



PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274
NEW PORT RICHEY (813) 847-8902

UTILITIES SERVICES BRANCH
PASCO COUNTY GOVT. COMPLEX
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654

September 6, 1994

Ms. Allison Amram
Florida Department of
Environmental Protection
3804 Coconut Palm Drive
Tampa, Fl 33619

RECEIVED
SEP 08 1994

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

RE: Resource Recovery
Leachate Analysis

Dear Ms. Amram:

Enclosed please find analytical results for analysis conducted on the primary and secondary leachate from the ash cell at the Hays Road Resource Recovery site. Also included is the QA/QC data associated with this analysis. This completes the Quarter III 1994 monitoring requirement.

If you have any questions please feel free to contact me.

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/jb

Enclosure

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director
Robert J. Tietz, Utilities Operations and Maintenance Director



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: ROBERT TIETZ

PROJECT NAME: RRQIII LEACHATE
DATE: 08/10/94
DHRS # 54237, E44123

LEACHATE MONITORING - QUARTER III 1994 (Page 1 of 1)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
26636	07/19/94	0915	CHRIS CHILDRESS	07/19/94	1630 LE
26637	07/19/94	0950	CHRIS CHILDRESS	07/19/94	1630 LE

CLIENT STATION ID: A-1 PRIMARY TAN A-1 SECONDARY T
K ANK
LAB #: 26636 26637

ALKALINITY, BICARB.	mg/l	144	282
TOT. ORGANIC CARBON	mg/L	104.10	34.12
CHLORIDE	mg/L	13785	757
DISSOLVED OXYGEN	mg/l	0.8	3.4
AMMONIA NITROGEN	mg/L	13.5	0.126
UN-IONIZED AMMONIA N	mg/L	0.359	<0.02
TOTAL ORGANIC N	mg/L	2.19	0.854
TOTAL NITROGEN	MG/L	16	1.18
OIL AND GREASE	mg/l	<3	<3
PH, FIELD ✓	std. units	6.82	7.32
TEMPERATURE, FIELD	degrees C	28.8	28.9
SPECIFIC CONDUCTIVITY	umhos/cm	15291	2519
PH, LAB	std units	7.29	7.87
TOTAL DISS. SOLIDS	mg/L	37400	2330
SPEC. CONDUCTIVITY ✓	umhos	37500	3030
SULFATE	mg/L	339	44.1
TURBIDITY	NTU	2.5	33

LABORATORY DIRECTOR

LAW ENVIRONMENTAL NATIONAL LABORATORIES

TEST DATA REPORT

08/24/94

--- Project Information ---

Ms. Jackie Kramer
Broward Testing Laboratory, Inc.
1034 N.E. 44th Court
Ft. Lauderdale, FL 33334

Page 1
Project Name: BROW3
Client #32660 Project #9621016

--- Sample Information ---

Station ID: BTL968-4709
Lab ID: AA57857
Collector: UNKNOWN

Date Sampled: 08/02/94
Time Sampled:
Log In Date: 08/05/94
Log In Time: 08:50

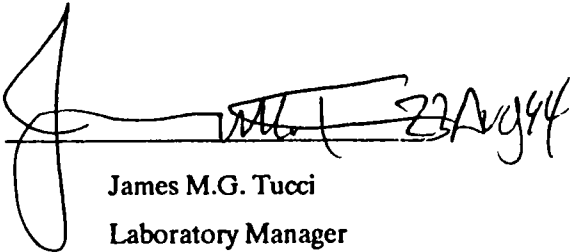
--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
2220-TOX Water EPA 450.1	ug/L	EPA 450.1	5.0	750	08/06/94	RJO

Remarks:

Signed:



James M.G. Tucci
Laboratory Manager



ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Aug 1, 1994

LAB SAMPLE ID : 53974

Broward Testing Lab., Inc
4416 N.E. 11th Ave.
Fort Lauderdale FL 33334

SAMPLE SOURCE	BROWARD TESTING LAB
ORIGIN	BTL967-4561
DESCRIPTION	GRAB
SAMPLED ON	07/25/94 by CLIENT
DATE RECEIVED	07/27/94
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Phenolics, Total	0.004	mg/L	07/28/94	EPA 420.2	94-037-34	CRP

For questions regarding this report, please call Customer Services.

CC :

QC

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

The information in this report is accurate to the best of our knowledge and ability. In no event shall our liability exceed the cost of these services. Your samples will be discarded after 14 days unless we are advised otherwise.

197A Schoolhouse Rd.
Albany, NY 12203
(518) 432-0215
Fax (607) 565-4083

Scranton, PA
(717) 969-1195
Fax (607) 565-4083

Jamestown, NY
(716) 664-6440
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24-D Norfolk Ave.
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(508) 230-8670
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6075 E. Molloy Rd.
Syracuse, NY 13211
(315) 463-1993
Fax (315) 463-1994

Box 158-A Pearl St. Rd.
Watertown, NY 13601
(315) 788-8388
Fax (315) 788-9258



BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



Potable Water Laboratory Certification Number BTL#1-86137

Environmental Laboratory Certification Number 86035

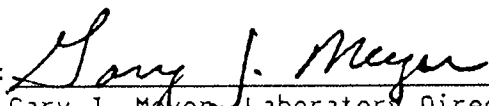
LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY LEACHATE A-1 PRIMARY SAMPLE DATE: 7-19-94
LAB NUMBER: 967-4471 SAMPLE TIME:
SAMPLED BY: CLIENT COMPLETION DATE: 8-16-94

PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
SILVER	272.2	0.03560	MG/L	7-27	M.G.
ARSENIC	206.2	0.011	MG/L	7-26	M.G.
BERYLLIUM	210.2	0.0033	MG/L	7-26	M.G.
CADMIUM	213.2	0.0082	MG/L	7-21	M.G.
CHROMIUM	218.2	0.047	MG/L	7-21	M.G.
COPPER	220.1	<0.03	MG/L	8-2	M.G.
MERCURY	245.1	<0.0002	MG/L	8-2	M.G.
NICKEL	249.2	0.0262	MG/L	7-20	M.G.
LEAD	239.2	<0.001	MG/L	7-28	M.G.
ANTIMONY	204.2	<0.003	MG/L	7-22	M.G.
SELENIUM	270.2	0.011	MG/L	7-25	M.G.
THALLIUM	279.2	0.002	MG/L	7-28	M.G.
ZINC	289.1	0.105	MG/L	8-2	M.G.
CALCIUM	215.1	2,230	MG/L	8-3	M.G.
MANGANESE	243.1	0.082	MG/L	7-25	M.G.
MAGNESIUM	242.1	3.80	MG/L	8-3	M.G.
SODIUM	273.1	1,550	MG/L	7-29	M.G.
IRON	236.1	0.466	MG/L	8-2	M.G.

REVIEWED BY:


Gary J. Meyer, Laboratory Director





ONE RESEARCH CIRCLE WAVERLY, NY 14892-1532
TELEPHONE (607) 565-3500 FAX (607) 565-4083



DATE Aug 1, 1994

LAB SAMPLE ID : 53975

Broward Testing Lab., Inc
4416 N.E. 11th Ave.
Fort Lauderdale FL 33334

SAMPLE SOURCE	BROWARD TESTING LAB
ORIGIN	BTL967-4562
DESCRIPTION	GRAB
SAMPLED ON	07/25/94 by CLIENT
DATE RECEIVED	07/27/94
P.O. NO.	

<u>Analysis Performed</u>	<u>Result</u>	<u>Units</u>	<u>Date Analyzed</u>	<u>Method</u>	<u>Notebook Reference</u>	<u>Analyst</u>
Phenolics, Total	ND<0.001	mg/L	07/28/94	EPA 420.2	94-037-34	CRP

For questions regarding this report, please call Customer Services.

CC :

QC P

NY 10252 PA 68180 NJ 73168 EPA NY 033

Approved by: Lindsey Brown
QUALITY ASSURANCE

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TEST DATA REPORT

08/24/94

--- Project Information ---

Ms. Jackie Kramer
Broward Testing Laboratory, Inc.
1034 N.E. 44th Court
Ft. Lauderdale, FL 33334

Page 1
Project Name: BROW3
Client #32660 Project #9621016

--- Sample Information ---

Station ID: BTL967-4562
Lab ID: AA57858
Collector: UNKNOWN

Date Sampled: 07/25/94
Time Sampled:
Log In Date: 08/01/94
Log In Time: 14:01

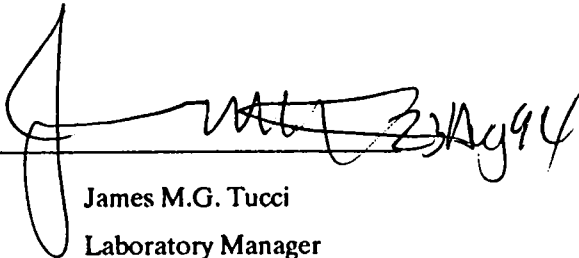
--- Test Information ---

Analysis

Parameter	Units	Method	Det Lim	Result	Date	Tech
2220-TOX Water EPA 450.1	ug/L	EPA 450.1	5.0	210	08/02/94	RJO

Remarks:

Signed:



James M.G. Tucci
Laboratory Manager



BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



Potable Water Laboratory Certification Number BTL#1-86137

Environmental Laboratory Certification Number 86035

LABORATORY PARAMETER ANALYSIS REPORT

PROJECT: PASCO COUNTY UTILITIES

SOURCE: RESOURCE RECOVERY LEACHATE A-1 SECONDARY SAMPLE DATE: 7-19-94

LAB NUMBER: 967-4472

SAMPLE TIME:

SAMPLED BY: CLIENT

COMPLETION DATE: 8-16-94

PARAMETER MONITORED	ANALYSIS METHOD	ANALYSIS RESULT	UNITS	DATE	ANALYST
SILVER	272.2	0.00105	MG/L	7-27	M.G.
ARSENIC	206.2	0.011	MG/L	7-26	M.G.
BERYLLIUM	210.2	0.0004	MG/L	7-26	M.G.
CADMIUM	213.2	0.0026	MG/L	7-21	M.G.
CHROMIUM	218.2	0.004	MG/L	7-21	M.G.
COPPER	220.1	<0.03	MG/L	8-2	M.G.
MERCURY	245.1	<0.0002	MG/L	8-2	M.G.
NICKEL	249.2	0.0293	MG/L	7-20	M.G.
LEAD	239.2	<0.001	MG/L	7-28	M.G.
ANTIMONY	204.2	0.005	MG/L	7-22	M.G.
SELENIUM	270.2	0.005	MG/L	7-25	M.G.
THALLIUM	279.2	0.001	MG/L	7-28	M.G.
ZINC	289.1	0.05	MG/L	8-2	M.G.
CALCIUM	215.1	370	MG/L	8-3	M.G.
MANGANESE	243.1	0.038	MG/L	7-25	M.G.
MAGNESIUM	242.1	6.83	MG/L	8-3	M.G.
SODIUM	273.1	149	MG/L	7-29	M.G.
IRON	236.1	1.92	MG/L	8-2	M.G.

REVIEWED BY: *Gary J. Meyer*
 Gary J. Meyer, Laboratory Director





BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



QA/QC DATA ENTRY SHEET

SAMPLE NUMBER: 967-4471 THRU 967-4472

PARAMETER	Blank Value	% Recovery (matrix spike)	Rel. % Difference (dups)	Date	Init.
ANTIMONY	<0.003	98%	0	7-22	M.G.
ARSENIC	<0.002	120%	3.77	7-26	M.G.
BARIUM					
BERYLLIUM	<0.0002	90%	0	7-26	M.G.
CADMIUM	<0.0001	83%	0	7-21	M.G.
CHROMIUM	<0.001	107%	0	7-21	M.G.
LEAD	<0.001	96%	0	7-28	M.G.
MERCURY	<0.0002	102%	0	8-3	M.G.
NICKEL	<0.0014	108%	0	7-21	M.G.
SELENIUM	<0.002	108%	0	7-25	M.G.
SODIUM	<2.00	101%	0	7-29	M.G.
THALLIUM	<0.001	59%	0	7-28	M.G.

CYANIDE					
FLUORIDE					
NO3-N + NO2-N					
NITRATE					
NITRITE					





BROWARD TESTING LABORATORY, INC.

4416 N.E. 11TH AVE., FORT LAUDERDALE, FLORIDA 33334



QA/QC DATA ENTRY SHEET

SAMPLE NUMBER: 967-4471 THRU 967-4472

PARAMETER	Blank Value	% Recovery (matrix spike)	Rel. % Difference (dups)	Date	Init.
ALUMINUM	<0.010	84%	0	7-27	M.G.
COPPER	<0.03	111%	0	8-2	M.G.
IRON	<0.10	98%	0	8-2	M.G.
MANGANESE	<0.001	104%	0	7-25	M.G.
SILVER	<0.00007	90%	0	7-27	M.G.
ZINC	<0.03	113%	0	8-2	M.G.

CHLORIDE					
COLOR					
FLUORIDE					
FOAM. AGENTS					
ODOR					
pH					
SULFATE					
TDS					

CALCIUM	<0.10	120%	1.81	8-3	M.G.
MAGNESIUM	<0.10	89%	0	8-3	M.G.

