



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

JUL 3 1997

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 June 20, 1997. Repairs to the secondary containment for the leachate collection tank have been completed. 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



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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 6/20/97 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. ☒ 62-775, F.A.C.

7. RESPONSIBLE OFFICIAL: (Name and Title)

James Jenkins, Vice President

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

 William Lee Martin, 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), 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 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.

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 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 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. 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 secondary containment structure around the leachate tank had been repaired.

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. Additionally, spent oil filters are drummed at the soil storage facility and processed for recycling to Cliff Berry, Inc (see 5/27/97 manifest).

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 April 1997 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. The reporting forms for untreated PCB contaminated soils were 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.

From Mar 97 insp. Now all filters sent to Cliff Berry
Wm 6/20/97

**NON-HAZARDOUS
WASTE MANIFEST**

1. Generator's US EPA ID No.

Manifest
10962

2. Page 1
of

3. Generator's Name and Mailing Address
RINKER MATERIALS CORP.
1200 NW 137 AVE
MIAMI, FL 33142

4. Generator's Phone (305) 225-1423

5. Transporter 1 Company Name
CLIFF BERRY, INC.

6. US EPA ID Number
FL0000831156

A. Transporter's Phone
(954) 763-3390

7. Transporter 2 Company Name

8. US EPA ID Number

B. Transporter's Phone

9. Designated Facility Name and Site Address
CLIFF BERRY, INC.
3033 N.W. N. RIVER DRIVE
MIAMI, FL 33142

10. US EPA ID Number

FL0058560699

C. Facility's Phone
(305) 638-2030

11. Waste Shipping Name and Description

12. Containers
No. Type

13. Total
Quantity

14. Unit
Wt/Vol

a. Spent Petroleum Oil Filters, (CONTAINS Filters
and Petroleum Oil)

006DR

G

b.

c.

d.

D. Additional Descriptions for Materials Listed Above
A: Used Oil Filters

E. Handling Codes for Wastes Listed Above

15. Special Handling Instructions and Additional Information

A: Generator's sign in using place

16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.

Printed/Typed Name
A J ETE

Signature

Month Day Year
5 2 97

17. Transporter 1 Acknowledgement of Receipt of Materials

Printed/Typed Name
James L. McClinton

Signature

Month Day Year
5 2 97

18. Transporter 2 Acknowledgement of Receipt of Materials

Printed/Typed Name

Signature

Month Day Year

19. Discrepancy Indication Space

20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 19

Printed/Typed Name
A J ETE

Signature

Month Day Year
5 12 97

GENERATOR'S COPY

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. SO 13-290034 Date of Inspection 6/20/97
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 04/01/97 end date 04/28/97
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 01/20/97 end date 6/1/97

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 49751 mg/kg, median 154 mg/kg
 - VOA BDL mg/kg to 31520 mg/kg, median 1 mg/kg
 - Arsenic BDL mg/kg to 12 mg/kg
 - Barium BDL mg/kg to 1060 mg/kg
 - Cadmium BDL mg/kg to 14.7 mg/kg
 - Chromium 0.8 mg/kg to 53.17 mg/kg
 - Lead BDL mg/kg to 530 mg/kg
 - Mercury BDL mg/kg to 0.23 mg/kg
 - Selenium BDL mg/kg to 3.4 mg/kg
 - Silver BDL mg/kg to <2.5 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 BDL mg/kg to 6.1 mg/kg
 - Barium 69 mg/kg to 2690 mg/kg
 - Cadmium BDL mg/kg to 3.5 mg/kg
 - Chromium 23.1 mg/kg to 91.5 mg/kg
 - Lead 4.9 mg/kg to 43 mg/kg
 - Mercury BDL mg/kg to BDL mg/kg
 - Selenium BDL mg/kg to 3.4 mg/kg
 - Silver BDL mg/kg to 7.8 mg/kg
 - _____ mg/kg to _____ mg/kg
 - i. _____ mg/kg to _____ mg/kg

Comments: REPAIRS TO SECONDARY CONTAINMENT
AND SE WELL PAD COMPLETED

William L. Martin
Signature

6/30/97
Date



Department of Environmental Protection

Lawton Chiles
Governor

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

ENFORCEMENT TRACKING	
DRAFT _____	
Initial	Date
gms	6/1/97
PAW	7/13/97

Virginia B. Wetherell
Secretary

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

Dear Mr. Jenkins,

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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

From Mar 97 insp. Now all filters sent to Cliff Berry
Wm 6/20/97

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.	Manifest No. 10962	2. Page 1 of	
3. Generator's Name and Mailing Address RINKER MATERIALS CORP. 1200 NW 137 AVE MIAMI, FL 33142		#972			
4. Generator's Phone (305) 225-1423					
5. Transporter 1 Company Name CLIFF BERRY, INC.		6. US EPA ID Number FLD0000831156		A. Transporter's Phone (954) 763-3390	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter's Phone	
9. Designated Facility Name and Site Address CLIFF BERRY, INC. 3033 N.W. N. RIVER DRIVE MIAMI, FL 33142		10. US EPA ID Number FLD058560699		C. Facility's Phone (305) 638-2030	
11. Waste Shipping Name and Description		12. Containers No.	Type	13. Total Quantity	14. Unit Wt/Vol
a. Spent Petroleum Oil Filters, (CONTAINS Filters and Petroleum Oil)			DOUBLE DR		G
b.					
c.					
d.					
D. Additional Descriptions for Materials Listed Above A: Used Oil Filters		E. Handling Codes for Wastes Listed Above			
15. Special Handling Instructions and Additional Information A: Generator sign in wing place					
16. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not subject to federal regulations for reporting proper disposal of Hazardous Waste.					
Printed/Typed Name A J ETE		Signature <i>[Signature]</i>		Month Day Year 15 12 97	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name James L. McClendon		Signature <i>[Signature]</i>		Month Day Year 5 2 97	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name		Signature		Month Day Year	
19. Discrepancy Indication Space					
20. Facility Owner or Operator: Certification of receipt of waste materials covered by this manifest except as noted in Item 16					
Printed/Typed Name A J ETE		Signature <i>[Signature]</i>		Month Day Year 15 12 97	

GENERATOR'S COPY

Rinker Materials June 1997 Inspection April 1997 data					
VOA	TRPH				
540	16000		VOA		TRPH
1	47				
1	154	Mean	1127.523	Mean	3505.577
12	1670	Standard Error	824.4138	Standard Error	1497.191
1	7	Median	1	Median	154
35.58	140.17	Mode	1	Mode	154
1	154	Standard Deviation	5214.05	Standard Deviation	9469.065
1	4.83	Sample Variance	27186322	Sample Variance	89663198
42.33	1	Kurtosis	31.61793	Kurtosis	14.78507
1	856.67	Skewness	5.500879	Skewness	3.627688
1	154	Range	31519	Range	49750
1	22.83	Minimum	1	Minimum	1
1	856.67	Maximum	31520	Maximum	49751
1	45	Sum	45100.91	Sum	140223.1
1	154	Count	40	Count	40
1	232	Confidence Level(95.0	1615.819	Confidence Level(95.0	2934.435
1	220				
1	1				
1	1706				
1	1706				
1	1				
1	11.2				
1	280				
1	1				
1	286				
379	20102				
10660	1550				
1	116				
31520	21574				
1	87.7				
1880	843				
1	19300				
1	38				
1	38				
1	1071				
1	49751				
1	19				
1	511				
1	19				
1	492				

Florida Department of Environmental Regulation
Soil In situ Treatment Facility
Treated Soil Reporting Form

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

Month: _____ Year: _____

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Day of Ho.	Soil Batch ID#	Sample Number	Length of Run, Hours	Amount, Volume or Weight cy/tn																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
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1-27		42	16.8		3.0	928	3.2	55	11.4	0.0	0.0	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Florida Department of Environmental Regulation

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

Month: APRIL Year: 1997

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)
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	Analytical Results					Indicate Other Analyses						
				Metals					Totals		Attach Lab Results Only				
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	
				cy/tn	BDL	BDL	27	81	BDL	BDL	BDL	540	16000	BDL	
	04/01/97	114-97045	1	4.67	BDL	150	BDL	81	BDL	BDL	BDL	BDL	540	16000	BDL
	04/01/97	203-97010	3	231.87	0.54	8.33	0.05	5.85	57.34	<.0010	<.0003	BDL	BDL	47	BDL
*	04/01/97	293-97010	31	69.22	10.85	52.16	0.08	50.43	78	0.23	3.15	BDL	BDL	154	BDL
*	04/01/97	429-97004	1	13.21	BDL	8.6	0.74	12.0	36	BDL	BDL	BDL	BDL	12	BDL
	04/01/97	553-97004	3	81.70	BDL	2.82	BDL	13.8	2.92	BDL	BDL	BDL	BDL	7.0	BDL
	04/02/97	223-97005	6	5.21	<10	2.27	<0.50	3.20	<5.0	<0.030	<10	<1.0	35.58	140.17	BDL
*	04/02/97	293-97010	31	471.00	10.85	52.16	0.08	50.43	78	0.23	3.15	BDL	BDL	154	BDL
*	04/02/97	322-97002	3	16.79	BDL	4.86	BDL	2.73	13.75	BDL	BDL	BDL	BDL	4.83	BDL
	04/02/97	546-97001	3	212.98	0.67	3.08	0.25	3.71	3.34	BDL	0.51	BDL	42.33	BDL	.001
	04/02/97	664-97002	3	177.36	0.26	<12	<1.2	<5.0	<5.0	<0.0050	<0.10	<2.5	BDL	856.67	BDL
*	04/03/97	293-97010	31	288.25	10.85	52.16	0.08	50.43	78	0.23	3.15	BDL	BDL	154	BDL
	04/03/97	437-97005	1	23.57	BDL	3.4	BDL	3.1	BDL	BDL	BDL	BDL	BDL	22.83	BDL
	04/03/97	664-97002	3	130.07	0.26	<12	<1.2	<5.0	<5.0	<0.0050	<0.10	<2.5	BDL	856.67	BDL
	04/04/97	203-97009	3	310.45	0.82	5.65	0.02	6.27	3.38	0.03	0.26	0.08	BDL	45	BDL
*	04/04/97	293-97010	31	119.61	10.85	52.16	0.08	50.43	78	0.23	3.15	BDL	BDL	154	BDL
*	04/04/97	613-97003	1	0.50	4.77	9.24	<0.100	5.18	7.21	0.188	<0.0600	0.245	BDL	232	BDL
	04/04/97	698-97001	1	0.75	BDL	1060	2	36.5	22	BDL	BDL	3.0	BDL	220	BDL
	04/05/97	114-97046	1	20.58	4.1	12	BDL	6.8	14	BDL	BDL	BDL	BDL	BDL	BDL
	04/05/97	594-97003	1	18.18	BDL	41	0.5	1.7	1.4	BDL	0.70	BDL	BDL	1706	BDL
	04/07/97	594-97003	1	14.68	BDL	41	0.5	1.7	1.4	BDL	0.70	BDL	BDL	1706	BDL
	04/09/97	203-97011	1	0.75	BDL	3.15	BDL	3.48	3.03	BDL	BDL	BDL	BDL	BDL	BDL
	04/09/97	203-97012	1	0.70	1.95	4.60	BDL	5.40	BDL	BDL	BDL	BDL	BDL	BDL	BDL
	04/09/97	324-97002	1	24.45	<10	8.7	0.72	7.8	31	<0.030	<10	<2.0	BDL	280	BDL
	04/09/97	464-97003	1	0.50	2.32	3.09	BDL	27.2	BDL	BDL	BDL	BDL	BDL	BDL	.00536
	04/09/97	475-97011	1	21.35	<0.400	7.3	5.14	3.41	13.3	<0.0010	<0.500	<0.0500	BDL	286	BDL
*	04/10/97	342-97009	1	0.14	BDL	5.85	BDL	5.78	1.15	BDL	BDL	BDL	379	20102	BDL
	04/11/97	437-97004	1	16.56	7.86	297	14.7	53.17	420	0.176	BDL	BDL	10660	1550	BDL
				775.900(2)											

775.900(2)

* SEE ATTACHMENT "A"
** SEE ATTACHMENT "B"

Soil Thermal Treatment Facility Untreated Soil Reporting Form

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

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

1	2	3	4	5					6	7	8	9			
Day of Mo.	Soil Batch ID#	Sample Number	Amount Volume or Weight	Analytical Results											
				Metals					Totals			Indicate Other Analyses			
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only
04/11/97	697-97001	3	650.87	4.53	5.93	BDL	4.46	3.54	BDL	BDL	BDL	BDL	116	BDL	
04/14/97	114-97044	1	7.00	1.50	16.63	0.50	23.07	8	BDL	0.43	BDL	31520	21574	BDL	
04/15/97	475-97012	1	18.91	<0.400	4.72	0.470	9	<0.0200	<.0010	0.248	1.16	BDL	87.7	BDL	
04/16/97	297-97001	1	36.77	BDL	5.6	BDL	7.25	1.40	BDL	BDL	BDL	1880	843	BDL	
04/23/97	293-97011	1	35.43	12	56	2.1	46	530	BDL	3.4	BDL	BDL	19300	BDL	
04/23/97	554-97001	3	259.75	BDL	5.27	BDL	5.65	3.18	BDL	BDL	BDL	BDL	38	BDL	
04/24/97	554-97001	3	133.43	BDL	5.27	BDL	5.65	3.18	BDL	BDL	BDL	BDL	38	BDL	
04/25/97	344-97003	1	31.20	4.0	5.5	BDL	3.2	26.3	BDL	BDL	BDL	BDL	1071	BDL	
04/25/97	681-97001	1	2.81	3	BDL	BDL	33	105	BDL	BDL	1	BDL	49751	BDL	
04/28/97	165-97001	1	51.23	BDL	1.80	BDL	1.60	3.98	BDL	BDL	BDL	BDL	19	BDL	
04/28/97	701-97001	1	110.27	BDL	BDL	BDL	0.8	21	0.03	BDL	BDL	BDL	511	BDL	
04/29/97	165-97001	1	66.23	BDL	1.80	BDL	1.60	3.98	BDL	BDL	BDL	BDL	19	BDL	
04/29/97	550-97001	1	93.36	BDL	31.53	0.46	7.06	82.8	BDL	BDL	BDL	BDL	492	BDL	

775.900(2)

* SEE ATTACHMENT "A"
* SEE ATTACHMENT "B"

ATTACHMENT "A"

[illegible]

RINKER MATERIALS SUBSTITUTION

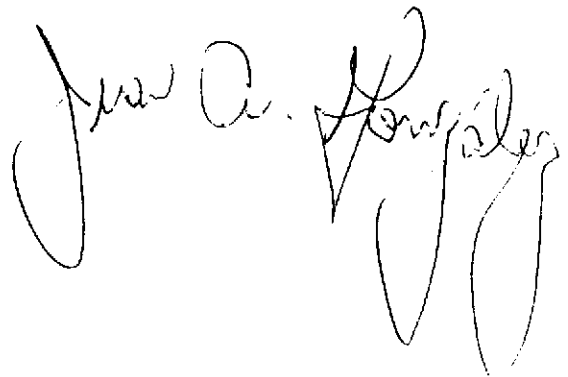
Material Analysis Report

REPORT DATE 4/11/97
SAMPLE DATE 3/11/97
SAMPLE SOURCE FPL - CUTLER PLANT
REFERENCE # 293-97010
R.E.S. NUMBER 6551/6571
SAMPLE TYPE SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	D LIMITS	ANALYSIS DATE	ANALYST INITIAL
ARSENIC	3.0	BDL	3.5	mg/kg	7061	10	4/1, 4/3/97	PEP
CHROMIUM	31.0	BDL	25.2	mg/kg	7190	50	4/1, 4/3/97	PEP

BLEND = 1 Contaminated With 2 CLEAN

BDL = Below detection limit



RINKER MATERIALS SUBSTITUTION

Material Analysis Report

REPORT DATE 5/15/97
SAMPLE DATE 4/11/97
SAMPLE SOURCE PRO SHOP
REFERENCE # 437-97004
R.E.S. NUMBER 6804/6805
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS		ANALYSIS DATE	ANALYST INITIAL
						DET.	REG.		
LEAD	286.0	BDL	62.7	mg/kg	7420	1	100	4/28/97	PEP
CHROMIUM	42.0	BDL	26.3	mg/kg	7190	1	50	4/28/97	PEP

****RESAMPLED

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

RINKER MATERIALS SUBSTITUTION

Material Analysis Report

REPORT DATE 5/15/97
SAMPLE DATE 4/23/97
SAMPLE SOURCE FPL QUAKER OATS
REFERENCE # 293-97011
R.E.S. NUMBER 6900/6901
SAMPLE TYPE CONT. SOIL

PARAMETER	RESULTS CONT.	RESULT CLEAN	RESULT BLEND	UNITS	METHOD	LIMITS		ANALYSIS DATE	ANALYST INITIAL
ARSENIC	1.1	BDL	1.5	mg/kg	7061	1	10	5/9/97	PEP
LEAD	6.6	BDL	32.0	mg/kg	7420	1	100	5/9/97	PEP

****RESAMPLED

BLEND = 1 Contaminated With 5 CLEAN
BDL = Below detection limit

Juan A. Gonzalez