92	305-92002	1	19.27	.49	102.8	<.8	4.0	52	<.05	<.4	<1.6	BDL	10		
08/04/92	108-92174	1	45.72	1.4	75.2	<.8	48.3	32.6	<.05	<.4	4	BDL	813		
08/04/92	108-92176	3	252.99	7.37	204	<.8	15.7	66.67	<.05	<.4	1.7	BDL	3309		
08/04/92	108-92177	6	30.79	8.1	89.3	<.8	5.47	<4.0	<.05	<.4	<1.16	88.33	12213		
08/04/92	114-92036	1	11.97	BDL	20	BDL	3.8	17.5	.2	BDL	3.8	56000	6360		
08/04/92	305-92001	1	313.29	0.84	198	<0.80	5.6	4.4	<0.050	<0.40	2.0	229	86		
08/05/92	108-92177	6	209.69	8.1	89.3	<.8	5.47	<4.0	<.05	<.4	<1.16	88.33	12213		
08/05/92	138-92012	1	57.77	<1.0	3.3	<0.50	4.8	24	<0.030	<20	<1.0	10	18		
08/05/92	278-92032	6	538.26	.182	154.34	.332	2.9	8.8	.14	<.1	1.24	BDL	8588.4		
08/06/92	106-92175	1	19.81	BDL	BDL	BDL	3.7	27	BDL	BDL	BDL	14	140		
08/06/92	111-92197	1	46.04	BDL	8.20	1.30	3.60	19.1	BDL	BDL	1.00	2.7	74		
08/06/92	278-92032	5	497.19	.182	154.34	.332	2.9	8.8	.14	<.1	1.24	BDL	8588.4		
08/07/92	106-92177	6	158.17	8.1	89.3	<.8	5.47	<4.0	<.05	<.4	<1.16	88.33	12213		
08/07/92	224-92002	1	21.52	1.67	14.5	0.026	10.4	15.3	<0.05	2.64	0.15	BDL	8950.0		
08/07/92	230-92004	1	58.24	1.13	102	BDL	3.0	BDL	BDL	BDL	BDL	1700	728		
08/07/92	278-92032	5	18.57	.182	154.34	.332	2.9	8.8	.14	<.1	1.24	BDL	8588.4		
08/07/92	278-92033	1	15.95	.068	2.16	.002	.085	.178	.078	BDL	.008	BDL	.01		
08/07/92	278-92034	1	4.08	.049	3.44	.083	.241	2.477	.581	BDL	.027	BDL	.018		
08/07/92	278-92035	1	43.93	<.1	<4.0	.1	.5	1.7	<.1	<.1	<.4	BDL	21.1		
08/07/92	305-92001	1	215.48	0.64	198	<0.80	5.6	4.4	<0.050	<0.40	2.0	229	86		
08/10/92	108-92177	6	117.80	8.1	89.3	<.8	5.47	<4.0	<.05	<.4	<1.16	88.33	12213		
08/10/92	278-92033	1	11.19	.068	2.16	.002	.065	.178	.078	BDL	.008	BDL	.01		
08/11/92	108-92173	1	22.95	8.2	53	<.5	16	54	<.03	<.10	<1.0	BDL	6.2		
08/11/92	111-92196	1	0.49	.337	4.38	<.05	3.68	13.6	.0139	.0248	.0514	<9	160		
08/11/92	240-92014	1	29.84	1.9	79.56	.04	6.16	1.12	<.01	23.58	.10	BDL	<10		
08/11/92	240-92015	1	15.13	4.44	208.08	.12	10.03	25.37	<.01	12.72	6.44	BDL	16		

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.

Air Permit No.: A013-172154

Soil Treatment Permit No.: SW-01117-91

Stationary XXX or Mobile Facility:

Month: August Year: 1992

1	2	3	4	5					6	7	8				
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results											
				Metals								Totals		Indicate Other Analyses	
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Attach Lab Results Only	
08/12/92	106-92173	1	49.52	8.2	53	<5	18	54	<.03	<1.0	<1.0	BDL	6.2		
08/12/92	273-92002	1	34.27	1.87	230	2.1	13.4	9.3	.13	BDL	3.7	145300	4640		
08/13/92	106-92172	1	12.12	<1.3	<25	<1.1	7.0	8.0	<.13	<1.3	<2.5	BDL	<40		
08/13/92	111-92198	3	121.36	.0475	2.56	<.05	1.73	<m.398	.013	.008	<.05	BDL	23.2		
08/14/92	111-92198	3	36.95	.0475	2.56	<.05	1.73	<m.398	.013	.008	<.05	BDL	23.2		
08/14/92	219-92004	1	12.63	<1.0	5.4	<5	6.2	6.8	<.03	<10	<1.0	10450	950		
08/14/92	293-92006	4	121.57	.84	<3.93	1.24	12.75	32	<.1	<.87	2.68	25.6	852.6		
08/14/92	293-92007	1	65.88	<.29	<.22	<.706	<2.8	53	<.1	<.21	3.53	BDL	440.2		
08/14/92	293-92008	1	38.28	<.353	<28.7	<.76	<3.0	<5.03	<.1	<.23	<2.3	BDL	191.9		
08/14/92	302-92005	1	3.97	2.8	5.1	BDL	3.5	40.3	BDL	BDL	BDL	850	139		
08/17/92	111-92198	3	12.29	.0475	2.56	<.05	1.73	<m.398	.013	.008	<.05	BDL	23.2		
08/17/92	273-92003	1	77.28	.723	45.8	.105	37.5	14.6	.0488	.235	<.05	<9	34.4		
08/18/92	114-92034	1	4.22	5.74	BDL	BDL	BDL	6.97	BDL	.89	BDL	13.02	74.0		
08/18/92	114-92037	1	7.08	BDL	6.3	BDL	5.6	19.6	BDL	BDL	BDL	BDL	197		
08/18/92	114-92040	1	2.51	1.72	BDL	BDL	BDL	6.68	BDL	BDL	BDL	7.05	115		
08/18/92	134-92010	1	81.07	BDL	2.2	BDL	3.5	1.4	BDL	BDL	BDL	1900	5500		
08/18/92	293-92009	6	215.83	1.25	<.74	.89	15.8	21	<.1	<.67	<4.96	BDL	<40.58		
08/18/92	240-92016	1	25.82	2.08	225.12	.07	6.88	70.0	<.01	4.94	1.97	<12	82		
08/18/92	243-92005	4	63.87	.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
08/18/92	293-92008	6	13.67	1.25	<.74	.89	15.8	21	<.1	<.67	<4.96	BDL	<40.58		
08/20/92	111-92199	1	54.76	.144	1.00	1.125	2.4	9.495	.018	.016	1.27	19278	593		
08/20/92	111-92204	1	0.90	BDL	15.2	BDL	2.60	1.80	BDL	BDL	2.10	BDL	51		
08/20/92	111-92205	1	0.22	.0288	<.1	.875	1.5	8.97	<.001	<.002	<.01	<8	170		
08/20/92	111-92206	1	0.35	BDL	1.8	BDL	1.0	6.6	BDL	BDL	BDL	11000	40		
08/20/92	111-92207	1	0.36	1.46	41	1.9	2.5	3.9	BDL	BDL	BDL	16100	172		
08/20/92	114-92039	1	106.19	<.1	12.3	<.1	4.94	17.3	<.1	<.1	<.1	24900	36100		
08/20/92	243-92006	4	70.43	.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary **XXX** or **Mobile Facility:**

Month: August Year: 1992

[illegible]

Name of Facility:	RINKER MATERIALS CORP.
Air Permit No.:	A013-172154
Soil Treatment Permit No.:	SW-01117-91
Stationary	XXX or Mobile Facility:

Stationary **XXX** or Mobile Facility: **XXX**

Year: 1992

[illegible]

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility:

Month: SEPTEMBER Year: 1992

1		2		3		4		5					6		7		8		
Day of Mo.		Soil Batch ID#		Sample Number		Amount Volume or Weight cy/tn		Analytical Results								Indicate Other Analyses Attach Lab Results Only			
								Metals								Totals			
								AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPB		
08/27/92		101-82010		5		371.71		1.46	8.14	.146	20	50	<1	201	8.56	<13	532	GOING OUT (SAND SOLD) TO TURKEY PT	
08/27/92		307-82002		0		105.75													
08/28/92		101-82010		5		485.18		1.46	8.14	.146	20	50	<1	201	8.56	<13	532		
08/28/92		307-82003		0		284.19													
08/31/92		101-82010		5		41.41		1.46	8.14	.146	20	50	<1	201	8.56	<13	532	11	
08/31/92		307-82004		0		227.25													
09/01/92		111-82208		3		228.43		.0327	1.32	<.05	.907	5.13	<.0028	.008	<.06	33112	<12.20		
09/01/92		243-82007		4		44.09		.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
09/01/92		307-82001		0		48.25												11	
09/01/92		307-82004		0		449.98													
09/02/92		103-82015		2		70.34		BDL	BDL	BDL	BDL	1.075	BDL	BDL	BDL	4.5	247		
09/02/92		243-82007		4		23.36		.285	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
09/02/92		265-82012		3		108.79		<1.13	<110	<2.77	10.7	<44.7	<1	<.67	<5.6	<1696	103		
09/02/92		302-82008		3		126.17		BDL	5.9	BDL	2.07	1.6	BDL	BDL	BDL	285	302.6		
09/02/92		307-82004		0		43.58												11	
09/02/92		308-82001		3		100.31		4.84	45.93	.06	14.71	2.1	<.01	2.49	.017	<2	8367		
09/03/92		134-82011		3		213.80		BDL	5.9	BDL	12.87	.47	BDL	BDL	BDL	BDL	46.7		
09/03/92		243-82007		4		77.86		.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
09/03/92		265-82011		3		254.81		<1.1	<51.3	<1.3	8.7	<52	<1	<.55	<1.1	<636	1600		
09/03/92		308-82001		3		110.32		4.84	45.93	.06	14.71	2.1	<.01	2.49	.017	<2	8367		
09/04/92		243-82007		4		27.85		.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
09/04/92		308-82001		3		101.58		4.84	45.93	.06	14.71	2.1	<.01	2.49	.017	<2	8367		
09/05/92		114-82042		1		7.40		<1	12.3	<1	4.84	17.3	<1	<1	<1	24900	38100		
09/05/92		243-82007		4		55.17		.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330		
09/05/92		308-82001		3		194.26		4.84	45.93	.06	14.71	2.1	<.01	2.49	.017	<2	8367		
09/05/92		111-82209		1		0.18		2.6	7.9	BDL	4.5	25.6	BDL	BDL	2.9	BDL	54.4		
09/05/92		111-82210		1		2.03		1.19	49	2.8	4.5	3.6	BDL	BDL	3.8	BDL	38.5		

775.900(2) * Should have been 2.1 - see fax in file

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.

Air Permit No.: A013-172154

Soil Treatment Permit No.: SW-01117-91

Stationary XXX or Mobile Facility:

Month: October Year: 1992

1		2		3		4		5					6	7	8		
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results													
				Metals										Totals		Indicate Other Analyses	
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Attach Lab Results Only			
09/21/92	265-82015	3	44.49	<20	<20	<50	<1.10	<9.93	<0.91	<20	<69	1588	<5.77				
09/21/92	278-82037	3	42.08	BDL	4.17	BDL	1.43	4.43	BDL	BDL	BDL	5325	95.7				
09/22/92	215-82005	1	19.83	1.3	3.2	<0.05	<5	2.4	<1	3.4	<0.05	<11	120				
09/22/92	243-82008	4	18.58	.265	BDL	BDL	9.40	59.75	BDL	2.045	BDL	275	12330				
09/22/92	278-82037	3	91.20	BDL	4.17	BDL	1.43	4.43	BDL	BDL	BDL	5325	95.7				
09/23/92	278-82037	3	21.45	BDL	4.17	BDL	1.43	4.43	BDL	BDL	BDL	5325	95.7				
09/24/92	111-82218	1	0.11	BDL	1.5	BDL	BDL	BDL	BDL	BDL	BDL	2.76	457000				
09/24/92	111-82219	1	0.56	0.0856	1.64	<0.0500	2.56	1.24	.00860	0.0153	0.749	<5.54	86.1				
09/24/92	111-82220	1	1.70	0.116	1.61	<0.0500	0.902	<0.0200	0.0135	0.0183	<0.0500	1085	31.7				
09/24/92	111-82221	1	0.30	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	4.6				
09/24/92	217-82003	1	63.85	1.9	50.4	<.8	6.8	<.4	<0.05	<.4	2.6	981	98				
09/24/92	265-82014	1	46.84	2.8	3.7	BDL	2.8	21.4	BDL	BDL	BDL	BDL	54950				
09/24/92	265-82015	3	43.33	<20	<20	<.50	<1.10	<9.93	<0.91	<20	<.69	1588	<5.77				
09/24/92	308-82002	3	22.67	4.84	45.93	.06	14.71	2.1	<.01	2.49	.017	<2	8.38				
09/25/92	108-82184	1	10.25	1.0	38	0.50	120	4.5	BDL	BDL	BDL	85.5	BDL				
09/25/92	111-82222	1	2.04	<0.4	1.26	<0.05	2.1	.884	.00886	<0.5	.382	<5.34	66.9				
09/25/92	217-82003	1	15.35	1.9	50.4	<.8	6.8	<.4	<0.05	<.4	2.6	981	98				
09/25/92	265-82014	1	18.28	2.8	3.7	BDL	2.8	21.4	BDL	BDL	BDL	BDL	54950				
09/26/92	108-82184	1	4.66	1.0	38	0.50	120	4.5	BDL	BDL	BDL	65.5	BDL				
09/26/92	278-82037	3	24.77	BDL	4.17	BDL	1.43	4.43	BDL	BDL	BDL	5325	95.7				
09/26/92	278-82038	1	17.31	1.3	4.6	BDL	3.0	1.8	BDL	BDL	BDL	70	42				
09/26/92	291-82003	3	100.01	BDL	BDL	BDL	BDL	18	.37	BDL	BDL	3206.7	14.0				
09/30/92	111-82223	1	0.93	BDL	1.5	BDL	3.4	4.3	BDL	BDL	BDL	7.2	15.6				
09/30/92	143-82013	1	45.36	3.0	36	BDL	9.1	42	BDL	BDL	BDL	BDL	8600				
09/30/92	278-82038	1	42.22	1.3	4.6	BDL	3.0	1.8	BDL	BDL	BDL	70	42				
09/30/92	291-82003	3	78.46	BDL	BDL	BDL	BDL	18	.37	BDL	BDL	3206.7	14.0				
10/01/92	143-82013	1	43.45	3.0	36	BDL	9.1	42	BDL	BDL	BDL	BDL	8600				

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.

Air Permit No.: A013-172154

Soil Treatment Permit No.: SW-01117-91

Stationary XXX or Mobile Facility:

Month: October Year: 1992

1	2	3	4	5					6	7	8				
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results											
				Metals								Totals		Indicate Other Analyses	
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	Attach Lab Results Only	
10/01/92	230-92005	6	99.49	1.65	91	BDL	3.77	5.43	BDL	BDL	2.75	BDL	3040		
10/01/92	278-92038	1	54.65	1.3	4.6	BDL	3.0	1.8	BDL	BDL	BDL	70	42		
10/02/92	111-92225	1	34.75	8.38	8.82	<0.0500	6.28	8.74	0.0197	0.0323	<0.500	<9.00	106		
10/02/92	227-92002	1	24.84	<1	5.9	<.5	6.1	.65	<.03	<.5	<1.0	BDL	18		
10/02/92	230-92005	6	188.57	1.65	91	BDL	3.77	5.43	BDL	BDL	2.75	BDL	3040		
10/02/92	278-92037	3	39.48	BDL	4.17	BDL	1.43	4.43	BDL	BDL	BDL	5326	95.7		
10/02/92	278-92038	1	22.48	1.3	4.6	BDL	3.0	1.8	BDL	BDL	BDL	70	42		
10/03/92	264-92008	1	32.28	BDL	14.0	BDL	7.1	3.2	BDL	BDL	BDL	BDL	8308		
10/06/92	111-92227	3	189.90	0.558	25.23	0.463	3.15	45.87	0.103	0.0211	0.482	<9.00	339.83		
10/06/92	114-92044	1	15.56	BDL	6.1	BDL	5.1	17.7	BDL	BDL	BDL	1290	2446		
10/07/92	111-92225	1	46.25	8.36	8.82	<0.0500	6.28	8.74	0.0197	0.0323	<0.500	<9.00	108		
10/07/92	111-92227	3	162.15	0.558	25.23	0.463	3.15	45.87	0.103	0.0211	0.482	<9.00	339.83		
10/08/92	108-92185	1	59.99	<.4	<10	<.8	8.0	<4.0	<.05	<.4	3.6	BDL	72		
10/08/92	278-92039	1	21.33	BDL	BDL	BDL	58.5	14.7	BDL	BDL	BDL	BDL	BDL		
10/08/92	278-92040	1	10.81	2.0	BDL	BDL	20.9	20.0	BDL	1.59	BDL	BDL	BDL		
10/08/92	278-92041	1	26.44	BDL	BDL	BDL	4.38	36.2	.068	BDL	BDL	BDL	24.0		
10/08/92	111-92226	1	2.65	BDL	3.3	BDL	3.9	1.3	BDL	BDL	BDL	BDL	12.8		
10/08/92	278-92042	1	28.61	1.58	165.4	BDL	20.5	6.10	BDL	.68	BDL	BDL	BDL		
10/12/92	282-92002	1	10.54	.5	28.8	1.6	4.4	5.2	.05	.4	1.6	1.8	114		
10/12/92	292-92003	1	20.31	BDL	BDL	BDL	4.4	13.2	BDL	BDL	BDL	BDL	55.0		
10/13/92	111-92226	1	3.23	BDL	3.3	BDL	3.9	1.3	BDL	BDL	BDL	BDL	12.8		
10/13/92	111-92228	1	0.16	BDL	1.8	BDL	BDL	BDL	BDL	BDL	1.8	BDL	21.1		
10/13/92	194-92007	1	6.89	2.5	14	<.5	5.1	54	.033	<20	<1.0	BDL	860		
10/14/92	230-92006	1	42.84	1.3	137	BDL	6.30	12.7	BDL	BDL	4.40	BDL	765		
10/14/92	265-92018	1	44.88	<1.1	<110	<2.7	<5.4	<54	<.088	<.54	<5.4	BDL	1900		
10/14/92	281-92004	3	306.14	2.6	28.3	1.63	94	5.47	.081	1.73	2.6	<32	140		
10/15/92	114-92044	1	1.61	BDL	6.1	BDL	5.1	17.7	BDL	BDL	BDL	1290	2446		

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility: _____

Month: October Year: 1992

1	2	3	4	5										6	7	8
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										Indicate Other Analyses		
				Metals										Totals		Attach Lab Results Only
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH			
10/15/92	265-82016	3	138.56	1.4	4.87	BDL	3.63	8.9	BDL	BDL	BDL	BDL	37.00			
10/15/92	265-92017	1	58.72	<1.2	<24	<81	5.8	24	<11	<58	<1.2	<2300	73			
10/15/92	281-92004	3	184.38	2.6	28.3	1.83	64	5.47	.081	1.73	2.8	<32	140			
10/16/92	111-92229	1	1.14	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	.10	38.9			
10/16/92	114-92044	1	1.38	BDL	6.1	BDL	5.1	17.7	BDL	BDL	BDL	1290	2448			
10/16/92	310-92001	1	7.99	2.75	4.85	BDL	7.70	39.00	BDL	BDL	BDL	8.9	1095			
10/16/92	111-82230	3	90.09	<1.1	<51	<1.29	6.67	24.67	<10	<54	<2.57	BDL	47.3			
10/16/92	111-82234	1	0.42	BDL	3.7	BDL	2.2	7.2	BDL	BDL	BDL	BDL	222			
10/16/92	265-92019	5	396.70	.18	2.44	BDL	2.1	8.42	BDL	BDL	BDL	333	23.26			
10/20/92	111-92230	3	37.70	<1.1	<51	<1.29	6.67	24.67	<10	<54	<2.57	BDL	47.3			
10/20/92	265-92019	5	467.49	.18	2.44	BDL	2.1	8.42	BDL	BDL	BDL	333	23.26			
10/20/92	278-92043	1	83.23	BDL	22.64	BDL	.003	.055	.024	BDL	BDL	0.156	100			
10/20/92	278-92044	1	2.60	.120	2.1850	.0008	.1102	.1360	BDL	BDL	.0038	.081	.022			
10/20/92	311-92002	1	52.52	2.90	25.90	0.05	3.81	0.58	<0.01	5.27	0.07	<12.00	<10.0			
10/21/92	111-92235	1	0.87	0.112	16.8	0.176	2.49	18.8	0.0274	0.0462	0.238	<9.00	94.0			
10/21/92	265-92021	1	32.43	<1.2	<23	<58	7.0	27	<11	<58	<1.2	<3.10	700			
10/22/92	111-92233	1	3.36	0.631	BDL	BDL	3.02	0.735	BDL	0.598	BDL	BDL	66.8			
10/22/92	114-92044	1	1.75	BDL	6.1	BDL	5.1	17.7	BDL	BDL	BDL	1290	2448			
10/22/92	114-92046	1	0.41	3.7	9	<0.5	4	0.6	<0.02	<1	<1	<14.50	<5.0			
10/22/92	114-92047	1	2.11	<0.4	2	<0.5	3.8	5.8	<0.02	<1	4	<85	8.9			
10/22/92	114-92048	1	2.14	<0.4	5	<0.5	5	1.6	<0.02	<1	<1	<18.50	<50			
10/22/92	114-92049	1	0.89	<0.6	6	<0.5	<0.5	2.5	<0.02	<1	<1	<8.50	<5.0			
10/22/92	265-92022	1	44.27	<1.1	<25	<59	4.7	32	<09	<56	<1.2	<3.23	610			
10/22/92	311-92001	1	24.65	2.22	19.79	0.08	2.84	2.06	<0.10	3.76	0.20	<12.00	360.0			
10/22/92	312-92001	1	75.78	<1.0	2.36	<1.0	2.09	3.01	<0.1	<1.0	<1.0	BDL	35			
10/23/92	111-92231	1	2.65	.0821	.0757	<0.5	<1	<0.2	.0109	.0290	<0.05	508.13	10.5			
10/23/92	111-92232	1	0.29	<0.5	4.2	<0.5	2.7	1.9	<0.050	<1.0	<1.0	BDL	<0.2			

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172154
Soil Treatment Permit No.: SW-01117-91
Stationary XXX **or Mobile Facility:**

Stationary **XXX** **or Mobile Facility:**

Month: October Year: 1992

[illegible]

Name of Facility: _____
 Air Permit No.: _____
 Soil Treatment Permit No.: _____
 Stationary: _____ or Mobile Facility: _____

DER FORM 17-775.900(3)

See reverse side for instructions

		6		7		8		9		10		11					
Analytical Results																	
Total Metals																	
TCLP Metals																	
Totals																	
Day of Mo.	Soil Batch ID#	Sample Number	Length of Run, Hours	Amount, Volume or Weight cy/tn	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	
6-22		42	168	1127	3.2	30	1.4	19	6.6	60L	AOL	1.7	60L	.36	60L	60L	7.2
6-28		42	168	1027	2.4	23.6	1.2	148	5.1	60L	AOL	1.7	60L	.43	60L	60L	18.2
7-5		42	168	1181	2.2	22.2	1.2	16.2	6.1	60L	AOL	3.3	60L	.52	60L	60L	9.4
7-6		42	168	1211	1.9	21.2	60L	12.3	6.3	60L	AOL	2.7	60L	.35	60L	60L	13.3
7-13		42	168	827	1.6	24.3	60L	12.3	7.2	60L	AOL	3.6	60L	.27	60L	60L	11.7
7-20		42	168	1754	1.6	13.5	60L	8.9	3.7	60L	60L	60L	60L	.28	60L	60L	60L
7-27		42	168	1564	1.9	27.5	60L	14.1	11.5	60L	60L	2.0	60L	.26	60L	60L	4.7
8-3		42	168	1153	60L	23.9	60L	1.0	6.1	60L	60L	60L	60L	.13	60L	60L	60L
8-10		42	168	630	2.7	29.8	60L	11.5	6.9	60L	60L	60L	60L	.25	60L	60L	60L
8-17		42	168	404	2.6	26.6	60L	14.1	7.4	60L	60L	60L	60L	.33	60L	60L	60L
8-23		42	168	1229	60L	24.6	60L	60L	2.5	60L	60L	2.2	60L	.43	60L	60L	60L
8-30		42	168	1829	60L	23.6	60L	12.7	4.4	60L	60L	60L	60L	.25	60L	60L	60L
8-31		42	168	1477	60L	24.0	60L	10.2	6.7	60L	60L	60L	60L	.82	60L	60L	60L
9-7		42	168	1458	1.6	20.2	60L	12.0	5.1	60L	60L	60L	60L	.37	60L	60L	60L
9-14		42	168	1244	1.4	26.4	60L	10.5	5.2	60L	60L	60L	60L	.42	60L	60L	60L
9-20		42	168	1266	1.3	23.8	60L	11.1	5.4	60L	60L	60L	60L	.12	60L	60L	60L
9-27		42	168	1182	1.4	19.3	60L	12.1	6.5	60L	60L	60L	60L	.24	60L	60L	60L
10-4		42	168	1900	1.5	23.8	60L	17.8	9.8	60L	60L	60L	60L	.29	60L	60L	60L
10-11		42	168	1611	60L	20.7	60L	9.1	7.8	60L	60L	3.2	60L	.25	60L	60L	60L
10-12		42	168	849													
10-18		42	168	849													
10-19		42	168	849													
10-25		42	168	849													
10-26		42	168	849													
11-1		42	168	849													
11-2		42	168	849													

FACSIMILE**Rinker Materials****TRANSMISSION**Rinker Materials Corporation
1200 N.W. 137th Avenue
Miami, FL 33182P.O. Box 650679
Miami, FL 33265-0679

R I A L S S U B S T I T U T I O N

TEL # 305-220-9875

WE ARE SENDING 6 PAGES INCLUDING COVER SHEETTO: 1-407- 433-2666 DATE: 11/19/92ATTENTION: Lee Martin FROM: D. Marz 6

Lee:

*Correction for
untreated soil in
inspection form 11/13/92*

Concerning Batch 101-92010

The selenium results reported
were a misprint.Report should have read 2.1 not
201

Analysis to verify are attached

If you have any other questions, please
let me know.

A CSR America Company

88/05/92

Z 305 235 6214 CLH ENGINEERS

02

**engineers-scientists
LABORATORY**11860 S.W. 144 STREET, MIAMI, FL 33186
(305) 233-1411 • FAX: (305) 235-6214**FINAL REPORT OF ANALYSES**CHEROKEE GROUNDWATER
5884 STIRLING ROAD
HOLLYWOOD, FL 33021-
Attn: MR. JOEY REMISESL Project No: CGW1-317
REPORT DATE: 07/28/92
PROJECT NO. : ER2T-1588A
PROJECT MANAGER : CHARLES OVERSTREET

LOCATION: 2398 NW 119th ST., MIAMI, FL

SAMPLE NUMBER : 17617
DATE SAMPLED : 07/15/92
DATE RECEIVED : 07/15/92
RECEIVED BY : LMHSAMPLE ID : SOIL FILE 1
SAMPLED BY : C. OVERSTREET
SAMPLE MATRIX : SO

Page 1 of 3

ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	BY	RESULT UNITS	DET. LIMIT
TOTAL ARSENIC (AS)	EPA 7060	07/17/92	WMH 07/17/92	AP	1.1 mg/kg	0.5
TOTAL CADMIUM (CD)	EPA 7131	07/17/92	WMH 07/17/92	WH	0.13 mg/kg	0.005
TOTAL CHROMIUM (CR)	EPA 7191	07/17/92	WMH 07/20/92	AP	12 mg/kg	0.25
TOTAL LEAD (PB)	EPA 7421	07/17/92	WMH 07/17/92	WH	46 mg/kg	5
TOTAL SELENIUM (SE)	EPA 7740	07/17/92	WMH 07/17/92	AP	1.9 mg/kg	0.5
TOTAL SILVER (AG)	EPA 7751	07/17/92	WMH 07/20/92	WH	4.4 mg/kg	0.05
TOTAL BARIUM (BA)	EPA 6010	07/17/92	WMH 07/17/92	WH	7.2 mg/kg	0.5
TOTAL MERCURY (HG)	EPA 7471	07/17/92	WMH 07/17/92	WH	< 0.1 mg/kg	0.1

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Z 305 235 6214 CLARK ENGINEERS

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**engineers-scientists
LABORATORY**11980 S.W. 144 STREET, MIAMI, FL 33186
(305) 233-1411 • FAX: (305) 235-6214**FINAL REPORT OF ANALYSES**CHEROKEE GROUNDWATER
5004 STIRLING ROAD
HOLLYWOOD, FL 33021-
Attn: MR. JOEY BENISESL Project No: CGW1-317
REPORT DATE: 07/28/92
PROJECT NO. : ER2T-1500A
PROJECT MANAGER : CHARLES OVERSTREET

LOCATION: 2398 NW 119th St., MIAMI, FL

SAMPLE NUMBER : 17610
DATE SAMPLED : 07/15/92
DATE RECEIVED : 07/15/92
RECEIVED BY : LMBSAMPLE ID : SOIL FILE 2
SAMPLED BY : C. OVERSTREET
SAMPLE MATRIX : SO

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ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	BY	RESULT UNITS	DET. LIMIT
TOTAL ARSENIC (AS)	EPA 7060	07/17/92	WMH 07/17/92	AP	0.79 mg/kg	0.5
TOTAL CADMIUM (CD)	EPA 7131	07/17/92	WMH 07/17/92	WH	0.26 mg/kg	0.005
TOTAL CHROMIUM (CR)	EPA 7191	07/17/92	WMH 07/20/92	AP	18 mg/kg	0.25
TOTAL LEAD (PB)	EPA 7421	07/17/92	WMH 07/17/92	WH	20 mg/kg	5
TOTAL SELENIUM (SE)	EPA 7740	07/17/92	WMH 07/17/92	AP	2 mg/kg	0.5
TOTAL SILVER (AG)	EPA 7761	07/17/92	WMH 07/20/92	WH	25 mg/kg	0.05
TOTAL BARIUM (BA)	EPA 6010	07/17/92	WMH 07/17/92	WH	4.5 mg/kg	0.5
TOTAL MERCURY (HG)	EPA 7471	07/17/92	WMH 07/17/92	WH	< 0.1 mg/kg	0.1

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**engineers-scientists
LABORATORY**11960 S.W. 144 STREET, MIAMI, FL 33186
(305) 233-1411 * FAX: (305) 235-6214**FINAL REPORT OF ANALYSES**CHEROKEE GROUNDWATER
5884 STIRLING ROAD
HOLLYWOOD, FL 33021-
Attn: MR. JOEY BENISESL Project No: COW1-317
REPORT DATE: 07/28/92
PROJECT NO. : BR2T-1586A
PROJECT MANAGER : CHARLES OVERSTREET

LOCATION: 2398 NW 119th ST., MIAMI, FL

SAMPLE NUMBER : 17619
DATE SAMPLED : 07/15/92
DATE RECEIVED : 07/15/92
RECEIVED BY : LNHSAMPLE ID : SOIL PILE 3
SAMPLED BY : C. OVERSTREET
SAMPLE MATRIX : SO

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ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	BY	RESULT UNITS	DET. LIMIT
TOTAL ARSENIC (AS)	EPA 7060	07/17/92	WMH 07/17/92	AP	2.1 mg/kg	0.5
TOTAL CADMIUM (CD)	EPA 7131	07/17/92	WMH 07/17/92	WH	0.13 mg/kg	0.005
TOTAL CHROMIUM (CR)	EPA 7191	07/17/92	WMH 07/20/92	AP	26 mg/kg	0.25
TOTAL LEAD (PB)	EPA 7421	07/17/92	WMH 07/17/92	WH	60 mg/kg	5
TOTAL SELENIUM (SE)	EPA 7740	07/17/92	WMH 07/17/92	AP	2.5 mg/kg	0.5
TOTAL SILVER (AG)	EPA 7761	07/17/92	WMH 07/20/92	WH	3.8 mg/kg	0.05
TOTAL BARIUM (BA)	EPA 6010	07/17/92	WMH 07/17/92	WH	15 mg/kg	0.5
TOTAL MERCURY (HG)	EPA 7471	07/17/92	WMH 07/17/92	WH	< 0.1 mg/kg	0.1

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**engineers-scientists
LABORATORY**11960 S.W. 144 STREET, MIAMI, FL 33186
(305) 233-1411 • FAX: (305) 235-8214**FINAL REPORT OF ANALYSES**CHEROKEE GROUNDWATER
5884 STIRLING ROAD
HOLLYWOOD, FL 33021-
Attn: MR. JOEY BEMISEEL Project No: CGW1-317
REPORT DATE: 07/28/92
PROJECT NO. : ER2T-1588A
PROJECT MANAGER : CHARLES OVERSTREET

LOCATION: 2398 NW 119th ST., MIAMI, FL

SAMPLE NUMBER : 17620
DATE SAMPLED : 07/15/92
DATE RECEIVED : 07/15/92
RECEIVED BY : LMHSAMPLE ID : SOIL PILE 4
SAMPLED BY : C. OVERSTREET
SAMPLE MATRIX : SO

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ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	BY	RESULT UNITS	DET. LIMIT
TOTAL ARSENIC (AS)	EPA 7060	07/17/92	WMH 07/17/92	AP	1.4 mg/kg	0.5
TOTAL CADMIUM (CD)	EPA 7131	07/17/92	WMH 07/17/92	WH	0.12 mg/kg	0.005
TOTAL CHROMIUM (CR)	EPA 7191	07/17/92	WMH 07/20/92	AP	24 mg/kg	0.25
TOTAL LEAD (PB)	EPA 7421	07/17/92	WMH 07/17/92	WH	84 mg/kg	5
TOTAL SELENIUM (SE)	EPA 7740	07/17/92	WMH 07/17/92	AP	2.4 mg/kg	0.5
TOTAL SILVER (AG)	EPA 7761	07/17/92	WMH 07/20/92	WH	4.4 mg/kg	0.05
TOTAL BARIUM (BA)	EPA 6010	07/17/92	WMH 07/17/92	WH	7.5 mg/kg	0.5
TOTAL MERCURY (HG)	EPA 7471	07/17/92	WMH 07/17/92	WH	< 0.1 mg/kg	0.1

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**engineers-scientists
LABORATORY**11960 S.W. 144 STREET, MIAMI, FL 33186
(305) 233-1411 • FAX: (305) 235-6214**FINAL REPORT OF ANALYSES**CHEROKEE GROUNDWATER
5884 STIRLING ROAD
HOLLYWOOD, FL 33021-
Attn: MR. JOEY BEMISESL Project No: CGW1-317
REPORT DATE: 07/28/92
PROJECT NO. : ER2T-1588A
PROJECT MANAGER : CHARLES OVERSTREET

LOCATION: 2398 NW 119th ST., MIAMI, FL

SAMPLE NUMBER : 17621
DATE SAMPLED : 07/15/92
DATE RECEIVED : 07/15/92
RECEIVED BY : LMHSAMPLE ID : SOIL PILE 5
SAMPLED BY : C. OVERSTREET
SAMPLE MATRIX : SO

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ANALYSIS	METHOD	SAMPLE PREP DATE	ANALYSIS BY DATE	BY	RESULT UNITS	DET. LIMIT
TOTAL ARSENIC (AS)	EPA 7060	07/17/92	WMH 07/17/92	AP	1.9 mg/kg	0.5
TOTAL CADMIUM (CD)	EPA 7131	07/17/92	WMH 07/17/92	WK	0.1 mg/kg	0.005
TOTAL CHROMIUM (CR)	EPA 7191	07/17/92	WMH 07/20/92	AP	20 mg/kg	0.25
TOTAL LEAD (PB)	EPA 7421	07/17/92	WMH 07/17/92	WH	40 mg/kg	S
TOTAL SELENIUM (SE)	EPA 7740	07/17/92	WMH 07/17/92	AP	1.7 mg/kg	0.5
TOTAL SILVER (AG)	EPA 7761	07/17/92	WMH 07/20/92	WH	5.2 mg/kg	0.05
TOTAL BARIUM (BA)	EPA 6010	07/17/92	WMH 07/17/92	WH	6.6 mg/kg	0.5
TOTAL MERCURY (HG)	EPA 7471	07/17/92	WMH 07/17/92	WH	< 0.1 mg/kg	0.1