

Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Carol M. Browner, Secretary

FEB. 1 8 1992

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. INSPEC	TION REPO	ORTCOM	PLAINT X R	OUTINEFOLL	OW-UP	_PERMITTING
DER/EPA II	ס	FLD 98175848	<u>35</u>			
FACILITY N	NAME	Rinker Material	s Corporation			
ADDRESS		1200 Northwes Mailing: P.O. E	st 137th Aven Box 24635,	ue, Miami, Flori West Palm Beach	ida 3318 1. Florida	<u>2</u> 33416-4635
COUNTY DATE:	Dade 12-27-	91	PHONE TIME:	(305) 221-764 10:00 a.m.	5	
TYPE OF FA	ACILITY:	Thermal Soil Tre	eatment Facili	ty		
Facility Ope cement. Ri	erations incl nker uses k	ude limerock mir ilns fired by coal	ning and conta I, natural gas,	aminated soil produced used oil or slag in	cessing to n producti	produce on.
2. APPLICA	ABLE REGU	LATIONS:	17-2, F.A.	C. <u>X</u> _17-7	775, F.A.C) .
3. RESPON	ISIBLE OFF	ICIAL (Name & T	Fitle): James .	Jenkins, Vice Pre	sident	
		ANTS & PRINCIP		DR:		
		rtin & Cher Petro Mike Vardeman,		ials Corporation		
5. FACILITY	Y LATITUD	E: 25 deg 46'48	3" LONGI	TUDE: 80 deg 2	5'10"	
6. TYPE OF	OWNERS	IIP: Federal	State Cou	nty Municipal	<u>Private</u>	
7. NOTICE	NUMBER:	S013-195017 [04-17-1991 ATE: 04-04-199	96	

RINKER MATERIALS CORPORATION

FLD 981758485

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

BACKGROUND INFORMATION:

Rinker was issued a General Permit (# S013-195017) to operate a soil thermal treatment facility on April 17, 1991 which expires April 4, 1996. The Rinker facility was operating as an existing facility as defined in 17-775.200, F.A.C. prior to the effective date of this rule.

A complete process description is provided in the Rinker permit application, however the process was reviewed while at the inspection, as follows:

According to Dave Marple, prior to accepting any soil for thermal treatment pursuant to the Chapter 17-775, F.A.C., Rinker requires a soil analysis profile. Based upon this profile, and concurrence from the Metro Dade Department of Resources Management (DERM), soils are brought by truck to a temporary soil stockpile facility which consists of a bermed concrete pad covered with a tent. As of November 1, 1991 all materials accepted by Rinker for thermal treatment are required to have approval from DERM in the form of a standardized approval letter. This is required as a condition of the Rinker facility's current Dade County permits. A sample copy of this letter is attached to this inspection report. The temporary facility is located to the southwest of the main Rinker plant. At the time of this inspection the temporary facility is still in use, however, the new soil stockpile building, which is located south of the main Rinker plant, is near completion, and is scheduled to be in operation as of January 15, 1992.

Rinker claims to accept no hazardous wastes as defined in 40 CFR Part 261. Rinker had "protectively filed" a RCRA "Part A" application with the U.S. Environmental Protection Agency for handling TC wastes and virtually all waste codes listed in 40 CFR Part 261 to meet a RCRA deadline, however, the application was withdrawn on October 24, 1991since Rinker has not and does not plan to handle TC or hazardous wastes.

TEMPORARY SOIL STOCKPILE STORAGE FACILITY:

Incoming soils to be thermally treated by Rinker arrive by independent contractors via dump trucks to a concrete pad. Rinker does not handle drums or containers, therefore in the event a contractor delivers contaminated soils in drums or containers, the contractor is required to remove the drums or containers from the facility. According to Mike Vardeman of Rinker, the workers at the temporary storage facility that sort and screen incoming contaminated soils are not employees of Rinker, but are independent contractors.

The temporary facility appears to be managed and maintained more efficiently than was observed during the August inspection. Mike Vardeman stated that there is a new foreman at the temporary facility, who is providing better management of the facility operation and maintenance. The canvas/vinyl overhang which was in use during the August 1991 inspection has been replaced with a custom designed canvas/vinyl tent which is larger, appears more sturdy, and is providing more sufficient protection for the concrete pad area. The facility was approximately half filled with soils at the time of this inspection.

RINKER MATERIALS PAGE 2

The 12 inch thick reinforced concrete pad (100' by 100') appears to meet the requirement of 17-775.620(2)(b), F.A.C.. The berm around the pad has been reinforced and constructed across the front of the pad, which is providing more effective control of runoff than the previously constructed berm observed during the August inspection. The facility was dry, no standing water was present, and no evidence of leachate or runoff was observed. Any leachate or runoff which may be generated from the soils collects at the front of the concrete pad. The leachate is then suction pumped by Cliff Berry and transported to the onsite "slop" oil storage tank.

The four groundwater monitoring wells located at the four corners of the concrete pad have been raised and are protected by a solid concrete block. During the August inspection the wells were below grade and had been covered by standing water due to a recent heavy rainstorm. Raising the well casings to above grade has now eliminated this problem.

Plastic and metal debris are separated from the contaminated soils prior to the soils being placed "in process" in the large sand bins within the plant. The separated debris is placed in a dumpster for transport to the county landfill. Rinker utilizes the contaminated sand as needed in the manufacture of cement. According to Rinker personnel the contaminated soils do not normally accumulate overnight on the concrete slab.

After the permanent soil stockpile facility is in operation, the abandonment of the monitoring wells at the temporary soil stockpile facility will require approval from DERM and DER. Rinker officials are aware that quarterly monitoring will be required to continue until abandonment is approved. DER is recommending that Rinker officials submit a plan to the Department proposing a sampling and assessment plan for the temporary soil stockpile facility to ensure that the area in the vicinity of the temporary facility is free from contamination prior to abandonment, including areas outside of the concrete pad where the collection of stormwater has been observed in previous inspections.

PROPOSED FACILITY:

At the time of this inspection the permanent soil stockpile storage building is nearly completed, and is scheduled to begin operation January 15, 1992. The building is located south of the main Rinker plant. The floor measures approximately 100 ' by 300', is 12" thick in the center and 8' thick at the footers, and has an 18" slope from the northwest corner to the southeast corner where the leachate collection sump is located. There are concrete walls on three sides of the building. The north side of the building has 20' and 30' bay entrances for the trucks. At the time of this inspection the roof and siding were not completed. The building is located further east than originally proposed, therefore several of the existing monitoring wells will not be utilized, and new compliance wells are scheduled to be installed before the facility is in use. The area is planned for landscaping following completion of all construction work.

RECORDKEEPING:

Rinker has received a Department alternative procedure approval (File No. AP-STTF001) for the testing of contaminated soils. Rinker relies solely on the test results supplied by other labs, however, Rinker requires acknowledgement of a Quality Assurance Project Plan from labs supplying the data. Rinker performs spot checks of some samples. When requested, Rinker provides a "Burn Certificate" to facilities supplying contaminated soils to the facility.

RINKER MATERIALS PAGE 3

Random review of records over the past several months indicated no obvious inconsistencies. The clean soil criteria of 77 mg/kg for total lead as set forth in Chapter 17-775.400 F.A.C. was exceeded on October 2 and October 4, 1991 for two batches of untreated soils. According to Dave Marple, these two soil batches were blended with other contaminated soils before being utilized in the manufacturing processes. All other untreated soils and all treated soils met the clean soil criteria as set forth in Chapter 17-775.400 F.A.C.

Dave Marple indicated that there have been some problems with matrix interferences which has resulted in inaccurately high data values for selenium in the untreated soils in past analysis. These interferences have been addressed by the analytical lab and there no longer appears to be a problem with the analysis for selenium.

SUMMARY:

Improvements have been made to the temporary soil stockpile storage facility since the August inspection, and the facility appears to be more efficiently managed and maintained. The permanent soil stockpile storage facility is near completion and is scheduled to begin operation January 15, 1992. According to the facility records, the facility appears to be in compliance with all permit conditions and Chapter 17-775 F.A.C. regulations.

EXHIBIT E

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

Name of Facili	ty RINKER MATERIALS
Location 120	O NW 137th AVE MIAMI DADE FL 3318Z
	No. <u>SO 13-195017</u> Date of Inspection 12/27/91
Contact Person	MIKE VARDEMAN/DAVE MARPLE
	ing Report LEE MARTIN
10100 00	211g Report
Instructions	Complete the appropriate and a few and the distance
	Complete the appropriate spaces for each item listed
	omments space to provide additional information for
each item. Ad	ditional paper may be used if necessary.
Yes No SITE	SURVEY
<u> </u>	Does information provided on general permit notice
	of intent form coincide with actual facility?
<u> </u>	Is soil sampling procedure correct? Alternate procedure approve
<u> </u>	Are monitoring wells properly installed (proper
	number and location)?
4.	Are monitor wells being properly sampled and
	analysed for required parameters?
<u> </u>	Is untreatd soil stockpiled separately from treated
<u> </u>	
V c	soil and properly identified?
<u>+</u> 6.	Is untreated soil adequately covered by roofing?
	Do floors for storage appear to be properly
•	constructed and in good condition?
<u>*</u> 8.	Are floors properly bermed to provide runoff
	control?
<u>*</u> 9.	Is a leachate collection system provided?
V T. 11. 11.	any facility in use until construction of new facility letted in Jan 1992
x = 10m/00	an focused in the construction of hear faction
comp	kiled in Jan 1992
	TING FORMS
<u> </u>	
10.	Are untreated soil reporting forms being properly
1- 22	completed? starting date 8/23/91 end date 11/21/91
<u>/</u> 11.	Are treated soil reporting forms being properly
	completed? starting date 8/5/9/ end date 12/1/9/

12.	Indicate frequency clean soil criteria is being met? TREATER a. <u>59</u> % TRPH - 10 mg/kg, or b. <u>41</u> % 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. a. TRPH <u>BDL</u> mg/kg to <u>111000</u> mg/kg, median <u>3347</u> mg/kg b. VOA <u>BDL</u> mg/kg to <u>222/80 mg</u> /kg, median <u>6718</u> mg/kg c. Arsenic <u>BDL</u> mg/kg to <u>19</u> mg/kg d. Barium <u>BDL</u> mg/kg to <u>475</u> mg/kg e. Cadmium <u>BDL</u> mg/kg to <u>6,56</u> mg/kg f. Chromium <u>BDL</u> mg/kg to <u>208</u> mg/kg g. Lead <u>BDL</u> mg/kg to <u>100</u> mg/kg (2 loads, all remaining 470 h. Mercury <u>BDL</u> mg/kg to <u>2,02</u> mg/kg i. Selenium <u>BDL</u> mg/kg to <u>38</u> mg/kg j. Silver <u>BDL</u> mg/kg to <u>38</u> mg/kg
14.	Indicate ranges and approximate median values of treated soil analyses for the following parameters. a. TRPH BDL mg/kg to 47 mg/kg, median 12.7 mg/kg b. VOA BDL mg/kg to BDL mg/kg, median BDL mg/kg c. Arsenic BDL mg/kg to 3.3 mg/kg d. Barium 119 mg/kg to 630 mg/kg e. Cadmium BDL mg/kg to BDL mg/kg f. Chromium 1.2 mg/kg to 47 mg/kg g. Lead BDL mg/kg to 16.1 mg/kg h. Mercury BDL mg/kg to 12 mg/kg i. Selenium BDL mg/kg to BDL mg/kg j. Silver 2.4 mg/kg to 5.1 mg/kg k mg/kg to mg/kg i mg/kg to mg/kg i mg/kg to mg/kg i mg/kg to mg/kg
Sign	William L. Martin . 12/30/91 Date

companies: RINKER MATERIALS

AGENCIES: FDER

	REPRESENTING	TELEPHONE NO.
NAME	FDER	407-433-2650
LEE MARTIN	1) (
DAVI'S V. MARPL		305-241-7645
Michael VARDEMAN	RINKER	305-221-7645
MIL MHE CHRISEMAN	7 0000-20	
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Name of Facility: \(\lambda \lambda \text{Neq} \) \(\lambda \lambda \text{Neq} \) \(\lambda \lambda \text{Neq} \) \(\lambda \lambd

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Florida Department of ironmental Regulation Soil Thermal because t facility
Treated Soil Reporting Form

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Florida Department of Environmental Regulation Soil Thermal Treatme .Facility Untreated Soil Repc. ng Form

r Permit No.: 2013-17215 Corp

Treatment Permit No.: 5013-195017

El Treatment Permit No.: 5013-195017

El Treatment Permit No.: 5013-195017

Month: 2 Year: 2/

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Florida Department of Environmental Regulation Soil Thermal Treatmer—Facility Untreated Soil Repc. ng Form

Month: 9 Year: 9/

Name of Facility: Red there Molecial's Coer
Air Permit No.: 1993-172154
Soil Treatment Permit No.: 5013-175017
Stationary or Hobile Facility:

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	100	235-51	6	295.12	21/5	5.67	_	BAL	804	1	2.17	ROL	13/6.4	156.2		
	2/2	235-01	6	588.48	2,15	5.67	B0L	801	202	148	2.17	201	1316.4	156.2		
1	11/6	239-01	6	14.51	2,15	5.67	804	311	301		2.17		1316.4	156.2		
	9//2	23901	6	354.9	2.15	5.67	801	801	804	BAL	2.17	BAL	13/6.4	156.2		
	9//3	235-01	6	110.3	2,15	5.67	30%	7007	BAL		2.17	BBL	1316.4	156.2		
	160	239-01	6	33,79	2,15	5.67	806	Bal	BOL	r	2,17	862	1316.4	156.2		
	12/2	105-01	4	300.19	BAL	202	801	1.08	2.58	301	801	804	801	36.4		
	3/2	105-06	4	25471	100	300	200	80%	35.5	BOX		8BL	801	36.4		
	19/3	///-35	_	107.24	2.02	24	1.82	6.22	22,5	,0109	.0197	2.95	2 95/301	139		
	2//2	111-35		73.53	202	ハ	1,82	6.22 22,5		2010:	,0197	2,95	19513.01	134		
	3/1/8	///-35	_	19.84	2,02	ヘ・	1,82	6.22	22.5	.0109	,0197	2.95	25513.01	139		
	9/6	23/-01	/	10.95	80%	257	2.6	6,7	6.6	BOX	BOX	2.1	804	4330		
~ ~~	9/6	136-03	/	13.05	^	/2	۲,۲	4.9	50	X.081	x /0	<i>\\</i>	170	46		
	19/16	106-48	1	60.23	ス・ア	4/2	へや	メゲ	9.6	1.05	ベ ・グ	41.6	304	440		
.,	1/9	23301		\$5.78	4,93	24	1.76	/.3	1.4	102	2.93	2.93	X31.2	2/000		
	9/10	233-01	_	36./2	₹93	2,4	24.7	<u>ئ</u>	7.4	2.02	1.53	X 83	X31,2	21000		
	11/6	233-01		34.14	₹,93	2.4	×.4%	1,3	1.4	202	4.93	2.83	₹31.2	21000		
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Soil Thermal Treatme Facility
Untreated Soil Repuing Form

me of Facility: Resident Malescals Corp.
ir Permit No.: 40/3-172/57
il Treatment Permit No.: 50/3-1950/7
iationary or Mobile Facility:

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Month: 9 Year: 9/

9/24	9/23	9/20	9/20	9/20	9//5	9/19	5/18	9/1/2	1/6	3//2	9//3	1/13	4/12	9/12	9/	9/,,1	9/11	9/10	1/10	 	3.	YEG .	
114-10	101-03	101-03	23201	237-01	111-30	23501	111-29	111-38	236-01	238-01	///-37	111407	11134	10781	10-78	111-36	234-01	106-49	132-05	,	10.	Soil	.2
_	_	_	-	1		/	/	,	-	-	_	/	ω	1	_	_	ζ,	_	1			Sample	w
20,77	28,33	48.16	5,23	7.95	57.47	8,7/	190.46	58.05	53760	7.27	54.85	23.55	225	82.23	84.57	36.37	71.72	127.09	10.08	cy/tn	07	Amount.	4
1,402	180	804	205	. 426	,0104	4.4	.053	. 777	1.6	1.8	.67%	7,9	26.3%	₹3.3	なぶ	. 425	./72	21.0	.3	As			
155	2.8	2,8	2,5	۸ ۵	· ·	/2</td <td>1.73</td> <td><u>^.</u>^</td> <td>376</td> <td>95</td> <td>49.4</td> <td>21/2</td> <td>14.4</td> <td>소23</td> <td><i>\$23</i></td> <td>12.5</td> <td>14.41</td> <td>3.2</td> <td>746</td> <td>8.</td> <td></td> <td></td> <td></td>	1.73	<u>^.</u> ^	376	95	49.4	21/2	14.4	소23	<i>\$23</i>	12.5	14.41	3.2	746	8.			
٨,٧	308	202	200	4.8	.483	۸. م	. 66.3	3.13	801	.21	3.09	۲.8	2.14	1.2	4112	2.42	1.41	ふく	1,2	Сч			
10.0	1.5	15	1.0	6.4	1.21	24.0	3.66	6.21	55.2	14	6.8	スメ	605	2.8	2,8	8.4	4.34	124	25	Cr	Metals		. ر
12.8		BOL	62	14.0	8.05	7.32	148	318	2.6	49	20.	2.32	29.2	8.7	87	30,1	21.37	1.2	24.9	РЬ	าร		
1,85,	404	802	1001	1.05	0103	4.05	.081	,0103	604	205	8000	205	.0203	<.29	1.29	1100	4.0095	2.03	801	Н			
۲.	301	801	300	4.4	1285	4.4	,034/	./2/	BAL	4.02	,027)	4.4	· 02/8 2.	41.2	412	· Ole 3.3	,092	11.0	000	Se		Analytic	
9.7		407	208	A		41.6	.82	2.94	23	1.4	3,53	11.6	2,92	K1.2	41.2	8,3	21.45	116	572	Αg			
9	9530	9530	11.9	304	211.9	BOX	√20.72	132160	BOL	250	7. 4.70/ ES'E	X0X	8.4	301	300	٨&	74.69	× 70	1161.7	VOA	Totals	l Results	6
32	81	18	71.7	4520	8.6	108	20	22 4	282	111000	472	108	364	270	270	643	19.13	スジー	10010	RPH	ils		~
																				Attach Lab Results Only	Indicate Other Analyses		œ

Month: 2 Year: 91

Name of Facility: Rin hone Moleniels Corp air Permit No.: 177134 Soil Treatment Permit No.: 5013-175017 Stationary X or Hobile Facility:

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y of	Soil	Sample	Amount.							Analytica	- 4	Results		
3	IOW		V icht				Metals	ìs				Totals	15	Indicate Other Analyses
,	,		cartin 7	As	8a	PD	Cr	Ьb	9	\$\$	Ąg	VOA	RPH	Attach Lab Results Only
7/23	121-15	_/	.65	, 0433	10.7	8/./	,58%	1.68	7.000	2336	1,7	21.181.22	1250	
12/23	126-16	7	1.30	.156	40.6	,493	12.6		Coory		325	1525 46/2.65	33.9	
7/23	122-12	_	3.91	,303	١ ، ٨	141	2.52	10.8	2500.	_	868	人》	13/	
They	25001	_	35:38	301	28	304	9.0	7./7	700	100	1.8	1301	//2	
Alle	2500		Summer										_	
9/25	250-01	_	11.94	501	28	709	9.0	7./7	801	BDL	3/	708	//2	
8/24	111-42	-	1/3.57	.31	3.5	4,69	15.2	357.5	1.001	.0649	2.9	スタ	626	
9/24	10-645	_	5,69	4.4	10	2.5	7	25	.07	41	٧/	804	16	
7/24	242-02	_	128.99	301	5.8	400	2,8	406	123	504	801	100	70	
	242-02	-	260.89	85.2	5,8	804	2.8	402	,23	301	200	BB4	70	
ام.	///-43	^	65:57	,/83	<./	6.56	19.6	55.7	1.001	,4//		22310	1158	
9/25	111-44	-	42.60	1/58	٨./	3.14	177	30,7	1001	.033/	403	48	3148	
24/1	243-3	_	30.16	200	5,4	BOL	2.7	20	.4	50%	604	7400	485	
9/25	245-01	_	35.35	213	17.234	1.576		3a 4	41319 -266	-266	.532	8.7	77	
9/26	252-01	_	16.80	301	606	801	801	1.0	1846	801	1366	0/4//	//	
9/26	10-76	_	201,44	ABL	9.7	2.0	3.1	5.3	604	188	1.4	14/0	1440	
9/30	10-7/10	-	25.31	FOL	5.7	3.0	3./	<i>ડ:3</i>	100	200	1.4	0/1/1	1440	
9/27	219-02	\	55.26	<u> </u>	5.9	くぶ	64	25	20.2	۷/۶	٧/	27	7	
3/21	111-45	w	100.33	.76	۲, ۱	3.17	6.56	26.43	5900	81101	20%	21628,62	53.54	
9/2	160-01	4	131,10	121	£,&	2.25	م' ہر	60	4.20	42.5	くいく	482	22800	

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Air Permit No.:
Soil Treatment Permit No.:
Stationary or Mobile Facility:

10/	10/3	10/2	10/1	16/3	10/2	//0/	9/30	o l	9/30	10/15	9/27	12/2	1/0	4/0	10/3	10/2	//	20/2		₹ः	Q.y	-
241,00	106-50	106-53	101-53	19903	199-03	179-03	199-03	199-03	105-07	108-03	108003	117-41	160-011	16.01	160-01	1001	16001	10-01	•	IDA	5011	2
_	6	6	4	6	6	6	6	6	/	W	W	_	#	7	4	Ý	4	4		ACMORT.	Sample	3
13.77	527.48	/39.93	3/1.08	165.27	78.42	84.22	70.29	6/6.82	1.12	45,44	225.38	4.57	243.80	66.37	165:83	137.81	11.0.87	138.17	cy/tn	0 0	Amount.	4
0		2.33	2.33	1	17	`_	\ \ \	人・2	80%	863	202	,204	2	^	へ/	ン	ン	17	As			
5,2	27.34	27.34	27.3Y	3.7	3.7	ر بن	3.7	3.67	3.7	1.43	1.43	^_	s r	2.8	8.8	2.8	28	2.8	48			
1.0	ヘタ	1.8	1.8	۲.۵	2.5	ふら	2.5	スル	801	408	84.	1.04	사.23	7.25	۲.25	2.25	۲.25	2.25	CG.			
ي د رو	53.77	24.55	24.55	1.27	121	127	1.27	1.28	20	33	2.83	4.79	5.5	2.5	<u>ب</u> د	87.5	2.5	ي ح	כר	Heta		5
28.5	35.6	1.25	35.6	2.84	2.84	7.87	2.84	14	801	80	.69	138	60	60	60	60	60	60	РЪ	ls		
.14	كغنمه	دينده	Loses	20.7	2.02	202	20.2	202	202		601		えら	メン	メダ	ない	4.2	۶.	¥g			
801	4.7	2.4	2.5	人一	4/	14	17	77	200	801	201	1,890	23.0	20.5	12.5	2.0	22.5	2.5	\$		Analy	
	41.6	41.6	117	17	1.1	1.7	41	<u>۸</u>	٥, کو	208	400	1.04	2,5	7.5	۸,	20,	<u>ک</u> د ,	٨, ٧	λg		tical R	
36	207	208	201	231.44	131.44	231.44	231.44	231442	SD 22	Box	801	1 307.01	182	487	182	スス	282	75.	VOA	Tota	esults	6
2000	2041.2	204.2	2046.2	18367	18367	18367	18367	43%.5	10	192	192	5.02	\$5800	5506	<5000	25/26	2000	₹ 5800	RPH	35		7
																			Attach	Indica		
																			h Lab Results Onl	ate Other Analyse		æ
	1 241-01 1 13.77 10 5,2 1.0 22 285 .14 806 806 96	241-01 1 13.77 10 5.2 1.0 22 285 .14 BOL BOK 96	106-53 6 139.93 233 27.34 L.8 24.55 35.6 2033 2.4 21.6 806 241-01 1 13.77 10 5.2 1.0 22 28.5 .14 806 806 96	101-53 6 319.08 2.33 27.34 1.8 24.55 35.6 1.054 1.4 1.1 1804 101-53 6 139.95 2.33 27.34 1.8 24.55 35.6 2033 2.4 21.6 804 101-53 6 527.48 2.33 27.34 1.8 24.55 35.6 2033 2.4 21.6 804 24101 1 13.77 10 5.2 1.0 22 28.5 .14 804 804 56	19903 6 165,27 21 3.7 2.5 1.2] 284 2.02 2.1 21 231.44 106-53 6 319.08 2.33 27.34 2.8 24.55 35.6 2.000 2.4 21.6 80.6 106-53 6 139.98 2.33 27.34 2.8 24.55 35.6 2000 2.4 21.6 80.6 241-01 1 13.77 10 5.2 1.0 22 28.5 .14 80.6 80.6 56	19903 6 78.42 41 3.7 4.5 421 2.84 4.02 41 431.44 19903 6 165.27 41 3.7 4.5 1.21 2.84 4.02 41 41 431.44 186-53 6 319.08 2.33 27.34 4.8 44.5 35.6 4.02 4.4 41.6 804 186-53 6 139.93 2.33 27.34 4.8 44.5 35.6 4.02 4.4 41.6 804 241-01 1 13.77 10 5.2 1.0 23 28.5 .14 804 804 56	199.03 6 84.22 21 3.7 2.5 2.27 2.84 202 21 23.44 199.03 6 78.42 21 3.7 2.5 2.27 2.84 2.02 21 21 23.44 199.03 6 78.42 21 3.7 2.5 2.27 2.84 2.02 21 21 21 199.03 6 78.42 21 3.7 2.5 2.5 2.84 2.02 21 21 21 199.03 6 319.08 2.33 27.34 2.8 24.55 35.5 2.5 2.5 2.4 21 231.44 106.53 6 319.75 2.33 27.34 2.8 24.55 35.5 2.5 2.4 21.5 80.5 106.53 6 527.48 2.33 27.34 2.8 24.55 35.5 2.5 2.4 21.5 80.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 80.5 56.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 60.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 60.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 60.5 24101 1 13.77 10 5.7 1.0 23 28.5 .14 80.5 60.5 24101 1 13.77 10 10 10 10 10 10 10	199-03 6 70.29 XI 3.7 Z.S 1.27 3.84 LOZ XI XI XI 199-03 6 84.22 XI 3.7 X.S 1.27 3.84 LOZ XI XI 199-03 6 78.42 XI 3.7 X.S 1.27 2.84 LOZ XI XI XII 199-03 6 165.27 XI 3.7 X.S 1.27 2.84 LOZ XI XI XII 199-03 6 165.27 XI 3.7 X.S 1.27 2.84 LOZ XI XI XII 199-03 6 165.27 XI 3.7 X.S 1.27 2.84 X.OZ XI XI XII 199-03 6 319.08 2.33 27.34 X.S 1.25 35.1 1.02 X.Y XII 801 190-53 6 527.48 2.33 27.34 X.S 1.85 35.1 1.02 X.Y XII 801 190-53 6 527.48 2.33 27.34 X.S 1.45 35.1 1.02 X.Y XII 801 190-53 6	19903 6' 61682 2.2 3.67 2.5 1.28 14 202 21 21 21 22 19903 6 54.22 21 3.7 2.5 1.27 2.84 202 21 21 23.44 199 19903 6 54.22 21 3.7 2.5 1.27 2.84 202 21 21 23.44 199 19903 6 78.42 21 3.7 2.5 1.27 2.84 202 21 21 23.44 199 19903 6 78.42 21 3.7 2.5 1.27 2.84 2.02 21 21 21 23.44 199 19903 6 165.27 21 3.7 2.5 1.27 2.84 2.02 21 21 21 23.44 199 19903 6 165.27 21 2.7 2.5 1.27 2.84 2.02 21 21 21 23.44 1990 12 21 21 21 21 21 21 21 21 21 21 21 21	105-07 1 1,12 8.04 3.7 8.04 3.0 8.04 8.0	108-03 3 45.44 883, 143 881 283 889 801	1/100003		10-01 H	100-01			1000 4 110.87				Saich Ruber Colors Colo

Florida Department of Environmental Regulation Soil Thermal Treatmer acility Untreated Soil Reporting Form

Month: 10 Year: 51

Name of Facility: Kinker Mateurals Con //
Air Permit No.:
Soil Treatment Permit No.:
Stationary or Mobile Facility:

0/2	10/2	10/	10/	10/	10/	101	101	120	10/2	10/	10/	10	10/1	10/2	, , ,	\ \ ':	ì	10/		ફ	0	-
5-701 27	 				 		0 25-0-0	•	<u> </u>		ł. – –		ļ.—-	114-1	1	<u> </u>	L	ا				2
5 5	1 6	6	6	6	7 6	4	3	2 3	3	<u> </u>			/			•	<u></u>	-			Sample	3
11.405	221.48	91.0	159.88	381.5	765.0	56.1	17.86	178.19	6.88	9.80	.83	1.59	10.2	6.95	48,61	11.81	14.52	58.2	cy/tn	607	Amount,	4
77544	8 1.1544	.1544	11544	7 1544	 	1 :			 	300	<u> </u>	,0428	,	801	├	19	7.7	10B 1	Αs			
44.167	77L 44	くのボイ	×31.44	121.44	1		 	287	 -	944	1.87	3.02		いいん	8.3	6.8	22	15.2	Ba			
286	2.965	2.965	2.765	2.865	2.763	/.3/	BDL	B01	202	804	,336	2.07		801	. 91	,91	えん	301	Cd			
2 6	7.5%	7.5%	7.5%	7.5%	7.5%	.967	5.94	597	57.97	57.7	5:47	25.24		2.9	3.7	3,7	47	681	Cr	Met		
٠ د	20.7	20.7	20.7	20.7	20.7			12.67		///	13.4		-	301	100	100	1.8	301	РЬ	als .		5
1.005	500°Y	2005	2.005	20002	2.005		i i		<u> </u>	2001	1,001	7,8		801	 	2,015	202	201	Нд			
_ '	1035		.034	.039			300	100	804		.0170	,174		40%	41,3	1 4/3	^		Se		Anal	
404	4.09	4.09	4.05	4.09		_	% \$3		450	00	.03	. /8/		806	3.1	3,/	٧/	208	Αg		[-]	
27	57	5 >	<9	15	79		2477		2477	804	13.51	2 405		3/2	<i>43</i> 03	2303	∠/235	408	VOA	Tot	Results	6
3	50	• 50	50	50	500	54.2	175	175	175	110	575	61360		87	22000	72000	126	1880	RPH	als		7
																			Attach Lab Results On	Indicate Other Analys		8
	2 / 30 / 10 / 20 / 20 / 20 / 20 / 10 / 10 / 1	6 221.48 1544 421.44 2545 7.52 20.7 1.005 0.35 4.09 KS	106-57 6 96.0 .1544 KDIKY 2.565 7.56 20.7 Kaos .039 4.09 55 . 106-57 6 221.48 .1544 KDIKY 2.565 7.56 20.7 Kaos .039 4.09 55 .	106-57 6 159.88 11544 KJIHY 2.565 7.56 20.7 2005 1034 4.09 29 106-57 6 221.48 11544 KJIHY 2.565 7.56 20.7 2005 1034 4.09 25 106-57 6 221.48 11544 KJIHY 2.565 7.56 20.7 2005 1034 4.09 25 1	106-57 6 381.57 1344 431.44 2.765 7.56 20.7 4.005 .034 4.05 4.5 106-57 6 159.88 1344 431.44 2.765 7.56 20.7 4.005 .034 4.05 4.5 106-57 6 231.48 1544 431.44 2.765 7.56 20.7 4.005 .034 4.09 4.5 106-57 6 231.48 1544 431.44 2.765 7.56 20.7 4.005 .034 4.09 4.5	106-57 6 765.07 .1544 22144 2.965 7.56 20.7 2.005 .034 4.09 29 106-57 6 281.57 1.344 22144 2.965 7.56 20.7 2.005 .034 4.09 29 106-57 6 159.88 .1544 23144 2.965 7.56 20.7 2.005 .034 4.09 29 106-57 6 96.0 .1544 23144 2.965 7.56 20.7 2.005 .034 4.09 29 106-57 6 231.48 .1544 23144 2.965 7.56 20.7 2.005 .034 4.09 25 106-57 6 231.11 .1544 23144 2.965 7.56 20.7 2.005 .034 4.09 25 106-57 6 23111 .1544 23144 2.965 7.56 20.7 2.005 .034 4.09 25	111-47 4 56.13 1.03 4.1 1.31 .967 .0859 .0311 ,774 45.52 .066-57 6 765.07 .1544 22.44 2.965 7.56 20.7 4.005 .0359 4.09 4.9 4.9 106-57 6 281.87 .1544 431.44 2.965 7.56 20.7 4.005 .035 4.09 4.9 4.9 106-57 6 96.0 .1544 431.44 2.965 7.56 20.7 4.005 .035 4.09 4.9 4.9 106-57 6 231.48 .1544 431.44 2.965 7.56 20.7 4.005 .035 4.09 4.9 4.9 106-57 6 231.48 .1544 431.44 2.965 7.56 20.7 4.005 .035 4.09 4.9 4.9 6.57 6.005 6.005 6.005 4.09 4.9 4.9 6.57 6.005 6.005 6.005 4.09 4.9 4.9 6.57 6.005 6.	25°000 3 17.86 BBL 287 BBL 5.94 1767 BBV BBL 453 2477 111-47 4 56.13 1.03 4.1 1.31 .967 .0959 .0321 ,774 45.52 106-57 6 765.07 .1544 421.44 2.965 7.56 26.7 4.005 .036 4.09 4.09 4.9 106-57 6 281.97 .1544 421.44 2.965 7.56 26.7 4.005 .036 4.09 4.09 4.9 106-57 6 96.0 .1544 421.44 2.965 7.56 26.7 4.005 .036 4.09 4.09 106-57 6 221.48 .1544 421.44 2.965 7.56 26.7 4.005 .036 4.09 4.9 106-57 6 221.48 .1544 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23.44 23.45 7.56 26.7 6.05 .036 4.09 25 106-57 6 221.48 .1544 23.44 23.45 7.56 26.7 6.05 .036 4.09 25 106-57 6 221.48 .1544 23.44 23.45 7.56 7.56 26.7 6.05 .036 4.09 25 106-57 6 221.48 .1544 23.44 23.45 7.56 7.56 26.7 6.05 .036 4.09 25 106-57 6 221.48 .1544 23.44 23.45 7.56 7.56 7.56 7.56 7.56 7.56 7.56 7.5	250021 3 22.47 BOL 287 BOL 5.47 1767 BOL 80L 80L 453 3477 250022 3 178.19 BOL 287 BOL 5.47 1767 BOL 80L 453 3477 250023 3 178.6 BOL 287 BOL 5.47 1767 BOL 80L 453 3477 111-47 4 56.63 1.03 4.1 1.31 .967 5.48 .0959 .031 .774 45.52 106-57 6 765.07 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 159.89 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 96.0 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 271.16 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 271.17 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 271.17 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 271.17 .1544 431.44 2.965 7.56 20.7 4.005 .036 4.09 4.9 106-57 6 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2.07 6.05 0.35 4.07 6.5 260-57 6 2.314 6.314 1.344	111-48 1 1.55		144.11 1 1.55 201 5.2 201 2.9 201 20	298-01 11181 19 6.8 , 91 3.7 100 2,04 213 3,1 2303 72000 298-01 4866 499 6.8 , 51 3.7 100 2,04 213 3,1 2303 72000 298-01 4876 201 5.2 604 2.9 804 604 604 604 604 3.0 3,2000 297-11 10-25 201 5.2 604 2.9 804 604 604 604 604 3,1 3,1 2000 297-01 10-25 201 5.5 604 2.0 3.0 3.0 3.0 3,0 405 604 604 3,1 3,1 2000 297-01 10-25 201 5.5 604 5.2 504 5.0 3.0 3,1 3,1 2000 297-01 10-25 201 5.5 604 5.2 504 5.0 3,1 3,1 2000 297-01 201 5.5 604 287 604 5.7 1,1 604 604 604 604 604 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0 1,0	298-01 1 11.81 19 6.8 .91 3.7 100 1.04 1.3 3.1 1303 72000 298-01 1 11.81 19 6.8 .91 3.7 100 1.04 1.3 3.1 1303 72000 298-01 1 48.61 49 6.8 .91 3.7 100 1.04 1.3 3.1 1303 72000 298-01 1 48.61 49 6.8 .91 3.7 100 1.04 1.3 3.1 1303 72000 298-01 1 10.25 20000 1 10.25 20000 1 10.25 20000 1 10.25 20000 1 10.25 20000 2 2 17.81 10.25 20000 2 3 17.81 10.25 20000 2 3 17.81 10.25 20000 3 17.81 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Florida Department of Environmental Regulation Soil Thermal Treatment lility Untreated Soil Reporti. Form

Month: 10 Year: 91

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Name of Facility: Kin Ken Motomphistory
Air Permit No.:
Soil Treatment Permit No.:
Stationary or Mobile Facility:

218-02 33.68 80L 415 80L 835 1.5 80L 838-02 108-01 1503 844 14.5 80L 835 1.5 80L 838-02 108-01 1 83.31 80L 513 80L 4.3 493 80L 108-01 1 40.47 80L 513 80L 4.3 493 80L 108-01 1 40.47 80L 513 80L 4.3 493 80L 117-01 3 31.95 80L 475 80L 475 80L 401 3.17 80L 80L 117-01 3 32.35 80L 475 80L 3.17 80L 80L 117-01 3 32.55 80L 475 80L 3.17 80L 80L 117-01 3 358.35 80L 475 80L 3.17 80L 80L 117-01 3 358.35 80L 475 80L 3.17 80L 80L 117-01 3 358.35 80L 475 80L 3.17 80L 80L 117-01 3 358.35 80L 475 80L 3.17 80L 80L 80L 117-01 3 358.35 80L 475 80L 3.17 80L 80L 80L 117-01 3 358.35 80L 3.14 80L 8.1 17.6 80L 117-01 3 581.36 80L 3.14 80L 8.1 17.6 80L 80L 117-01 3 581.36 80L 3.14 80L 8.1 17.6 80L 80L 117-01 3 581.36 80L 3.14 80L 8.1 17.6 80L	ig For Day	Soil Batch ID#	3 Sample Number	Amount. Volume or Weight cy/tn	A5	88	P3	Hetals Cr	PB 12	Hg Hg	Analytica Se Ag	A9 64		6 Results	6 lesults Total	6 lesults Total
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21.96 60+ 513 60+ 443 473 6A+ 1 116.76 40+ 513 60+ 443 473 6A+ 1 348.25 2.13 551 804 407 3.17 80+ 8 31.90 2.13 551 804 407 3.17 80+ 80+ 325.36 80+ 475 80+ 3.67 80+ 80+ 80+ 80+ 80+ 80+ 80+ 80+ 80+ 80+			_	40.47		Si 13	1001	4.63	4.53	BAI	602		_	_	Bar	B02 804
116.76	10801		7	21.95	B01	5/13	BO2	463	4.93	BAL		`		BAL	BAL	BAL 604
3 348.25 2.13 55.1 801 407 3.17 601 3 3 31.90 2.13 55.1 801 407 3.17 601 6 3 31.90 2.13 55.1 601 407 3.67 601 6 3 325.36 801 475 801 3.67 801 801 801 801 6 3 570.68 801 475 801 3.67 801 801 801 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	I	8		116.76	2.4	o,	1.5	4.5	32	,02	41		۷/		14933	14933
3 31.90 2.13 55.1 60L 407 36H 60L 6 3 263.42 80L 475 80L 3.67 80L B0L 6 3 325.36 80L 475 80L 3.67 80L B0L 6 3 57.45 80L 475 80L 3.67 80L B0L 6 1 50.68 80L 22 80L 3.7 18. 80L 60L 6 1 88.38 80L 21 80L 3.7 18. 80L 60L 6 1 88.38 80L 21 80L 8.2 176 80L 60L 60L 60L 60L 60L 60L 60L 60L 60L 6	70	40-6	W	348.25	2./3	551	801	407	3./7	504	804		804	6	4 20887	4 20887
3 263.42 301 475 301 3.67 801 B01 B01 B 3 325.36 801 475 801 3.67 801 B01 B 1 50.68 B01 475 801 3.67 801 B01 B 1 50.68 B01 22 801 3.7 18 801 B01 B 1 88.38 801 214 801 8.1 17.6 801 B01 B01 B01 B01 B01 B01 B01 B01 B01 B	15	70-6	3	31.90	2.13	JS:1	200	4.07	36F		406		81	806	BAL 20887	BAL 20887
3 325.36 BOL 475 BOL 3.67 BOL	-	17-01	w	263.42	304	475	1301	3.67	402		80-		B04	1	L 302	L 302
3 5/145 BOL 475 BOK 367 BAL BOL 0 3 155.66 BON 5.4 BOL 5.67 483 0197 1 50.68 BOL 22 BOL 3.2 19. BOL 1 88.38 BOL 214 BOL 8.2 17.6 BOL 3 58.36 SOL 214 BOL 1.1 BOL BOL 11 1 15.91 BOL 2.8 BOL 1.1 BOL BOL 11 1 4.26 6.4 218 6.8 6.8 6.8 6.8 6.8 6.8		10-01	W	325.36	801	475	404	3.67	<i>80</i> L	B01		I/ I	-	80-	804 804	80- 802
3 155.66 BON 5.4 BOL 5.67 483 0177 1 50.68 BOL 22 BOL 3.2 18. BOL 1 88.38 BOL 214 BOL 8.2 17.6 BOL 3 58.36 .583 13.44 1.43 4.28 9.17 .031 1 15.91 BOL 2.8 BOL 1.1 BOL BOL BOL 1 1.68 1.12 24.8 4.8 208 5.0 4.05	1	117-01	ω	51.45	801	475	700	367	200	100	30-	i		86	801 801	801 801
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12203] 88.38 BQL 214 BQL 8.2 17.6 BQL 811 17.6 BQL 811 17.6 BQL 811 17.6 BQL 812 17.6 BQL 814 1.750 3 558.36 BQL 214 5.94 1.13 9.17 .031 80-658 1 4.36 5.47 5.12 24.8 5.8 5.0 5.05 5.05 5.05	+	114-12	_	50.68	BOL	2) 1)	804	3,2	17	804	80	17-	4 38		38 30-	38 30-
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Florida Department of Environmental Regulation Soil Thermal Treatment ility Untreated Soil Reporti, Form

Month: 10 Year: 91

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Air Permit No.:
Soil Treatment Permit No.:
Stationary or Hobile Facility:

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Florida Department of Environmental Regulation Soil Thermal Treatment Tility Untreated Soil Report. Form

Air Permit No.:
Soil Treatment Permit No.:
Stationary or Mobile Facility:

Month: 10 Year: 51

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V. O	Soil	Sample	Amount.							Analytica	ا ب	Results	•	
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10/31	122-18	4	18.21	12.10	41.65	41.ass	4237	41.425	DIES		700	27/1/2	26.6	
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10/31	102-07	W	20.36	301	49.7	B01	5.0	125	00	1301	.37	801	285	
7/2	106-72	w	156.39	800	131.2	100	8.07	کرہ	302	BOL	801	304	///.3	
8/4	106-72	(v	247.48	407	131.2	BOL	807	· u	13 QL	80-	800	601	111.3	
11/	256-01		8.08	307	1/3.7	301	4.2	4.4	<i>60</i> L	601	30L	1380	600	
<u>'''</u>	257-01	_	15-17	501	27	70 G	2.6	4.0	804	306	300	1100	6942	
<u> </u>	206-02	-	63,53	4.00S	137.5	28.	2.0	7.0	2002	1805	.6	BAL	350	
1/4	215-02	-	52.15	BOX	10.3	202	2%	1.3	30	80%	801	304	601	
1	215.03	_	19.75	BAL	8.01	400	2,5	40	BOX	10%	BAL	DOX	81	
7/11	21504	_	18.49	20,2	154.2	301	2,2	3.6	SAL	SOL	402	402	7200	
11/11	25501	w	301.51	301	9.7	304	4,23	26.7	801	801	601	604	73	
11/1	114-13		12.77	1300	28	001	1.1	31	404	ade	506	801	20	
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Florida Department of Environmental Regulation Soil Thermal Treatment Sility Untreated Soil Report Form

Honth: 16 Year: 51

Name of Facility: Red Ked Malouid's Core
Air Permit No.:
Soil Treatment Permit No.:
Stationary or Mobile Facility:

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775.50(2)

Florida Department of Environmental Regulation Soil Thermal Treatment Cility Untreated Soil Report Form

Month: // Year: 91

Name of Facility: Red Malegials Conf Air Permit No.: Soil Treatment Permit No.: Stationary or Mobile Facility:

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Day Soil	Sample Number	Amount.							Analytica		l Results		
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11/21 25401	1	67.91	BAL	240	700	6.9	57	409	100	400		392	

METRODADE)

ENVIRONMENTAL RESOURCES MANAGEMENT SUITE 1310 131 N.W. 181 STREET MIAMI, FLORIDA 33128-1971 (305) 375-3376

November 6, 1991

Mr. D. Wilderman PIECO P.O. Box 290550 Ft. Lauderdale, FL 33329

RE: Disposal of three (3) tons of contaminated material from recent excavations at Shell, 5965 S. Congress Avenue,

Dear Mr. Wilderman:

Based upon the data submitted to this office on November 1, 1991, the subject material meets the F.A.C. 17-775.400(4) for metals and does not appear to be a hazardous waste according to applicable RCRA regulations. Therefore, DERM has no objection to transportation of the material to the Rinker Materials Rotary Kiln facility for beneficial reuse and recycle into the cement manufacturing process.

It should be noted that this approval is valid for sixty (60) days for the referenced materials only (and also is contingent upon future resolution of pending permitting issues between DERM and Rinker Materials.) The enclosed "Solid Waste Disposal Certification" form must be completed and returned to this office within ten (10) days of the materials' arrival at the facility in order to close our files on this subject.

Please contact Mike Vardeman at 221-7645 to make disposal

Sincerely,

Lori Cunniff, Manager Solid Waste Program

L. Cunniff

Pollution Control Division

PL:ml

Enclosure

pc: M. Vardeman, Rinker Materials



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Telephone: 407/433-2650 Fax: 407/433-2666

Carol M. Browner, Secretary

SEP. 24 1991

Mr. Michael Vardeman, Manager, Materials Substitution Rinker Materials Corporation 1200 Northwest 137th Avenue Post Office Box 650679 Miami, Florida 33165

Dear Mr. Vardeman:

RE: Soil Thermal Treatment Facility Inspection

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Enclosed is the inspection report and checklist prepared for the August 16, 1991 inspection conducted at your facility.

The inspection focused on your operations with regard to Chapter 17-775, Florida Administrative Code.

Should you have questions, please call me at 407/433-2650.

Sincerely,

Paul Alan Wierzbicki

Professional Geologist II

Waste Programs

cc: Mike Graham, Metropolitan Dade Environmental Resources Management Zoe Kulakowski, P.G., Bureau of Waste Cleanup, DER, Tallahassee West Palm Beach DER files



Florida Department of Environmental Regulation

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

Lawton Chiles, Governor

Telephone: 407/433-2650 Fax: 407/433-2666 Carol M. Browner, Secretary

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

1. INSPECTION REPORT COMPLAINT X ROUTINE FOLLOW-UP PERMITTING	
FACILITY NAME Rinker Materials Corporation DER/EPA ID F L D 9 8 1 7 5 8 4 8	<u>5</u>
ADDRESS 1200 Northwest 137 Avenue, Miami, FL 33182	
Mailing: P.O. Box 24635, West Palm Beach, FL 33416-4635	_
COUNTY <u>Dade</u> Phone (305) <u>221-7645</u> DATE <u>08-16-91</u> TIME <u>10:00AM</u>	
TYPE OF FACILITY:	
Thermal Soil Treatment Facility	
Facility Operations include limerock mining and contaminated soil processing to produce cement. Rinker uses kilns fired by coal, natural gas, used oil or slag in production.	
2. Applicable Regulations:	
17-2, F.A.C. <u>X</u> 17-775, F.A.C.	
3. <u>Responsible Official</u> : (Name & Title) James JenkinsVice President	
4. Survey Participants & Principal Inspector Paul Wierzbicki, Lee Martin, Lou Valcarenghi, Cher Petro DER David Marple, M. Vardeman Rinker Materials Corporation	
5. Facility Latitude: 25°46'48" Longitude: 80°25'10"	
6. Type of Ownership: FEDERAL STATE COUNTY MUNICIPAL PRIVATE	
7. Notice Number: S013-193578 Date Issued: 04/17/1991 Expiration Date: 04/04/199	6

FORM/14 paw



FLD981758485

RINKER MATERIALS CORPORATION

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

BACKGROUND INFORMATION:

5013-195017

Rinker was issued a General Permit (# S013-193578) to operate a soil thermal treatment facility on April 17, 1991 (expires April 4, 1996). Rinker's facility was operating as an existing facility as defined in 17-775.200, F.A.C. prior to the effective date of this rule.

A complete process description is provided in Rinker's permit application, however the process was reviewed while at the inspection, as follows:

According to David Marple, prior to accepting any soil for thermal treatment pursuant to the Chapter 17-775, F.A.C, Rinker requires a soil analysis profile. Based upon this profile, and concurrence from the Metro Dade Department of Environmental Resources Management (DERM), soils are then brought by truck to a concrete pad at the rear of Rinker's plant. Rinker claims no hazardous wastes as defined in 40 CFR Part 261 are accepted, however, the facility has filed a RCRA "Part A" application to the U.S. Environmental Protection Agency for handling TC wastes and virtually all waste codes listed in 40 CFR Part 261. Rinker claims that they have "protectively filed" to meet a RCRA deadline.

SOIL STOCKPILE TEMPORARY STORAGE:

Incoming soils to be thermally treated by Rinker arrive by independent contractor via dump truck to a concrete pad. Rinker personnel stated that in the event that containers holding contaminated soils are brought to the site, the person bringing the drums or containers are required to take the drums back, since Rinker does not want to handle or deal with drums. Workers at the temporary storage area that sort and screen incoming contaminated soils are not Rinker employees, but are independent contractors, according to Mr. Vardeman (Rinker).

The 12 inch thick reinforced concrete slab (100' by 100') appears to meet the requirement of 17-775.620(2)(b), F.A.C. A canvas/vinyl overhang covers about half of the concrete slab and three sides. The overhang showed signs of wind damage and is ripped and torn in places. A repair crew was on-site at the time of inspection to fix the canvas/vinyl overhang. Between one and two inches of liquid had accumulated on the concrete slab and Cliff Berry, Inc. was observed pumping the liquid into a tank truck. Mr. Vardeman stated that very heavy winds the day before had ripped a portion of the overhang and caused some rainwater (leachate) to accumulate on the concrete slab along with the contaminated soils. The concrete slab is "bermed" with concrete blocks and clean soil on three sides. According to Mr. Vardeman, liquids (leachate) that accumulate are directed to the front of the concrete slab for suction pumping by Cliff Berry. Reportedly, the leachate contents are transported to Rinker's on-site "slop" oil storage tanks. Rinker reports that they are authorized to handle slop oil and Section 17-775.620(4), F.A.C. allows leachate to be treated in the thermal treatment facility. Pooled liquids were observed puddled in front of the concrete slab in an approximately 30' radius. At the time of inspection, the department inquired whether the liquid was runoff or leachate from the contaminated soil stored on the concrete slab. Mr. Vardeman was confident that none of the puddled was runoff (leachate) from the stored stockpiled contaminated soils. Mr. Vardeman explained that the area directly in front of the concrete slab was a low area and stormwater accumulates there.

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FLD981758485

RINKER MATERIALS CORPORATION PAGE TWO OF THREE

All four ground water monitoring wells near the four corners of the concrete slab holding stockpiled contaminated soils (required in the ground water monitoring plan for the General Permit) were located. The August 1991 report of quarterly data (prepared by Groundwater Specialists, Inc., Palm Springs, Florida) showed below detection limits for EPA Test Method 601 and 602 parameters analyzed. At the time of inspection, Rinker was considering replacing the canvas/vinyl overhang, however later by phone, Mr. Vardeman stated that a replacement was not yet needed since the repairs were successful and if needed, another overhang would be made and installed. Initially, Rinker had trouble locating the below-grade wells, since they were covered by sand and rock. Rinker uses very large rock chunks in an attempt to mark and protect the monitoring wells from the heavy truck and equipment traffic. At this time, the District feels that soil sampling should be conducted in and around the concrete slab when the permanent soil storage building is fully operational in order to ensure that there are no contaminated soils remaining on or near the temporary contaminated soil stockpile area.

When contaminated soils arrive, the soils are separated from plastic and metal debris prior to being placed "in process" within one of the large sand "bins" in the plant. The separated plastic and metal debris are placed into a nearby dumpster for transport to the off-site county landfill, according to Mr. Vardeman. Then Rinker draws the contaminated sand as needed in the cement manufacturing process. Rinker claims that contaminated soils do not normally accumulate on the concrete slab overnight, since trucks haul it to one of the bins regularly, however, on occasion contaminated soils stay on the slab overnight or over a weekend.

PROPOSED FACILITY:

At the time of inspection, no actual construction of the permanent contaminated soil building had commenced. Rinker was still in the process of obtaining local permits for the building. Later, by phone, Mr. Vardeman believed that he had the necessary approvals to begin construction of the permanent soil facility. As proposed the facility will be constructed south of the railroad tracks and will have a asphalt driveway leading to it. The new facility as proposed, is designed with a leachate collection system and is expected to be operational around January 1, 1992.

RECORDKEEPING:

Rinker has received a Department alternative procedure approval (File No. AP-STTF001) for the testing of contaminated soils. Rinker relies solely on the test results supplied by other labs, however, Rinker requires acknowledgement of a Quality Assurance Project Plan from labs supplying the data. Rinker does perform spot checks of some samples. When requested, Rinker does provide a "Burn Certificate" to facilities supplying contaminated soil to the Rinker facility. According to Mr. Vardeman, Rinker is working with Ms. Sylvia Labie to formulate a Quality Assurance Plan specific to Soil Thermal Treatment Facilities.

Random review of records over the past several months showed no outward signs of inconsistency and all values for Arsenic, Chromium and Mercury reviewed were well below total metal maximums for "clean" soil.

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EXHIBIT E

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

Name of Facility NINKER MATERIALS
Location 1200 NORTHWEST 137 AVENUE MIAMI, DADE COUNTY FL 33182
General Permit No. SO /3 - 1950/7 Date of Inspection _O5/16/9/
Contact Person MR MIKE VARDEMAN
Person Completing Report Pal Wierbicki
reison completing Report
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? ALTERNATURE PROCEDURE
3. Are monitoring wells properly installed (proper number and location)?
4. Are monitor wells being properly sampled and analysed for required parameters?
5. Is untreatd soil stockpiled separately from treated soil and properly identified?
$\frac{\times}{\times}$ 6. Is untreated soil adequately covered by roofing? Do floors for storage appear to be properly
constructed and in good condition? Are floors properly bermed to provide runoff
<pre>control? y</pre>
* See report
Yes No REPORTING FORMS
11. Are treated soil reporting forms being properly completed? starting date $\frac{04/34/9}{9}$ end date $\frac{07/14/9}{9}$

Florida Department of ironmental Regulation Soil Thermal haddent Facility
Treated Soil Reporting Form

Air Permit No.: A. Soil Treatment Permit No Stationary: X or No

Honth: Q5 Year: 91

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Month: S Year: 91

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Name of Facility: Kushee Malegial's Coap Air Permit No.: HO13 12354 Soil Treatment Permit No.: So13-195017 Stationary X or Hobile Facility:

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5/10	16001	4	150.24	17	2.8	4.25	2.5	60	んな	<2.5°	4.5	く82	15800	
5/13	16-01	4	162.83	17	2.8	4.25	2.5	60	ベ. ユ	₹2.5	4. S	Z82	< 5800	
5/14	19201	,	18.40	.36	%	. 22	10	15	Loo,	200,	,01	300	220	
5/14	110-01	4	3434	√′	2.8	4.25	2.5	60	4.20	X4.5	۲.5	282	₹ 5800	
5//5	20001	_	20.58	んご	3	1.5	1.7	2.2	Los	2.5	^	760	7	
5/,5	191-01	1	24.82	70 K	316	301	801	BOL	.01	2.1	,09	49	804	
5/15	10-111	1	42.82	,3	5.83	.98	5.53	/3.5	1. saps	,/28	1.41	スケ	138	
5/16	1001	4	483.68	17	2.8	٦.25	જે.5	60	へ、ム	27.5	<i>بر</i> یہ	んか	<5800	
0	195-01	Ŋ	783.70	100	2.	801	2.3	35.6	SION	BOL	1.1	4900	P33	
5/16	111-01	/	75.79	٤,	5.83	.58	5.59	13.5	1.0002	, 128	1.41	25	138	
5/17	114-03	,	19.86	4.7	71,8	. 44	15.0	5.0	,355	L	.04	BOL	377	
3/17	106-03	/	5,82	1.01	23.6	1.8	24.0	24.0	₹,05	4. 4	11.00	NO	25	
3/12	10.01	4	136.9	7/	2.8	2.25	2.5	60	<i>x</i> , 2	42.5	4.5	<i>ላ</i> ୫2	~5800	
5/20	110-01	4	104.15	77	2.8	4.25	2.5	60	<i>x.</i> 2	₹2.5	ላ. ነ	₹82	∠580O	
27	122-01	7	295,22	,	801	661	449	BDL	BDL	801	301	708	140	
5/21	160-01	4	150.81	~	2.8	2.25	2.5	60	入こと	125	4.5	ላ የጀ	₹5800	
1'	12201	7	59256	-	SAL	804	201	BbL	BOL	BOL	208	40 B	041	

Soil Thermal Treatme Tacility
Untreated Soil Reporting Form

Month: 5 Year: 91

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Name of Facility: Linkee Material's Corp.
Air Permit No.: HO13-1355 Y
Soil Treatment Permit No.: 5013-195017
Stationary Or Hobile Facility:

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	Q.y	Soil	Sample	Amount.							Analy	Analytical F	Results		
	₹ 9	ID#	ACEDEL	07 07				Hetals	l's				Totals	15	Indicate Other Analyses
		,		cy/tn	λs	£8	Cd	כי	РЬ	Н	Se	Ag	VOA ppb	RPH A	Attach Lab Results Only
	7/22	114-02	/	19.03	4.7	77.8	. 44	15	6	, 355	1.85	40.	BD4.	66	
	3/42		4	124.40	<i>ح ا</i>	2.8	4,25	2.5	60	スル	1.25	4.5	B1000	15800	
	5/23	136-02	/	17.83	4.05	14.8	4.05	,43	,23	4.02	1.04	1.11	110000	2100	
	5/63	_	7	471.94	1	BAL	804	604	804	BOL	BOL	BAL	406	140	
	224		7	608.93	~	80 K	301	604	204	BOL	BAL	80%	506	140	
	3/28	122-01	7	5471	/	20%	BAL	8 Ox	208	801	BAL	805	BOX	140	
* 87	57%	111-111	-	1.13	,164	268	1.69	11.5	30.5	1,000,	,0157	222	٨/	70	
34%	5728	111-12	_	,53	1.08	3.44	1.59	128	244	4.0002	,28	2.24	x /	183	
507	Shr		/	13.22	1.4	18	1.6	હે	2	1/5	41	>	x3850	28000	
807	E	10675	_	a15.47	801	3.5	301	2.6	35	80%	801	801	1.81	1200	
	3/29	129/06-15	_		801	3.9	BOL	2.6	35	201	804	801	1.817	1200	
COT	4	199-02	7	875535 BOK	BOK	102	804	2,8	29	801	BOK	183	7/788	2045	
7001	5/31	114-04	4	25445	202	225	225 BOL	3.28	,78	20%	804	305	30350	16917	
	1/3	114-04	4	304.11	BOX	2.25	801	3,28	,78	AOL	804	BAL	20250	16817	
	4/2	NO-111	4	342.57	801	7.25	801	3,28	798	SOL	201	MAL	20350	16517	
	12	114-04	4	229.75	BOL	7,25	866	3.28	. 78	BOK	Bas	Sak	20150	16517	
	6/6	114.04	4	411.89	80x	2,25	862	3.28	.78	80 K	<i>r</i> ~		20350	16517	
	1/2	114-04	4	22354 BOX	L	2.25	644	3.28	, 28	BOL	<i>8</i> 0∠	502		16917	

DER Form 17-775.900(2)

See reverse side for instructions