Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

DEC. 20 1996

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 Reports document routine inspections of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on June 26, 1996, October 28, 1996 and December 12, 1996. 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

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

Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

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** 10/28/96 **TIME** 1:30 PM

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. _X_ 62-775, F.A.C.

7. **RESPONSIBLE OFFICIAL:** (Name and Title)
James Jenkins, Vice President

8. **SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:**
WLM
William Lee Martin and Dianne Crigger, 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

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), formerly Chapter 17-775, FAC. 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 #SO13-290034 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. 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 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 solid waste permit. Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261.

Rinker has operated a materials substitution program for the last five 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, (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.

The afterburner system for the petroleum contaminated soils is in operation, the soils process through a preliminary kiln (stone dryer) 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 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. The empty 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 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 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. As noted in previous inspections, no standing water was observed around the perimeter on the Northeast corner of the facility on this visit. An additional interior concrete curb sloping away from the Northeast front wall toward the interior of the facility had been installed. Previously 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 were present. This will continue to be checked in the future. The four groundwater wells off the corners of the facility have flush mounted manhole lids. Repairs had been made to the concrete pad around the SE monitor well and the remainder of the wells were checked and watertight, locked well caps were in place.

The electrical service to the facility has been upgraded allowing 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.

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 August 1996 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 TCLP analyses were provided which confirms soils were non-toxic 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. The reporting forms for untreated PCB contaminated soils were included with the other untreated soil forms and reviewed. 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 and low level PCB 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 NW 137th AVE MIAMI FL 33182

General Permit No. SO13-290034 Date of Inspection 10/28/96

Contact Person DAVE MARPLE

Person Completing Report LEE MARTIN (D. CRIGGER)

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)? SE NW concrete pad repaired
✓		4.	Are monitor wells being properly sampled and analysed for required parameters?
✓		5.	Is untreatd 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 8/1/96 end date 8/30/96
✓		11.	Are treated soil reporting forms being properly completed? starting date 6/2/96 end date 9/27/96

12. Indicate frequency clean soil criteria is being met?
    a. 78 % TRPH - 10 mg/kg, or
    b. 22 % TRPH - 50 mg/kg, PAH - 1 mg/kg, and VOH - 50 ug/kg

13. Indicate ranges and approximate median values of untreated soil analyses for the following parameters.
    a. TRPH BDL mg/kg to 97400 mg/kg, median 184 mg/kg
    b. VOA BDL mg/kg to 690000 mg/kg, median .1 mg/kg
    c. Arsenic BDL mg/kg to 5.3 mg/kg
    d. Barium BDL mg/kg to 669 mg/kg
    e. Cadmium BDL mg/kg to 16 mg/kg
    f. Chromium BDL mg/kg to 46.9 mg/kg
    g. Lead BDL mg/kg to 730 mg/kg
    h. Mercury BDL mg/kg to 5.1 mg/kg
    i. Selenium BDL mg/kg to .23 mg/kg
    j. Silver BDL mg/kg to 2 mg/kg

14. Indicate ranges and approximate median values of treated soil analyses for the following parameters.
    a. TRPH BDL mg/kg to 45 mg/kg, median 1 mg/kg
    b. VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
    c. Arsenic BDL mg/kg to 3.88 mg/kg
    d. Barium .30 mg/kg to 1220 mg/kg
    e. Cadmium BDL mg/kg to 29 mg/kg
    f. Chromium 24 mg/kg to 48 mg/kg
    g. Lead 5.7 mg/kg to 99 mg/kg
    h. Mercury BDL mg/kg to BDL mg/kg
    i. Selenium BDL mg/kg to 2.08 mg/kg
    j. Silver BDL mg/kg to 3.7 mg/kg
    k. _____ _____ mg/kg to _____ mg/kg
    l. _____ _____ mg/kg to _____ mg/kg

Comments: _____

William L. Martin
Signature

12/18/96
Date

Rinker materials corporation						
Untreated Soil Levels August 1996						
VOA	TRPH		*VOA*		*TRPH*	
1924	1747					
4280	19500		Mean	15167.96	Mean	5375.642
0.1	0.79		Standard Error	12810.47	Standard Error	2363.643
8.1	17		Median	0.1	Median	184.2
328	80000		Mode	0.1	Mode	25
0.1	35		Standard Deviation	94137.32	Standard Deviation	17369.16
1.6	136		Sample Variance	8.86E+09	Sample Variance	3.02E+08
0.1	283		Kurtosis	52.62727	Kurtosis	20.73653
10270	7959		Skewness	7.218896	Skewness	4.498407
7728	4998		Range	689999.9	Range	97399.21
0.1	26.5		Minimum	0.1	Minimum	0.79
0.1	68.2		Maximum	690000	Maximum	97400
0.1	59.6		Sum	819069.8	Sum	290284.7
0.1	25		Count	54	Count	54
1370	110		Confidence Level(95.	25108.02	Confidence Level(95.	4632.649
143	180					
0.1	156					
0.1	1410					
0.1	28					
0.1	25					
0.1	785					
73700	39.7					
0.1	25					
9350	720					
2245	620					
0.1	18400					
690000	1200					
142	42.1					
0.1	8105					
0.1	638					
0.1	25					
0.1	1					
600.3	97400					
0.1	230					
0.1	227					
0.1	25					
0.1	1					
0.1	230					
0.1	26000					
0.1	230					
0.1	38.6					
0.1	1480					
13.65	184.2					
0.1	1000					
0.1	28					
0.1	2236.5					
0.1	1822					
3	11					

0.1	9507					
16946	49.3					
13.65	184.2					
0.1	1883					
0.1	34					
0.1	119					

Rinker materials corporation						
Ttreated Soil Levels June-September 1996						
VOA	TRPH		*VOA*		*TRPH*	
0.1	1					
0.1	17		Mean	0.1	Mean	10.14583
0.1	26		Standard Error	0	Standard Error	3.195258
0.1	1		Median	0.1	Median	1
0.1	10		Mode	0.1	Mode	1
0.1	5		Standard Deviation	0	Standard Deviation	15.6535
0.1	1		Sample Variance	0	Sample Variance	245.0322
0.1	5		Kurtosis	-2.19048	Kurtosis	1.034913
0.1	1		Skewness	-1.06794	Skewness	1.577002
0.1	1		Range	0	Range	44
0.1	30		Minimum	0.1	Minimum	1
0.1	45		Maximum	0.1	Maximum	45
0.1	45		Sum	2.4	Sum	243.5
0.1	1		Count	24	Count	24
0.1	1		Confidence Level(95.	#NUM!	Confidence Level(95.	6.262581
0.1	1.5					
0.1	1					
0.1	1					
0.1	45					
0.1	1					
0.1	1					
0.1	1					
0.1	1					
0.1	1					

CRB
453-96005

Client #: FTL-93-120114
Address: CRB Geological & Environmental Svc
2600 Douglas Road
Suite 602
Coral Gables,, FL 33134
Attn: Doug Lowell

Page: Page 1 of 1
Date: 08/06/96
Log #: L8956-1

Sample Description:

N-Tank Contents
161-04

Label: N-Tank
Date Sampled: 07/22/96
Time Sampled: 00:00
Date Received: 08/01/96
Collected By: Client

Parameter	Results	Units	Method	Reportable Detect Limit	Extr. Date	Analysis Date	Analyst
[redacted]							
Lead	0.39	mg/l	1311/6010	0.10	08/02/96	08/05/96	PVP

BDL = Below Detection Limits
* Compounds are Screened Only, with an estimated detection limit.
All analyses were performed using EPA, ASTM, USGS, or Standard Methods.
All analyses were performed within EPA holding times unless otherwise noted.

QA/QC 9601709
[illegible]
SC CERT# 96031
TX CERT# 97005
FLORIDA 12471
VA CERT# 00106
NH CERT# E-97449
MD CERT# 276

EPA# FL01210,96354
NELAP# E87936
NC CERT# 444
CT CERT# PH-0122
CA CERT# 1-1060
AZ CERT# AZ0597
USACE CMAC

Respectfully submitted,

Marino Fernandez
Laboratory Director

L8956-1

Florida Depart[illegible] of Environmental Regulation
Soil T[illegible]tment Facility
Treated [illegible]eporting Form

Name of Facility: Rinker Material
Air Permit No.: ____________
Soil Treatment Permit No.: ____________
Stationary:_____ or Mobile Facility: ________

Month: ____ Year: 1996

1	2	3	4	5	6								7								8	9	10	11
Day of Mo.	Soil Batch ID#	Sample Number	Length of Run, Hours	Amount, Volume or Weight cy/tn	Analytical Results																			
					Total Metals								TCLP Metals								Totals			
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
8/31 9-8		42	168		3.88	1145	28	45	58.5	BDL	1.94	3.7	BDL	17	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9-6 9-13		42	168		3.49	1110	29	48	59	BDL	208	3.45	BDL	16	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9-14 9-20		42	168		3.48	1120	29	46	99	BDL	1.4	3.6	BDL	13	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
9-20 9-27		42	168		2.51	1220	28	39	79	BDL	BDL	3.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		

2.51 1120 28 39 58.5 BDL BDL 5.25 BDL
3.88 1220 29 49 99 208 3.7

BDL BDL

DER Form 17-775.900(3)

See reverse side for instructions

Florida Department of Environmental Regulation
Soil Treatment Facility
Treated Reporting Form

Name of Facility: Rinker Materials Corp
Air Permit No.: _____
Soil Treatment Permit No.: _____
Stationary: X or Mobile Facility: _____

Month: ____ Year: 1996

1	2	3	4	5	6								7								8	9	10	11
Day of Mo.	Soil Batch ID#	Sample Number	Length of Run, Hours	Amount, Volume or Weight cy/tn	Analytical Results																Totals			
					Total Metals								TCLP Metals											
					As	Ba	Cd	Cr	Pb	Hg	Se	Ag	As	Ba	Cd	Cr	Pb	Hg	Se	Ag	VOA	RPH	PAH	VOH
4-15 4-21		42	168		1.8	120	BDL	40	27	BDL	BDL	BDL	BDL	1.4	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
4-21 4-28		42	168		2.0	130	BDL	47	24	BDL	BDL	BDL	BDL	.54	BDL	BDL	BDL	BDL	BDL	BDL	BDL	17	BDL	BDL
4-30 5-5		42	168		1.6	110	BDL	29	9.4	BDL	BDL	BDL	BDL	.42	BDL	BDL	BDL	BDL	BDL	BDL	BDL	26	BDL	BDL
5-6 5-12		42	168		2.4	160	BDL	25	4.6	BDL	BDL	BDL	BDL	.33	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
5-13 5-19		42	168		3.1	130	BDL	29	7.9	BDL	BDL	BDL	BDL	.96	BDL	BDL	BDL	BDL	BDL	BDL	BDL	[illegible]	BDL	BDL
5-20 5-26		42	168		1.8	180	BDL	28	7.3	BDL	BDL	BDL	BDL	2.8	BDL	BDL	BDL	BDL	BDL	BDL	BDL	5		
5-27 6-2		42	168		1.5	170	BDL	40	5.8	BDL	BDL	BDL	BDL	3.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6-4 6-10		42	168		1.1	170	BDL	29	7.4	BDL	BDL	BDL	BDL	3.2	BDL	.12	BDL	BDL	BDL	BDL	BDL	5		
6-10 6-15		42	168		BDL	130	BDL	24	5.7	BDL	BDL	BDL	BDL	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6-16 6-23		42	168		BDL	150	BDL	28	7.8	BDL	BDL	BDL	BDL	3.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
6-24 7-1		42	168		BDL	180	BDL	34	58	BDL	BDL	BDL	BDL	2.1	BDL	.16	BDL	BDL	BDL	BDL	BDL	30	BDL	BDL
7-2 7-8		42	168		BDL	220	BDL	38	9.1	BDL	BDL	BDL	BDL	1.2	BDL	.13	BDL	BDL	BDL	BDL	BDL	45	BDL	BDL
7-8 7-14		42	168		BDL	160	BDL	25	7.9	BDL	BDL	BDL	BDL	.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	45	BDL	BDL
7-15 7-21		42	168		1.1	200	BDL	34	7.0	BDL	BDL	BDL	BDL	1.1	BDL	.21	BDL	BDL	BDL	BDL	BDL	BDL		
7-22 7-28		42	168		BDL	170	BDL	27	7.1	BDL	BDL	BDL	BDL	2.2	BDL	.15	BDL	BDL	BDL	BDL	BDL	BDL		
7-27 8-4		42	168		BDL	190	BDL	37	8.3	BDL	BDL	BDL	BDL	2.6	BDL	.13	BDL	BDL	BDL	BDL	BDL	1.5		
8-5 8-11		42	168		[illegible]	380	BDL	46	11	BDL	BDL	BDL	BDL	2.0	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
8-12 8-16		42	168		BDL	190	BDL	36	9.1	BDL	BDL	BDL	BDL	1.9	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL		
8-16 8-25		42	168		BDL	200	BDL	41	14	BDL	BDL	BDL	BDL	2.9	BDL	15	BDL	BDL	BDL	BDL	BDL	45	BDL	BDL
8-26 9-1		42	168		BDL	180	BDL	36	9	BDL	BDL	BDL	BDL	.93	BDL	.16	BDL	BDL	BDL	BDL	BDL	BDL		
					BDL 15 (1.8)	130 380 (220)	N.DL (24)	24 46 (18)	5.7 59 (99)	BDL	BDL (68)	BDL 3.7	BDL									BDL BDL 45		

DER Form 17-775.900(3)

See reverse side for instructions

Florida Department of Environmental Regulation

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

Month: AUGUST Year: 1996

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
Stationar XXX or Mobile Facility:

DER Form # 17-775.900(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 cy/tn	Analytical Results: Metals AS	BA	CD	CR	PB	HG	SE	AG	Totals VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only
*	08/01/96	114-96087	1	1.91	BDL	23.3	2.3	7.25	255	BDL	BDL	BDL	1924	1747	BDL	
	08/01/96	342-96015	1	2.04	BDL	38.8	8.7	20.8	77.1	BDL	BDL	BDL	4280	19500	BDL	
	08/01/96	342-96016	1	0.77	BDL	BDL	BDL	BDL	4.23	BDL	BDL	BDL	BDL	0.79	BDL	
	08/01/96	342-96017	1	1.13	BDL	1.6	BDL	3.4	BDL	BDL	BDL	BDL	8.1	17	BDL	
	08/01/96	342-96018	1	2.43	BDL	4.7	BDL	7.8	2.1	BDL	BDL	BDL	328	80000	BDL	
	08/01/96	661-96001	1	118.31	BDL	9.20	2.2	5.46	2.08	0.06	BDL	BDL	BDL	35.00	BDL	
	08/02/96	203-96038	1	8.07	0.02	6.69	0.32	3.26	26.1	0.04	BDL	BDL	1.6	136	BDL	
	08/02/96	423-96015	1	27.69	BDL	5.13	BDL	4.83	7.67	BDL	BDL	BDL	BDL	283.0	BDL	
	08/03/96	254-96003	1	1.25	BDL	BDL	BDL	BDL	BDL	BDL	BDL	BDL	10270.	7959	BDL	
	08/05/96	370-96002	1	15.88	BDL	1.8	BDL	1.0	9.5	BDL	BDL	BDL	7728	4998	BDL	
	08/06/96	613-96009	1	0.50	0.0271	3.76	0.334	8.12	8.10	0.150	0.0674	0.160	BDL	26.5	BDL	
	08/07/96	203-96039	1	1.33	1.4	5.4	BDL	2.8	1.8	BDL	BDL	BDL	BDL	68.2	BDL	
	08/08/96	423-96016	1	13.79	BDL	7.60	BDL	6.90	18.1	BDL	BDL	BDL	BDL	59.6	BDL	
	08/08/96	577-96004	3	23.84	1.68	0.140	2.71	1.80	<0.233	<0.002	0.233	0.281	BDL	<25	BDL	
	08/08/96	598-96001	1	1.24	BDL	64	BDL	BDL	BDL	BDL	BDL	BDL	1370	110	BDL	
	08/09/96	193-96006	1	3.81	BDL	5.55	BDL	7.77	17.3	BDL	BDL	BDL	143	180	BDL	
	08/09/96	203-96037	1	71.49	BDL	4.44	BDL	2.85	4.60	.159	BDL	BDL	BDL	156.0	BDL	
	08/09/96	342-96014	1	1.30	BDL	84.5	BDL	4.1	246	BDL	BDL	BDL	BDL	1410	BDL	
	08/09/96	561-96003	1	10.18	BDL	1.2	BDL	6.0	4.4	BDL	BDL	BDL	BDL	28	BDL	
	08/09/96	577-96004	3	18.44	1.68	0.140	2.71	1.80	<0.233	<0.002	0.233	0.281	BDL	<25	BDL	
	08/12/96	203-96040	1	0.75	BDL	7.3	BDL	3.8	7.6	BDL	BDL	BDL	BDL	785.0	BDL	
	08/12/96	553-96026	1	0.50	0.285	7.80	0.517	3.64	0.901	0.0338	0.0644	0.0707	73700	39.7	BDL	
	08/12/96	577-96004	3	45.64	1.68	0.140	2.71	1.80	<0.233	<0.002	0.233	0.281	BDL	<25	BDL	
	08/13/96	114-96088	1	4.55	BDL	660	2.5	43	87	0.11	BDL	BDL	9350	720	BDL	
	08/13/96	423-96017	1	42.32	5.3	5.0	BDL	3.0	3.6	BDL	BDL	BDL	2245	620	BDL	
	08/14/96	429-96006	1	12.22	BDL	BDL	BDL	12	77	BDL	BDL	BDL	BDL	18400	BDL	
*	08/14/96	453-96005	1	1.75	BDL	33	BDL	39	730	5.1	BDL	34	690000	1200	BDL	

775.900(2)

BDL BDL BDL BDL BDL BDL BDL BDL BDL BDL 79
5.3 .64 2.71 43 730 5.1 .233 .281 69000 80000

VOA = PPB
RPH = PPM
VOH = PPM

* SEE ATTACHMENT "A"

Florida Department of Environmental Regulation

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

Month: AUGUST Year: 1996

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**
Stationar **XXX** or Mobile Facility:

DER Form # **17-775.900(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 cy/tn	Analytical Results											
				Metals								Totals			Indicate Other Analyses Attach Lab Results Only
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	
08/14/96	464-96003	1	1.00	BDL	6.8	BDL	1.3	1.5	BDL	BDL	BDL	142	42.1	BDL	
08/15/96	104-96010	1	0.71	BDL	51	16	1	BDL	0.4	BDL	BDL	BDL	8105	BDL	
08/15/96	269-96003	1	14.01	<0.22	<4.31	<2.15	<2.15	<2.15	<0.11	<0.22	<2.15	BDL	638	BDL	
08/19/96	577-96004	3	138.31	1.68	0.140	2.71	1.80	<0.233	<0.002	0.233	0.281	BDL	<25	BDL	
08/20/96	114-96089	1	19.13	3.9	810	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	
* 08/20/96	423-96018	1	0.60	BDL	64.0	0.764	46.9	208	0.03	BDL	BDL	600.30	97400	BDL	
08/20/96	426-96004	1	92.33	1.5	650	BDL	6.0	8.3	BDL	BDL	BDL	BDL	230	BDL	
08/20/96	475-96005	1	2.80	.141	2.92	.247	2.32	8.57	.0296	.102	.148	BDL	227	BDL	
08/20/96	577-96004	3	37.98	1.68	0.140	2.71	1.80	<0.233	<0.002	0.233	0.281	BDL	<25	BDL	
08/21/96	114-96089	1	16.25	3.9	810	BDL	BDL	11	BDL	BDL	BDL	BDL	BDL	BDL	
08/21/96	426-96004	1	22.52	1.5	650	BDL	6.0	8.3	BDL	BDL	BDL	BDL	230	BDL	
08/21/96	429-96007	1	10.83	BDL	BDL	BDL	7.0	9.0	BDL	BDL	BDL	BDL	26000	BDL	
08/22/96	426-96004	1	48.14	1.5	650	BDL	6.0	8.3	BDL	BDL	BDL	BDL	230	BDL	
08/22/96	454-96006	1	1.25	<0.9	93	<0.9	13.8	13	0.04	<0.9	<0.9	BDL	38.6	BDL	
08/23/96	653-96002	3	205.06	BDL	4.10	BDL	2.00	76.8	.021	BDL	BDL	BDL	1480	BDL	
08/27/96	140-96009	3	395.69	2.73	4.10	0.16	9.93	6.83	BDL	<.0020	0.06	13.65	184.2	.02238	
08/27/96	662-96001	1	35.82	<10	7.8	<0.50	6.0	<5.0	.035	<10	<10	BDL	1000	BDL	
[illegible]/28/96	114-96091	1	8.93	BDL	5.8	BDL	2.3	5.7	BDL	BDL	BDL	BDL	28	BDL	
* 08/28/96	293-96018	6	41.43	BDL	52.67	3.88	16.20	153.17	0.01	BDL	BDL	BDL	2236.5	BDL	
08/29/96	254-96004	1	0.40	BDL	4.60	BDL	3.20	17	BDL	BDL	BDL	BDL	1822	BDL	
08/29/96	365-96008	1	0.25	1.4	17.9	1.21	6.45	41.2	.002	0.23	0.09	3.0	11.0	BDL	
08/29/96	370-96003	1	0.56	BDL	1.66	BDL	5.60	2.78	BDL	BDL	BDL	BDL	9507	BDL	
08/29/96	553-96027	1	0.25	.702	4.01	.372	4.30	3.95	0.153	<.0020	<.0500	16946	49.3	BDL	
08/30/96	140-96009	3	242.76	2.73	4.10	0.16	9.93	6.83	BDL	<.0020	0.06	13.65	184.2	.02238	
08/30/96	180-96003	1	65.77	1.3	7.4	BDL	2.4	5.0	BDL	BDL	BDL	BDL	1883	BDL	
08/30/96	342-96019	1	0.42	1.0	20	2.0	3.0	15	0.15	80	2.0	BDL	34	BDL	
08/30/96	342-96020	1	0.25	BDL	10.6	1.06	13.1	51.8	BDL	BDL	BDL	BDL	119	BDL	
	775.900(2)			BDL 2.73	650	16	46.9	153	.153	.233	2.0	16946	97400		

* SEE ATTACHMENT "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'

Month August Year 1996

Metals Blending Report

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		Source
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
08/01/96	114-96087													
Untreated	analysis			BDL	23.3	2.3	7.25	255	BDL	BDL	BDL	----------	----------	Blended 3 -1
Blending	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
Blended	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
8/9/96	342-96014													
Untreated	Analysis			BDL	84.5	BDL	4.1	246	BDL	BDL	BDL	----------	----------	Blended 3 - 1
Blending	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
Blended	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
[redacted]/96	453-96005													
Untreated	Analysis			BDL	33	BDL	39	730	5.1	BDL	34	----------	----------	Blended 7 - 1
Blending	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
Blended	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
8/20/96	423-96018													
Untreated	Analysis			BDL	64.0	0.764	46.9	208	0.03	BDL	BDL	----------	----------	Blended 2 -1
Blending	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
Blended	Soil			----------	----------	----------	----------	56	----------	----------	----------			
8/28/96	293-96018													
Untreated	Analysis			BDL	52.67	3.88	16.20	153.17	0.01	BDL	BDL	----------	----------	Blended 2 - 1
Blending	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			
Blended	Soil			----------	----------	----------	----------	BDL	----------	----------	----------			

RINKER MATERIALS SUBSTITUTION

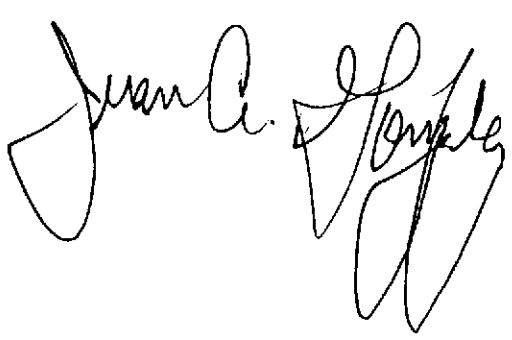
Materials Analysis Report

REPORT DATE	9/12/96
SAMPLE DATE	8/1/96
SAMPLE SOURCE	RESOURCE RECOVERY
REFERENCE #	114-96087
R.E.S. NUMBER	4015-4016
SAMPLE TYPE	SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS
LEAD	BDL	BDL	BDL	mg/kg	7420	10

BLEND = 3 Contaminated With 1 CLEAN

BDL = Below detection limit



RINKER MATERIALS SUBSTITUTIO

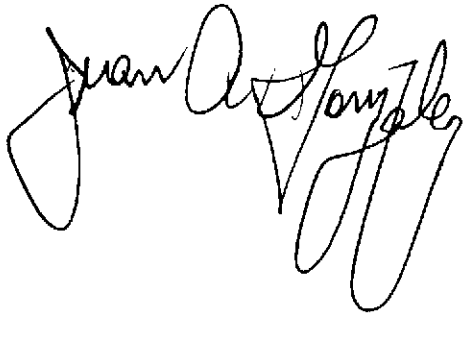
Materials Analysis Report

REPORT DATE	9/12/96
SAMPLE DATE	8/9/96
SAMPLE SOURCE	RESOURCE RECOVERY
REFERENCE #	342-96014
R.E.S. NUMBER	4017-4018
SAMPLE TYPE	SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS
LEAD	BDL	BDL	BDL	mg/kg	7420	10

BLEND = 3 Contaminated With 1 CLEAN

BDL = Below detection limit



RINKER MATERIALS SUBSTITUTION

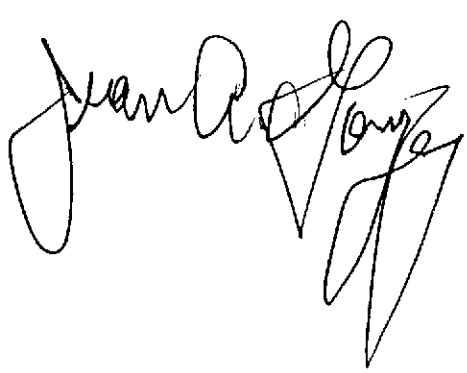
Materials Analysis Report

REPORT DATE	9/12/96
SAMPLE DATE	8/14/96
SAMPLE SOURCE	RESOURCE RECOVERY
REFERENCE #	453-96005
R.E.S. NUMBER	4021-4022
SAMPLE TYPE	SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS
LEAD	29	BDL	BDL	mg/kg	7420	10

BLEND = 7 Contaminated With 1 CLEAN

BDL = Below detection limit



R[redacted]KER MATERIALS SUBSTITUTIO[redacted]

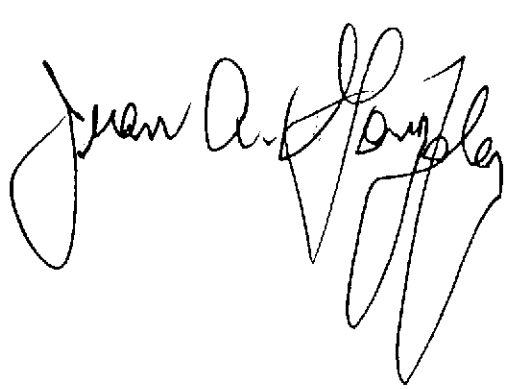
Materials Analysis Report

REPORT DATE	9/12/96
SAMPLE DATE	8/20/96
SAMPLE SOURCE	RESOURCE RECOVERY
REFERENCE #	423-96018
R.E.S. NUMBER	4011-4012
SAMPLE TYPE	SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS
LEAD	BDL	BDL	BDL	mg/kg	7420	10

BLEND = 2 Contaminated With 1 CLEAN

BDL = Below detection limit



R[redacted]KER MATERIALS SUBSTITUTIO[redacted]

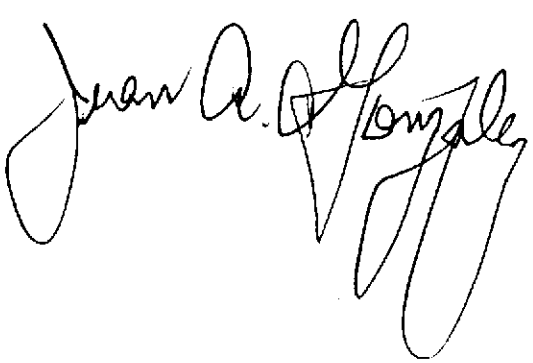
Materials Analysis Report

REPORT DATE	9/12/96
SAMPLE DATE	8/28/96
SAMPLE SOURCE	RESOURCE RECOVERY
REFERENCE #	293-96018
R.E.S. NUMBER	4013-4014
SAMPLE TYPE	SOIL

PARAMETER	RESULTS CONTAMINATED	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS
LEAD	12	BDL	BDL	mg/kg	7420	10

BLEND = 2 Contaminated With 1 CLEAN

BDL = Below detection limit



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 1996

RAW MATERIAL RECEIVED

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		Source
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
8/1/96	Thur	8/31/96		No	Activity	Received								