



PASCO COUNTY, FLORIDA

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

PASCO COUNTY ENV. LABORATORY
PASCO COUNTY GOVT. COMPLEX
8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654

October 30, 1995

Ms. Allison Amram
Florida Department of
Environmental Protection
3904 Coconut Palm Drive
Tampa, FL 33619

RECEIVED
OCT 31 1995
Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

RE: Resource Recovery / Hays Rd. / W. Pasco LF
Leachate Analysis

Dear Ms. Amram:

Enclosed please find analytical results for analysis conducted on the primary and secondary leachate from the ash cell and the solid waste cell at the Hays Road Resource Recovery site. Also included is the QA/QC data associated with this analysis. This completes the Quarter III 1995 monitoring requirement.

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

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/mr

Enclosure

cc: Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director
Vincent Mannella, Solid Waste Facility Manager

Florida Department of Environmental Protection

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

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

RECEIVED
OCT 31 1995

PART I GENERAL INFORMATION

Department of Environmental Protection
SOUTHWEST DISTRICT

- (1) Facility Name Resource Recovery - West Pasco Class I Landfill
Address Hays Road
City Hudson, FL Zip 34610
Telephone Number ()
- (2) The GMS Identification Number 4051C00030
- (3) DEP Permit Number PA87-23
- (4) Authorized Representative Name Candia E. Mulhern
Address 8864 Government Drive
City New Port Richey, FL Zip 34654
Telephone Number (813) 847-8902
- (5) Type of Discharge Leachate
- (6) Method of Discharge Unknown

Certification

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information including the possibility of fine and imprisonment.

Date: 10/15/95 
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp OAP # 870167 G/7

Analytical Lab Comp OAP #/HRS Certification # 870167 G/7 54237, E44123
*Comp OAP #/HRS Certification # 870202 G Potable BTL #1-86173 & 86418 Env. 86035

Lab Name Pasco County Environmental Laboratory

Address 8864 Government Drive, New Port Richey, FL 34654

Phone Number (813) 847-8902

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1220
 Test Site ID #: _____ Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: A-1 Primary Tank Leachate Well Purged (Y/N): Yes

Classification of Ground Water: _____ Well Type: () Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/27/95 1400	<0.02	0.02 mg/L
082079	Turbidity	"	"	SM2130B	07/25/95 1620	1.69	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	08/18/95 1000	6149	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/25/95 1220	6.83	0.01 St. Units
070300	Total Dis. Solids	"	"	SM2540C	08/01/95 1500	18400	1 mg/L
000344	Dis. Oxygen	"	"	SM4500 0 G	07/25/95 1220	0.2	0.01 mg/L
000680	TOC	"	"	EPA 415.1	07/26/95 1400	22.8	0.05 mg/L
000410	Bicarbonate	"	"	EPA 310.1	08/01/95 1400	70.3	1 mg/L
000095	Specific Conductance	"	"	SM2510B	07/25/95 1220	19165	umhos/cm
000010	Temperature (Field)	"	"	SM2550B	07/25/95 1220	30.0	0° °C
000610	Ammonia	"	"	EPA 350.1	07/27/95 1600	8.36	0.07 mg/L
000945	Sulfate	"	"	EPA 375.4	08/11/95 1000	520	1 mg/L
000556	Oil & Grease	"	"	SM5520B	08/14/95 1400	<3	1 mg/L
000600	TON	"	"	EPA 350.1	07/27/95 1600	1.23	0.07 mg/L
001034	Chromium	"	"	EPA 218.1	08/17/95 1600	<0.001	0.02 mg/L
001051	Lead	"	"	EPA 239.1	08/04/95	0.0019	0.1 mg/L
001027	Cadmium	"	"	EPA 213.1	08/18/95 1600	<0.0005	0.005 mg/L

* Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1220
 Test Site ID #: _____ Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: A-1 Primary Tank Leachate Well Purged (Y/N): Yes
 Classification of Ground Water: _____ Well Type: () Background
 () Intermediate
 Ground Water Elevation (NGVD): _____ () Compliance
 () Other
 or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
001045	Iron	Well Wiz. Ded. Mon. System	No	EPA 236.1	08/16/95 1030	0.15	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	08/16/95 1530	1718	0.01 mg/L
001002	Arsenic	"	"	EPA 206.2	08/21/95 0850	0.0044	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/07/95 1500	0.0007	0.0005 mg/L
001012	Beryllium	"	"	EPA 210.1	08/21/95 1200	< 0.0005	0.01 mg/L
000916	Calcium	"	"	EPA 215.1	08/16/95 1115	3275	0.1 mg/L
000927	Magnesium	"	"	EPA 242.1	08/16/95 1050	4.40	0.005 mg/L
001055	Manganese	"	"	EPA 243.1	08/18/95 1100	0.0454	0.03 mg/L
001067	Nickel	"	"	EPA 249.1	08/21/95 1445	0.19	0.07 mg/L
001077	Silver	"	"	EPA 272.1	08/21/95 1140	0.0016	0.05 mg/L
001059	Thallium	"	"	EPA 279.1	08/18/95 1000	< 0.001	0.1 mg/L
001097	Antimony	"	"	EPA 204.1	08/21/95 1020	0.0169	0.10 mg/L
001092	Zinc	"	"	EPA 289.1	08/21/95 1430	0.04	0.005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/31/95 1301	0.201	0.02 mg/L
032730	Phenol	"	"	EPA 420.2	08/03/95 1208	0.025	
078155	TOX	"	"	9020	08/03/95 1054	-1	

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1255

Test Site ID #: _____ Report Period: 1995 / Quarter III
(year/quarter)

Well Name: A-1 Secondary Tank Leachate Well Purged (Y/N): Yes

Classification of Ground Water: _____ Well Type: () Background
() Intermediate
() Compliance
() Other

Ground Water Elevation (NGVD): _____
or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/27/95 1400	0.60	0.02 mg/L
082079	Turbidity	"	"	SM2130B	07/25/95 1620	1.09	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	08/18/95 1000	991	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/25/95 1255	7.42	0.01 St. Units
070300	Total Dis. Solids	"	"	SM2540C	08/01/95 1500	2580	1 mg/L
000344	Dis. Oxygen	"	"	SM4500 0 G	07/25/95 1255	2.5	0.01 mg/L
000680	TOC	"	"	EPA 415.1	07/26/95 1400	28.6	0.05 mg/L
000410	Bicarbonate	"	"	EPA 310.1	08/01/95 1400	195	1 mg/L
000095	Specific Conductance	"	"	SM2510B	07/25/95 1255	3156	umhos/cm
000010	Temperature (Field)	"	"	SM2550B	07/25/95 1255	30.5	0° °C
000610	Ammonia	"	"	EPA 350.1	07/27/95 1600	< 0.07	0.07 mg/L
000945	Sulfate	"	"	EPA 375.4	08/11/95 1000	20.9	1 mg/L
000556	Oil & Grease	"	"	SM5520B	08/14/95 1400	< 3	1 mg/L
000600	TON	"	"	EPA 350.1	07/27/95 1600	0.97	0.07 mg/L
001034	Chromium	"	"	EPA 218.1	08/17/95 1600	< 0.001	0.02 mg/L
001051	Lead	"	"	EPA 239.1	08/04/95	0.0009	0.1 mg/L
001027	Cadmium	"	"	EPA 213.1	08/18/95 1600	< 0.0005	0.005 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030

Sampling Date/Time: 07/25/95 @ 1255

Test Site ID #: _____

Report Period: _____
Quarter
(year/quarter)

Well Name: A-1 Secondary Tank Leachate

Well Purged (Y/N): Yes

Classification of Ground Water: _____

Well Type: () Background
() Intermediate
() Compliance
() Other

Ground Water Elevation (NGVD): _____

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
001045	Iron	Well Wiz. Ded. Mon. System	No	EPA 236.1	08/16/95 1030	0.09	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	08/16/95 1530	249	0.01 mg/L
001002	Arsenic	"	"	EPA 206.2	08/21/95 0850	< 0.001	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/07/95 1500	0.0006	0.0005 mg/L
001012	Beryllium	"	"	EPA 210.1	08/21/95 1200	< 0.0005	0.01 mg/L
000916	Calcium	"	"	EPA 215.1	08/16/95 1115	397	0.1 mg/L
000927	Magnesium	"	"	EPA 242.1	08/16/95 1050	8.35	0.005 mg/L
001055	Manganese	"	"	EPA 243.1	08/18/95 1100	0.0087	0.03 mg/L
001067	Nickel	"	"	EPA 249.1	08/21/95 1445	0.08	0.07 mg/L
001077	Silver	"	"	EPA 272.1	08/21/95 1140	0.0005	0.05 mg/L
001059	Thallium	"	"	EPA 279.1	08/18/95 1000	< 0.001	0.1 mg/L
001097	Antimony	"	"	EPA 204.1	08/21/95 1020	< 0.001	0.10 mg/L
001092	Zinc	"	"	EPA 289.1	08/21/95 1430	0.02	0.005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/31/95 1301	< 0.02	0.02 mg/L
032730	Phenol	"	"	EPA 420.2	08/01/95 1208	- 0.005	
078155	TOX	"	"	9020	08/03/95 1054	- 1	

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1330
 Test Site ID #: _____ Report Period: 1995 / Quarter III
 (year/quarter)

Well Name: SW Primary Tank Leachate Well Purged (Y/N): Yes

Classification of Ground Water: _____ Well Type: () Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/27/95 1400	< 0.02	0.02 mg/L
082079	Turbidity	"	"	SM2130B	07/25/95 1620	45.0	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	08/18/95 1000	16465	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/25/95 1330	6.63	0.01 St. Units
070300	Total Dis. Solids	"	"	SM2540C	08/01/95 1500	43000	1 mg/L
000344	Dis. Oxygen	"	"	SM4500 O G	07/25/95 1330	0.2	0.01 mg/L
000680	TOC	"	"	EPA 415.1	07/26/95 1400	63.1	0.05 mg/L
000410	Bicarbonate	"	"	EPA 310.1	08/01/95 1400	167	1 mg/L
000095	Specific Conductance	"	"	SM2510B	07/25/95 1330	38106	umhos/cm
000010	Temperature (Field)	"	"	SM2550B	07/25/95 1330	30.6	0° °C
000610	Ammonia	"	"	EPA 350.1	07/27/95 1600	20.8	0.07 mg/L
000945	Sulfate	"	"	EPA 375.4	08/11/95 1000	372	1 mg/L
000556	Oil & Grease	"	"	SM5520B	08/14/95 1400	< 3	1 mg/L
000600	TON	"	"	EPA 350.1	07/27/95 1600	4.60	0.07 mg/L
001034	Chromium	"	"	EPA 218.1	08/17/95 1600	< 0.001	0.02 mg/L
001051	Lead	"	"	EPA 239.1	08/04/95	0.0033	0.1 mg/L
001027	Cadmium	"	"	EPA 213.1	08/18/95 1600	< 0.0005	0.005 mg/L

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1330
 Test Site ID #: _____ Report Period: 1995 / Quarter III
 (year/quarter)
 Well Name: SW Primary Tank Leachate Well Purged (Y/N): Yes

Classification of Ground Water: _____ Well Type: () Background
 () Intermediate
 () Compliance
 () Other
 Ground Water Elevation (NGVD): _____
 or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
001045	Iron	Well Wiz. Ded. Mon. System	No	EPA 236.1	08/16/95 1030	0.41	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	08/16/95 1530	4069	0.01 mg/L
001002	Arsenic	"	"	EPA 206.2	08/21/95 0850	0.0031	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/07/95 1500	0.0006	0.0005 mg/L
001012	Beryllium	"	"	EPA 210.1	08/21/95 1200	<0.0005	0.01 mg/L
000916	Calcium	"	"	EPA 215.1	08/16/95 1115	4662	0.1 mg/L
000927	Magnesium	"	"	EPA 242.1	08/16/95 1050	9.70	0.005 mg/L
001055	Manganese	"	"	EPA 243.1	08/18/95 1100	0.161	0.03 mg/L
001067	Nickel	"	"	EPA 249.1	08/21/95 1445	0.33	0.07 mg/L
001077	Silver	"	"	EPA 272.1	08/21/95 1140	< 0.0005	0.05 mg/L
001059	Thallium	"	"	EPA 279.1	08/18/95 1000	< 0.001	0.1 mg/L
001097	Antimony	"	"	EPA 204.1	08/21/95 1020	0.0111	0.10 mg/L
001092	Zinc	"	"	EPA 289.1	08/21/95 1430	0.06	0.005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/31/95 1301	0.789	0.02 mg/L
032730	Phonel	"	"	EPA 420.2	08/01/95 1209	- 0.056	
078155	TOX	"	"	9020	08/03/95 1054	- 1	

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PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 07/25/95 @ 1450Test Site ID #: _____ Report Period: 1995 / Quarter III
(year/quarter)Well Name: SW Secondary Tank Leachate Well Purged (Y/N): YesClassification of Ground Water: _____ Well Type: () Background
() IntermediateGround Water Elevation (NGVD): _____ () Compliance
() Other

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000620	Nitrate	Well Wiz. Ded. Mon. System	No	EPA 353.2	07/27/95 1400	0.19	0.02 mg/L
082079	Turbidity	"	"	SM2130B	07/25/95 1620	1.46	0.01 NTU
000940	Chloride	"	"	SM4500C1-B	08/18/95 1000	81.1	0.15 mg/L
000400	pH-Field	"	"	EPA 150.1	07/25/95 1450	7.57	0.01 St. Units
070300	Total Dis. Solids	"	"	SM2540C	08/01/95 1500	650	1 mg/L
000344	Dis. Oxygen	"	"	SM4500 0 G	07/25/95 1450	2.2	0.01 mg/L
000680	TOC	"	"	EPA 415.1	07/26/95 1400	38.8	0.05 mg/L
000410	Bicarbonate	"	"	EPA 310.1	08/01/95 1400	338	1 mg/L
000095	Specific Conductance	"	"	SM2510B	07/25/95 1450	842	umhos/cm
000010	Temperature (Field)	"	"	SM2550B	07/25/95 1450	29.5	0° °C
000610	Ammonia	"	"	EPA 350.1	07/27/95 1600	0.22	0.07 mg/L
000945	Sulfate	"	"	EPA 375.4	08/11/95 1000	11.4	1 mg/L
000556	Oil & Grease	"	"	SM5520B	08/14/95 1400	< 3	1 mg/L
000600	TON	"	"	EPA 350.1	07/27/95 1600	0.45	0.07 mg/L
001034	Chromium	"	"	EPA 218.1	08/17/95 1600	< 0.001	0.02 mg/L
001051	Lead	"	"	EPA 239.1	08/04/95	ND	0.1 mg/L
001027	Cadmium	"	"	EPA 213.1	08/18/95 1600	< 0.0005	0.005 mg/L

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ART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 8/25/95 @ 1450

Test Site ID #: _____ Report Period: 1995 / Quarter III
(year/quarter)

Well Name: SW Secondary Tank Leachate Well Purged (Y/N): Yes

Classification of Ground Water: _____ Well Type: () Background
() Intermediate
() Compliance
() Other
Ground Water Elevation (NGVD): _____
or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
001045	Iron	Well Wiz. Ded. Mon. System	No	EPA 236.1	08/16/95 1030	0.04	0.001 mg/L
000929	Sodium	"	"	EPA 273.1	08/16/95 1530	27.3	0.01 mg/L
001002	Arsenic	"	"	EPA 206.2	08/21/95 0850	<0.001	0.001 mg/L
071900	Mercury	"	"	EPA 245.1	08/07/95 1500	0.001	0.0005 mg/L
001012	Beryllium	"	"	EPA 210.1	08/21/95 1200	<0.0005	0.01 mg/L
000916	Calcium	"	"	EPA 215.1	08/16/95 1115	207	0.1 mg/L
000927	Magnesium	"	"	EPA 242.1	08/16/95 1050	6.15	0.005 mg/L
001055	Manganese	"	"	EPA 243.1	08/18/95 1100	0.0156	0.03 mg/L
001067	Nickel	"	"	EPA 249.1	08/21/95 1445	0.07	0.07 mg/L
001077	Silver	"	"	EPA 272.1	08/21/95 1140	<0.0005	0.05 mg/L
001059	Thallium	"	"	EPA 279.1	08/18/95 1000	<0.001	0.1 mg/L
001097	Antimony	"	"	EPA 204.1	08/21/95 1020	<0.001	0.10 mg/L
001092	Zinc	"	"	EPA 289.1	08/21/95 1430	0.03	0.005 mg/L
000612	NH ₄ -N	"	"	DEP SOP 10/03/83	07/31/95 1301	<0.02	0.02 mg/L
032730	Phenol	"	"	EPA 420.2	08/01/95 1209	- 0.005	
078155	TOX	"	"	9020	08/03/95 1055	- 1	

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PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
14230 HAYS ROAD
SPRING HILL, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: RR LEACHATE
DATE: 09/05/95
DHRS # 54237, E44123

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LAB No.	SAMPLE			DELIVERY TO LAB		
	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
38519	07/25/95	1220	CHRIS CHILDRESS	07/25/95	1600	LE
38520	07/25/95	1255	CHRIS CHILDRESS	07/25/95	1600	LE
38521	07/25/95	1330	CHRIS CHILDRESS	07/25/95	1600	LE
38522	07/25/95	1450	CHRIS CHILDRESS	07/25/95	1600	LE

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY	SW-PRIMARY	SW-SECONDARY
LAB #:	38519	38520	38521	38522

PH, FIELD	STD. UNITS	6.83	7.42	6.63	7.57
FIELD TEMP	DEGREES C	30.0	30.5	30.6	29.5
COND, FIELD	umhos/cm	19165	3156	38106	842
DO, FIELD	mg/L	0.2	2.5	0.2	2.2
BICARB. ALK	mg/l	70.3	195	167	338
TOC	mg/L	22.8	28.6	63.1	38.8
CL-	mg/L	6149	991	16465	81.1
NH3	mg/L	8.36	<0.07	20.8	0.22
NH3-UNION	mg/L	0.201	<0.02	0.789	<0.02
TON	mg/L	1.23	0.97	4.60	0.45
NO2+N03	mg/l	<0.02	0.60	<0.02	0.19
TN	MG/L	9.59	1.03	25.4	0.86
O+G	mg/l	<3	<3	<3	<3
PH	std units	7.26	7.68	6.99	7.67
PHENOLS	mg/L	0.025	<0.005	0.056	<0.005
TDS	mg/L	18400	2580	43000	650
COND	umhos	20100	3280	45200	1100
SO4	mg/L	520	20.9	372	11.4
TURB	NTU	1.69	1.09	45.0	1.46

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY
 14230 HAYS ROAD
 SPRING HILL, FL 34610-
 Attn: VINCENT MANNELLA

PROJECT NAME: RR LEACHATE
 DATE: 09/05/95
 DHRS # 54237, E44123

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LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
38519	07/25/95	1220	CHRIS CHILDRESS	07/25/95	1600 LE
38520	07/25/95	1255	CHRIS CHILDRESS	07/25/95	1600 LE
38521	07/25/95	1330	CHRIS CHILDRESS	07/25/95	1600 LE
38522	07/25/95	1450	CHRIS CHILDRESS	07/25/95	1600 LE

CLIENT STATION ID:	A-1 PRIMARY	A-1 SECONDARY	SW-PRIMARY	SW-SECONDARY
LAB #:	38519	38520	38521	38522

	mg/L	<0.001	<0.001	<0.001	<0.001
TOX	mg/L	<0.001	<0.001	<0.001	<0.001
SB/T/AA	mg/L	0.0169	<0.001	0.0111	<0.001
AS/T/AA	mg/L	0.0044	<0.001	0.0031	<0.001
BE/T/AA	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
CD/T/AA	mg/L	<0.0005	<0.0005	<0.0005	<0.0005
CA/T/FLAA	mg/L	3275	397	4662	207
CR/T/AA	mg/L	<0.001	<0.001	<0.001	<0.001
CU/T/AA	mg/L	0.05	<0.02	0.11	<0.02
FE/T/AA	mg/L	0.15	0.09	0.41	0.04
PB/T/AA	mg/L	<0.001	<0.001	<0.001	<0.001
MG/T/FLAA	mg/L	4.40	8.35	9.70	6.15
MN/T/AA	mg/L	0.0454	0.0087	0.161	0.0156
HG/T/CVAA	mg/L	0.0007	0.0006	0.0006	0.001
NI/T/AA	mg/L	0.19	0.08	0.33	0.07
SE/T/AA	mg/L	<0.001	<0.001	<0.004	<0.001
AG/T/AA	mg/L	0.0016	<0.0005	<0.0005	<0.0005
NA/T/FLAA	mg/L	1718	249	4069	27.3
TL/T/AA	mg/L	<0.001	<0.001	<0.001	<0.001
ZN/T/FLAA	mg/L	0.04	0.02	0.06	0.03

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/05/95

QA/QC for SAMPLE Nos: 38519, 38520, 38521, 38522,

Page 1

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ALKALINITY.BICARB. EPA310.1 mg/l	38522	338	337	1.0	0.30	-----	QC#9952	186	190	102.00
TOT.ORGANIC CARBON EPA 415.1 mg/L	38522	-----	-----	-----	-----	97.60	STD KHP	4.000	4.208	105.20
		-----	-----	-----	-----	-----	STD KHP	10.000	9.942	99.42
CHLORIDE EPA 325.3 mg/L	38519	6133	6164	31	0.50	-----	STD	20.0	20.2	101.29
AMMONIA NITROGEN SM4500NH3E mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
UN-IONIZED AMMONIA N EPA 350.1 mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TOTAL ORGANIC N CALC-351.3 mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
NITRATE/NITRITE EPA 353.2 mg/l	38519	<0.02	<0.02	0.010	0.00	-----	NO3 STD	1.000	1.022	102.20
	38519	<0.02	<0.02	0.010	0.00	-----	-----	-----	-----	-----
	38522	<0.02	<0.02	0.010	0.00	-----	-----	-----	-----	-----
	38522	0.187	0.198	0.011	5.71	-----	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/05/95

QA/QC for SAMPLE Nos: 38519, 38520, 38521, 38522.

Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL NITROGEN CALC. MG/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
OIL AND GREASE EPA413.1 mg/l							9965	60.0	47.8	80.00
PH,LAB EPA150.1 std units	38521	6.99	7.01	0.020	0.29					
TOTAL PHENOLS 420.1,2,3 mg/L		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TOTAL DISS.SOLIDS EPA160.1 mg/L	38522	650	630	20	3.13		STD	293	297	101.40
SPEC.CONDUCTIVITY EPA120.1 umhos	38521	45200	45211	11	0.02					
SULFATE EPA375.4 mg/L	38522	11.0	11.4	0.40	3.57		STD	20.0	20.5	102.50



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/05/95

QA/QC for SAMPLE Nos: 38519, 38520, 38521, 38522.

Page 3

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TURBIDITY EPA180.1 NTU	38521	45	54.2	9.2	18.55	-----	-----	-----	-----	
TOTAL ORGANIC HALIDES SM 506 mg/l	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
ANTIMONY, TOTAL 204.2 mg/L	38519	20.4	19.4	1.0	5.03	96.50	-----	-----	-----	
ARSENIC, TOTAL 206.2 mg/L	38519	4.52	4.41	0.11	2.46	97.80	-----	-----	-----	
BERYLLIUM, TOTAL 210.2 mg/L	38519	0.33	0.39	0.060	16.67	99.10	-----	-----	-----	
CADMIUM, TOTAL 213.2 mg/L	38519	<0.0005	<0.0005	0.00025	0.00	64.50	-----	-----	-----	
CALCIUM, TOTAL 215.1 mg/L	38521	46.6	46.6	0	0.00	108.60	-----	-----	-----	



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/05/95

QA/QC for SAMPLE Nos: 38519, 38520, 38521, 38522.

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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
CHROMIUM, TOTAL 218.2 mg/L	38519	0.63	0.44	0.19	35.51	93.90	-----	-----	-----	-----
COPPER, TOTAL 220.2 mg/L	38519	0.05	0.06	0.010	18.18	98.10	-----	-----	-----	-----
IRON, TOTAL 236.2 mg/L	38521	0.46	0.47	0.010	2.15	88.80	-----	-----	-----	-----
LEAD, TOTAL 239.2 mg/L	38519	<0.001	<0.001	0.00050	0.00	82.60	-----	-----	-----	-----
MAGNESIUM, TOTAL 242.1 mg/L	38521	9.8	9.7	0.10	1.03	111.70	-----	-----	-----	-----
MANGANESE, TOTAL 243.2 mg/L	38519	45.4	45.4	0	0.00	97.80	-----	-----	-----	-----
MERCURY, TOTAL 245.1 mg/L	38520	0.66	0.61	0.050	7.87	96.80	9965	6.67	5.51	82.60



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 09/05/95

QA/QC for SAMPLE Nos: 38519, 38520, 38521, 38522.

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Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
NICKEL, TOTAL 249.2 mg/L	38519	0.19	0.20	0.010	5.13	100.00	-----	-----	-----	-----
SELENIUM, TOTAL 270.2 mg/L	38519	<0.001	<0.001	0.00050	0.00	79.20	-----	-----	-----	-----
SILVER, TOTAL 272.2 mg/L	38519	1.54	1.58	0.040	2.56	113.60	-----	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	38519	8.61	8.57	0.040	0.47	102.00	-----	-----	-----	-----
THALLIUM, TOTAL 279.2 mg/L	38519	<0.001	<0.001	0.00050	0.00	84.10	-----	-----	-----	-----
ZINC, TOTAL 289.1 mg/L	38519	0.041	0.039	0.0020	5.00	97.00	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST
		DATE	TIME	
AG/T/AA	272.2	08/21/95	1140	TER
AS/T/AA	206.2	08/21/95	0850	TER
BE/T/AA	210.2	08/21/95	1200	TER
BICARB. ALK	EPA310.1	08/01/95	1400	JK
CA/T/FLAA	215.1	08/16/95	1115	TER
CD/T/AA	213.2	08/18/95	1600	TER
CL-	EPA 325.3	08/18/95	1000	JK
COND	EPA120.1	07/25/95	1620	JS
COND, FIELD	EPA 120.1	07/25/95	1220	CHR
CR/T/AA	218.2	08/17/95	1600	TER
CU/T/AA	220.2	08/21/95	1420	TER
DO, FIELD	EPA 360.1	07/25/95	1220	CHR
FE/T/AA	236.2	08/16/95	1030	TER
FIELD TEMP	EPA 170.1	07/25/95	1220	CHR
HG/T/CVAA	245.1	08/07/95	1500	TER
MG/T/FLAA	242.1	08/16/95	1050	TER
MN/T/AA	243.2	08/18/95	1100	TER
NA/T/FLAA	273.1	08/16/95	1530	TER
NH3	EPA350.1	07/27/95	1600	TER
NH3-UNION	EPA 350.1	07/31/95	1301	CEM
NI/T/AA	249.2	08/21/95	1445	TER
NO2+NO3	EPA 353.2	07/27/95	1400	IF
O+G	EPA413.1	08/14/95	1400	TER
PB/T/AA	239.2	08/18/95	0900	TER
PH	EPA150.1	07/25/95	1620	JS
PH, FIELD	EPA 150.0	07/25/95	1220	CHR
PHENOLS	420.1,2,3	08/01/95	1208	RPV
SB/T/AA	204.2	08/21/95	1020	TER
SE/T/AA	270.2	08/21/95	0940	TER
SO4	EPA375.4	08/11/95	1000	JK
TDS	EPA160.1	08/01/95	1500	JK
TL/T/AA	279.2	08/18/95	1000	TER
TN	CALC.	07/31/95	1302	CEM
TOC	EPA 415.1	07/26/95	1400	IF
TON	CALC-351.3	07/27/95	1600	TER
TOX	SM 506	08/03/95	1054	AC
TURB	EPA180.1	07/25/95	1620	CSC
ZN/T/FLAA	289.1	08/21/95	1430	TER



BROWARD TESTING LABORATORY, INC.

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



Date: 08/10/95 Report #: 9793655 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES
ATTN: CANDY MULHERN
8864 GOVERNMENT DR.

Date Collected: / /
Time Collected:
ID: A-1 1 TANK @ RES REC

NEW PORT RICHEY, FL 34654-

Date received at lab: 07/25/95 Time received at lab: 02:45
TOX AND PHENOLS WERE SUBCONTRACTED TO SPECTRUM LABS,
REPORTS ATTACHED.

NOTE: "*" The MCL (Maximum Contaminant Level) or an established
guideline has been exceeded for this contaminant.
"ND" This contaminant was not detected at or above our stated
detection limit.

Fed Analysis Id # Performed	MCL	Sample Number	Analysis Result	Method	MDL	Anal Date
1030 Lead	0.015	9793655	0.0019	239.2	0.0004	08/04/95

These test results may be used for compliance purposes as required.

Gary Meyer, Lab Director





Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

RESULTS OF ANALYSIS

CLIENT: BROWARD TESTING LABS
 SAMPLE NUMBER: 126-072795
 LOCATION: 3655
ADDITIONAL DATA:
 SAMPLED BY: CLIENT
 SUBMITTED BY: JIM HAGAN
 DATE SAMPLED: 07/25/95
 DATE REPORTED: AUG. 8 1995
 REVISION: 0

FL DRINKING WATER: #86144
 FL ENVIRONMENTAL: #E86006
 GEORGIA: #2000
 SOUTH CAROLINA: #96015
 EPA: #FL095
 FDER COAP: #870206G
 DATE RECEIVED: 07/27/95
 SAMPLE MATRIX: WATER

Parameter	Method	Results (- = <)	Units	Analysis Date and Time	Analyst
TOT ORGANIC HALIDES	9020	<1	ug/l	950803 105430	AC
PHENOLICS, TOTAL	420.2	0.025	mg/l	950801 120846	RPV

LYLE A. JOHNSON
 LABORATORY MANAGER



BROWARD TESTING LABORATORIES, INC.

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



Date: 08/10/95 Report #: 9793656 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES
ATTN: CANDY MULHERN
8864 GOVERNMENT DR.
NEW PORT RICHEY, FL 34654-

Date Collected: / /
Time Collected:
ID: A-1 2 TANK @ RES REC

Date received at lab: 07/27/95 Time received at lab: 02:45
TOX AND PHENOLS WERE SUBCONTRACTED TO SPECTRUM LABS,
REPORTS ARE ATTACHED.

NOTE: "*" The MCL (Maximum Contaminant Level) or an established
guideline has been exceeded for this contaminant.
"ND" This contaminant was not detected at or above our stated
detection limit.

Fed Analysis Id # Performed	MCL	Sample Number	Analysis Result	Method	MDL	Anal Date
1030 Lead	0.015	9793656	0.0009	239.2	0.0004	08/04/95

These test results may be used for compliance purposes as required.

Gary Meyer, Lab Director





Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

RESULTS OF ANALYSIS

CLIENT: BROWARD TESTING LABS
SAMPLE NUMBER: 127-072795
LOCATION: 3656
ADDITIONAL DATA:
SAMPLED BY: CLIENT
SUBMITTED BY: JIM HAGAN
DATE SAMPLED: 07/25/95
DATE REPORTED: AUG. 8 1995
REVISION: 0

FL DRINKING WATER: #86144
FL ENVIRONMENTAL: #E86006
GEORGIA: #2000
SOUTH CAROLINA: #96015
EPA: #FL095
FDER COAP: #870206G
DATE RECEIVED: 07/27/95
SAMPLE MATRIX: WATER

Parameter	Method	Results (- = <)	Units	Analysis Date and Time	Analyst
TOT ORGANIC HALIDES	9020	<1	ug/l	950803 105442	AC
PHENOLICS, TOTAL	420.2	<0.005	mg/l	950801 120854	RPV

LYLE A. JOHNSON
LABORATORY MANAGER



BROWARD TESTING LABORATORY, INC.

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



Date: 08/10/95 Report #: 9793657 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES
ATTN: CANDY MULHERN
8864 GOVERNMENT DR.

Date Collected: / /
Time Collected:
ID: SW-1 1 TANK @ RES REC

NEW PORT RICHEY, FL 34654-

Date received at lab: 07/27/95 Time received at lab: 02:45
PHENOLS AND TOX WERE SUBCONTRACTED TO SPECTRUM LABS,
REPORTS ARE ATTACHED.

NOTE: "*" The MCL (Maximum Contaminant Level) or an established
guideline has been exceeded for this contaminant.
"ND" This contaminant was not detected at or above our stated
detection limit.

Fed Analysis Id # Performed	MCL	Sample Number	Analysis Result	Method	MDL	Anal Date
1030 Lead	0.015	9793657	0.0033	239.2	0.0004	08/04/95

These test results may be used for compliance purposes as required.



Gary Meyer, Lab Director



Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

RESULTS OF ANALYSIS

CLIENT: BROWARD TESTING LABS
SAMPLE NUMBER: 128-072795
LOCATION: 3657
ADDITIONAL DATA:
SAMPLED BY: CLIENT
SUBMITTED BY: JIM HAGAN
DATE SAMPLED: 07/25/95
DATE REPORTED: AUG. 8 1995
REVISION: 0

FL DRINKING WATER: #86144
FL ENVIRONMENTAL: #E86006
GEORGIA: #2000
SOUTH CAROLINA: #96015
EPA: #FL095
FDER CQAP: #870206G
DATE RECEIVED: 07/27/95
SAMPLE MATRIX: WATER

Parameter	Method	Results (- = <)	Units	Analysis Date and Time	Analyst
TOT ORGANIC HALIDES	9020	<1	ug/l	950803 105452	AC
PHENOLICS, TOTAL	420.2	0.056	mg/l	950801 120908	RPV

LYLE A. JOHNSON
 LABORATORY MANAGER



BROWARD TESTING LABORATORY, INC.

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



Date: 08/10/95 Report #: 9793658 Laboratory ID #: 86418

Client: PASCO COUNTY UTILITIES Date Collected: / /
ATTN: CANDY MULHERN Time Collected:
8864 GOVERNMENT DR. ID: SW-1 2 TANK @ RES REC
NEW PORT RICHEY, FL 34654-

Date received at lab: 07/27/95 Time received at lab: 02:45
TOX AND PHENOLS WERE SUBCONTRACTED TO SPECTRUM LABS,
REPORTS ARE ATTACHED.

NOTE: "*" The MCL (Maximum Contaminant Level) or an established
guideline has been exceeded for this contaminant.
"ND" This contaminant was not detected at or above our stated
detection limit.

Fed Analysis Id # Performed	MCL	Sample Number	Analysis Result	Method	MDL	Anal Date
1030 Lead	0.015	9793658	ND	239.2	0.0004	08/04/95

These test results may be used for compliance purposes as required.



Gary Meyer, Lab Director



Laboratories, Inc.

FORT LAUDERDALE • SAVANNAH

RESULTS OF ANALYSIS

CLIENT: BROWARD TESTING LABS
SAMPLE NUMBER: 129-072795
LOCATION: 3658
ADDITIONAL DATA:
SAMPLED BY: CLIENT
SUBMITTED BY: JIM HAGAN
DATE SAMPLED: 07/25/95
DATE REPORTED: AUG. 8 1995
REVISION: 0

FL DRINKING WATER: #86144
FL ENVIRONMENTAL: #E86006
GEORGIA: #2000
SOUTH CAROLINA: #96015
EPA: #FL095
FDER COAP: #870206G
DATE RECEIVED: 07/27/95
SAMPLE MATRIX: WATER

Parameter	Method	Results (- = <)	Units	Analysis Date and Time	Analyst
TOT ORGANIC HALIDES	9020	<1	ug/l	950803 105506	AC
PHENOLICS, TOTAL	420.2	<0.005	mg/l	950801 120916	RPV

LYLE A. JOHNSON
 LABORATORY MANAGER



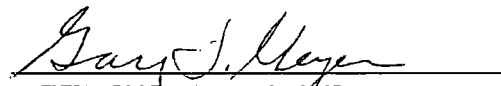
BROWARD TESTING LABORATORIES

QA/QC DATA ENTRY SHEET

979-
SAMPLE NUMBER: 3655-58

PARAMETER	Blank Value	% Recovery (matrix spike)	Rel. % Difference (dups)	Date	Init.
ANTIMONY					
ARSENIC					
BARIUM					
BERYLLIUM					
CADMIUM					
CHROMIUM					
LEAD	<0.0004	104%	18.2	8/4	MLG
MERCURY					
NICKEL					
SELENIUM					
SODIUM					
THALLIUM					

CYANIDE					
FLUORIDE					
NO3-N + NO2-N					
NITRATE					
NITRITE					


GARY MEYER, LAB DIRECTOR



Laboratories, Inc. FORT LAUDERDALE • SAVANNAH

QUALITY ASSURANCE DATA

CLIENT: BROWARD TESTING LABS FL DRINKING WATER: #86144
SAMPLE NUMBER: (126-129)-072795 FL ENVIRONMENTAL: #E8600
LOCATION: SPIKE AND SPIKE DUPLICATE GEORGIA: #828
ADDITIONAL DATA: 3655-3658 SOUTH CAROLINA: #96015
EPA: FL095

Table with 5 columns: Parameter, Spike/Duplicate Units, Accuracy %REC, Precision %RSD. Rows include PHENOL and TOX with their respective values.

Richard Vicchiarelli (handwritten signature)

RICHARD VICCHIARELLI, M.S.
QUALITY ASSURANCE OFFICER