



PASCO COUNTY, FLORIDA

gw file

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

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

April 3, 1995

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

RECEIVED
APR 06 1995

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

RE: Groundwater Monitoring Analyses
Resource Recovery
Quarter I, 1995

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 I Landfill for the Quarter I (January-March) sampling period.

The following exceedences were noted at this site:

<u>Well</u>	<u>Analyte</u>
2MW2	Nitrate
4MW1	Chloride

Both wells were resampled for the associated analyte and the results of these confirmation samples are included for your records.

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/dh

Enclosure

cc: Chongman Lee, Florida Department of Environmental Protection, Waste Management Section, Twin Towers Bldg., 2600 Blair Stone Road, 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 Title	
Effective Date	
DER Application No.	Filed in by DER

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

RECEIVED
APR 06 1995

GMS # 4051C 000258

DATE
Department of Environmental Protection
DER PERMIT # PA-870323
BY

RESOURCE RECOVERY - WEST PASCO CLASS I LANDFILL

Installation Name

HAYS ROAD	HUDSON	FLORIDA 34674	PASCO
Address	City	State Zip	County

<u>Candia E. Mulhern</u>	<u>Laboratory Supervisor</u>
Owner or Authorized Representative's Name	Title

Method of Discharge _____

Type of Industry LANDFILL

Report for Period Jan 1995 to Mar 1995
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

04/03/95
Date

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

Page 1 of 2

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 03/13/95

Monitoring Well # 4051A 16506

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 2MW-1

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) YES

Ground Water Elevation (above MSL) DRY ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	"	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	"	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	"	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	"	mg/L	Unfiltered	4°C
	Sulfate		375.4	"	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	"	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	"	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 03/13/95

Monitoring Well # 4051A16511

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 4mw-1

Classification of Groundwater Floridan

Well Developed* Prior to
Sample Collection (Yes/No) yes

Ground Water Elevation
(above MSL) 33.79 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	208	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	3.49	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	51.4	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	<0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.05	Std units	Unfiltered	HNO ₃ ; 4°C
	Specific-cond.		(SM 205) reference	1011	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.19	NTU	Unfiltered	Field
	Chloride		SM 407A	291	mg/L	Unfiltered	Cool 4°C
	Sulfate		375.4	38.4	mg/L	Unfiltered	4°C
	TDS		SM 209B	992	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	116	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	6.45	mg/L	Unfiltered	Cool 4°C
	NH ₃ -N		EPA 350.2	<0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	<0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.18	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	1.08	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.90	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 03/13/95

Monitoring Well # 4051A16507

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 2mw-2

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) 34.61 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	16.0	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	3.88	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	51.4	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	5.43	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	141	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.31	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	6.0	mg/L	Unfiltered	4°C
	Sulfate		375.4	< 1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	133	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	10.5	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	2.25	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	16.1	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	16.1	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 03/13/95

Monitoring Well # 4051A16512

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 4mw-2

Classification of Groundwater Floridan

Well Developed* Prior to
Sample Collection (Yes/No) Yes

Ground Water Elevation
(above MSL) 34.01 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	36.9	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.74	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	2.74	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.77	Std units	Unfiltered	Field
	Specific- cond.		(SM 205) reference	157	umhos/ cm	Unfiltered	Field
	Turbidity		Nephelo- metric	0.20	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	4.6	mg/L	Unfiltered	4°C
	Sulfate		375.4	5.1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	114	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	79.0	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	4.52	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal- culation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal- culation	0.47	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.47	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 03/13/95

Monitoring Well # 4051A16508

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 2mw-4

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes

Ground Water Elevation (above MSL) DRY ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	"	Std units	Unfiltered	Field
	Specific cond.		(SM 205) reference	"	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	"	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	"	mg/L	Unfiltered	4°C
	Sulfate		375.4	"	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	"	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	"	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 03/13/95

Monitoring Well # 4051A16513

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 4mw-4

Classification of Groundwater Floridan

Well Developed* Prior to
Sample Collection (Yes/No) Yes

Ground Water Elevation
(above MSL) 26.96 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	75.3	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	1.37	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.90	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.24	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	286	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.13	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	6.3	mg/L	Unfiltered	4°C
	Sulfate		375.4	5.6	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	198	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	151	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	10.2	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	0.10	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	0.33	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.23	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 03/14/95

Monitoring Well # 4051A16509

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 2mw-5

Classification of Groundwater Surficial

Well Developed* Prior to
Sample Collection (Yes/No) Yes

Ground Water Elevation
(above MSL) DRY ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	"	Std units	Unfiltered	Field
	Specific- cond.		(SM 205) Reference	"	umhos/ cm	Unfiltered	Field
	Turbidity		Nephelo- metric	"	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	"	mg/L	Unfiltered	4°C
	Sulfate		375.4	"	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	"	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	"	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal- culation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal- culation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 03/14/95

Monitoring Well # 4051A16514

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 4mw-5

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) YES

Ground Water Elevation (above MSL) 27.66 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	57.9	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	1.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.15	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.70	Std units	Unfiltered	Field
	Specific cond.		(SM 205) reference	246	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	0.32	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	24.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	4.2	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	193	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	44.0	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	5.38	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Calculation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Calculation	< 0.10	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	< 0.10	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C000258

Sample Date 03/14/95

Monitoring Well # 4051A16510

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 2 MW-6

Classification of Groundwater Surficial

Well Developed* Prior to
Sample Collection (Yes/No) Yes

Ground Water Elevation
(above MSL) DRY ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	"	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	"	Std units	Unfiltered	HNO ₃ ; 4°C
	Specific-cond.		(SM 205) reference	"	umhos/cm	Unfiltered	Field
	Turbidity		Nephelometric	"	NTU	Unfiltered	Field
	Chloride		SM 407A	"	mg/L	Unfiltered	Cool 4°C
	Sulfate		375.4	"	mg/L	Unfiltered	4°C
	TDS		SM 209B	"	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	"	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	"	mg/L	Unfiltered	Cool 4°C
	NH ₃ -N		EPA 350.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal-culation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal-culation	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	"	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.

PARAMETER MONITORING REPORT
(Rule 17-3.402, 17-3.404 - 17-3.406)

GMS # 4051C 000258

Sample Date 03/14/95

Monitoring Well # 4051A16515

Well Type: ☐ Background
☐ Site Boundary
☐ Intermediate
☐ Compliance

Well Name 4 MW-6

Classification of Groundwater Floridan

Well Developed* Prior to
Sample Collection (Yes/No) Yes

Ground Water Elevation
(above MSL) 31.33 ft

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	39.8	mg/L	Unfiltered	HNO ₃ ; 4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	0.57	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.10	mg/L	Unfiltered	HNO ₃ ; 4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
	pH		Electro.	7.87	Std units	Unfiltered	Field
	Specific- cond.		(SM 205) Reference	128	umhos/ cm	Unfiltered	Field
	Turbidity		Nephelo- metric	0.12	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	5.6	mg/L	Unfiltered	4°C
	Sulfate		375.4	2.1	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	74	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	52.0	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	3.46	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₃ -N		EPA 350.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	NH ₄ -N		Cal- culation	< 0.02	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	TN		Cal- culation	0.62	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C
	Nitrate		EPA 353.2	0.62	mg/L	Unfiltered	H ₂ SO ₄ ; 4°C

*Well development is the process of pumping the well prior to sampling in order to obtain representative ground water sample.



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

DATE: 04/03/95
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QI 1995 RESAMPLE

SAMPLE NUMBER- 34691 SAMPLE ID- RR 4MW1
DATE SAMPLED- 03/23/95
DATE RECEIVED- 03/28/95 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1200 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 1500
RECEIVED BY- DH
TYPE SAMPLE- Pumped

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ANALYSIS	METHOD	ANALYSIS		BY	RESULT	UNITS
		DATE	TIME			
CHLORIDE	EPA 325.3	03/29/95	1000	K/C	294	mg/L
TOTAL DISS.SOLIDS	EPA160.1	03/28/95	1500	JK	1084	mg/L

LABORATORY DIRECTOR

A handwritten signature in cursive script, appearing to read "Patricia E. Hulle", is written over a horizontal line.



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

DATE: 04/03/95
DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QI 1995 RESAMPLE

SAMPLE NUMBER- 34284	SAMPLE ID- RR 2MW2 RESAMPLE	SAMPLE MATRIX- WW
DATE SAMPLED- 03/16/95		TIME SAMPLED- 0900
DATE RECEIVED- 03/16/95	SAMPLER- JAMES SAINSBURY	RECEIVED BY- DH
TIME RECEIVED- 1400	DELIVERED BY- JAMES SAINSBURY	TYPE SAMPLE- Pumped

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ANALYSIS	METHOD	ANALYSIS			RESULT UNITS
		DATE	TIME	BY	
WATER LEVEL	FIELD	03/16/95	0900	JAM	34.91 FEET
FIELD PH	EPA 150.0	03/16/95	0900	JAM	5.73 STD. UNITS
FIELD TEMPERATURE	EPA 170.1	03/16/95	0900	JAM	22.7 DEGREES C
FIELD CONDUCTIVITY	EPA 120.1	03/16/95	0900	JAM	138 umhos/cm
DISSOLVED OXYGEN, FIELD	EPA 360.1	03/16/95	0900	JAM	1.32 mg/L
NITRATE	EPA 353.2	03/20/95	1100	IF	13.9 mg/L

LABORATORY DIRECTOR

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