



PASCO COUNTY, FLORIDA

WACS 45799
301994 G-WMR 405/C00030

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

October 19, 1994

Ms. Allison Amram
Environmental Specialist III
Florida Department of
Environmental Protection
Waste Management Section
3804 Coconut Palm Drive
Tampa, Fl 33619-8318

RE: Groundwater Monitoring Analyses

Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW1, 4MW1, 2MW2, 4MW2, 2MW4, 4MW4, 2MW5, 4MW5, 2MW6, and 4MW6 at the Resource Recovery - West Pasco Class I Landfill for the Quarter III (July - September) sampling period.

Groundwater monitoring well 2MW2 exhibited an elevated nitrate level and was subsequently resampled for verification of the results. This confirmation result is included for your records.

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/jb

RECEIVED
OCT 24 1994

EA SOLID WASTE

Enclosure

cc: Chongman Lee, Florida Dept. of Environmental Protection, Waste Management Section, Twin Towers Bldg., 2600 Blair Stone Rd., Tallahassee, Fl 32399-2400
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)
Robert J. Sigmond, Utilities Fiscal Services/Special Projects Director



Florida Department of Environmental Regulation

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

DER Form # _____
Form Fee _____
Effective Date _____
DER Application No _____ Filed in DEP# _____

QUARTERLY REPORT ON GROUND WATER MONITORING
Rule 17-4.245(6)(k)2.

GMS # 4051C 000258

DATE _____

DER PERMIT # PA87-23

RESOURCE RECOVERY - WEST PASCO CLASS I LANDFILL

Installation Name

HAYS ROAD HUDSON FLORIDA 34674 PASCO
Address City State Zip County

Candia E. Mulhern Laboratory Supervisor
Owner or Authorized Representative's Name Title

Method of Discharge _____

Type of Industry LANDFILL

Report for Period July 1994 to SEPT 1994
date date

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

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.

Candia E. Mulhern
Owner or Authorized Representative's Signature

10/18/94
Date

DER Form 17-1.216(2)
Effective January 1, 1983

Page 1 of 2

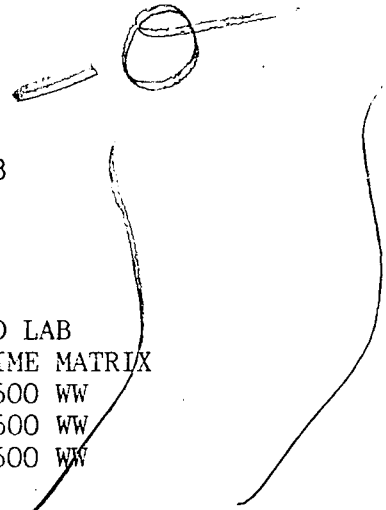


PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

DATE: 10/18/94
DHRS # 54237, E44123



RESOURCE RECOVERY GWM - QUARTER III 1994 (Page 1 of 4)

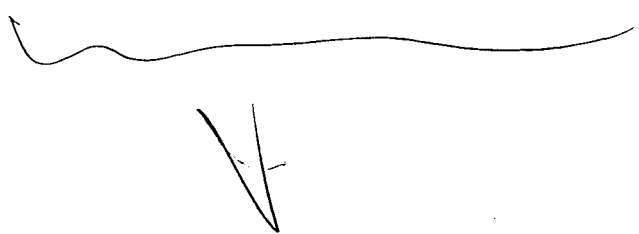
LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
28651	09/20/94	1140	CHRIS CHILDRESS	09/20/94	1600 WW
28652	09/20/94	1115	CHRIS CHILDRESS	09/20/94	1600 WW
28653	09/20/94	1530	CHRIS CHILDRESS	09/20/94	1600 WW

CLIENT STATION ID:	2MW2 (RR)	4MW2 (RR)	4MW4 (RR)
LAB #:	28651	28652	28653
	6507	12	13

PARAMETER	UNITS	2MW2 (RR)	4MW2 (RR)	4MW4 (RR)
WATER LEVEL	FEET	33.66 -	33.21	27.26
FIELD PH	STD. UNITS	5.81 -	7.09	7.15
FIELD TEMPERATURE	DEGREES C	24.90 -	24.50	25.20
FIELD CONDUCTIVITY	umhos/cm	120 -	152	279
DISSOLVED OXYGEN, FIELD	mg/L	3.2 -	1.4	2.0
ALKALINITY, BICARB.	mg/l	<1 -	71	143
TOT.ORGANIC CARBON	mg/L	1.51 -	3.21	5.64
CHLORIDE	mg/L	6.1 -	4.4	6.4
TOTAL COLIFORM MPN	MPN/100 ml	<1.1	<1.1	<1.1
TOTAL COLIFORM MF	MF/100 ml	N.R.	N.R.	N.R.
NON-COLIFORM MF	MF/100 ml	N.R.	N.R.	N.R.
AMMONIA NITROGEN	mg/L	<0.07	<0.07	<0.07
UN-IONIZED AMMONIA N	mg/L	<0.02	<0.02	<0.02
TOTAL ORGANIC N	mg/L	<0.07	<0.07	<0.07
NITRATE/NITRITE	mg/l	12.14 -	<0.10	0.17
TOTAL NITROGEN	MG/L	12.1 -	<0.10	0.17
PH, LAB	std. units	5.55	7.55	7.07
TEMPERATURE, LAB	degrees C	N.R.	N.R.	N.R.
TOTAL DISS.SOLIDS	mg/L	115 -	107	184

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR *Carlin E. Miller*





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SPRING HILL, FL 34610-
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DATE: 10/18/94
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER III 1994 (Page 3 of 4)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
28651	09/20/94	1140	CHRIS CHILDRESS	09/20/94	1600 WW
28652	09/20/94	1115	CHRIS CHILDRESS	09/20/94	1600 WW
28653	09/20/94	1530	CHRIS CHILDRESS	09/20/94	1600 WW

	CLIENT STATION ID:	2MW2 (RR)	4MW2 (RR)	4MW4 (RR)
	LAB #:	28651	28652	28653

	umhos	81	103	187
SPEC. CONDUCTIVITY				
SULFATE	mg/L	<1-	1.64	4.71
TURBIDITY	NTU	0.72-	0.38	0.74
CALCIUM, TOTAL	mg/L	7.35-	26.3	46.0
IRON, TOTAL	mg/L	0.03-	0.02	<0.02
MAGNESIUM, TOTAL	mg/L	3.39	0.71	1.22
MANGANESE, TOTAL	mg/L	0.05	<0.01	<0.01
SODIUM, TOTAL	mg/L	3.40-	2.80	3.20
ZINC, TOTAL	mg/L	<0.01	<0.01	<0.01

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

DATE: 10/18/94
 DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER III 1994 (Page 2 of 4)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB		
	DATE	TIME		DATE	TIME	MATRIX
28654	09/20/94	1330	CHRIS CHILDRESS	09/20/94	1600	WW
28685	09/21/94	1250	CHRIS CHILDRESS	09/21/94	1510	WW
28686	09/21/94	1115	CHRIS CHILDRESS	09/21/94	1510	WW
CLIENT STATION ID:				4MW6 (RR)	4MW1 (RR)	4MW5 (RR)
LAB #:				28654 6515	28685 11	28686 14
WATER LEVEL	FEET			30.53	34.34	28.21
FIELD PH	STD. UNITS			7.27	7.01	7.51
FIELD TEMPERATURE	DEGREES C			24.50	24.70	23.90
FIELD CONDUCTIVITY	umhos/cm			124	788	279
DISSOLVED OXYGEN, FIELD	mg/L			3.0	1.3	2.2
ALKALINITY, BICARB.	mg/l			55	118	99
TOT. ORGANIC CARBON	mg/L			2.53	5.32	4.43
CHLORIDE	mg/L			5.4	186	18.9
TOTAL COLIFORM MPN	MPN/100 ml			<1.1	N.R.	N.R.
TOTAL COLIFORM MF	MF/100 ml			N.R.	A	A
NON-COLIFORM MF	MF/100 ml			N.R.	A	24
AMMONIA NITROGEN	mg/L			<0.07	<0.07	<0.07
UN-IONIZED AMMONIA N	mg/L			<0.02	<0.02	<0.02
TOTAL ORGANIC N	mg/L			<0.07	<0.07	<0.07
NITRATE/NITRITE	mg/l			0.46	0.78	<0.10
TOTAL NITROGEN	MG/L			0.46	0.78	<0.10
PH, LAB	std units			7.66	7.12	7.62
TEMPERATURE, LAB	degrees C			N.R.	5.8	7.2
TOTAL DISS. SOLIDS	mg/L			80	656	169

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR *Cordia E. Miller*



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RESOURCE RECOVERY GWM - QUARTER III 1994 (Page 4 of 4)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
28654	09/20/94	1330	CHRIS CHILDRESS	09/20/94	1600 WW
28685	09/21/94	1250	CHRIS CHILDRESS	09/21/94	1510 WW
28686	09/21/94	1115	CHRIS CHILDRESS	09/21/94	1510 WW

	CLIENT STATION ID:	4MW6 (RR)	4MW1 (RR)	4MW5 (RR)
	LAB #:	28654	28685	28686
SPEC. CONDUCTIVITY	umhos	81	542	163
SULFATE	mg/L	1.93	26.5	2.33
TURBIDITY	NTU	0.06	0.16	0.28
CALCIUM, TOTAL	mg/L	19.6	92.5	36.7
IRON, TOTAL	mg/L	<0.02	<0.02	<0.02
MAGNESIUM, TOTAL	mg/L	0.54	2.74	0.92
MANGANESE, TOTAL	mg/L	<0.01	<0.01	<0.01
SODIUM, TOTAL	mg/L	2.90	36.6	3.49
ZINC, TOTAL	mg/L	<0.01	<0.01	<0.01

NOTE: N. R. = ANALYSIS NOT REQUIRED

LABORATORY DIRECTOR



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DATE: 10/19/94
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QUARTER III 1994 RECHECK

SAMPLE NUMBER- 29017 SAMPLE ID- 2MW2 RECHECK
DATE SAMPLED- 10/04/94
DATE RECEIVED- 10/04/94 SAMPLER- JAMES SAINSBY
TIME RECEIVED- 1700 DELIVERED BY- JAMES SAINSBY

6507

SAMPLE MATRIX- WW
TIME SAMPLED- 0930
RECEIVED BY- JB
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	ANALYSIS			RESULT	UNITS
		DATE	TIME	BY		
NITRATE	EPA 353.2	10/07/94	1100	CEM	12.4	mg/L

LABORATORY DIRECTOR

A handwritten signature in black ink, appearing to read "Celia E. Miller", is written over a horizontal line.