



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

SEP 24 1998

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

Dear Mr. Jenkins,

The attached Soil Thermal Treatment Facility Inspection Report documents a routine inspection of your facility (1200 NW 137th Avenue, Miami, FL, by the Department on September 14, 1998) for compliance with Chapter 62-775, Florida Administrative Code (F.A.C.). As noted on the attached inspection report, the ground water monitoring well located near the northwest corner of the Material Screening Building was not locked during our inspection. Please note that all of the monitoring wells need to be kept secured and in good condition. Additionally, Rinker should maintain receipts for the proper disposal of metal and plastics that are removed from the soils for transport to the county landfill. Thank you for your continued cooperation.

If you have any questions or need further information, please contact **Jorge R. Patino** at 561-681-6726.

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

PAW/jrp

attach: STTF Inspection Report conducted 09/14/1998

cc: Paul Lasa, DERM, Miami
Tom Conrardy, DEP/BWC, Tallahassee
Zoe Kulakowski, DEP/BWC, Tallahassee
Jeff Smith, DEP/WPB
Don Emery, Rinker Materials, Miami
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 COMET SITE ID 69992

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 09/14/98 TIME 10:30AM

4. TYPE OF FACILITY Thermal Soil Treatment Facility

5. DESCRIPTION OF OPERATION:

Facility Operations include limerock mining and contaminated soil processing to produce cement.
Rinker uses kilns fired by coal, natural gas, or used oil in production.

6. APPL. REGULATIONS: ☐ 62-2, F.A.C. ☒ 62-775, F.A.C.

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

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

Lee Martin and Jorge Patino, FDEP
Don Emery, 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
SO13-300512 6/4/98 6/4/2002

Rev 8/18/94

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

Printed on recycled paper.

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

BACKGROUND INFORMATION:

Rinker was issued a General Permit #SO13-290034 to operate a soil thermal treatment facility on June 28, 1996 which expires on June 7, 2001. The Rinker facility was operating as an existing facility as defined in 62-775.200, FAC prior to the effective date of this rule. Additionally, the facility treats coal tar contaminated soil pursuant to 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, 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. Mr. Emery recently replaced David Marple as the contact person for this facility.

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, (5) blending oily sludges with contaminated soils, and (6) using other petroleum contaminated material.

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 reportedly are packed with petroleum contaminated booms, diapers, absorbent material, jet fuel filters, etc.; however, operational problems with lowering of temperatures has suspended continuous burning but some batch burning is still performed.

- Rinker has received a determination that the use of spent petroleum catalyst as an aluminum source is not regulated under 62-775, F.A.C.; however, the characteristics provided would make storage on the bare ground inappropriate. Several loads (10-12) of spent catalyst from a Hess operation in Puerto Rico were received in the past, but handling problems due to the extremely dusty nature of the material has delayed subsequent shipments while a pneumatic off-loading and handling system is being investigated.

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

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

The afterburner system for the petroleum contaminated soils is in operation. Petroleum contaminated soils pass 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 from independent contractors via truck, are weighed, and taken to the Material Screening Building 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 Material Screening Building and emptied as time permits. (During this inspection, all drums observed were located inside the building. The number of drums appeared to have doubled since the previous inspection.) Once emptied, drums are rinsed at the drum washing area and either crushed (if damaged) for salvage or sent to an outside drum facility. 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 an approximate 100-foot by 300-foot 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 near the corners of the facility have flush mounted manhole lids. The monitor well near the Northwest corner of the building was capped, but not locked.

The metal and plastics removed from the soils are collected for transport to the County landfill. Rinker should maintain receipts for proper disposal. The larger concrete debris screened out initially are taken to the rock crusher to be pulverized separately and mixed back in with the contaminated soils at the soil storage facility. Spent oil filters are drummed at the soil storage facility and processed for recycling to Cliff Berry, Inc. A covered dumpster has been located in the Northeast corner of the soil storage building to allow collection of oily wastes/sludges which are mixed with the fuel oil and burned in the kiln.

RECORD KEEPING:

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 reportedly 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. (Detection limits must be comparable with applicable groundwater standards.) A review of records for untreated soil for June 1998 indicated some batches of untreated soils were received which exceeded the clean soil criteria for metals; however, spot checks on some of these batches were made, and blending records were provided as required by 62-775.400(4), FAC, which confirms blended soils comply with total metals standards. Rinker began treating low level PCB contaminated soils in April 1994 and developed a form to tracking the source, soil PCB content, quantity, PCB concentration, pounds PCB treated, and cumulative year to date PCB treated. Appropriate reporting forms for untreated PCB contaminated

soils were submitted for this inspection period. Rinker began treating coal tar contaminated soils in mid-June 1997 and developed a form to track the required analytical data for the treated soils. No treated soils analyzed for this quarter exceeded the VOA or TRPH criteria for clean soil in 62-775, FAC.

SUMMARY:

The soil storage facility provides for proper handling and storage of petroleum contaminated soils, low level PCB contaminated soils, and coal tar contaminated soils and allows Rinker to process contaminated soils in an environmentally sound manner. No visual signs of discharge were noted and all facility personnel were very cooperative.

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

Name of Facility Rinker Materials
Location 1200 NW 137th Ave, Miami, FL 33182
General Permit No. SO13-290034 Date of Inspection 9/14/98
Contact Person Dan Emery
Person Completing Report Jorge R. Patino

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 6-1-98 end date 6-30-98
- ☒ 11. Are treated soil reporting forms being properly completed? starting date 5-4-98 end date 8-2-98

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 3 mg/kg to 200,000 mg/kg, median 2800 mg/kg
 - VOA BDL mg/kg to 106,000 mg/kg, median 1 mg/kg
 - Arsenic BDL mg/kg to 59 mg/kg
 - Barium BDL mg/kg to 1720 mg/kg
 - Cadmium BDL mg/kg to 13.2 mg/kg
 - Chromium BDL mg/kg to 64.33 mg/kg
 - Lead BDL mg/kg to 843 mg/kg
 - Mercury BDL mg/kg to 13.2 mg/kg
 - Selenium BDL mg/kg to 2.4 mg/kg
 - Silver BDL mg/kg to 7.3 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 — mg/kg
 - VOA BDL mg/kg to BDL mg/kg, median — mg/kg
 - Arsenic BDL mg/kg to 7.65 mg/kg
 - Barium 206 mg/kg to 782 mg/kg
 - Cadmium BDL mg/kg to 3 mg/kg
 - Chromium 1.71 mg/kg to 102 mg/kg
 - Lead 1.65 mg/kg to 32 mg/kg
 - Mercury BDL mg/kg to BDL mg/kg
 - Selenium BDL mg/kg to 2.72 mg/kg
 - Silver BDL mg/kg to 5 mg/kg
 - mg/kg to — mg/kg
 - mg/kg to — mg/kg

Comments: * GW data is submitted directly to Tallahassee.
No GW data was reviewed during the inspection

Jorge R. Patino
 Signature

9/17/98
 Date

Rinker Materials
September 1998 Inspection
Statistical Analysis of Untreated Soil Data for June 1998

VOA	TRPH			VOA	TRPH
1	4,300	Mean		3,227	13,275
1	25,000	Std error			
1	827	Median		1	2,800
1	53,000	Mode		1	2,100
1	6,100	Std Deviation		15,818	30,069
836	9,245	Sample Variance		250,195,361	904,147,917
1	2,100	Kurtosis		37	29
1	1,823	Skewness		6	5
1	50	Range		106,000	199,997
836	9,372	Minimum		1	3
4	130	Maximum		106,000	200,000
560	43,200	Sum		171,047	703,565
1	12,650	Count		53	53
1	34,000	Confidence Level			
1	13,000				
1	1,450				
8,833	21,000				
799	38,688				
106,000	200,000				
1	20,000				
1	100				
16	25				
1	4,000				
1	2,800				
47,200	3				
1	1,300				
1	1,440				
1	3,130				
1	68				
1	10,000				
4,128	10				
1	63				
1	3,800				
1	41,000				
250	122				
1	7				
298	201				
1	1,900				
1	3,200				
109	5,600				
49	32,000				
1	2,300				
258	61,900				
1	6,036				
1	618				
1	2,100				
836	12,460				
1	1,354				
1	1,634				
1	1,300				
1	5				
1	7,150				
1	5				

Date: 10/23/98 12:31:00 PM
From: Lee Martin WPB
Subject: Rinker file review

Steve Diamond/ENCON/973-783-0332 called this morning, he is working with Exxon and wants to review the files for Rinker's Cement Plant(soil thermal treatment fac) at 1200 NW 137 Ave, Miami. He is updating a previous audit he prepared for Exxon and had reviewed the files before in December 1996.

Judy, please schedule his file review for December 3, 1998 at 8:00 AM and since some of us may be out to the Contaminated Soils Forum in Hollywood, will you be available that morning to meet him? Jorge, Steve is primarily concerned with what has happened since January 1996 in the way of permits, NOV's, correspondence, and inspections. If you need any help pulling the files before the review just let me know, I'll be glad to help out.

PAW
9/21/98

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 September 14, 1998. As noted on the attached inspection report, the ground water monitoring well located near the northwest corner of the Material Screening Building was not locked during our inspection. Please note that ~~locking of all monitoring wells is~~ *Need to be* ~~required~~. Thank you for your continued cooperation.

kept secured and in good condition

If you have any questions or need further information, please contact Jorge R. Patino at 561-681-6726.

Sincerely,

Paul Alan Wierzbicki, P.G.
Waste Cleanup Supervisor

PAW/jrp

attch: STTF Inspection Report ^{*conducted*} dated 09/14/1998

cc: Paul Lasa, DERM, Miami
Tom Conrardy, DEP/BWC, Tallahassee
Zoe Kulakowski, DEP/BWC, Tallahassee
Jeff Smith, DEP/WPB
Don Emery, Rinker Materials, Miami
West Palm Beach File

Put on D&D
letterhead

SOIL THERMAL TREATMENT FACILITY INSPECTION REPORT

Idy - Stop date here.

1. TYPE INSPECTION: ☐ COMPLAINT ☒ ROUTINE ☐ FOLLOW-UP ☐ PERMITTING

2. FACILITY NAME Rinker Portland Cement Corp.

DER/EPA ID FLD981758485

Cinet
GMS ID date 10 69997

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

09/14/1998

TIME

10:30AM

4. TYPE OF FACILITY Thermal Soil Treatment Facility

5. DESCRIPTION OF OPERATION:

Facility Operations include limerock mining and contaminated soil processing to produce cement.

Rinker uses kilns fired by coal, natural gas, or used oil in production.

6. APPL. REGULATIONS: ☐ 62-2, F.A.C. ☒ 62-775, F.A.C.

7. RESPONSIBLE OFFICIAL: (Name and Title)

James Jenkins, Vice President

8. SURVEY PARTICIPANTS AND PRINCIPAL INSPECTOR:

Lee Martin and Jorge Patino, FDEP

Don Emery, 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

Check #
Should have more than one #

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

BACKGROUND INFORMATION:

pursuant to
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, 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. *Mr. Emery recently replaced David Maple as the contact person for this facility*

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

The afterburner system for the petroleum contaminated soils is in operation. Petroleum contaminated soils pass 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:

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*underline
add on
cover
letter
Z*

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RECORD KEEPING:

repeatedly

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SUMMARY:

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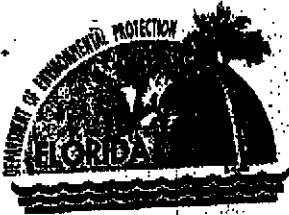
Noted

Are all the batches OK?? } They are for the
on the sort form? } spot checks
we made!

Sep 23 '98 14:18

OK

813052209875



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL

DATE 9/22/98 # OF PAGES 3
(including this page)

FROM: Jorge L. Roberts
681-6726

TO: Don Emergy

FAX NUMBER: 305-220-9875

AGENCY: SED - Waste Cleanup

COMMENTS: Please complete Sections B - H of the attached
form and return it to us via fax. We're trying to
prepare for a potential hurricane hit.
Thanks.

PHONE: (561) 681-6600
SUNCOM: 226-6600
FAX #: (561) 681-6770
SUNCOM: 226-6770



Department of Environmental Protection

Lawton Chiles
Governor

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

Virginia B. Wetherell
Secretary

FAX TRANSMITTAL

DATE: 9/22/98 # OF PAGES 3
(including this page)

FROM: George L. Roberts
681-6726

TO: Don Emery

FAX NUMBER: 305-220-9875

AGENCY: SED - Waste Cleanup

PHONE: (561) 681-6600
SUNCOM: 226-6600
FAX #: (561) 681-6770
SUNCOM: 226-6770

COMMENTS: Please complete Sections B - H of the attached
form and return it to me via fax. We're trying to
prepare for a potential hurricane hit.
Thanks.

5.5. SOIL THERMAL TREATMENT FACILITY.

5.5.1. PRE-DISASTER, SOIL THERMAL TREATMENT FACILITY.

1. DISASTER	2. TEAM MEMBER NAMES	3. AGENCY
Hurricane	Jim Harmon Jorge Patino	FDEP, SED WASTE MANAGEMENT
4. TEAM NUMBER	5. LOCATION ASSESSED	6. DATE/TIME
W001		
7. THREATCON	8. INITIAL OR FOLLOW-UP REPORT	9. FACILITY RANKING

A. (1) FACILITY:

Bunker Materials

(2) Address:

1200 NW 137 Avenue, Miami, FL 33182

(3) Contact Person:

Don Emery

(4) Telephone:

305-225-1423 or 800-226-7647

Fax: 305-220-9875

(5) Lat/Long:

25°46'57" / 80°25'20"

(6) Facility ID or Permit Number:

5013-290034 / 5013-300512

B. HURRICANE PREPAREDNESS:

(1) Does the facility have a formal Hurricane Plan?

YES

NO

(2) If so, describe the general elements of the plan which may relate to potential sources of concern to FDEP (prevention, notifications, resources, etc.):

C. Is the facility still accepting contaminated soil?

YES

NO

If "YES", when will the facility stop accepting?

D. Is the facility still processing contaminated soil?

YES

NO

If "YES", when will the facility stop processing?

(1) Is storage of untreated and treated soil adequate according to the facility?

YES

NO

(2) How long will the facility operate prior to the storm event?

E. What is the emergency telephone number for a facility contact during/after the event?
Is there an alternate telephone number outside of the projected impact area?

Emergency contact:

phone number:

Alternate contact:

phone number:

F. What steps are being taken to protect facility records from damage?

G. Will the facility require any assistance from FDEP prior to the storm event?

If so, what type of assistance?

NOTE: INFORM THE FACILITY THAT FDEP WILL BE PHONING AND OR VISITING THE FACILITY
SHORTLY AFTER THE EMERGENCY IN ORDER TO INSPECT AND DETERMINE FACILITY
COMPLIANCE. THE INSPECTION WILL ALSO HELP THE FDEP TO DETERMINE IF ANY SPECIAL
ASSISTANCE MAY BE REQUIRED.

H. ADDITIONAL COMMENTS:

(NOTE: Interviewer must determine the ranking, i.e., 1 - 4, of the facility and enter the ranking in the BOX
labeled FACILITY RANKING)

Florida Department of Environmental Regulation

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

Month June Year: 1998

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.

Air Permit No.: A013-172164

Soil Treatment Permit No.: SW-01117-97

Stationary XXX or Mobile Facility:

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

1	2	3	4	5										6	7	8	9	
			Amount	Analytical Results														
			Sample Vol. or	Metals												Totals		
Date	Reporting ID#	Number	Wt. cy/m	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only			
6/1/98	3002937 - 199800079	1.	30.25	3.7	BDL	0.46	7.2	69	BDL	2.4	BDL	BDL	4300	BDL				
6/1/98	3002944 - 199800003	1.	14.97	BDL	16	23	13	30	BDL	BDL	BDL	BDL	25000	BDL				
6/1/98	3017655 - 199800005	5	451.80	4.37	13.07	0.17	9.26	24.23	0.851	BDL	2.04	BDL	827	BDL				
6/1/98	3026898 - 199800001	1.	14.83	BDL	16	4.7	23	56	33	1.9	BDL	BDL	53000	BDL				
6/1/98	3026896 - 199800002	1.	10.7	35	13	92	7.0	100	BDL	BDL	BDL	BDL	6100	BDL				
6/2/98	3002894 - 199800034	1.	23.21	1.5	254	1.8	10.3	45	0.10	BDL	2.5	836	9245	BDL				
6/3/98	3002937 - 199800075	1.	92.08	BDL	BDL	1.2	8.2	190	BDL	BDL	BDL	BDL	2100	BDL				
6/3/98	3002937 - 199800078	3	65.03	5.7	13.67	0.18	6.27	123.30	BDL	BDL	BDL	BDL	1823.33	BDL				
6/3/98	3002937 - 199800080	1.	43.49	BDL	BDL	0.60	6.5	84	BDL	BDL	BDL	BDL	50	BDL				
6/3/98	3002937 - 199800085	1.	14.80	1.1	310	1.6	15.1	48.9	0.11	BDL	2.1	836	9372	BDL				
6/3/98	3016561 - 199800001	3	441.67	BDL	2.91	BDL	.77	2.90	BDL	BDL	BDL	4.33	130	BDL				
6/4/98	3002928 - 199800004	1.	149.94	<0.05	0.79	<0.53	2.89	<0.53	<0.028	<0.053	<0.53	560	43200	BDL				
6/4/98	3002937 - 199800076	3	287.29	0.53	24.9	BDL	5.87	6.98	BDL	BDL	BDL	BDL	12680	BDL				
6/4/98	3002937 - 199800077	1.	132.02	8.4	9.4	0.76	12.0	180	BDL	BDL	BDL	BDL	34000	BDL				
6/4/98	3002937 - 199800084	1.	18.89	2.1	19	0.45	7.5	BDL	BDL	BDL	BDL	BDL	13000	BDL				
6/4/98	3025735 - 199800001	1.	52.40	1.1	349	13.2	6.9	843	BDL	BDL	1.7	BDL	1450	BDL				
6/4/98	3026913 - 199800001	1.	27.32	2.8	153	1.3	42.7	46.1	13.2	BDL	1.4	8833	21000	.068				
6/5/98	3026907 - 199800001	5	747.38	0.80	19.63	0.09	0.59	20.79	<0.10	<0.10	0.03	789	38688	BDL				
6/9/98	3002894 - 199800035	1.	11.73	6.5	27	BDL	19	89	0.31	BDL	BDL	106000	200000	BDL				
6/9/98	3002937 - 199800081	3	98.24	7.1	23.75	1.2	6.4	40.25	BDL	BDL	BDL	BDL	20000	BDL				
6/9/98	3002944 - 199800004	12	5426.85	19.2	226.33	0.68	64.33	663	BDL	BDL	BDL	BDL	100	BDL				
6/10/98	3002855 - 199800011	1.	24.86	.59	8.20	0.15	5.74	13.9	BDL	0.09	1.26	15.5	25.0	BDL				
6/11/98	3002937 - 199800082	1.	26.42	1.4	4.7	.94	19	470	BDL	BDL	BDL	BDL	4000	BDL				

Month June Year: 1998

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: RINKER MATERIALS CORP.
Air Permit No.: A013-172164
Soil Treatment Permit No.: SW-01117-97
Stationary XXX or Mobile Facility:

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

1	2	3	4	5										6	7	8	9
			Amount	Analytical Results													
Date	Reporting ID#	Sample	Vol. or	Metals										Totals			Indicate Other Analyses
		Number	Wt. cwt	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Attach Lab Results Only		
6/11/98	3003039 - 199800008	1.	56.98	BDL	BDL	BDL	BDL	4.5	BDL	BDL	BDL	BDL	0.500	2800.	BDL.		
6/11/98	3003055 - 199800002	1.	15.83	0.6	BDL	2.	3.	3.	0.2	BDL	1.	47200.	3.	BDL.			
6/12/98	0698C-01 - 199800001	1.	39.52	BDL	1720.	BDL	6.2	12.	BDL	BDL	7.3	BDL	1300.	BDL.			
6/12/98	3002994 - 199800005	1.	34.85	BDL	1.40	BDL	1.4	68.	BDL	BDL	BDL	BDL	1440.	BDL.			
6/12/98	3026911 - 199800003	1.	7.71	BDL	BDL	BDL	BDL	4.90	BDL	BDL	BDL	BDL	3129.5	BDL.			
6/13/98	3026926 - 199800008	1.	86.14	2.0	43.6	0.09	23.2	531.	0.09	BDL	BDL	BDL	68.	BDL.			
6/15/98	3002937 - 199800083	1.	20.63	1.6	4.7	1.6	4.5	150.	BDL	BDL	BDL	BDL	10000.	BDL.	✖		
6/15/98	3003055 - 199800001	3.	178.69	1.4	BDL	1.0	6.9	2.7	0.2	BDL	1.0	4127.5	10.	BDL.			
6/16/98	3026983 - 199800008	1.	16.53	0.8	6.4	BDL	5.6	4.9	BDL	BDL	BDL	BDL	63.	BDL.			
6/17/98	3002937 - 199800086	1.	29.47	BDL	9.9	6.1	3.9	220.	BDL	BDL	BDL	BDL	3800.	BDL.			
6/17/98	3002943 - 199800001	1.	13.49	BDL	9.1	1.2	4.7	9.4	BDL	BDL	BDL	BDL	41000.	BDL.			
6/17/98	3026993 - 199800002	1.	15.80	0.539	4.29	1.24	3.59	2.15	<.0010	0.261	2.32	250.	122.	BDL.			
6/18/98	3026985 - 199800001	1.	.75	1.2	125.	3.0	10.	67.	0.23	0.4	2.25	BDL	7.1	BDL.			
6/18/98	3026901 - 199800003	6.	182.53	0.48	53.43	BDL	9.18	65.60	BDL	0.75	BDL	297.5	200.5	BDL.			
6/19/98	3002937 - 199800091	1.	41.02	1.1	6.5	8.1	14.	560.	BDL	BDL	BDL	BDL	1900.	BDL.			
6/22/98	3002937 - 199800087	1.	49.17	1.6	86.	0.32	5.4	7.5	BDL	BDL	BDL	BDL	3200.	BDL.			
6/23/98	3002928 - 199800005	1.	22.97	.673	<1.58	<.792	<1.58	7.53	<0.04	<0.08	1.58	108.90	5600.	BDL.			
6/24/98	3002943 - 199800002	1.	12.97	1.4	42.	BDL	10.	28.	BDL	BDL	BDL	49.	32000.	BDL.			
6/25/98	3002937 - 199800089	1.	18.99	0.76	8.	1.0	4.9	180.	BDL	BDL	BDL	BDL	2300.	BDL.			
6/25/98	3003026 - 199800004	1.	14.31	BDL	99.	2.10	13.	21.	BDL	BDL	BDL	257.73	61900.	BDL.			
6/26/98	3002937 - 199800092	1.	38.31	6.88	28.4	1.31	8.46	105.6	0.11	BDL	BDL	BDL	6036.	BDL.			
6/26/98	3026911 - 199800002	1.	6.75	BDL	16.1	0.08	7.9	1.7	BDL	BDL	BDL	BDL	617.5	BDL.			
6/28/98	3002851 - 199800002	1.	30.08	0.8	18.2	0.12	16.9	17.2	BDL	BDL	BDL	BDL	2100.	BDL.			

Month June Year: 1998

Soil Thermal Treatment Facility Untreated Soil Reporting Form

Name of Facility: **RINKER MATERIALS CORP.**
Air Permit No.: **A013-172164**
Soil Treatment Permit No.: **SW-01117-97**
Stationary **XXX** or Mobile Facility: _____

DER Form #	17-776.800(2)
Soil Thermal Treatment Facility	
Form Title	Untreated Soil Reporting Form
Effective Date:	
DER Application No.:	

1	2	3	4	5										6	7	8	9
				Analytical Results													
				Metals										Totals			
Date	Reporting ID#	Sample Number	Vol. or Wt. cy/tn	AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	VOH	Indicate Other Analyses Attach Lab Results Only		
6/29/98	3002894 - 199800037	1.	54.69	7.2	70.6	0.38	12.1	78.3	0.11	BDL	BDL	BDL	836	12460	BDL		
6/29/98	3002897 - 199800088	3.	58.44	2.3	BDL	.33	3.83	120	BDL	BDL	BDL	BDL	BDL	1354	BDL		
6/30/98	3002894 - 199800036	1.	36.35	BDL	2.2	0.03	0.9	0.8	BDL	BDL	BDL	BDL	BDL	1634	BDL		
6/30/98	3002897 - 199800090	1.	42.22	4.9	7.4	8.4	4.5	620	BDL	BDL	BDL	BDL	BDL	1300	BDL		
6/30/98	3002976 - 199800001	1.	86.57	1.48	7.23	1.19	6.52	25.1	<0.002	<0.233	<0.119	BDL	<5.0	BDL			
6/30/98	3003039 - 199800007	1.	16.02	BDL	6.80	BDL	4.20	16	BDL	BDL	BDL	BDL	BDL	7190	BDL		
6/30/98	3025069 - 199800001	1.	18.53	0.91	9.4	0.030	11.	45	<0.050	<0.24	<0.50	BDL	<5.0	BDL			

* See attachment "A"
** See attachment "B"

**Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form**

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

**ATTACHMENT "A"
Metals Blending Report**

Month June Year 98

1	2	3	4	5										6				7	8
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										Totals				Source	
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH						
25-Jun																			
3002937-	199800089																		
untreated	analysis			0.76	8	1	4.9	190	BDL	BDL	BDL	BDL	BDL			FPL MOFFET			
blending	soil							BDL								Blended 1 - 1			
blending	soil							37.3											
1-Jun																			
3026896-	199800002																		
untreated	analysis			35	13	0.92	7	100	BDL	BDL	BDL	BDL	BDL			FPL MIAMI BEACH			
blending	soil			BDL												Blended 3 - 1			
blending	soil			2.6															
3-Jun																			
3002937-	199800075																		
untreated	analysis			BDL	BDL	1.2	8.2	190	BDL	BDL	BDL	BDL	BDL			FPL COLLIER SUB			
blending	soil							BDL								Blended 1 - 1			
blending	soil							2.4											
3-Jun																			
3002937-	199800078																		
untreated	analysis			5.7	13.67	0.18	6.27	123.3	BDL	BDL	BDL	BDL	BDL			FPL NORMANDY			
blending	soil							BDL								Blended 1 - 1			
blending	soil							3											

**Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form**

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

**ATTACHMENT "A"
Metals Blending Report**

Month June Year 98

1		2		3		4		5							
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tu	Analytical Results											
				Metals				Totals				Source			
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH		
13-Jun															
3026926-	199800008														
untreated	analysis														
blending	soil			2	43.6	0.09	23.2	531	0.09	BDL	BDL	BDL	BDL	BRICKLAND TRANS	
blending	soil							BDL						Blended 6 - 1	
								BDL							
15-Jun															
3002937-	199800083														
untreated	analysis													FPL IVES SUB	
blending	soil			1.6	4.7	1.6	4.5	150	BDL	BDL	BDL	BDL	BDL	Blended 1 - 1	
blending	soil							BDL							
								34.7							
17-Jun															
3002937-	199800086														
untreated	analysis													FPL PERRY	
blending	soil							220	BDL	BDL	BDL	BDL	BDL	Blended 2 - 1	
blending	soil							BDL							
								35.5							
19-Jun															
3002937-	199800091														
untreated	analysis													FPL HIGHLAND	
blending	soil			1.1	6.5	9.1	14	560	BDL	BDL	BDL	BDL	BDL	Blended 5 - 1	
blending	soil							BDL							
								39.5							

**Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form**

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

**ATTACHMENT "A"
Metals Blending Report**

Month June Year 98

1 Day of Month	2 Soil Batch ID#	3 Sample Number	4 Amount Volume or Weight cy/tn	5 Analytical Results											Source		
				Metals								Totals					
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH				
4-Jun																	
3002937-	199800077																
untreated	analysis																
blending	soil																
blending	soil																
				8.4	9.4	0.76	12	180	BDL	BDL	BDL	BDL	BDL	BDL	BDL		FPL 40TH STREET Blended 1 - 1
				.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....	.....	.....
				.....	.....	.....	.....	2.8	.....	.....	.....	.....	.....	.....	.....
					
4-Jun																	
3025735-	199800001																
untreated	analysis																
blending	soil																
blending	soil																
				1.1	349	13.2	6.9	843	BDL	BDL	BDL	BDL	BDL	BDL	1.7		CHAVEZ AUTO Blended 8 - 1
				.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....	.....	.....
				.....	.....	.....	.....	2.7	.....	.....	.....	.....	.....	.....	.....
					
9-Jun																	
3002944-	199800004																
untreated	analysis																
blending	soil																
blending	soil																
				19.2	226.33	0.68	64.33	653	BDL	BDL	BDL	BDL	BDL	BDL	BDL		FPL CUTLER Blended 6 - 1
				BDL	.....	.....	BDL	BDL	.....	.....	.....	.....	.....	.....	.....
				8.2	.....	.....	28.9	35.5	.....	.....	.....	.....	.....	.....	.....
					
11-Jun																	
3002937-	199800082																
untreated	analysis																
blending	soil																
blending	soil																
				1.4	4.7	0.94	19	470	BDL	BDL	BDL	BDL	BDL	BDL	BDL		FPL GOLDEN GLDES Blended 4 - 1
				.....	.....	.....	.....	BDL	.....	.....	.....	.....	.....	.....	.....
				.....	.....	.....	.....	2.3	.....	.....	.....	.....	.....	.....	.....

**Florida Department of Environmental Regulation
Soil Thermal Treatment Facility
Untreated Soil Reporting Form**

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

**ATTACHMENT "A"
Metals Blending Report**

Month June Year 98

1	2	3	4	5								6	7	8
Day of Month	Soil Batch ID#	Sample Number	Amount Volume or Weight cy/tn	Analytical Results										Source
				Metals				Totals						
				AS	BA	CD	CR	PB	HG	SE	AG	VOA	RPH	
29-Jun														
3002937-	199800088													
untreated	analysis			2.3	BDL	0.33	3.83	120	BDL	BDL	BDL	BDL		FPL BEVERLY SUM
blending	soil							BDL						Blended 1 - 1
blending	soil							108						
30-Jun														
3002937-	199800090													
untreated	analysis			4.9	7.4	8.4	4.5	620	BDL	BDL	BDL	BDL		FPL HOLLYWOOD
blending	soil							BDL						Blended 6 - 1
blending	soil							33.8						
untreated	analysis													
blending	soil													
blending	soil													
untreated	analysis													
blending	soil													
blending	soil													

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

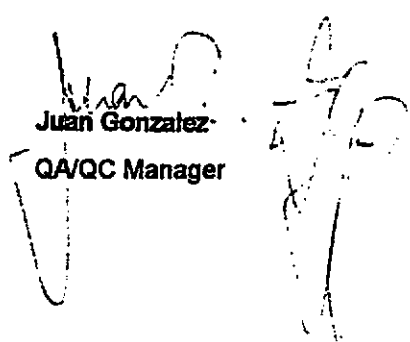
Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/4/98
SAMPLE SOURCE FPL - 40th STREET
REFERENCE # 3002937-98 077
R.E.S. NUMBER 10126/10127
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	3.1	BDL	2.8	mg/kg	7420	1	100	7/9/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/4/98
SAMPLE SOURCE CHAVES USED AUTO
REFERENCE # 3025735-98001
R.E.S. NUMBER 10124/10125
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	2.5	BDL	2.7	mg/kg	7420	1	100	7/9/98	PEP

BLEND = 1 Contaminated With 8 CLEAN

BDL = Below detection limit



Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #EB8536

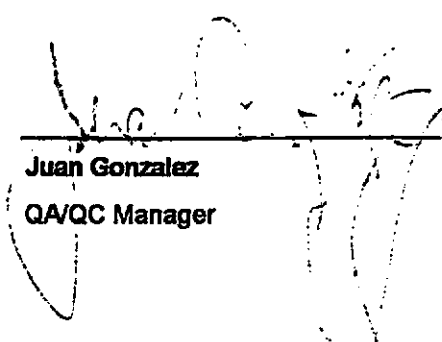
Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/11/98
SAMPLE SOURCE FPL - GOLDEN GLADES
REFERENCE # 3002937-98082
R.E.S. NUMBER 10122/10123
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	2.6	BDL	2.3	mg/kg	7420	1	100	7/9/98	PEP

BLEND = 1 Contaminated With 4 CLEAN

BDL = Below detection limit



Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/17/98
SAMPLE DATE
SAMPLE SOURCE FPL MOFFET
REFERENCE # 3002937-98089
R.E.S. NUMBER 10283
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	291	BDL	37.3	mg/kg	7420	1	100	7/16/98	JSP

BLEND = 1 Contaminated With

CLEAN

BDL = Below detection limit



Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMQAP #950491
HRS #E88536

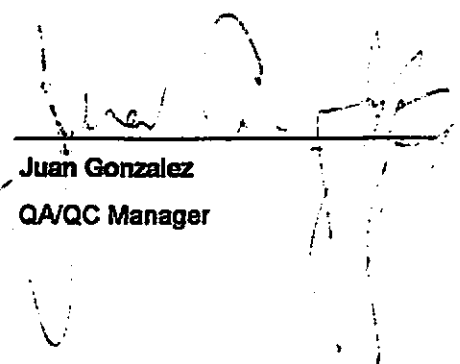
Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/1/98
SAMPLE SOURCE FPL - MIAMI BEACH
REFERENCE # 3026896-98002
R.E.S. NUMBER 10120/10121
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	2.4	BDL	2.6	mg/kg	7061	1	10	7/9/98	PEP

BLEND = 1 Contaminated With 4 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/2/98
SAMPLE SOURCE FPL - COLLIER
REFERENCE # 3002937-98075
R.E.S. NUMBER 10130/10131
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	2.5	BDL	2.4	mg/kg	7420	1	100	7/9/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/2/98
SAMPLE SOURCE FPL - NORMANDY
REFERENCE # 3002937-98078
R.E.S. NUMBER 10128/10129
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REQ.	DATE	INITIAL
LEAD	3.0	BDL	3.0	mg/kg	7420	1	100	7/9/98	PEP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491

HRS #E88536

Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/12/98
SAMPLE SOURCE BRICKLAND TRANSPORT
REFERENCE # 3026926-98008
R.E.S. NUMBER 10227/10228
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	531	BDL	BDL	mg/kg	7420	1	100	7/6/98	PEP

BLEND = 1 Contaminated With 1. CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPOAP #950491
HRS #E88538

Material Analysis Report

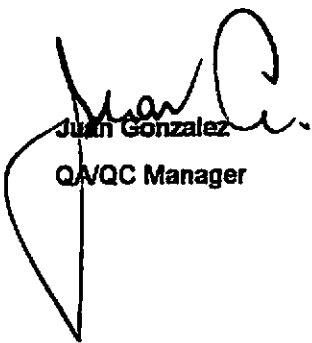
REPORT DATE 7/17/98
SAMPLE DATE
SAMPLE SOURCE FPL IVES
REFERENCE # 3002937-98083
R.E.S. NUMBER 10284
SAMPLE TYPE SOIL

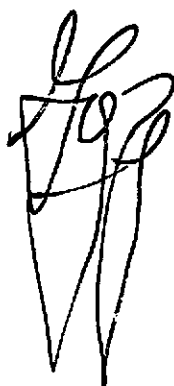
PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	122	BDL	34.7	mg/kg	7420	1	100	7/16/98	JSP

BLEND = 1 Contaminated With

CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager



RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

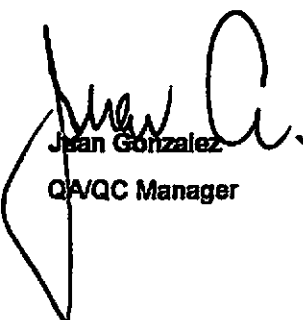
REPORT DATE 7/17/98
SAMPLE DATE
SAMPLE SOURCE FPL PERRY
REFERENCE # 3002937-98086
R.E.S. NUMBER 10282
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	127	BDL	35.5	mg/kg	7420	1	100	7/16/98	JSP

BLEND = 1 Contaminated With

CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager



RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/17/98
SAMPLE DATE
SAMPLE SOURCE FPL HIGHLAND
REFERENCE # 3002937-98091
R.E.S. NUMBER 10285
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	118	BDL	39.5	mg/kg	7420	1	100	7/16/98	JSP

BLEND = 1 Contaminated With

CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E88536

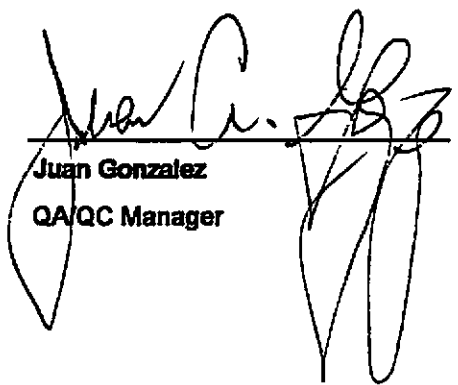
Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE 6/29/98
SAMPLE SOURCE FPL BEVERLY
REFERENCE # 3002937-98088
R.E.S. NUMBER 10197/10198
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	229	BDL	108	mg/kg	7420	1	100	7/14/98	JSP

BLEND = 1 Contaminated With 1 CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/17/98
SAMPLE DATE
SAMPLE SOURCE FPL HOLLYWOOD
REFERENCE # 3002937-98090
R.E.S. NUMBER 10286
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
LEAD	135	BDL	33.8	mg/kg	7420	1	100	7/16/98	JSP

BLEND = 1 Contaminated With

CLEAN

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

RINKER Environmental Services, INC.

COMPQAP #950491
HRS #E86536

Material Analysis Report

REPORT DATE 7/15/98
SAMPLE DATE
SAMPLE SOURCE FPL - CUTLER
REFERENCE # 3002944-98004
R.E.S. NUMBER 10132/10133/10282
SAMPLE TYPE SOIL

PARAMETER	RESULTS	RESULT	RESULT	UNITS	METHOD	LIMITS		ANALYSIS	ANALYST
	CONT.	CLEAN	BLEND			DET.	REG.	DATE	INITIAL
ARSENIC	6.6	BDL	8.2	mg/kg	7061	1	10	7/14/98	JSP
LEAD	412	BDL	35.5	mg/kg	7420	1	100	7/14/98	JSP
CHROMIUM	31.1	BDL	28.9	mg/kg	7190	1	50	7/14/98	JSP

BLEND = 1 Contaminated With 1 CLEAN (As,Pb,Cr)

BDL = Below detection limit


Juan Gonzalez
QA/QC Manager

Untreated Soil Reporting Form

Facility Rinker Materials Corp.
 Air Permit No: A013-172154
 Soil Treatment Permit No: SW-01117-91
 Stationary xxx

Month JUNE Year 1998

ATTACHMENT "B"

Date	Batch No.	Source	Soil Content	Ton	PCB Oil Concentration	Lb. PCB per Batch	YTD Lbs. PCB
6/01/98	3002944-9800003	FPL 709 - 21 HOLLYWOOD	1.7 PPM	14.97	6.6 PPM	MAY YTD ......0509 LBS	2.613 LBS 2.6639 LBS
6/03/98	3002937-9800078	FPL NORMANDY SUB	.2 PPM	65.03	12.33 PPM	.0260 LBS	2.6899 LBS
6/04/98	3002937-9800077	FPL SHERIDAN SUB	1.1 PPM	132.02	< 3 PPM	.2904 LBS	2.9803 LBS
6/09/98	3002937-9800081	FPL INDIAN CRK MIAMI BCH	.166 PPM	98.24	8.5 PPM	.0326 LBS	3.0129 LBS
6/29/98	3002937-9800088	FPL BEVERLY SUB	.133 PPM	58.44	17.33 PPM	.0155 LBS	3.0284 LBS
6/30/98	3002937-9800090	FPL HOLLYWOOD SUB	.640 PPM	42.22	6.6 PPM	.0540 LBS	3.0824 LBS

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

		Month		Year																																																									
		6		7																																																									
Day of Month	7-1	Sample Number	42	Length of Run Hours	168																																																								
Soil Batch ID#	7-1	Amount of Run Volume or Weight	1.85	Amount of Run Volume or Weight	1.85																																																								
<table border="1"> <tr> <th colspan="2">Total Metals</th> <th colspan="10">TCLP Metals</th> </tr> <tr> <td>As</td><td>1.85</td><td>Cd</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Se</td><td>0.01</td><td>Ag</td><td>0.01</td><td>VOA</td><td>0.01</td><td>RPH</td><td>0.01</td><td>PAH</td><td>0.01</td><td>TOH</td><td>0.01</td> </tr> <tr> <td>Be</td><td>0.01</td><td>Phenols</td><td>0.01</td><td>Dibenzofuran</td><td>0.01</td><td>Be</td><td>0.01</td><td>As</td><td>0.01</td><td>Ag</td><td>0.01</td><td>Se</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Cd</td><td>0.01</td> </tr> </table>						Total Metals		TCLP Metals										As	1.85	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01	Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01
Total Metals		TCLP Metals																																																											
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Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01																																								
Day of Month	7-2	Sample Number	42	Length of Run Hours	168																																																								
Soil Batch ID#	7-2	Amount of Run Volume or Weight	1.68	Amount of Run Volume or Weight	1.68																																																								
<table border="1"> <tr> <th colspan="2">Total Metals</th> <th colspan="10">TCLP Metals</th> </tr> <tr> <td>As</td><td>1.68</td><td>Cd</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Se</td><td>0.01</td><td>Ag</td><td>0.01</td><td>VOA</td><td>0.01</td><td>RPH</td><td>0.01</td><td>PAH</td><td>0.01</td><td>TOH</td><td>0.01</td> </tr> <tr> <td>Be</td><td>0.01</td><td>Phenols</td><td>0.01</td><td>Dibenzofuran</td><td>0.01</td><td>Be</td><td>0.01</td><td>As</td><td>0.01</td><td>Ag</td><td>0.01</td><td>Se</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Cd</td><td>0.01</td> </tr> </table>						Total Metals		TCLP Metals										As	1.68	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01	Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01
Total Metals		TCLP Metals																																																											
As	1.68	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01																																								
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Day of Month	7-3	Sample Number	42	Length of Run Hours	168																																																								
Soil Batch ID#	7-3	Amount of Run Volume or Weight	1.93	Amount of Run Volume or Weight	1.93																																																								
<table border="1"> <tr> <th colspan="2">Total Metals</th> <th colspan="10">TCLP Metals</th> </tr> <tr> <td>As</td><td>1.93</td><td>Cd</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Se</td><td>0.01</td><td>Ag</td><td>0.01</td><td>VOA</td><td>0.01</td><td>RPH</td><td>0.01</td><td>PAH</td><td>0.01</td><td>TOH</td><td>0.01</td> </tr> <tr> <td>Be</td><td>0.01</td><td>Phenols</td><td>0.01</td><td>Dibenzofuran</td><td>0.01</td><td>Be</td><td>0.01</td><td>As</td><td>0.01</td><td>Ag</td><td>0.01</td><td>Se</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Cd</td><td>0.01</td> </tr> </table>						Total Metals		TCLP Metals										As	1.93	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01	Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01
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As	1.93	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01																																								
Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01																																								
Day of Month	7-4	Sample Number	42	Length of Run Hours	168																																																								
Soil Batch ID#	7-4	Amount of Run Volume or Weight	7.65	Amount of Run Volume or Weight	7.65																																																								
<table border="1"> <tr> <th colspan="2">Total Metals</th> <th colspan="10">TCLP Metals</th> </tr> <tr> <td>As</td><td>7.65</td><td>Cd</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Se</td><td>0.01</td><td>Ag</td><td>0.01</td><td>VOA</td><td>0.01</td><td>RPH</td><td>0.01</td><td>PAH</td><td>0.01</td><td>TOH</td><td>0.01</td> </tr> <tr> <td>Be</td><td>0.01</td><td>Phenols</td><td>0.01</td><td>Dibenzofuran</td><td>0.01</td><td>Be</td><td>0.01</td><td>As</td><td>0.01</td><td>Ag</td><td>0.01</td><td>Se</td><td>0.01</td><td>Hg</td><td>0.01</td><td>Pb</td><td>0.01</td><td>Cr</td><td>0.01</td><td>Cd</td><td>0.01</td> </tr> </table>						Total Metals		TCLP Metals										As	7.65	Cd	0.01	Cr	0.01	Pb	0.01	Hg	0.01	Se	0.01	Ag	0.01	VOA	0.01	RPH	0.01	PAH	0.01	TOH	0.01	Be	0.01	Phenols	0.01	Dibenzofuran	0.01	Be	0.01	As	0.01	Ag	0.01	Se	0.01	Hg	0.01	Pb	0.01	Cr	0.01	Cd	0.01
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Day of Month	7-5	Sample Number	42	Length of Run Hours	168																																																								
Soil Batch ID#	7-5	Amount of Run Volume or Weight	7.65	Amount of Run Volume or Weight	7.65																																																								
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Name of Facility: RINKER MATERIALS CORP
Air Permit No: A013-172154
Soil Treatment Permit No: SW-0111791
Stationary, XXX or Mobile Facility:

Day of Month		Sample Number		Length of Run Hours		Amount Volume or Weight cy/m		Month Year										
5/23		42		168				6 7 8 9 10 11										
Analytical Results								TCLP Metals										
Total Metals								Total Metals										
As 2.8								As 0.07										
Ba 26.7								Ba 0.01										
Be 0.01								Be 0.01										
Cd 0.01								Cd 0.01										
Cr 0.01								Cr 0.01										
Cu 0.01								Cu 0.01										
Hg 0.01								Hg 0.01										
Pb 0.01								Pb 0.01										
Se 0.01								Se 0.01										
V 0.01								V 0.01										
Zn 0.01								Zn 0.01										
TOH 0.01								TOH 0.01										
6/1		42		168				6 7 8 9 10 11										
Analytical Results								TCLP Metals										
Total Metals								Total Metals										
As 7.3								As 0.01										
Ba 25.6								Ba 0.01										
Be 0.01								Be 0.01										
Cd 0.01								Cd 0.01										
Cr 0.01								Cr 0.01										
Cu 0.01								Cu 0.01										
Hg 0.01								Hg 0.01										
Pb 0.01								Pb 0.01										
Se 0.01								Se 0.01										
V 0.01								V 0.01										
Zn 0.01								Zn 0.01										
TOH 0.01								TOH 0.01										
6-14		42		168				6 7 8 9 10 11										
Analytical Results								TCLP Metals										
Total Metals								Total Metals										
As 5.8								As 0.01										
Ba 25.8								Ba 0.01										
Be 0.01								Be 0.01										
Cd 0.01								Cd 0.01										
Cr 0.01								Cr 0.01										
Cu 0.01								Cu 0.01										
Hg 0.01								Hg 0.01										
Pb 0.01								Pb 0.01										
Se 0.01								Se 0.01										
V 0.01								V 0.01										
Zn 0.01								Zn 0.01										
TOH 0.01								TOH 0.01										
6-21		42		168				6 7 8 9 10 11										
Analytical Results								TCLP Metals										
Total Metals								Total Metals										
As 4.3								As 0.01										
Ba 33.5								Ba 0.01										
Be 0.01								Be 0.01										
Cd 0.01								Cd 0.01										
Cr 0.01								Cr 0.01										
Cu 0.01								Cu 0.01										
Hg 0.01								Hg 0.01										
Pb 0.01								Pb 0.01										
Se 0.01								Se 0.01										
V 0.01								V 0.01										
Zn 0.01								Zn 0.01										
TOH 0.01								TOH 0.01										
6-22		42		168				6 7 8 9 10 11										
Analytical Results								TCLP Metals										
Total Metals								Total Metals										
As 4.4								As 0.01										
Ba 30.4								Ba 0.01										
Be 0.01								Be 0.01										
Cd 0.01								Cd 0.01										
Cr 0.01								Cr 0.01										
Cu 0.01								Cu 0.01										
Hg 0.01								Hg 0.01										
Pb 0.01								Pb 0.01										
Se 0.01								Se 0.01										
V 0.01								V 0.01										
Zn 0.01								Zn 0.01										
TOH 0.01								TOH 0.01										

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

		Month		Year																																																																																										
		6		7																																																																																										
Day of Month	Soil Batch ID#	Sample Number	Length of Run Hours	Amount Volume or Weight cy/tn																																																																																										
4/20		42	168																																																																																											
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Reported: 09 JAN 98Ms. Cynthia Zinni
FPL, Central Lab
P.O. Box 078768
West Palm Beach, FL 33407-0768Project: 049667
Sampled By: Client
Code: 09208019
Page 3

REPORT OF RESULTS

LOG NO	SAMPLE DESCRIPTION , SOLID OR SEMISOLID SAMPLES				DATE/ TIME SAMPLED
52771-6	491275001 (Ravenswood) <i>Dr</i>				12-11-97/1615
52771-7	491557006				12-11-97/1625
52771-8	491375005 (Hollywood) <i>Dr</i>				12-11-97/1320
52771-9	491376001				12-11-97/1330
52771-10	491583007				12-11-97/1340
PARAMETER	52771-6	52771-7	52771-8	52771-9	52771-10
PCB's in Solid Matrix					
Aroclor-1016, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1221, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1232, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1242, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1248, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1254, ug/kg dw	<20	<20	<20	<20	<20
Aroclor-1260, ug/kg dw	38	<20	64	34	<20
Date Extracted	12.17.97	12.17.97	12.17.97	12.17.97	12.17.97
Date Analyzed	12.19.97	12.18.97	12.18.97	12.19.97	12.18.97
Method Number	EPA 8080	EPA 8080	EPA 8080	EPA 8080	EPA 8080
Dilution factor	1	1	1	1	1
Petroleum Hydrocarbons by GC (FL PRO)					
Petroleum Hydrocarbons (FL PRO), mg/kg dw	280	24	1300	4000	600
Date Extracted	12.18.97	12.18.97	12.18.97	12.18.97	12.18.97
Date Analyzed	12.19.97	12.19.97	12.19.97	12.19.97	12.19.97
Method Number	FL-PRO	FL-PRO	FL-PRO	FL-PRO	FL-PRO
Arsenic (7060)					
Arsenic, mg/kg dw	<0.70	<0.70	4.9	10	1.2
Date Analyzed	01.02.98	12.30.97	01.02.98	12.30.97	12.30.97
Method Number	EPA 7060	EPA 7060	EPA 7060	EPA 7060	EPA 7060

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52771-9	491376001					12-11-97/1330
52771-10	491583007					12-11-97/1340
PARAMETER	52771-6	52771-7	52771-8	52771-9	52771-10	
Chromium (6010)						
Chromium, mg/kg dw	1.9	1.7	4.5	1.4	6.0	
Date Analyzed	12.30.97	12.30.97	12.19.97	12.30.97	12.30.97	
Method Number	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010	
Lead (7421)						
Lead, mg/kg dw	52	59	* 620	140	490	
Date Analyzed	12.26.97	01.05.98	12.26.97	01.05.98	01.05.98	
Method Number	EPA 7421	EPA 7421	EPA 7421	EPA 7421	EPA 7421	
Percent Solids, %	95	96	93	94	95	

SL SAVANNAH LABORATORIES & ENVIRONMENTAL SERVICES, INC.

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

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REPORT OF RESULTS

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52771A-1	491648001 (Pinehurst)				12-12-97/0955
52771A-2	491649008				12-12-97/1005
52771A-3	491728005 (Rohan)				12-12-97/0920
52771A-4	491375005 (Hollywood)				12-11-97/1320
52771A-5	491583007				12-11-97/1340
PARAMETER	52771A-1	52771A-2	52771A-3	52771A-4	52771A-5
Lead (TGLP) (6010)					
Lead (TGLP), mg/l	0.50	0.14	4.7	0.78	0.68
Date Analyzed	01.16.98	01.16.98	01.19.98	01.16.98	01.16.98
Method Number	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010

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52771A-24	491576001 (Ojus)				12-08-97/1120
52771A-25	491376001 (Hollywood)				12-11-97/1330
52771A-26	491161005 (Hialeah)				12-10-97/1355
52771A-27	490952				12-10-97/1410
52771A-28	491647005 (Miami Shores)				12-08-97/1450
PARAMETER	52771A-24	52771A-25	52771A-26	52771A-27	52771A-28
Arsenic (TCLP) (6010)					
Arsenic (TCLP), mg/l	<0.050	<0.050	0.063	<0.050	<0.050
Date Analyzed	01.19.98	01.16.98	01.20.98	01.20.98	01.20.98
Method Number	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010
Lead (TCLP) (6010)					
Lead (TCLP), mg/l	0.74	0.99	0.64	0.95	1.5
Date Analyzed	01.19.98	01.16.98	01.19.98	01.19.98	01.19.98
Method Number	EPA 6010	EPA 6010	EPA 6010	EPA 6010	EPA 6010

CHAIN-OF-CUSTODY FORM

CC-1264-143

FPL

Site Name and Address: Hollywood Substation
 Containers (Describe and identify source using A-Z): A) 3 - 250 ml clear NM jars I - CHEM Prod # 7013082
 Sampler (signature): [Signature]
 Telephone No.: 627-1810
 Page 1 of 1

SAMPLE CONTAINER SOURCES:			Analytes Required/Preservation		
No. of Containers					
Matrix					
S-soil; W-water; SS-saline water; GW-groundwater; SD-sediment; SW-surface water					
O - other (describe in remarks)					
Grab (G) or Composite (C)					
Sample Number	Sample Location	Date	As, Cr, Pb	PGB's/lce	FL-PRO
491375005		12/11 1330 C S 1	X	97	REM 12 0066
491526001		12/11 1330 C S 1	X	57	REM 12 0061
491583007		12/11 1340 C S 1	X	97	REM 12 0068

Remarks: Send Lab Report To: Larry Collins - FPL, Patrick Dilla - REP

Clean Sample Containers Relinquished By:	Date/Time	Custody Seal(s) Intact?	Method of Shipment	Clean Sample Containers Received By:	Date/Time	Custody Seal(s) Intact?
By: <u>[Signature]</u>	12/12/97 1300	NA	thru	By: <u>[Signature]</u>	12/11/97 1300	NA
Relinquished By: <u>[Signature]</u>	12/12/97 1230			Received By: <u>[Signature]</u>	12/12/97 12:30	
Relinquished By: <u>[Signature]</u>				Received By: <u>[Signature]</u>		
Relinquished By: <u>[Signature]</u>				Received By: <u>[Signature]</u>		

Laboratory Remarks: D752771

Cooler Temperature Checks: 27.75°C

04

THERMAL TREATMENT ANALYSES - SOIL SAMPLES

ANALYSIS PERFORMED FOR: JIM LINDSAY - ETS/LAB
DATE SAMPLED: 11/12/96 & 12/17/96

SITE ID: CUTLER POWER PLANT
DATE RECEIVED: 11/13/96 & 12/17/96

FIELD SAMPLE I.D.:
SB-20

LOCATION:
STOCKPILE

FPL LAB SAMPLE I.D.:
R-11/13/96-20 & R-12/17/96-09 (VOLATILE)

CONTRACT LAB I.D.
N/A

VOLATILE ANALYSIS RESULTS

COMPOUND	SW 846 METHOD	RESULTS (ug/Kg)	PQL (ug/Kg)	COMPOUND	SW 846 METHOD	RESULTS (ug/Kg)	PQL (ug/Kg)
Dichlorodifluoromethane	(8010A)	U	20	Bromobenzene	(8010A)	U	30
Chloromethane	(8010A)	U	34	Bromodichloromethane	(8010A)	U	23
Vinyl Chloride	(8010A)	U	22	Cis-1,3-Dichloropropene	(8010A)	U	25
Bromomethane	(8010A)	U	14	Trans-1,3-Dichloropropene	(8010A)	U	34
Chloroethane	(8010A)	U	53	1,1,2-Trichloroethane	(8010A)	U	25
Trichlorofluoromethane	(8010A)	U	44	Tetrachloroethylene	(8010A)	U	17
1,1-Dichloroethylene	(8010A)	U	53	Dibromochloromethane	(8010A)	U	29
Methylene Chloride	(8010A)	U	53	Bromoform	(8010A)	U	38
Trans-1,2-Dichloroethylene	(8010A)	U	18	1,1,2,2-Tetrachloroethane	(8010A)	U	22
1,1-Dichloroethane	(8010A)	U	17	Chlorobenzene	(8010A)	U	35
Chloroform	(8010A)	U	20	1,3-Dichlorobenzene	(8010A)	U	38
1,1,1-Trichloroethane	(8010A)	U	23	1,4-Dichlorobenzene	(8010A)	U	37
Carbon Tetrachloride	(8010A)	U	24	1,2-Dichlorobenzene	(8010A)	U	37
1,2-Dichloroethane	(8010A)	U	37	Benzene	(8020A)	U	12
Trichloroethylene	(8010A)	U	22	Toluene	(8020A)	U	11
1,2-Dichloropropane	(8010A)	U	20	Ethyl Benzene	(8020A)	U	11
2-Chloroethyl Vinyl Ether	(8010A)	U	26	P & M-Xylene	(8020A)	U	26
Methylene Bromide	(8010A)	U	53	O-Xylene	(8020A)	U	16
1,1,1,2-Tetrachloroethane	(8010A)	U	24	Methyl Tert Butyl Ether	(8020A)	U	62
1,2,3-Trichloropropane	(8010A)	U	25	Styrene	(8020A)	U	14
Benzyl Chloride	(8010A)	U	30				

ANALYZED BY: J. P. Pinkney

DATE PREPARED: 12/19/96

DATE ANALYZED: 12/19/96

TOTAL METALS ANALYSIS RESULTS

COMPONENT	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)	FAC62-775 LIMIT (mg/Kg)
Silver	(6010)	U	4.4	353
Arsenic	(6010)	9.2	2.8	10
Barium	(6010)	59	6.8	4940
Cadmium	(6010)	U	0.2	37
Chromium	(6010)	51 #	2.4	50
Lead	(6010)	180 #	3.0	108
Selenium	(6010)	3.4	1.9	389
Mercury	(7471)	U	0.4	23

ANALYZED BY: R. J. Smith

MERCURY: PREPARATION DATE: 11/18/96

ANALYSIS DATE: 11/19/96

DATE COMPLETED: 11/18/96

PCB IN SOIL ANALYTICAL RESULTS

AROCLOR	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)
ATYPICAL 1254	(8081)	2.2	0.4

ANALYZED BY: J. Camacho

DATE EXTRACTED: 11/15/96

DATE ANALYZED: 11/15/96

HALOGENS ANALYSIS RESULTS

Extractable Organic Halides(mg/Kg): U EPA METHOD 800/4-84-008 PQL(mg/Kg): 15

TRPH ANALYSIS RESULTS SW 846 METHOD 8073

Total Recoverable Petroleum Hydrocarbons(mg/Kg): 84
MDL(mg/Kg): 10

ANALYZED BY: J. P. Pinkney
DATE PREPARED: 12/5/96
DATE ANALYZED: 12/5/96

ANALYZED BY: J. Camacho
DATE PREPARED: 11/26/96
DATE ANALYZED: 11/29/96

QC REVIEWED BY: J. P. Pinkney

CERTIFIED BY: J. P. Pinkney

DATE CERTIFIED: 1/2/97

COMMENTS: Mercury value reported in ug/g.

PQL = Practical Quantitation Limit NA = Not Applicable

U=COMPOUND ANALYZED FOR BUT NOT DETECTED ABOVE THE PQL.

= EXCEEDS FAC LIMITS

SAMPLE WAS DILUTED 1/1.2 TIMES FOR VOLATILE ANALYSIS, THEREFORE THE PQL'S WERE ELEVATED BY 1.2 TIMES.

COPIES TO:

DAVE KNUTSON - ETS/LAB
ED PREAST - ETS/JB
GARY ANDERSEN - PCU/PCU

THERMAL TREATMENT ANALYSES - SOIL SAMPLES

ANALYSIS PERFORMED FOR: JIM LINDSAY - ETS/LAB
DATE SAMPLED: 11/12/96

SITE ID: CUTLER POWER PLANT
DATE RECEIVED: 11/13/96

FIELD SAMPLE I.D.:
SB 12

LOCATION:
STOCKPILE

FPL LAB SAMPLE I.D.:
R-11/13/96-12

CONTRACT LAB I.D.
N/A

VOLATILE ANALYSIS RESULTS

COMPOUND	SW 846 METHOD	RESULTS (µg/Kg)	PQL (µg/Kg)	COMPOUND	SW 846 METHOD	RESULTS (µg/Kg)	PQL (µg/Kg)
Dichlorodifluoromethane	(8010A)	U	19	Bromobenzene	(8010A)	U	28
Chloromethane	(8010A)	U	31	Bromodichloromethane	(8010A)	U	21
Vinyl Chloride	(8010A)	U	20	Cis-1,3-Dichloropropene	(8010A)	U	23
Bromomethane	(8010A)	U	13	Trans-1,3-Dichloropropene	(8010A)	U	31
Chloroethane	(8010A)	U	48	1,1,2-Trichloroethane	(8010A)	U	23
Trichlorofluoromethane	(8010A)	U	41	Tetrachloroethylene	(8010A)	U J	15
1,1-Dichloroethylene	(8010A)	U	48	Dibromochloromethane	(8010A)	U	28
Methylene Chloride	(8010A)	U	48	Bromoform	(8010A)	U	33
Trans-1,2-Dichloroethylene	(8010A)	U	17	1,1,2,2-Tetrachloroethane	(8010A)	U	20
1,1-Dichloroethane	(8010A)	U	15	Chlorobenzene	(8010A)	U	32
Chloroform	(8010A)	U	19	1,3-Dichlorobenzene	(8010A)	U	35
1,1,1-Trichloroethane	(8010A)	U	21	1,4-Dichlorobenzene	(8010A)	U	34
Carbon Tetrachloride	(8010A)	U	22	1,2-Dichlorobenzene	(8010A)	U	34
1,2-Dichloroethane	(8010A)	U	34	Benzene	(8020A)	U J	11
Trichloroethylene	(8010A)	U	20	Toluene	(8020A)	U	9.7
1,2-Dichloropropane	(8010A)	U	19	Ethyl Benzene	(8020A)	U	10
2-Chloroethyl Vinyl Ether	(8010A)	U	24	P & M-Xylene	(8020A)	U	24
Methylene Bromide	(8010A)	U	48	O-Xylene	(8020A)	U	14
1,1,1,2-Tetrachloroethane	(8010A)	U	22	Methyl Tert Butyl Ether	(8020A)	U	57
1,2,3-Trichloropropane	(8010A)	U	23	Styrene	(8020A)	U	13
Benzyl Chloride	(8010A)	U	28				

ANALYZED BY: *T. S. Park*

DATE PREPARED: 11/22/96

DATE ANALYZED: 11/22/96

TOTAL METALS ANALYSIS RESULTS

COMPONENT	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)	FAC62-775 LIMIT (mg/Kg)
Silver	(8010)	U	4.4	353
Arsenic	(8010)	7.6	2.8	10
Barium	(8010)	58	6.8	4940
Cadmium	(8010)	0.55	0.2	37
Chromium	(8010)	62 #	2.4	50
Lead	(8010)	350 #	3.0	108
Selenium	(8010)	3.0	1.9	389
Mercury	(7471)	0.50	0.4	23

ANALYZED BY: *R. S. Johnson*

MERCURY: PREPARATION DATE: 11/18/96
DATE COMPLETED: 11/18/96

ANALYSIS DATE: 11/19/96

PCB IN SOIL ANALYTICAL RESULTS

AROCLOR	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)
ATYPICAL 1254	(8081)	2.1	0.4

ANALYZED BY: *D. L. Harris*

DATE EXTRACTED: 11/15/96

DATE ANALYZED: 11/15/96

HALOGENS ANALYSIS RESULTS

Extractable Organic Halides(mg/Kg): U

EPA METHOD 800/4-84-006

PQL(mg/Kg): 15

TRPH ANALYSIS RESULTS

SW 846 METHOD 8073

Total Recoverable Petroleum Hydrocarbons(mg/Kg): 78
MDL(mg/Kg): 10

ANALYZED BY: *M. J. ...*

DATE PREPARED: 11/24/96

DATE ANALYZED: 11/24/96

ANALYZED BY: *M. J. ...*

DATE PREPARED: 12/2/96

DATE ANALYZED: 12/2/96

QC REVIEWED BY: *M. J. ...*

CERTIFIED BY: *K. M. ...*

DATE CERTIFIED: 11/1/97

COMMENTS: Mercury value reported in µg/g.

PQL = Practical Quantitation Limit NA = Not Applicable

U=COMPOUND ANALYZED FOR BUT NOT DETECTED ABOVE THE PQL

J = ESTIMATED VALUE FOR THE FOLLOWING REASONS: HIGH RECOVERY FOR TETRACHLOROETHYLENE IN SPIKE ONLY. BENZENE - LOW RECOVERY FOR SURROGATE TOLUENE D8 COMPOUND, HOWEVER RECOVERY ACCEPTABLE IN SPIKE AND DAY CHECK STANDARD.

SAMPLE WAS DILUTED 1/1.1 TIMES FOR VOLATILE ANALYSIS, THEREFORE THE PQL'S WERE ELEVATED BY 1.1 TIMES

= EXCEEDS FAC LIMITS

COPIES TO:

DAVE KNUITSON - ETS/LAB
ED PREAST - ETS/JB
GARY ANDERSEN - PCU/PCU

THERMAL TREATMENT ANALYSES - SOIL SAMPLES

ANALYSIS PERFORMED FOR: JIM LINDSAY - ETS/LAB
DATE SAMPLED: 11/12/98

SITE ID: CUTLER POWER PLANT
DATE RECEIVED: 11/13/98

FIELD SAMPLE I.D.:
SB 5

LOCATION:
STOCKPILE

FPL LAB SAMPLE I.D.:
R-11/13/98-05

CONTRACT LAB I.D.
N/A

VOLATILE ANALYSIS RESULTS

COMPOUND	SW 846 METHOD	RESULTS (µg/Kg)	PQL (µg/Kg)	COMPOUND	SW 846 METHOD	RESULTS (µg/Kg)	PQL (µg/Kg)
Dichlorodifluoromethane	(8010A)	U	20	Bromobenzene	(8010A)	U	30
Chloromethane	(8010A)	U	34	Bromodichloromethane	(8010A)	U	23
Vinyl Chloride	(8010A)	U	22	Cis-1,3-Dichloropropene	(8010A)	U	25
Bromomethane	(8010A)	U	14	Trans-1,3-Dichloropropene	(8010A)	U	34
Chloroethane	(8010A)	U	53	1,1,2-Trichloroethane	(8010A)	U	25
Trichlorofluoromethane	(8010A)	U	44	Tetrachloroethylene	(8010A)	U J	17
1,1-Dichloroethylene	(8010A)	U	53	Dibromochloromethane	(8010A)	U	29
Methylene Chloride	(8010A)	U	53	Bromoform	(8010A)	U	36
Trans-1,2-Dichloroethylene	(8010A)	U	18	1,1,2,2-Tetrachloroethane	(8010A)	U	22
1,1-Dichloroethane	(8010A)	U	17	Chlorobenzene	(8010A)	U	35
Chloroform	(8010A)	U	20	1,3-Dichlorobenzene	(8010A)	U	38
1,1,1-Trichloroethane	(8010A)	U	23	1,4-Dichlorobenzene	(8010A)	U	37
Carbon Tetrachloride	(8010A)	U	24	1,2-Dichlorobenzene	(8010A)	U	37
1,2-Dichloroethane	(8010A)	U	37	Benzene	(8020A)	U J	12
Trichloroethylene	(8010A)	U	22	Toluene	(8020A)	U	11
1,2-Dichloropropane	(8010A)	U	20	Ethyl Benzene	(8020A)	U	11
2-Chloroethyl Vinyl Ether	(8010A)	U	28	P & M-Xylene	(8020A)	U	28
Methylene Bromide	(8010A)	U	53	O-Xylene	(8020A)	U	16
1,1,1,2-Tetrachloroethane	(8010A)	U	24	Methyl Tert Butyl Ether	(8020A)	U	62
1,2,3-Trichloropropane	(8010A)	U	25	Styrene	(8020A)	U	14
Benzyl Chloride	(8010A)	U	30				

ANALYZED BY: P. B. Binkley

DATE PREPARED: 11/22/98

DATE ANALYZED: 11/22/98

TOTAL METALS ANALYSIS RESULTS

COMPONENT	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)	FAC82-775 LIMIT (mg/Kg)
Silver	(8010)	U	4.4	353
Arsenic	(8010)	10 #	2.8	10
Barium	(8010)	70	6.8	4940
Cadmium	(8010)	U	0.2	37
Chromium	(8010)	49	2.4	50
Lead	(8010)	140 #	3.0	108
Selenium	(8010)	3.1	1.9	389
Mercury	(7471)	U	0.4	23

ANALYZED BY: R. M. Binkley

MERCURY: PREPARATION DATE: 11/18/98

ANALYSIS DATE: 11/19/98

DATE COMPLETED: 11/18/98

PCB IN SOIL ANALYTICAL RESULTS

AROCLOR	SW 846 METHOD	RESULTS (mg/Kg)	PQL (mg/Kg)
	(8081)	U	0.4

ANALYZED BY: D. F. Amato

DATE EXTRACTED: 11/13/98

DATE ANALYZED: 11/13/98

HALOGENS ANALYSIS RESULTS

Extractable Organic Halides(mg/Kg): U

EPA METHOD 600/4-84-008

PQL(mg/Kg): 15

TRPH ANALYSIS RESULTS SW 846 METHOD 8073

Total Recoverable Petroleum Hydrocarbons(mg/Kg): 32
MDL(mg/Kg): 10

ANALYZED BY: M. J. Binkley

DATE PREPARED: 11/24/98

DATE ANALYZED: 11/24/98

ANALYZED BY: L. J. Binkley

DATE PREPARED: 11/20/98

DATE ANALYZED: 11/21/98

QC REVIEWED BY: M. J. Binkley

CERTIFIED BY: M. J. Binkley

DATE CERTIFIED: 11/17/98

COMMENTS: Mercury value reported in µg/g.

PQL = Practical Quantitation Limit NA = Not Applicable

U=COMPOUND ANALYZED FOR BUT NOT DETECTED ABOVE THE PQL

J = ESTIMATED VALUE FOR THE FOLLOWING REASONS: HIGH RECOVERY FOR TETRACHLOROETHYLENE IN SPIKE ONLY. BENZENE - LOW RECOVERY FOR SURROGATE TOLUENE D8 COMPOUND, HOWEVER RECOVERY ACCEPTABLE IN SPIKE AND DAY CHECK STANDARD.

= EXCEEDS FAC LIMITS

SAMPLE WAS DILUTED 1/1.2 TIMES FOR VOLATILE ANALYSIS, THEREFORE THE PQL'S WERE ELEVATED BY 1.2 TIMES

COPIES TO:

DAVE KNUTSON - ETS/LAB
ED PREAST - ETS/JB
GARY ANDERSEN - PCU/PCU

TOXICITY CHARACTERISTIC LEACHING PROCEDURE

SITE: CUTLER POWER PLANT

ANALYSIS PERFORMED FOR: JIM LINDSAY - ETS/LAB

LOCATION : STOCKPILE SOILS

DATE SAMPLED: 11/12/96

DATE RECEIVED: 11/13/96

TCLP EXTRACTED BY: *Jim Lindsay*

DATE EXTRACTED : 11/21 & 11/25/96

REPORT OF EXTRACT ANALYSIS

FIELD SAMPLE ID	FPL LAB I.D.	EPA METHOD #	RESULTS (mg/L)		
			ARSENIC 6010	CHROMIUM 6010	LEAD 6010
SB 2	R/T-11/13/96-02		0.10	NR	NR
SB 3	R/T-11/13/96-03		0.04	NR	NR
SB 5	R/T-11/13/96-05		U	NR	U ✓
SB 8	R/T-11/13/96-08		U	U	NR
SB 9	R/T-11/13/96-09		U	NR	NR
SB 10	R/T-11/13/96-10		U	U	NR
SB 12	R/T-11/13/96-12		NR	U	U ✓
SB 13	R/T-11/13/96-13		U	NR	NR
SB 15	R/T-11/13/96-15		U	U	NR
SB 16	R/T-11/13/96-16		U	U	U
SB 17	R/T-11/13/96-17		U	U	NR
SB 19	R/T-11/13/96-19		U	NR	NR
SB 20	R/T-11/13/96-20		NR	U	U ✓
SB 21	R/T-11/13/96-21		U	U	NR
SB 22	R/T-11/13/96-22		NR	U	NR
SB 24	R/T-11/13/96-24		NR	NR	U
SB 25	R/T-11/13/96-25		U	NR	NR
SB 29	R/T-11/13/96-29		NR	U	NR
SB 30	R/T-11/13/96-30		NR	U	NR
SB 31	R/T-11/13/96-31		U	NR	NR
PQL (mg/L)			0.04	0.01	0.03
RCRA REG. LEVEL			5.0	5.0	5.0

ANALYZED BY: *P. P.*

DATE COMPLETED: 11/26/96

Q.C. REVIEWED BY: *Myra K. King*

CERTIFIED BY: *K. M. King*

DATE CERTIFIED: 1/7/97

COMMENTS: N/R = NOT REQUIRED

U=COMPOUND ANALYZED FOR BUT NOT DETECTED ABOVE THE PQL.
RESULTS REPORTED ON METALS WHICH EXCEEDED FAC LIMITS FOR TOTAL METALS

COPIES TO :
DAVE KNUTSON - ETS/LAB
ED PREAST - ETS/JB
LORETTA CRANMER - ETS/LAB