



Department of Environmental Protection

Lawton Chiles
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

Virginia B. Wetherell
Secretary

APR 10 1998

Mr. James S. Jenkins, III
Rinker Materials Corporation
P.O. Box 24635
West Palm Beach, FL 33416

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents a routine inspection of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on March 4, 1998. During this inspection, as noted on the attached inspection report, a review of the groundwater monitoring results indicated elevated detection limits are being reported for some of the volatile organic parameters. Please ensure detection limits reported in the future during laboratory analyses are comparable with groundwater standards and criteria. Thank you for your continued cooperation.

If you have any questions or need further information, please contact Lee Martin at 561-681-6676.

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

PAW/wlm

atch: STTF Inspection dated 3/4/98

cc: Paul Lasa, DERM, Miami
Tom Conrardy, DEP/BWC, Tallahassee
Jeff Smith, DEP/WPB
Dave Marple, Rinker Materials, Miami
West Palm Beach File



Department of Environmental Protection

Lawton Chiles
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Southeast District
P.O. Box 15425
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Secretary

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. TYPE INSPECTION: ☐ COMPLAINT ☒ 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 3/4/98 TIME 10:30AM

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: ☐ 62-2, F.A.C. ☒ 62-775, F.A.C.

7. RESPONSIBLE OFFICIAL: (Name and Title)

James Jenkins, Vice President

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

Lee Martin, Jim Bussey, FDEP

Dave Marple, Rinker Materials

9. FACILITY LATITUDE 25°46'57" conf. LONGITUDE 80°25'20" conf. 8/93

10. TYPE OWNERSHIP: FEDERAL STATE COUNTY MUNICIPAL PRIVATE

11. NOTICE NO: SO13-290034 DATE ISSUED: 6/28/96 EXP. DATE: 6/7/2001

Rev 8/18/94

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

Printed on recycled paper.

A routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapter 62-775, Florida Administrative Code (FAC) and Chapter 62-701, FAC. This facility operates a rotary kiln and utilizes the petroleum contaminated soil and coal tar contaminated soil in the manufacture of cement.

BACKGROUND INFORMATION:

Rinker was issued a General Permit #SO13-290034 to operate a soil thermal treatment facility on June 28, 1996 which expires on June 7, 2001. The Rinker facility was operating as an existing facility as defined in 62-775.200, FAC prior to the effective date of this rule. Additionally, the facility treats coal tar contaminated soil under a Solid Waste Material Recovery Facility Permit #SO13-300512 issued June 4, 1997 which expires on June 4, 2002. 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 62-775, FAC, Rinker requires a soil analysis profile. Based on this profile, and specific conditions from DEP and Metro Dade Department of Environmental Resources Management (DERM), soils are brought by truck to the soil storage facility. DERM has granted approval authority to Rinker, subject to specific conditions in their DERM solid waste permit. Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261.

Rinker has operated a materials substitution program since 1991. 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, (4) using spent petroleum catalyst as an aluminum source, and (5) blending oily sludges with contaminated soils.

Rinker has received approval for burning 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. Additionally, the tires are packed with petroleum contaminated booms, diapers, absorbent material, jet fuel filters, etc.; however, operational problems with lowering of temperatures has suspended continuous burning but some batch burning is still performed. Rinker has received a determination that the use of spent petroleum catalyst as an aluminum source is not regulated under 62-775, F.A.C.; however, the characteristics provided would make storage on the bare ground inappropriate. Several loads (10-12) of spent catalyst from a Hess operation in Puerto Rico were received in the past, but handling problems due to the extremely dusty nature of the material has delayed subsequent shipments while a pneumatic off-loading and handling system is being investigated.

Rinker has applied for and received a Solid Waste Material Recovery Facility Permit No. SO13-300512 which allows Rinker to accept and treat certain coal tar contaminated soils. Rinker accepted coal tar contaminated soils from mid June-mid August 1997 and revised the treated soil reporting form to reflect the coal tar parameters.

Rinker has applied for an alternative procedure to allow processing of certain petroleum related sludges/residues along with petroleum contaminated soil. This request is under review by the Bureau of Waste Cleanup.

The afterburner system for the petroleum contaminated soils is in operation, the soils process through a preliminary kiln (stone dryer) with 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 soil storage facility. Rinker has changed their policy concerning drum handling due to the increase in drill cuttings received in drums and the subsequent bottle neck caused in the off loading area. The drums are placed in the Northwest corner of the facility and emptied as time permits and during this inspection all drums previously observed outside the building have been relocated inside the building. Once emptied the drums are then rinsed at the drum washing area and crushed for salvage. The rinse water is contained and used on site in slurry production, the sediments are returned to the soil storage facility. The current 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 is located to collect any contaminated water from wind blown rain seeping through the contaminated soils. The leachate collection tank has been relocated outside the Southeast corner of the facility. The tank is within a secondary containment structure and piping outside the facility is double-walled. An additional interior concrete curb sloping away from the Northeast front wall toward the interior of the facility had been installed. An additional stem wall has been constructed along the Northeast front wall and rain gutters have been redirected after investigation following the December 1996 inspection. This will continue to be checked in the future. The four groundwater wells off the corners of the facility have flush mounted manhole lids.

Upgraded electrical service to the facility allowed conversion of the screening capability and metal removal by magnetic methods from diesel to electric operation with a significant decrease in noise levels during operation. The metal and plastics removed from the soils are collected for transport to the County landfill, Rinker should maintain receipts for proper disposal. 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. Spent oil filters are drummed at the soil storage facility and processed for recycling to Cliff Berry, Inc. A new covered dumpster has been located in the Northeast corner of the soil storage building to allow collection of oily wastes/sludges which are mixed with the fuel oil and burned in the kiln.

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. A review of records for untreated soil for January 1998 indicated some batches of untreated soils were received which exceeded the clean soil criteria for metals; however, spot checks on some of these batches were made and blending records were provided as required by 62-775.400(4), FAC, which confirms blended soils comply with total metals standards. Rinker began treating low level PCB contaminated soils in April 1994 and developed a form to tracking the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. No reporting forms for untreated PCB contaminated soils were submitted for this inspection period. Rinker began treating coal tar contaminated soils in mid-June 1997 and developed a form to track the required analytical data for the treated soils. No treated soils analyzed for this quarter exceeded the VOA or TRPH criteria for clean soil in 62-775, FAC.

SUMMARY:

The new soil storage facility incorporates "state of the art" technology in handling and storing petroleum, low level PCB contaminated soils, and coal tar contaminated soils and significantly enhances Rinker's capability to process contaminated soils in an environmentally sound manner. No other signs of discharge were noted and all facility personnel were very cooperative.

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

Name of Facility RINKER MATERIALS
Location 1200 N.W. 137th AVE, MIAMI, FL 33182
General Permit No. SO 13-290034 Date of Inspection 3/4/98
Contact Person DAVE MARPLE
Person Completing Report LEE MARTIN

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 1/2/98 end date 1/30/98
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 10/26/97 end date 2/1/98
using new form to include coal tar parameters

12. Indicate frequency clean soil criteria is being met?
- 100 % TRPH - 10 mg/kg, or
 - ✓ % 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 BDL mg/kg to 110000 mg/kg, median 1626 mg/kg
 - VOA BDL mg/kg to 196940 mg/kg, median 1 mg/kg
 - Arsenic BDL mg/kg to 57 mg/kg
 - Barium BDL mg/kg to 550 mg/kg
 - Cadmium BDL mg/kg to 36 mg/kg
 - Chromium BDL mg/kg to 190 mg/kg
 - Lead BDL mg/kg to 2700 mg/kg
 - Mercury BDL mg/kg to .4 mg/kg
 - Selenium BDL mg/kg to 14 mg/kg
 - Silver BDL mg/kg to 5.5 mg/kg
14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
- TRPH BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
 - Arsenic 1.3 mg/kg to 5.3 mg/kg
 - Barium 165 mg/kg to 453 mg/kg
 - Cadmium BDL mg/kg to .42 mg/kg
 - Chromium 49.1 mg/kg to 110 mg/kg
 - Lead 1.3 mg/kg to 13.5 mg/kg
 - Mercury BDL mg/kg to .32 mg/kg
 - Selenium BDL mg/kg to 11.8 mg/kg
 - Silver BDL mg/kg to BDL mg/kg
 - BERYLLIUM 1.53 mg/kg to 7.43 mg/kg
 - CYANIDE BDL mg/kg to .95 mg/kg

Comments:

X - RINKER IS USING ON SITE LAB FOR GW ANALYSES BUT REPORTING ELEVATED DETECTION LIMITS. NEED TO ESTABLISH DETECTION LIMITS COMPARABLE WITH GROUNDWATER STANDARDS & CRITERIA.

TCLP ANALYSES CONFIRMED FOR BATCH #307-98002 WITH ELEVATED LEAD (2700 mg/kg)
SOILS WITH METAL RESULTS ABOVE CLEAN SOIL CRITERIA BLENDED TO REDUCE LEVEL.

William L. Martin
 Signature

4/3/98
 Date



Department of Environmental Protection

Lawton Chiles
Governor

Southeast District
P.O. Box 15425
West Palm Beach, Florida 33416

Virginia B. Wetherell
Secretary

Mr. James S. Jenkins, III
Rinker Materials Corporation
P.O. Box 24635
West Palm Beach, FL 33416

ENFORCE	BOOKING
DRAFT	
Initial	DATE
<i>gwm</i>	<i>4/9/98</i>
<i>[Signature]</i>	<i>4/9/98</i>

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents a routine inspection of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on March 4, 1998. During this inspection, as noted on the attached inspection report, a review of the groundwater monitoring results indicated elevated detection limits are being reported for some of the volatile organic parameters. Please ensure detection limits reported in the future during laboratory analyses are comparable with groundwater standards and criteria. Thank you for your continued cooperation.

If you have any questions or need further information, please contact Lee Martin at 561-681-6676.

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

PAW/wlm

atch: STTF Inspection dated 3/4/98

cc: Paul Lasa, DERM, Miami
Tom Conrardy, DEP/BWC, Tallahassee
Jeff Smith, DEP/WPB
Dave Marple, Rinker Materials, Miami
West Palm Beach File

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

DISTRICT ROUTING SLIP

To: PAUL WIERZBICKI

DATE: 3-16-98

CC To:

	PENSACOLA	NORTHWEST DISTRICT	
	Panama City	Northwest District Branch Office	
	Tallahassee	Northwest District Branch Office	
	Sopchoppy	Northwest District Satellite Office	
	TAMPA	SOUTHWEST DISTRICT	
	Punta Gorda	Southwest District Branch Office	
	Bartow	Southwest District Satellite Office	
	ORLANDO	CENTRAL DISTRICT	
	Melbourne	Central District Satellite Office	
	JACKSONVILLE	NORTHEAST DISTRICT	
	Gainesville	Northeast District Branch Office	
	FORT MYERS	SOUTH DISTRICT	
	Marathon	South District Branch Office	
☒	WEST PALM BEACH	SOUTHEAST DISTRICT	
	Port St. Lucie	Southeast District Branch Office	

☐ Reply Optional
Date Due: _____

☐ Reply Required
Date Due: _____

☐ Info Only

Comments:

ZOE KULAKOWSKI

From:

Tel:

Florida Department of
Environmental Protection

Memorandum

To: Paul Wierzbicki, Southeast District Office
THROUGH: Jim Crane, Bureau of Waste Cleanup *JJC*
FROM: Zoe Kulakowski, Bureau of Waste Cleanup *ZPK*
DATE: March 4, 1998
SUBJECT: Rinker Portland Cement Corporation, 1200 Northwest
137th Avenue, Miami, Dade County

I have reviewed the Chapter 62-775, F.A.C. Ground Water Monitoring Report dated February 11, 1998 for the referenced site. The method detection limits for benzene and many of the polynuclear aromatic hydrocarbons (PAHs) were too high to determine compliance of the facility with regard to potential ground water impact. Method detection limits for the 62-775 must be equal to or less than the 62-550/62-520 ground water standards and minimum criteria (FDEP guidance concentrations). This situation should be corrected before the March (next) sampling event.

/zpk

RECEIVED
MAR 17 1998
DEPT OF ENV PROTECTION
WEST PALM BEACH

Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2800 Blair Stone Road Tallahassee, Florida 32399-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Month: JANUARY Year: 1998

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172164
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility: _____

DER Form # 17-776.900(2)
Form Title Soil Thermal Treatment Facility
Effective Date Untreated Soil Reporting Form
DER Application No _____

1	2	3	4	5												6	7	8	9				
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results																			
				Metals												Totals				Indicate Other Analyses Attach Lab Results Only			
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH									
01/02/98	307-98007	1	34.71	3.0	BDL	0.81	5.9	48	BDL	BDL	BDL	BDL	5000	BDL									
01/02/98	481-98001	5	25.16	BDL	4.38	BDL	2.98	21.58	BDL	BDL	BDL	1939.40	998.84	BDL									
01/02/98	625-98003	3	7.36	0.93	3.30	0.06	3.83	4.80	BDL	0.5	BDL	276.67	7.512	BDL									
01/05/98	307-98007	1	14.84	3.0	BDL	0.81	5.9	48	BDL	BDL	BDL	BDL	5000	BDL									
01/05/98	307-98008	1	12.89	BDL	10	BDL	9.2	16	BDL	BDL	BDL	BDL	3700	BDL									
01/05/98	481-98001	5	274.08	BDL	4.38	BDL	2.98	21.58	BDL	BDL	BDL	1939.40	998.84	BDL									
01/05/98	527-98001	1	7.12	0.7	14.6	0.1	11.2	4.0	BDL	BDL	BDL	BDL	24961	BDL									
01/06/98	307-98001	1	3.46	17	13	5.45	19	515	BDL	BDL	BDL	BDL	1626	BDL									
01/06/98	307-98006	1	13.03	9.45	21	2.95	7.55	125.5	BDL	BDL	BDL	BDL	4650	BDL									
01/06/98	481-98001	5	77.18	BDL	4.38	BDL	2.98	21.58	BDL	BDL	BDL	1939.40	998.84	BDL									
01/07/98	114-98001	1	0.27	BDL	50	BDL	12	2.60	BDL	BDL	BDL	17600	8910	BDL									
01/07/98	114-98002	1	0.34	BDL	550	1.70	24.0	120	BDL	BDL	BDL	3772	1600	BDL									
01/07/98	307-98004	1	15.09	37	8.4	4.55	11.7	508	BDL	BDL	5.5	BDL	19	BDL									
01/07/98	307-98008	1	14.95	BDL	10	BDL	9.2	16	BDL	BDL	BDL	BDL	3700	BDL									
01/07/98	426-98001	3	129.40	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL									
01/07/98	481-98001	5	196.37	BDL	4.38	BDL	2.98	21.58	BDL	BDL	BDL	1939.40	998.84	BDL									
01/08/98	165-98001	1	20.10	20	99	1.4	18	13	0.024	<10	<1.0	BDL	3700	BDL									
01/08/98	203-98001	1	0.50	2.1	40	<0.58	36.1	<14	<0.23	14	1.4	61.6	55.2	BDL									
01/08/98	307-98006	1	22.60	9.45	21	2.95	7.55	125.5	BDL	BDL	BDL	BDL	4950	BDL									
01/08/98	322-98003	1	2.50	1.16	34.4	1.35	24.3	4.63	BDL	BDL	BDL	840	BDL	BDL									
01/08/98	344-98001	1	22.33	2.1	3.2	BDL	1.3	34.2	BDL	BDL	BDL	BDL	1760	BDL									
01/08/98	426-98001	3	16.60	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL									
01/08/98	481-98001	5	380.70	BDL	4.38	BDL	2.98	21.58	BDL	BDL	BDL	1939.40	998.84	BDL									
01/08/98	591-98001	1	49.31	6.00	450	36	180	1140	0.200	BDL	BDL	BDL	627	BDL									
01/08/98	165-98001	1	20.07	20	99	1.4	18	13	0.024	<10	<1.0	BDL	3700	BDL									
01/08/98	307-98004	1	15.76	37	8.4	4.55	11.7	508	BDL	BDL	5.5	BDL	19	BDL									
01/08/98	307-98005	1	19.76	6.75	5.0	.44	5.1	188	BDL	BDL	BDL	BDL	1500	BDL									
				37	550	36	190	1140	.2	14	5.5												
				776.900(2)																			

* SEE ATTACHMENT "A"

Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Month: JANUARY Year: 1988

Name of Facility: RINKER MATERIALS CORP.
 Air Permit No.: A013-172184
 Soil Treatment Permit No.: SW-01117-91
 Stationary XXX or Mobile Facility: _____

DER Form # 17-775.900(2)
 Form Title Soil Thermal Treatment Facility
 Effective Date Untreated Soil Reporting Form
 DER Application No _____

1	2	3	4	5										6	7	8	9
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight cwt/m	Analytical Results													
				Metals										Totals			
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only		
*01/09/88	310-98001	1	4.51	1.70	32	9.90	12	900	BDL	BDL	BDL	BDL	2700	BDL			
01/09/88	426-98001	3	30.53	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL			
01/09/88	452-98001	1	131.48	BDL	5.0	BDL	1.70	1.90	BDL	BDL	BDL	BDL	2200	BDL			
01/09/88	452-98002	1	94.90	BDL	7.23	BDL	8.53	5.73	0.155	BDL	BDL	BDL	67.6	BDL			
*01/09/88	453-98001	1	0.75	<10	12	23	55	25	.06	BDL	BDL	BDL	170	BDL			
01/09/88	481-98001	5	139.89	BDL	4.36	BDL	2.98	21.58	BDL	BDL	BDL	1989.40	998.84	BDL			
*01/09/88	591-98001	1	52.56	6.00	450	36	190	11.40	0.200	BDL	BDL	BDL	627	BDL			
01/09/88	613-98001	1	0.25	1.13	3.60	0.415	6.38	4.16	<0.010	<0.000	.499	BDL	67.2	BDL			
01/09/88	626-98002	1	0.25	BDL	BDL	BDL	7.7	5.3	BDL	BDL	BDL	327	110000	BDL			
01/10/88	372-98001	1	65.46	BDL	12	BDL	6.4	9.8	BDL	BDL	BDL	303	5300	BDL			
01/12/88	426-98001	3	20.57	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL			
01/12/88	452-98002	1	64.90	BDL	7.23	BDL	8.53	5.73	0.155	BDL	BDL	BDL	67.6	BDL			
01/13/88	114-98003	1	0.30	BDL	1.42	1.00	33	46	BDL	BDL	BDL	7030	32800	BDL			
01/13/88	203-98002	1	3.50	1.90	160	32.8	33.8	1560	0.289	BDL	BDL	BDL	297	BDL			
01/13/88	269-98001	1	72.62	<1.75	<3.51	<1.75	2.63	4.38	<0.09	<8.77	<3.51	19.51	3600	BDL			
01/13/88	307-98002	1	46.05	17	63	2.4	100	2700	<0.4	<1.9	<4.4	BDL	720	BDL			
01/13/88	307-98003	1	16.11	BDL	9.9	6.1	3.9	220	BDL	BDL	BDL	BDL	3800	BDL			
01/13/88	322-98001	1	0.75	BDL	2.20	BDL	3.01	1.80	BDL	BDL	BDL	BDL	18.3	BDL			
01/13/88	426-98001	3	12.73	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL			
01/13/88	613-98004	1	0.25	3.69	7.93	3.15	4.94	3.77	<0.010	.606	.0529	BDL	12.7	BDL			
*01/14/88	114-98004	1	17.02	1.6	14.8	0.37	13.8	130	BDL	BDL	BDL	869	7657	BDL			
01/14/88	344-98001	1	10.24	2.1	3.2	BDL	1.3	34.2	BDL	BDL	BDL	BDL	1760	BDL			
01/14/88	426-98001	3	24.28	0.6	1.5	0.11	2.4	2.1	BDL	BDL	BDL	1228	17650	BDL			
01/14/88	549-98001	3	116.63	BDL	BDL	BDL	2.6	6.4	BDL	BDL	BDL	BDL	6634	BDL			
01/14/88	549-98003	1	0.15	BDL	1.1	0.09	BDL	1.9	BDL	BDL	BDL	BDL	7474	BDL			
01/14/88	613-98003	1	0.80	2.02	7.95	130	10.2	5.91	<0.010	.170	.0271	BDL	27.3	.003			
01/14/88	739-98001	1	1.68	2.9	18.5	0.06	6.6	3.2	BDL	BDL	BDL	236	12174	BDL			
775.900(2)				17	450	36	190	2700	.4	8.1	4.4						

* SEE ATTACHMENT "A"

Florida Department of Environmental Regulation

Twin Towers Office Bldg. 2800 Blair Stone Road Tallahassee, Florida 32309-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Month: JANUARY Year: 1998

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172164
Soil Treatment Permit No.: SW-01117-91
Stationary XXX or Mobile Facility: _____

DER Form # 17-776.900(2)
Soil Thermal Treatment Facility
Form Title Untreated Soil Reporting Form
Effective Date _____
DER Application No _____

1		2		3		4		5												6		7		8		9	
Day of Mo.		Soil Batch ID#		Sample Number		Amount Volume or Weight		Analytical Results												Totals		RPH		VOH		Indicate Other Analyses Attach Lab Results Only	
						Weight		Metals												VOA							
						cyl/m														BDL		1760		BDL		BDL	
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* SEE ATTACHMENT "A"

Twin Towers Office Bldg. 2800 Blair Stone Road Tallahassee, Florida 32399-2400

Soil Thermal Treatment Facility Untreated Soil Reporting Form

DER Form # 17-776.900(2)
Soil Thermal Treatment Facility
Form Title Untreated Soil Reporting Form
Effective Date _____
DER Application No _____

[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:

**ATTACHMENT "A"
Metals Blending Report**

Month Jan. Year 98

1	2	3	4	5										6	7	8	
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										Totals			Source
				Metals													
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH				
6-Jan	307-98001																
untreated	analysis																
blending	soil			17	13	5.45	19	515	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Blended 5 - 1	
blending	soil			BDL				BDL									
				1.1				23									
6-Jan	307-98006																
untreated	analysis																
blending	soil			9.45	21	2.95	7.55	125.5	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Blended 1 - 1	
blending	soil							BDL									
								22									
7-Jan	114-98002																
untreated	analysis																
blending	soil			BDL	550	1.7	24	120	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Blended 1 - 1	
blending	soil							BDL									
								57.9									
7-Jan	307-98004																
untreated	analysis																
blending	soil			37	8.4	4.55	11.7	508	BDL	BDL	BDL	BDL	BDL	BDL	BDL	Blended 5 - 1	
blending	soil			BDL				BDL									
				1.1				21.5									

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

ATTACHMENT "A"

Month Jan. Year 98

Form: ATTACH A

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

Month Jan. Year 98

Form: ATTACH_A

**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:

**ATTACHMENT "A"
Metals Blending Report**

Month Jan. Year 98

				5					6		7		8				
				Analytical Results													
				Metals				Totals								Source	
1	2	3	4	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH				
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn														
	14-Jan	114-98004															
untreated	analysis			1.6	14.8	0.37	13.8	130	BDL	BDL	BDL	BDL	BDL	Blended 1 - 1			
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....				
blending	soil			.....	.....	.....	.....	28.5	.....	.....	.....	.....	.....				
	293-98002																
22-Jan	27-Jan																
untreated	analysis			57	16	1.6	26	630	0.06	BDL	BDL	1.1	BDL	Blended 6 - 1			
blending	soil			BDL	.....	.....	.....	BDL	.....	.....	.....	.....	.....				
blending	soil			10	.....	.....	.....	97.4	.....	.....	.....	.....	.....				
	293-98003																
22-Jan	23-Jan	27-Jan															
untreated	analysis			9	BDL	1.4	3.4	140	BDL	BDL	BDL	BDL	BDL	Blended 1 - 1			
blending	soil			.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....				
blending	soil			.....	.....	.....	.....	28.5	.....	.....	.....	.....	.....				
26-Jan	741-98001																
untreated	analysis			2.1	17.5	3.69	51.2	240	0.14	BDL	BDL	BDL	BDL	Blended 2 - 1			
blending	soil			.....	.....	.....	BDL	BDL	.....	.....	.....	.....	.....				
blending	soil			.....	.....	.....	10.8	8	.....	.....	.....	.....	.....				

Name of Facility: RINKER MATERIALS CORP
Air Permit No: A013-172154
Soil Treatment Permit No: SW-Q1117-91
Stationary:XXX or Mobile Facility:

ATTACHMENT "A"
Metals Blending Report

Month Jan. Year 98

[illegible]

RINKER Environmental Services, INC.

COMPOAP #950491
HRS #E86536

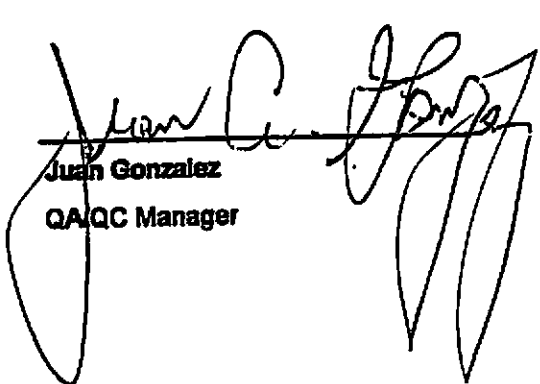
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/6/98
SAMPLE SOURCE F.P.L.
REFERENCE # FPL MILLER
R.E.S. NUMBER 8819/8820
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	4.1	BDL	1.1	mg/kg	7061	1	10	2/9-2/11/98	PEP
LEAD	54.5	BDL	23.0	mg/kg	7420	1	100	2/9-2/11/98	PEP

BLEND = 1 Contaminated With
BDL = Below detection limit

CLEAN


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

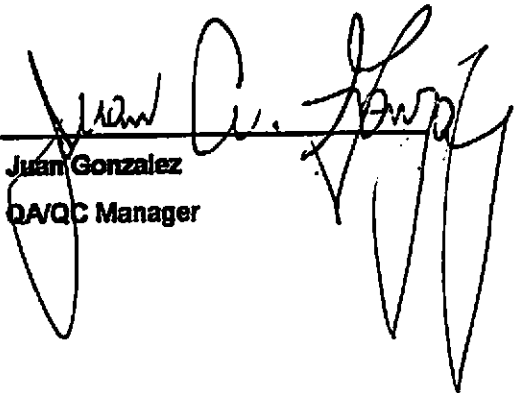
COMPOAP #850491
HRS #E88538

Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/6/98
SAMPLE SOURCE R.E.S
REFERENCE # 307-98006
R.E.S. NUMBER 8815/8816
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	28.5	BDL	22.0	mg/kg	7420	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 1 CLEAN
BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491
HRS #E86538

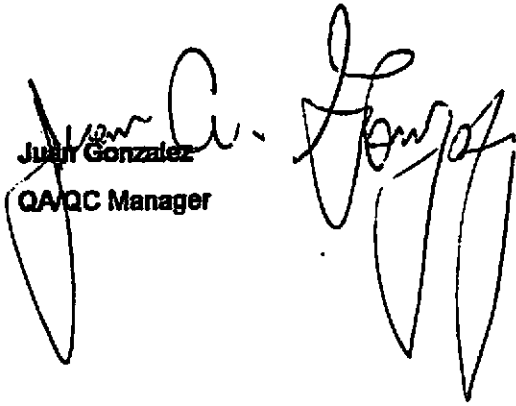
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/7/98
SAMPLE SOURCE R.E.S.
REFERENCE # 114-98002
R.E.S. NUMBER 9027/8818
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	23.0	BDL	57.9	mg/kg	7420	1	100		

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491

HRS #E86538

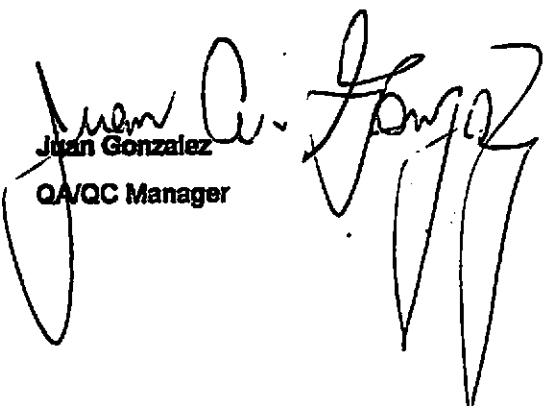
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/7/98
SAMPLE SOURCE R.E.S.
REFERENCE # 307-98004
R.E.S. NUMBER 8813/8814
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	4.0	BDL	1.1	mg/kg	7061	1	10	2/9-2/11/98	PEP
LEAD	29.0	BDL	21.5	mg/kg	7420	1	100	2/9-2/11/98	PEP

BLEND = 1 Contaminated With 5 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMQAP #930491
HRS #E86538

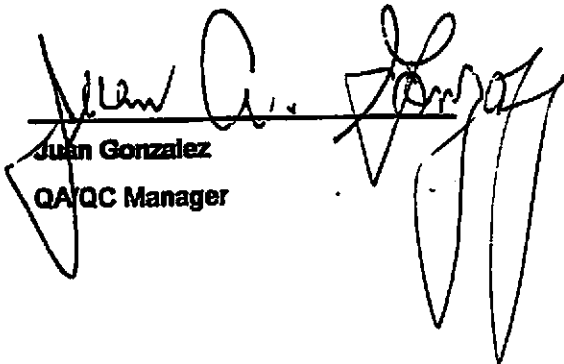
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/8/98
SAMPLE SOURCE R.E.S.
REFERENCE # 165-98001
R.E.S. NUMBER 8809/8810
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	2.9	BDL	6.3	mg/kg	7061	1	10	2/9/98	PEP

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491

HRS #E86536

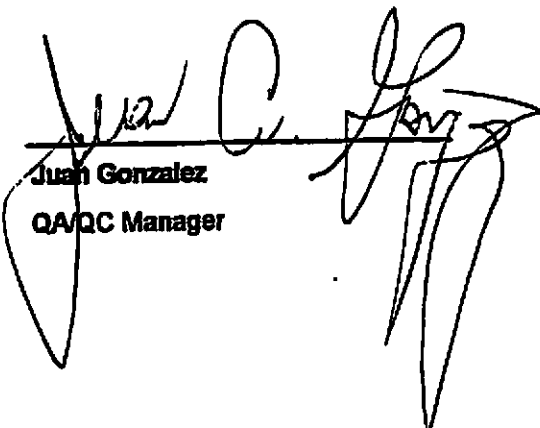
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/9/98
SAMPLE SOURCE R.E.S.
REFERENCE # 591-98001
R.E.S. NUMBER 8935/8936
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REQ.	DATE	INITIAL
LEAD	<5	BDL	44.5	mg/kg	7420	1	100	2/11/98	PEP
CHROMIUM	0.8	BDL	19.2	mg/kg	7191	1	50	2/11/98	PEP

BLEND = 1 Contaminated With 34 CLEAN

BDL = Below detection limit


Juan Gonzalez

QA/QC Manager

RINKER Environmental Services, INC.

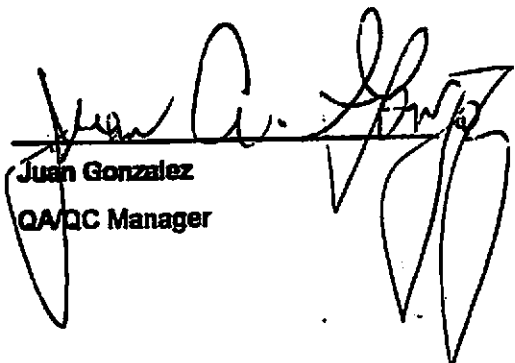
COMPOAP #950491
HRS #E88538

Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/9/98
SAMPLE SOURCE R.E.S.
REFERENCE # 307-98005
R.E.S. NUMBER 8925/8926
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	486	BDL	106	mg/kg	7420	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 1 CLEAN
BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491
HRS #E88538

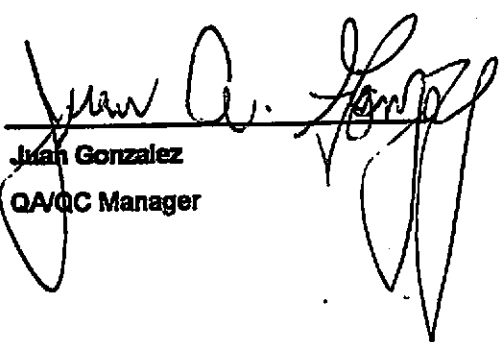
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/9/98
SAMPLE SOURCE R.E.S
REFERENCE # 310-98001
R.E.S. NUMBER 8807/8808
SAMPLE TYPE CONT. CONT. SOIL
SHELL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	834.0	BDL	25.5	mg/kg	7420	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 9 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491

HRS #E86538

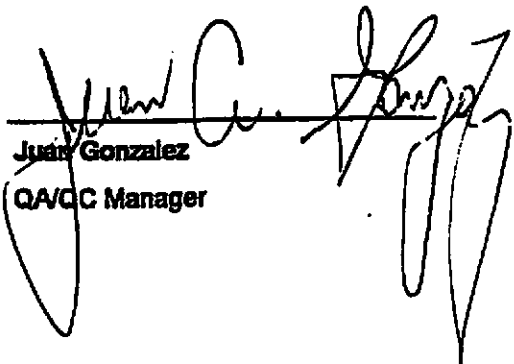
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/9/98
SAMPLE SOURCE R.E.S.
REFERENCE # 453-98001
R.E.S. NUMBER 8811/8812
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
CHROMIUM	32.5	BDL	10.3	mg/kg	7191	1	50	2/11/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

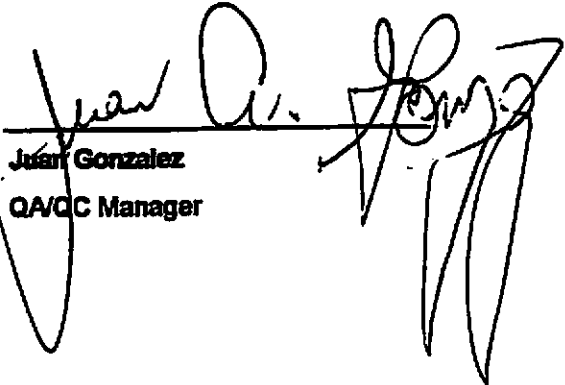
COMPQAP #950491
HRS #E86638

Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/13/98
SAMPLE SOURCE R.E.S.
REFERENCE # 203-98002
R.E.S. NUMBER 8962/8963
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	10.5	BDL	23.5	mg/kg	7421	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 15 CLEAN
BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPCAP #950491
HRS #E86536

Material Analysis Report

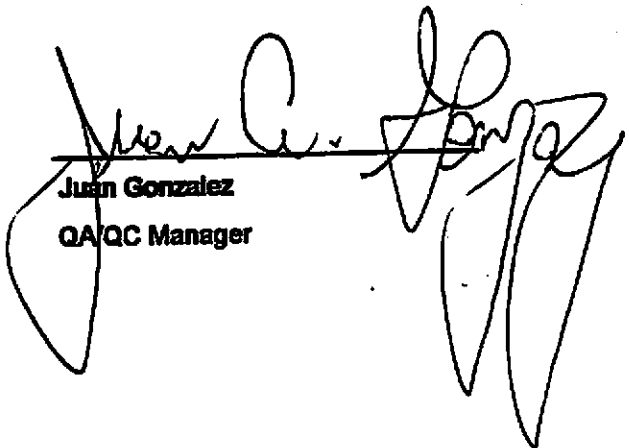
REPORT DATE 2/13/98
SAMPLE DATE 1/13/98
SAMPLE SOURCE R.E.S.
REFERENCE # 307-98002
R.E.S. NUMBER 8862/8863
SAMPLE TYPE CONT. SOIL

FPL Greynolds Sub

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	4.6	BDL	2.7	mg/kg	7061	1	10	2/9-2/11/98	PEP
LEAD	1020	BDL	42.5	mg/kg	7420	1	100	2/9-2/11/98	PEP
CHROMIUM	24.6	BDL	15.0	mg/kg	7191	1	50	2/9-2/11/98	PEP

BLEND = 1 Contaminated With 25 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

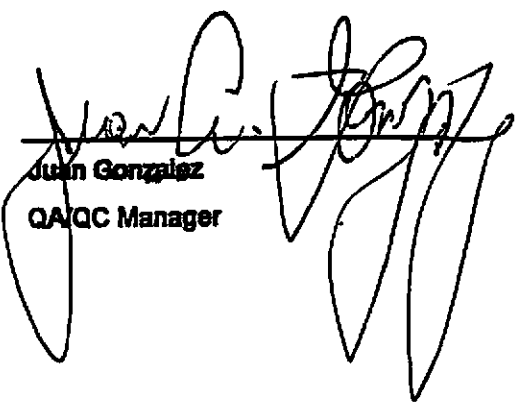
COMPQAP #950491
HRS #E88538

Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/13/98
SAMPLE SOURCE R.E.S
REFERENCE # 307-98003
R.E.S. NUMBER 8866/8867
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	28.5	BDL	42.0	mg/kg	7420	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 3 CLEAN
BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491

HRS #E88638

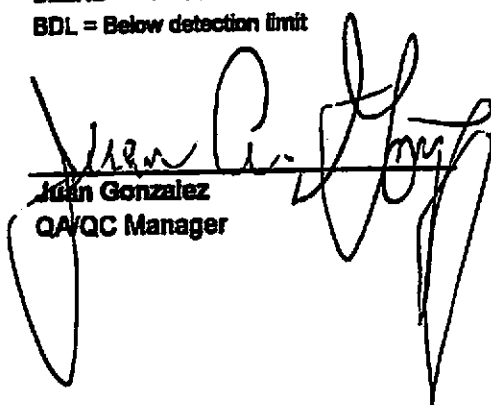
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE JANUARY 98
SAMPLE SOURCE R.E.S.
REFERENCE # 114-98004
R.E.S. NUMBER 8785/8965
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS DET.	REG.	ANALYSIS DATE	ANALYST INITIAL
LEAD	130	BDL	28.5	mg/kg	7421	1	100	2/11/98	PEP

BLEND = 1 Contaminated With
BDL = Below detection limit

3 CLEAN


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491

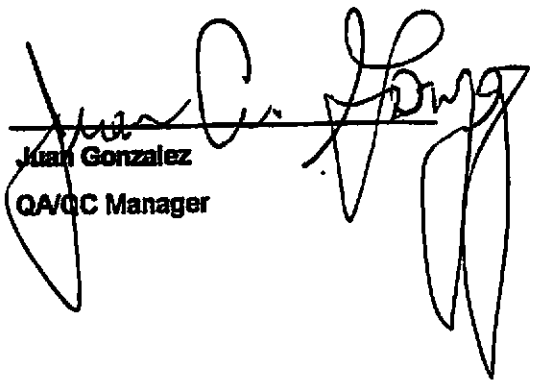
HR6 #E86536

Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/22/98
SAMPLE SOURCE R.E.S.
REFERENCE # 293-98002
R.E.S. NUMBER 8933/9026
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	53.0	BDL	10.4	mg/kg	7061	1	10	2/10-2/11 2/13/98	PEP
LEAD	770.0	BDL	97.4	mg/kg	7421	1	100	2/10-2/11 2/13/98	PEP

BLEND = 1 Contaminated With 6 CLEAN
BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E88536

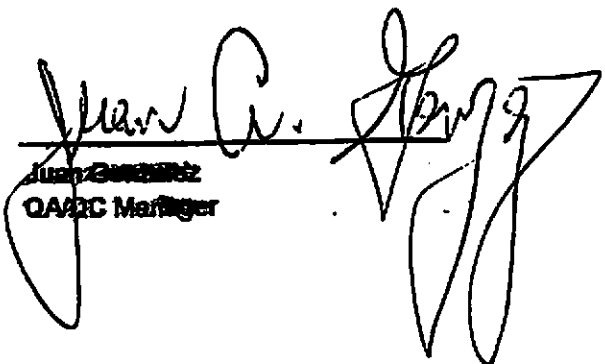
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/22/98
SAMPLE SOURCE R.E.S.
REFERENCE # 293-98003
R.E.S. NUMBER 8964/8965
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	13.5	BDL	28.5	mg/kg	7421	1	100	2/11/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan C. Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

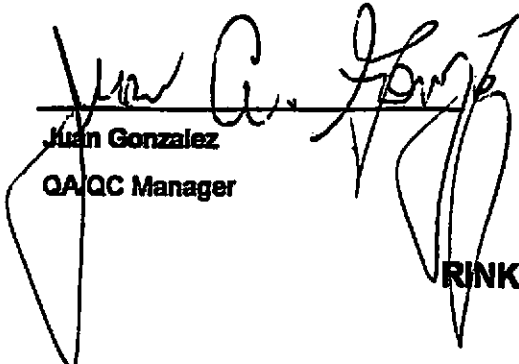
Material Analysis Report

REPORT DATE 2/13/98
SAMPLE DATE 1/26/98
SAMPLE SOURCE R.E.S.
REFERENCE # 741-98001
R.E.S. NUMBER 8931/8932
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	125.0	BDL	8.0	mg/kg	7420	1	100	2/11/98	PEP
CHROMIUM	43.5	BDL	10.8	mg/kg	7191	1	50	2/11/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Florida Department of Environmental Regulation
 Soil Treatment Facility
 Treated Soil Transporting 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 _____ Year 1997

1	2	3	4	5	6	7	8	9	10	11						
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/tn	Analytical Results						Totals					
11-24		42	168		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
11-24		42	168		3.0	101	.18	35.3	3.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-24		42	168		Be	CN	Phenols	Dibenzofuran					0.02	0.02	0.02	0.02
11-24		42	168		2.7	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-25		42	168		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
11-25		42	168		2	188	.03	72.6	1.4	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-25		42	168		Be	CN	Phenols	Dibenzofuran					0.02	0.02	0.02	0.02
11-25		42	168		3.5	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-10		42	168		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
11-10		42	168		2.7	199	.04	53.8	1.3	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-10		42	168		Be	CN	Phenols	Dibenzofuran					0.02	0.02	0.02	0.02
11-10		42	168		3.0	.95	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-23		42	168		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
11-23		42	168		3.6	269	0.02	76.3	2.9	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-23		42	168		Be	CN	Phenols	Dibenzofuran					0.02	0.02	0.02	0.02
11-23		42	168		3.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-24		42	168		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
11-24		42	168		4.3	276	0.02	49.1	2.8	0.02	0.02	0.02	0.02	0.02	0.02	0.02
11-24		42	168		Be	CN	Phenols	Dibenzofuran					0.02	0.02	0.02	0.02
11-24		42	168		3.2	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

Florida Department of Environmental Regulation

Soil Treatment Facility

Treated 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 Year 1997

Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/tn	Analytical Results											Totals									
					TCLP Metals											Totals									
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH	
12-1		42	16.8		1.3	304	0.7	66.7	8.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
12-8					3.42	0.01	0.01	0.01																	
12-15		42	16.8		2.3	259	0.7	70.8	7.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
12-14					1.53	0.01	0.01	0.01																	
12-15		42	16.8		2.1	262	1.0	80.8	7.9	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
12-21					3.02	0.01	0.01	0.01																	
12-25		42	16.8		1.4	445	0.5	77.7	9.0	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
12-28					1.24	0.01	0.01	0.01																	
12-28		42	16.8		1.9	453	0.3	110	9.5	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
1-4					3.24	0.01	0.01	0.01																	

Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Treated 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:

Day of Month		2	3	4	5	Month										Year															
		6					7					8					9					10					11				
1-6	1-11	42	168			Analytical Results										1998															
		Total Metals					TCLP Metals																								
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH										
		3.3	301	.08	105	7	602	301	602	602	2	602	.4	602	602	.004	602	602	602	602	602										
		Be	CN	Phenols	Dibenzofuran					Be	Benzene										TOH										
		4.3	602	602	602					602	602										602										
		6					7					8					9					10					11				
1-12	1-18	42	168			Analytical Results																									
		Total Metals					TCLP Metals																								
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH										
		3.7	196	.42	65.9	18.5	802	1.5	602	602	602	.3	602	602	602	602	602	602	602	602	602										
		Be	CN	Phenols	Dibenzofuran					Be	Benzene										TOH										
		6.53	602	602	602					602	602										602										
		6					7					8					9					10					11				
1-19	1-25	42	168			Analytical Results																									
		Total Metals					TCLP Metals																								
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH										
		3.1	165	.26	52.3	9.5	602	11.8	602	602	602	602	602	602	602	602	602	602	602	602	602										
		Be	CN	Phenols	Dibenzofuran					Be	Benzene										TOH										
		7.43	602	602	602					602	602										602										
		6					7					8					9					10					11				
1-20	1-26	42	168			Analytical Results																									
		Total Metals					TCLP Metals																								
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH										
		5.3	251	.05	58.7	5.8	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602										
		Be	CN	Phenols	Dibenzofuran					Be	Benzene										TOH										
		3.29	602	602	602					602	602										602										
		6					7					8					9					10					11				
1-21	1-27	42	168			Analytical Results																									
		Total Metals					TCLP Metals																								
		As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH										
		5.3	251	.05	58.7	5.8	602	602	602	602	602	602	602	602	602	602	602	602	602	602	602										
		Be	CN	Phenols	Dibenzofuran					Be	Benzene										TOH										
		3.29	602	602	602					602	602										602										
		6					7					8					9					10					11				

Testing Facility	State of Florida Certification Numbers	Customer Address
FPL Central Laboratory 6001A Village Blvd. West Palm Beach, FL 33407 Phone # (561) 840-2056	Environmental Chemistry: E56078 CompQAP #: 920041	Substation Remediation

Report of Analyses For: Substation Remediation - Greynolds 491604004

Lab Sample Number	Field Sample Number	Parameter	Sample Collect. Date	Analysis Date	EPA Meth.	Result	Units	Qual.	MDL
97-REM-09-0026		Metals: Arsenic (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	17	mg/Kg		0.7
97-REM-09-0026		Metals: Barium (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	63	mg/Kg		6.8
97-REM-09-0026		Metals: Cadmium (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	2.4	mg/Kg		0.2
97-REM-09-0026		Metals: Chromium (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	100	mg/Kg		2.4
97-REM-09-0026		Metals: Lead (in soil)	09/24/97 04:55:00 PM	10/02/97	6010	2700	mg/Kg		3
97-REM-09-0026		Metals: Mercury (in soil)	09/24/97 04:55:00 PM	09/30/97	7471	<0.4	mg/Kg	U	0.4
97-REM-09-0026		Metals: Selenium (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	<1.9	mg/Kg	U	1.9
97-REM-09-0026		Metals: Silver (in soil)	09/24/97 04:55:00 PM	09/29/97	6010	<4.4	mg/Kg	U	4.4
97-REM-09-0026		PCB Aroclor 1242 (in soil)	09/24/97 04:55:00 PM	10/03/97	8081	<0.4	mg/Kg	R,U	0.1
97-REM-09-0026		PCB Aroclor 1254 (in soil)	09/24/97 04:55:00 PM	10/03/97	8081	<0.4	mg/Kg	R,U	0.1
97-REM-09-0026		PCB Aroclor 1260 (in soil)	09/24/97 04:55:00 PM	10/03/97	8081	<0.4	mg/Kg	R,U	0.1
97-REM-09-0026		TCLP Arsenic	09/24/97 04:55:00 PM	10/03/97	6010	0.05	mg/l		0.04
97-REM-09-0026		TCLP Chromium	09/24/97 04:55:00 PM	10/03/97	6010	0.07	mg/l		0.01
97-REM-09-0026		TCLP Lead	09/24/97 04:55:00 PM	10/03/97	6010	1.5	mg/l		0.03

Samples Analyzed By: Sheila M. Wilkinson, Jim D Chapman, Susie Adams

Kim D. Chapman

Samples Approved By:

Result Comments: U - Analyzed but not detected.; R - Reported at Practical Quantification Limit (PQL)

Sample Comments:

Parameter Comments:

Routing: Lori Pearce SBJJB Bill Reucker REP Assoc (Via US Mail) Larry Collins SB/JB

File Index: E-REM-1

Soil Batch # 307-98002

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (954) 421-7400 • Fax (954) 421-2584

LOG NO: D7-52061
Received: 26 SEP 97

Ms. Cynthia Zinni
FPL, Central Lab
P.O. Box 078768
West Palm Beach, FL 33407-0768

Client PO. No.: #B96509-90008

Project: DWA#223514
Sampled By: Client
Code: 160671010
Page 4

REPORT OF RESULTS

REPORT OF RESULTS		DATE/ TIME SAMPLED			
LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				
52061-46	491219003 IVES	09-25-97/0725			
52061-47	1521001 DADE	09-25-97/1900			
52061-48	490953005 LITTLE RIVER	09-24-97/1000			
52061-49	491604004 GREYNOLDS ✓	09-24-97/1655			
52061-50	0498006 RIVERSIDE	09-25-97/1800			
PARAMETER	52061-46	52061-47	52061-48	52061-49	52061-50
Volatile Organics (8010/8020)					
Benzyl chloride, ug/kg dw	<28	<27	<26	<28	<27
Bromobenzene, ug/kg dw	<57	<55	<53	<57	<54
Bromodichloromethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Benzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Bromoform, ug/kg dw	<28	<27	<26	<28	<27
Bromomethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Carbon tetrachloride, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Chlorobenzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Chloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Chloroform, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1-Chlorohexane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
2-Chloroethylvinyl ether, ug/kg dw	<57	<55	<53	<57	<54
Chloromethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Chlorotoluene, ug/kg dw	<57	<55	<53	<57	<54
Dibromochloromethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Dibromomethane, ug/kg dw	<28	<27	<26	<28	<27
1,2-Dichlorobenzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,3-Dichlorobenzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,4-Dichlorobenzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Dichlorodifluoromethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1-Dichloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4



SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

414 SW 12th Avenue • Deerfield Beach, Florida 33442 • (954) 421-7400 • Fax (954) 421-2584

LOG NO: D7-52061
Received: 26 SEP 97

Ms. Cynthia Zimm
FPL, Central Lab
P.O. Box 078768
West Palm Beach, FL 33407-0768

Client PO. No.: #B96509-90008

Project: DWA#223514
Sampled By: Client
Code: 160671010
Page 5

REPORT OF RESULTS

REPORT OF RESULTS			DATE/ TIME SAMPLED		
LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				
52061-46	491219003	YES	09-25-97/0725		
52061-47	1521001	DADE	09-25-97/1900		
52061-48	490953005	LITTLE RIVER	09-24-97/1000		
52061-49	491604004	GREVNOLD S	09-24-97/1655		
52061-50	0498006	RIVERSIDE	09-25-97/1800		
PARAMETER	52061-46	52061-47	52061-48	52061-49	52061-50
1,2-Dichloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1-Dichloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,2-Dichloropropane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,3-Dichloropropylene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Ethylbenzene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1,2,2-Tetrachloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1,1,2-Tetrachloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Tetrachloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Toluene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1,1-Trichloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,1,2-Trichloroethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Trichloroethylene, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Trichlorofluoromethane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
1,2,3-Trichloropropane, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Vinyl chloride, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Xylenes, ug/kg dw	<5.7	<5.5	<5.3	<5.7	<5.4
Cis/Trans-1,2-Dichloroethane, ug/kg dw	<11	<11	<10	<11	<11
Methylene chloride (Dichloromethane), ug/kg dw					
Date Analyzed	10.07.97	10.07.97	10.07.97	10.07.97	10.08.97
Method Number	8010/8020	8010/8020	8010/8020	8010/8020	8010/8020

LOG NO: D7-52061
Received: 26 SEP 97Ms. Cynthia Zinni
FPL, Central Lab
P.O. Box 078768
West Palm Beach, FL 33407-0768

Client PO. No.: #B96509-90008

Project: DWA#223514
Sampled By: Client
Code: 160671010
Page 6

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				DATE/ TIME SAMPLED
52061-46	491219003	IVES			09-25-97/0725
52061-47	1521001	DADE			09-25-97/1900
52061-48	490953005	LITTLE RIVER			09-24-97/1000
52061-49	491604004	GREYNOLDS			09-24-97/1655
52061-50	0498006	RIVERSIDE			09-25-97/1800
PARAMETER	52061-46	52061-47	52061-48	52061-49	52061-50
Petroleum Hydrocarbons by GC (FL PRO)					
Petroleum Hydrocarbons (FL PRO), mg/kg dw	10000	5000	7600	720	1600
Date Extracted	09.29.97	09.29.97	09.29.97	09.29.97	09.29.97
Date Analyzed	09.30.97	09.30.97	09.30.97	09.30.97	09.29.97
Method Number	FL-PRO	FL-PRO	FL-PRO	FL-PRO	FL-PRO
Total Organic Halogen					
Total Organic Halogen , mg/kg dw	<11	<11	<11	<11	<11
Date Analyzed	10.06.97	10.02.97	10.06.97	10.06.97	10.06.97
Method Number	EPA 600*	EPA 600*	EPA 600*	EPA 600*	EPA 600*
Percent Solids, %	88	91	95	88	92

**Rinker Materials
March 98 Inspection**

VOA	TRPH		VOA		TRPH	
1	5000					
196940	999		Mean	20417.58	Mean	5758.169
277	8		Standard Error	6380.987	Standard Error	1458.405
1	5000		Median	1	Median	1626
1	3700		Mode	1	Mode	999
196940	999		Standard Deviatio	58133.55	Standard Deviatio	13268.48
1	24961		Sample Variance	3.38E+09	Sample Variance	1.76E+08
1	1626		Kurtosis	5.823727	Kurtosis	47.23953
1	4950		Skewness	2.763477	Skewness	6.24428
196940	999		Range	196939	Range	109995
17600	8910		Minimum	1	Minimum	5
3772	1600		Maximum	196940	Maximum	110000
1	19		Sum	1694659	Sum	477928
1	3700		Count	83	Count	83
1228	17650		Confidence Level(	12506.49	Confidence Level(	2854.498
196940	999					
1	3700					
62	55					
1	4950					
840	5					
1	1760					
1228	17650					
196940	999					
1	627					
1	3700					
1	19					
1	1500					
1	2700					
1228	17650					
1	2200					
1	68					
1	170					
196940	999					
1	627					
1	67					
327	110000					
303	5300					
1228	17650					
1	68					
7030	32800					
1	297					
20	3900					
1	720					
1	3800					
1	18					
1228	17650					
1	13					
869	7857					
1	1760					
1228	17650					

**Rinker Materials
March 98 Inspection**

1	6634					
1	7474					
1	27					
236	12174					
1	1760					
1228	17650					
1	2200					
196940	999					
1228	17650					
14190	1380					
196940	999					
14190	1380					
6604	156					
14190	1380					
1	352					
14190	1380					
1	2200					
1	1600					
287	10800					
1	1600					
14190	1380					
1	5863					
1	1127					
1	17					
1	2200					
1	1600					
1	375					
1	1760					
1	375					
1	6200					
90	27					
1	1760					
1	5400					

Paul, this reports indicates that Rinker is now using their own lab to perform the analyses and is reporting detection limits that are way above the appropriate ground water target level for benzene and many of the PAHs. They plan their next quarterly event for this March so we need to get the MDLs fixed quickly. The CompQAP was approved with a detection limit of 2.5ug/l (still too high for benzene) which would be OK for the PAHs. I'll be happy to help in any way that I can.

Memorandum

Florida Department of Environmental Protection

TO: Paul Wierzbicki, Southeast District Office
THROUGH: Jim Crane, Bureau of Waste Cleanup
FROM: Zoe Kulakowski, Bureau of Waste Cleanup
DATE: March 4, 1998
SUBJECT: Rinker Portland Cement Corporation, 1200 Northwest
137th Avenue, Miami, Dade County

I have reviewed the Chapter 62-775, F.A.C. Ground Water Monitoring Report dated February 11, 1998 for the referenced site. The method detection limits for benzene and many of the polynuclear aromatic hydrocarbons (PAHs) were too high to determine compliance of the facility with regard to potential ground water impact. Method detection limits for the 62-775 must be equal to or less than the 62-550/62-520 ground water standards and minimum criteria (FDEP guidance concentrations. This situation should be corrected before the March (next) sampling event.

/zpk