

Department of Environmental Protection

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

David B. Struhs Secretary

FEB 0 8 2001

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 (STTF) Inspection Report documents a routine inspection of your facility at 1200 NW 137th Avenue, Miami, FL, by the Department on January 18, 2001. During this inspection, repairs have been completed in the Northeast corner of the Soil Storage Building eliminating a collection area for oil and water and as noted on the attached inspection report, continued efforts are necessary to develop a plan to resurface the floor in the central section of the soil storage building to eliminate the potential for leaching and repairs to the curb in the Eastern doorway are necessary. Changes in the operation were discussed and need to be incorporated into the existing permits; however, the current General Permit for the STTF expires June 7, 2001, and a new permit issued under 62-713, F.A.C. will be required. No other problems were noted during this inspection.

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

Atch: STTF Inspection dated 1/18/01

cc: Robert Johns, Paul Lasa, MDERM, Miami w/atch

Tom Conrardy, Zoe Kulakowski, DEP/BWC, Tallahassee w/atch MS 4505 Jeff Smith, DEP/WPB w/atch

Don Emery, Mike Vardeman, Rinker Materials, Miami w/atch

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Department of Environmental Protection

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

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SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1.	TYPE INSPECT	FION: COMP	LAINT X	ROUTINE _	FOLLOW-UP	PERMITTING
2.	FACILITY NAT	ME Rinker Portland	Cement Corp.			
	DER/EPA ID	FLD981758485	co	MET SITE ID	69992	
3.	ADDRESS	1200 NW 137th Ave Mailing: P.O. Box 2		each, Fl 33416-4	635	
co	UNTY Dade	PHONE	305- 221-7645	DATE	1/18/01 TIM	ME 1:00 pm
4. ′	TYPE OF FACIL	ITY Thermal Soil T	reatment Facility			
	DESCRIPTION O	OF OPERATION: clude limerock mining a	and contaminated so	il processing to	produce cement.	·
Rin	ker uses kilns fired	by coal, natural gas, or	used oil in product	ion.		
6. 4	APPL. REGULAT	ΓΙΟΝ S : 6	2-2, F.A.C. X	62-775, F.	A.C.	
	RESPONSIBLE C es Jenkins, Vice P	<u>OFFICIAL:</u> (Name and resident	d Title)		<u></u> .	
N	SURVEY PARTIC My Martin, FDEP	CIPANTS AND PRINC	CIPAL INSPECTO	<u>PRS:</u>		
Dor	Emery, Rinker M	aterials				
9.]	FACILITY LATI	TUDE _25 ⁰ 46'57" cor	nf. LONG	EITUDE 80	0°25'20" conf. 8/93	
10.	TYPE OWNERS	SHIP: FEDERAL S	TATE COUNT	Y MUNICII	PAL <u>PRIVATE</u>	
11.	NOTICE NO:	SO13-290034 SO13-300512	DATE ISSUED:	6/28/96 6/4/98		6/7/2001 6/4/2002

Rev 8/18/94

A routine inspection was conducted at the Rinker Portland Cement Corporation's soil thermal treatment facility regulated pursuant to Chapters 62-775, 62-713, and 62-701, Florida Administrative Code (FAC). This facility operates a cement 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 Don Emery, prior to accepting any soil for thermal treatment pursuant to 62-775 and 62-701, 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 petroleum 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) burning tires for fuel, (2) replacing FP&L slag with other power plant ashes such as ash from MSW incinerators, (3) using spent petroleum catalyst as an aluminum source, (4) blending oily sludges with contaminated soils, and (5) treatment of other petroleum contaminated materials.

Rinker has received approval for burning old tires as a fuel and iron supplement. Previously the tires were injected whole, two at a time, through a patented system during each rotation of the kiln, however, the new dry process vertical kiln system recently became operational and it is not clear how the tires might be handled in the future.

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 first accepted coal tar contaminated soils from mid June-mid August 1997 and revised the treated soil reporting form to reflect the coal tar parameters. According to Mr. Emery, during this inspection period Rinker has not treated any coal tar contaminated soils.

Rinker has applied for an alternative procedure to allow processing of certain petroleum related sludges/residues and other soil like materials along with petroleum contaminated soil. This request has been approved under Alternate Procedure No. AP-STTF0036 with certain restrictions.

The afterburner system for the petroleum contaminated soils is in operation, the soils process through a preliminary kiln (stone dryer) with afterburner, then go through the primary, dry process, vertical cement kiln. Preliminary in house analysis of the soils, although not required, indicate the soils meet clean soil criteria for VOC's 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, are weighed, and taken to the Material Screening Building (MSB) for processing. 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 MSB and emptied as time permits and during this inspection all drums observed were located inside the building.

Once emptied the drums are then rinsed at the drum washing area and crushed for salvage. The rinse water is contained on site and processed through Cliff Berry, Inc. and the sediments are returned to the soil storage facility. The MSB 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, one section of this curb in the second doorway from the East is missing and needs replacing. The MSB 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 MSB. 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 MSB had been installed. An additional stem wall has been constructed along the Northeast front wall and since the last inspection the area between the stem wall and the outer wall has been filled with concrete eliminating an area which has collected oil and water in the past. Mr. Emery indicated previously that based on preliminary investigation and construction details of the floor, the cracks and gouges noted in the south central portion of the floor on the previous inspection do not penetrate the full thickness of the slab; however, he is developing a resurfacing plan to prevent any potential for leaching. This will continue to be checked in the future. The four groundwater wells off the corners of the MSB have flush mounted manhole lids with locking watertight caps.

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 MSB. Spent oil filters are drummed and stored separately at the MSB and processed for recycling to Cliff Berry, Inc. A covered dumpster had been located in the Northeast corner of the MSB to allow collection of oily wastes/sludges which are mixed with the fuel oil and burned in the kiln, but was not present during this inspection.

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. Rinker also performs groundwater analyses through their in-house laboratory, under a Department approved Quality Assurance Plan, for their Groundwater Monitoring Plan. A review of records for untreated soil for December 2000 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. Additionally, Rinker has received alternative procedure approval (File No. AP-STTF0051) on January 2000 for routine treatment of soils exceeding the Arsenic cleanup target level in Chapter 62-713, FAC, in the manufacture of cement. Rinker began treating low level PCB contaminated soils in April 1994 and developed a form to track the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. No PCB contaminated soils were received during December 2000. 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 coal tar contaminated soils were processed during this inspection period. A review of treated soil (clinker) forms for Total analyses indicates the results from twelve samples for Arsenic exceed the residential cleanup target level and for TCLP analyses indicates the results from four samples for Barium, eleven samples for Cadmium, three samples for Chromium, and four samples for Lead exceed the respective groundwater standard; however, all this material is stabilized in concrete

rather than disposed of as clean soil. The remainder of the cleanup target level criteria in 62-713, FAC, was not exceeded.

SUMMARY:

The MSB provides for proper handling and storage of petroleum contaminated soils, low level PCB contaminated soils, coal tar contaminated soils, and certain other soil like materials and allows Rinker 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 Facilit	RINKER MATERIALS						
Location 12 .	DO KIW 137TH AVE MIAMIFI						
General Permit	No. <u>SO 13 - 290034</u> Date of Inspection //18/01						
Contact Person DON EMERY							
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 S	SURVEY						
. t.							
see comments.	Does information provided on general permit notice						
	of intent form coincide with actual facility?						
$\frac{\checkmark}{\checkmark}$ $\frac{2}{3}$.	Is soil sampling procedure correct?						
	Are monitoring wells properly installed (proper						
V 4.	number and location)?						
<u> </u>	Are monitor wells being properly sampled and						
√ 5.	analysed for required parameters?						
<u> </u>	Is untreatd soil stockpiled separately from treated soil and properly identified?						
V 6	Is untreated soil adequately covered by roofing?						
SEE COVINNELIST.	Do floors for storage appear to be properly						
700	constructed and in good condition?						
sec comments.	Are floors properly bermed to provide runoff						
700-00	control?						
9.	Is a leachate collection system provided?						
Yes No REPORTING FORMS							
10.	Are untreated soil reporting forms being properly						
	completed? starting date $\frac{12/1/00}{12}$ end date $\frac{12/29/00}{12}$ Are treated soil reporting forms being properly						
11.	Are treated soil reporting forms being properly						
·	completed? starting date $\frac{-\sqrt{31/00}}{12/31/00}$ end date $\frac{12/31/00}{12/31/00}$						

12.	Indicate frequency clean soil criteria is being met?
	a. <u>/00</u> % TRPH - 10 mg/kg, or
	b % TRPH - 50 mg/kg, PAH - 6 mg/kg, and VOH - 50 ug/kg
13.	Indicate ranges and approximate median values of untreated
221	soil analyses for the following parameters.
	a. TRPH BDL mg/kg to 58000 mg/kg, median 836 mg/kg
	b. VOA <u>BDL</u> mg/kg to <u>B8000</u> mg/kg, median/ mg/kg
	c. Arsenic BDL mg/kg to 5.1 mg/kg
	d. Barium BDL mg/kg to 1334 mg/kg
	e. Cadmium BOL mg/kg to 15 mg/kg
	f. Chromium BDL mg/kg to 38 mg/kg
	g. Lead BDL mg/kg to 532 mg/kg
	h. Mercury BDL mg/kg to .55 mg/kg
g P	
	j. Silver BOL mg/kg to 6.5 mg/kg
14.	Indicate ranges and approximate median values of treated soil
-	analyses for the following parameters.
	a. TRPH <u>BDL</u> mg/kg to <u>BDL</u> mg/kg, median <u>BDL</u> mg/kg
	b. VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg
	c. Arsenic BDL mg/kg to 5./ mg/kg
	d. Barium BDL mg/kg to 3000 mg/kg
	e. Cadmium 2.1 mg/kg to 4 mg/kg
	f. Chromium 40 mg/kg to 84 mg/kg
	g. Lead 2/,5 mg/kg to 52 mg/kg
	h. Mercury BDL mg/kg to 29 mg/kg
	i. Selenium BDL mg/kg to 3.8 mg/kg
	j. Silver <u>BDL</u> mg/kg to <u>6</u> mg/kg
•	k mg/kg to mg/kg
	i mg/kg to mg/kg
Comme	ents: (1) new dry moress hily in line old wet sweezs inox.
dun	m work area wanter nicked un lu (like Born () SE conne
10	Ille the arm between the interior
D	Will in the war out out out out out out out out
<u>vee</u>	n filed in win control as discussed preventy, no repair yet
on	the worn floor area in the center of the bedg. (8) small section of verm
ont	ents: D new dry process bile in line, old wet stocess inop, in wash area wastes picked up by Cliff Berry, D SE corner bldg: the area between the outer wall and inner stem wall has in filled in with concrete as discussed previously, No repairs yet the worn floor area in the center of the bldg. B Small section of bern he East entrance (2nd from South) has been broken out and needs replied
	·
7	Man ZM artin 1/30/01
Signa	Villiam LM artin 1/30/01 Date