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

October 19, 1994

RECEIVED
OCT 24 1994
Department of Environmental Protection
SOUTHWEST DISTRICT
BY

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

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 Title
Effective Date
DER Application No. Filed in by DER

RECEIVED
OCT 24 1994
Department of Environmental Protection
SOUTHWEST DISTRICT

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

GMS # 4051C000258

DATE

DER PERMIT # BY PA 87

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 (date) to SEPT 1994 (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 — 10/18/94
Owner or Authorized Representative's Signature — Date

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

Northwest District 160 Governmental Center Pensacola, Florida 32501-5794 904-436-8300
Northeast District 3426 Bills Rd. Jacksonville, Florida 32207 904-798-4200
Central District 3319 Maguire Blvd. Suite 232 Orlando, Florida 32803-3767 407-894-7555
Southwest District 4520 Oak Fair Blvd. Tampa, Florida 33610-7347 813-623-5561
South District 2269 Bay St. Fort Myers, Florida 33901-2896 813-332-2667
Southeast District 1900 S. Congress Ave. Suite A West Palm Beach, Florida 33406 407-964-9668

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

GMS # 4051C000258

Monitoring Well # 4051916506

Well Name 2MW-1

Classification of Groundwater Surficial

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

Sample Date 09/21/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) Dry

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°
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1		mg/L	Unfiltered	HNO_3;4°
	Iron		236.1		mg/L	Unfiltered	HNO_3;4°
	pH		Electro.		Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric		NTU	Unfiltered	Cool 4°
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°
	TOC		415.1		mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2		mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2		mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2		mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16511

Well Name 4mw-1

Classification of Groundwater Floridan

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

Sample Date 09/21/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) 34.34

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
	Calcium	Well	215.1	92.5	mg/L	Unfiltered	HNO_3;4°
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1	2.74	mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1	36.6	mg/L	Unfiltered	HNO_3;4°
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO_3;4°
	pH		Electro.	7.01	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	788	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.16	NTU	Unfiltered	Cool 4°
	Chloride		SM 407A	186	mg/L	Unfiltered	4°C
	Sulfate		375.4	26.5	mg/L	Unfiltered	Cool 4°
	TDS		SM 209B	656	mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1	118	mg/L	Unfiltered	Cool 4°
	TOC		415.1	5.32	mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	< 0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	0.78	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	0.78	mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16507

Well Name 2MW-2

Classification of Groundwater Surficial

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

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) 33.66

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
	Calcium	Well	215.1	7.35	mg/L	Unfiltered	HNO_3;4°
	Manganese	Wizard	243.1	0.05	mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1	3.39	mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1	3.40	mg/L	Unfiltered	HNO_3;4°
	Iron		236.1	0.03	mg/L	Unfiltered	HNO_3;4°
	pH		Electro.	5.81	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	120	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.72	NTU	Unfiltered	Cool 4°
	Chloride		SM 407A	6.1	mg/L	Unfiltered	4°C
	Sulfate		375.4	<1	mg/L	Unfiltered	Cool 4°
	TDS		SM 209B	115	mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1	<1	mg/L	Unfiltered	Cool 4°
	TOC		415.1	1.51	mg/L	Unfiltered	H_2SO_4;4
	NH_3-N		EPA 350.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	< 0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	12.1	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	12.14	mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16512

Well Name 4MW-2

Classification of Groundwater Floridan

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

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) 33.21

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	26.3	mg/L	Unfiltered	HNO_3;4°
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1	0.71	mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1	2.80	mg/L	Unfiltered	HNO_3;4°
	Iron		236.1	0.02	mg/L	Unfiltered	HNO_3;4°
	pH		Electro.	7.09	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	152	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.38	NTU	Unfiltered	Cool 4°
	Chloride		SM 407A	4.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	1.64	mg/L	Unfiltered	Cool 4°
	TDS		SM 209B	107	mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1	71	mg/L	Unfiltered	Cool 4°
	TOC		415.1	3.21	mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	<0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	<0.10	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	<0.10	mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16508

Well Name 2mw-4

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Classification of Groundwater Surficial

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

Ground Water Elevation (above MSL) Dry

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		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_2SO_4;4°
	NH_3-N		EPA 350.2		mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2		mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2		mg/L	Unfiltered	H_2SO_4;4°

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

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

GMS # 4051C000258

Monitoring Well # 4051A16513

Well Name 4mw-4

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 27.26

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	46.0	mg/L	Unfiltered	HNO_3;4°
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1	1.22	mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1	3.20	mg/L	Unfiltered	HNO_3;4°
	Iron		236.1	<0.02	mg/L	Unfiltered	HNO_3;4°
	pH		Electro.	7.15	Std units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	279	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.74	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	6.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	4.71	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	184	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	143	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	5.64	mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	<0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	0.17	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	0.17	mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16509

Well Name 2mw-5

Classification of Groundwater Surficial

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

Sample Date 09/21/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) Dry

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°
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1		mg/L	Unfiltered	HNO_3;4°
	Iron		236.1		mg/L	Unfiltered	HNO_3;4°
	pH		Electro.		Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric		NTU	Unfiltered	Cool 4°
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°
	TOC		415.1		mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2		mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2		mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2		mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16514

Well Name 4mw-5

Classification of Groundwater Floridan

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

Sample Date 09/21/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) 28.21

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	36.7	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	0.92	mg/L	Unfiltered	HNO_3;4°C
	Sodium	System	273.1	3.49	mg/L	Unfiltered	HNO_3;4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO_3;4°C
	pH		Electro.	7.51	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	279	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.28	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	18.9	mg/L	Unfiltered	4°C
	Sulfate		375.4	2.33	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	169	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	99	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	4.43	mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	< 0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	< 0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	< 0.10	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	< 0.10	mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16510

Well Name 2 MW-6

Classification of Groundwater Surficial

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

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) Dry

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°
	Manganese	Wizard	243.1		mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1		mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1		mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1		mg/L	Unfiltered	HNO_3;4°
	Iron		236.1		mg/L	Unfiltered	HNO_3;4°
	pH		Electro.		Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference		umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric		NTU	Unfiltered	Cool 4°
	Chloride		SM 407A		mg/L	Unfiltered	4°C
	Sulfate		375.4		mg/L	Unfiltered	Cool 4°
	TDS		SM 209B		mg/L	Unfiltered	Cool 4°
	Bicarb.		310.1		mg/L	Unfiltered	Cool 4°
	TOC		415.1		mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2		mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2		mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation		mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2		mg/L	Unfiltered	H_2SO_4;4°

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

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

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

GMS # 4051C000258

Monitoring Well # 4051A16515

Well Name 4mw-6

Classification of Groundwater Floridan

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

Sample Date 09/20/94

Well Type: [ ] Background
[ ] Site Boundary
[ ] Intermediate
[ ] Compliance

Ground Water Elevation (above MSL) 30.53

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
	Calcium	Well	215.1	19.6	mg/L	Unfiltered	HNO_3;4°
	Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO_3;4°
	Magnesium	Mon.	242.1	0.54	mg/L	Unfiltered	HNO_3;4°
	Sodium	System	273.1	2.90	mg/L	Unfiltered	HNO_3;4°
	Iron		236.1	<0.02	mg/L	Unfiltered	HNO_3;4°
	pH		Electro.	7.27	Std. units	Unfiltered	Field
	Specific-cond.		(SM 205) reference	124	umhos/cm	Unfiltered	Field
	Turbidity		Nephelo-metric	0.06	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	5.4	mg/L	Unfiltered	4°C
	Sulfate		375.4	1.93	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	80	mg/L	Unfiltered	Cool 4°C
	Bicarb.		310.1	55	mg/L	Unfiltered	Cool 4°C
	TOC		415.1	2.53	mg/L	Unfiltered	H_2SO_4;4°
	NH_3-N		EPA 350.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	NH_4-N		Cal-culation	<0.02	mg/L	Unfiltered	H_2SO_4;4°
	Org. N		EPA 351.2	<0.07	mg/L	Unfiltered	H_2SO_4;4°
	TN		Cal-culation	0.46	mg/L	Unfiltered	H_2SO_4;4°
	Nitrate		EPA 353.2	0.46	mg/L	Unfiltered	H_2SO_4;4°

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

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