



PASCO COUNTY, FLORIDA

DADE CITY (904) 521-4274
LAND O' LAKES (813) 996-7341
NEW PORT RICHEY (813) 847-8902

ENVIRONMENTAL LABORATORY
PASCO COUNTY GOVT., COMPLES
7530 LITTLE ROAD
NEW PORT RICHEY, FL 34654

January 17, 1996

Ms. Allison Amram
Environmental Specialist III
Florida Department of
Environmental Protection
Waste Management Section
3804 Coconut Palm Drive
Tampa, Fl 34619-8318

RECEIVED
JAN 25 1996

Department of Environmental Protection
SOUTHWEST DISTRICT
BY _____

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, 4MW6 at the West Pasco Class I Landfill for the Quarter IV (Oct-Dec) sampling period.

As in previous quarters, groundwater Monitoring Well 2MW2 exceeded the MCL for Nitrate and 4MW1 exhibited elevated Chloride levels. Neither well was resampled since historical data supports these findings. These exceedences are presented in the attached table. Finally, the groundwater table Contour Map is presently being prepared and will be submitted under separate cover.

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

Sincerely,

Candia E. Mulhern
Laboratory Manager

CEM/as

Enclosures

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 Protection

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

DEP Form # 62-522.600(2)
Form Title <u>GROUND WATER MONITORING REPORT</u>
Effective Date _____
DEP Application No. _____

GROUND WATER MONITORING REPORT

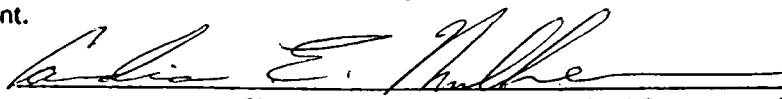
Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name Resource Recovery - West Pasco Class I Landfill
Address Hays Road
City Hudson, Florida 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, Florida Zip 34654
Telephone Number (813) 847-8902
- (5) Type of Discharge Landfill
- (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: 02/27/96 
Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

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

Lab Name Pasco County Environmental Laboratory

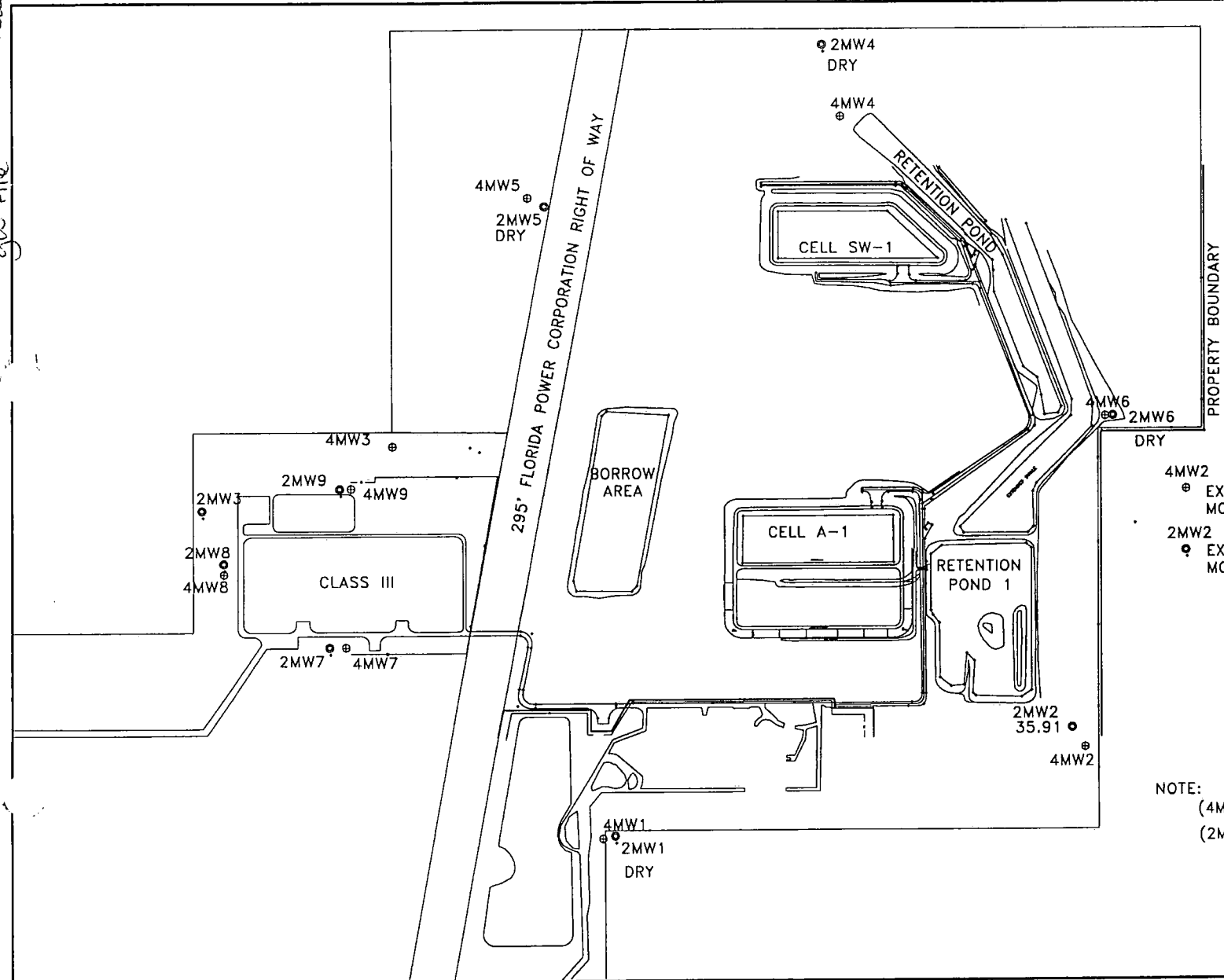
Address 8864 Government Drive, New Port Richey, FL 34654

Phone Number (813) 847-8902

W. Pasco Cl. I (Resource Recovery)
gww file

PROFESSIONAL
STAMP
DATE: 01/26/96
BY: JFW
1035

ACAD=4150869C



EXPLANATION

- 4MW2 EXISTING GROUND-WATER COMPLIANCE MONITORING WELL AND DESIGNATION
- 2MW2 EXISTING GROUND-WATER COMPLIANCE MONITORING WELL AND DESIGNATION

NOTE:
(4MW)=4" PVC FLORIDAN AQUIFER WELL
(2MW)=2" PVC SURFICIAL AQUIFER WELL



Scale In Feet
Prepared/Date: JFW 01/26/96
Checked/Date: *6W2* 01/29/96

West Pasco Class I Landfill
Board of County Commissioners
Pasco County, Florida



Quarterly Ground Water Monitoring

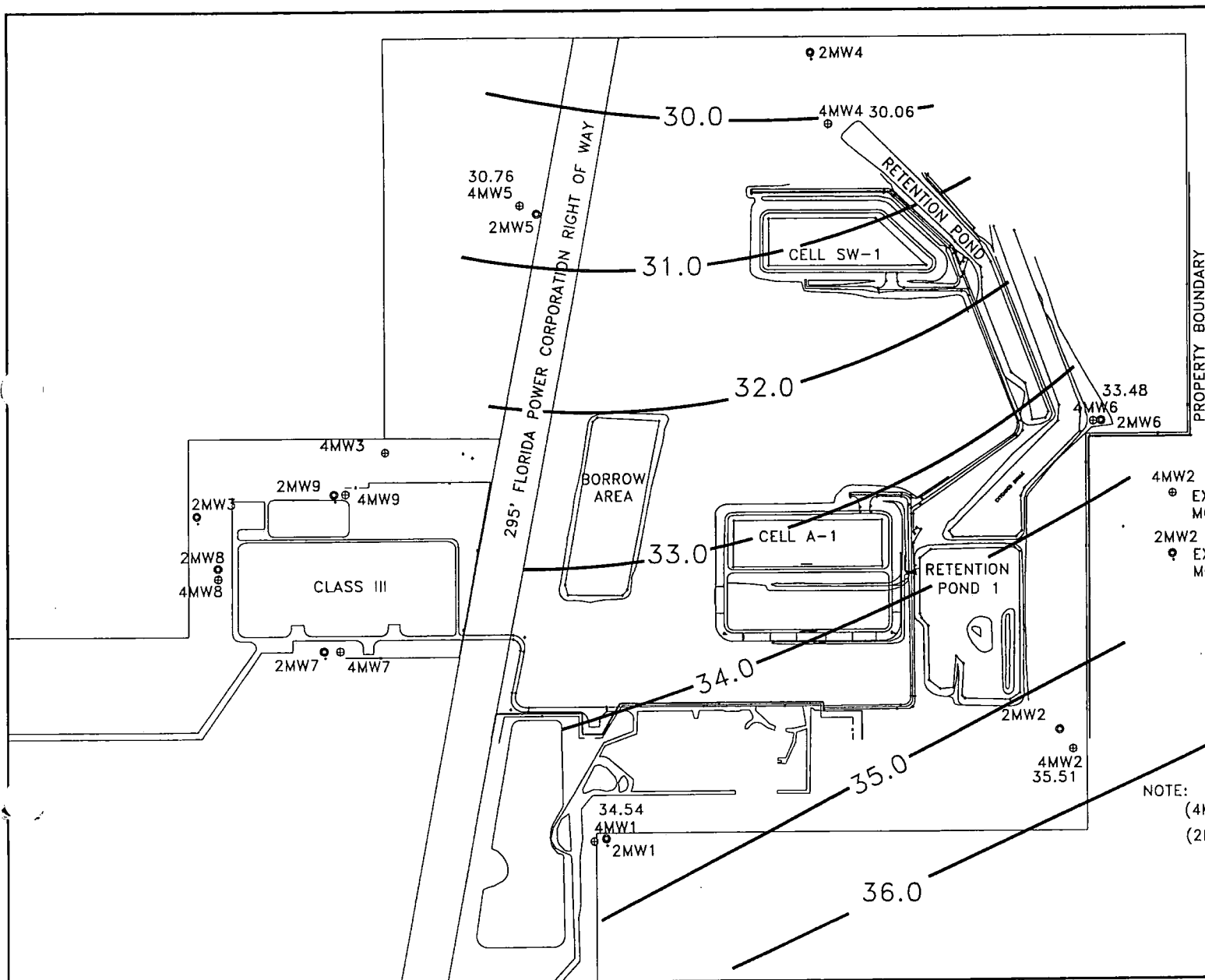
Surficial Aquifer Water Table Map
QUATER IV 1995

Project 40141-5-0869

Figure 1

PASCO COUNTY UTILITIES

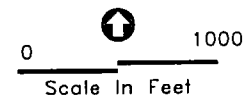
FEB 04 1996



EXPLANATION

- ⊕ 4MW2 EXISTING GROUND-WATER COMPLIANCE MONITORING WELL AND DESIGNATION
- ⊙ 2MW2 EXISTING GROUND-WATER COMPLIANCE MONITORING WELL AND DESIGNATION

NOTE:
(4MW)=4" PVC FLORIDAN AQUIFER WELL
(2MW)=2" PVC SURFICIAL AQUIFER WELL



Prepared/Date: JFW 01/26/96
Checked/Date: GWE 01/29/94

Quarterly Ground Water Monitoring

Floridan Aquifer Potentiometric Surface Map
QUARTER IV 1995

Project 40141-5-0869

Figure 2

West Pasco Class I Landfill
Board of County Commissioners
Pasco County, Florida



LAW
ENGINEERING AND ENVIRONMENTAL
SERVICES

ACAD=4150869C

PASCO COUNTY UTILITIES

FEB 04 1996

RECEIVED
JAN 25 1996

Department of Environmental Protection
SOUTHWEST DISTRICT

RESOURCE RECOVERY CLASS I LANDFILL
GROUNDWATER EXCEEDENCE SUMMARY SHEET
QUARTER IV, 1995

WELL	ANALYTE	RESULT (mg/L)	RESAMPLE
4MW1	CHLORIDE	295	None
	TDS	964	None
2MW2	NITRATE	15.7	None

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)

DEP Form # 62-522.900(2)

Form Title GROUND WATER MONITORING REPORT

Effective Date

DEP Application No.

RECEIVED
JAN 25 1996

Department of Environmental Protection
BY SOUTHWEST DISTRICT

PART I GENERAL INFORMATION

- (1) Facility Name Resource Recovery - West Pasco Class I Landfill
Address Hays Road
City Hudson, Florida 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, Florida Zip 34654
Telephone Number (813) 847-8902
- (5) Type of Discharge Landfill
- (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: 01/12/96 Signature of Owner or Authorized Representative Candia E. Mulhern

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP #

Analytical Lab Comp QAP #/HRS Certification # 870167 G/7 54237, E44123

*Comp QAP #/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: 12/12/95

Test Site ID #: 4051A16506 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MN-1 Well Purged (Y/N): YES

Classification of Groundwater: Surficial Well Type: (XXX) Background
() Intermediate
() Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	_____	Dry mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	_____	Dry mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	_____	Dry mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	_____	Dry mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	_____	Dry mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	_____	Dry mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	_____	Dry Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	_____	Dry °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	_____	Dry µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	_____	Dry mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	_____	Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	_____	Dry mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	_____	Dry mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	_____	Dry mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	_____	Dry mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	_____	Dry mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030

Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16506

Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-1

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

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

Groundwater Elevation (NGVD):

or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2		Dry mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B		Dry MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"			Dry Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1520
 Test Site ID #: 4051A16511 Report Period: 1995 / Quarter IV
 (year/quarter)
 Well Name: 4MM-1 Well Purged (Y/N): YES
 Classification of Groundwater: Floridan Well Type: (XXX) Background
 () Intermediate
 Groundwater Elevation (NGVD): () Compliance
 () Other
 or (MSL): 34.54

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	221 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	<0.001 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	<0.01 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	4.10 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	63.5 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	0.02 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1520	6.84 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1520	25.32 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1520	1356 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1520	0.51 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/12/95 1630	0.096 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	12/13/95 1000	295 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	42.4 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	964 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	119 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	9.72 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1520

Test Site ID #: 4051A16511 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MW-1 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: (XXX) Background
() Intermediate
() Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 34.54

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	1.52 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	1.52 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1520	34.54 Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1455
 Test Site ID #: 4051A16507 Report Period: 1995 / Quarter IV
 (year/quarter)
 Well Name: 2MM-2 Well Purged (Y/N): YES
 Classification of Groundwater: Surficial Well Type: () Background
 () Intermediate
 Groundwater Elevation (NGVD): (XXX) Compliance
 () Other
 or (MSL): 35.91

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	14.8 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	0.047 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	0.02 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	1.09 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	3.93 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	0.05 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1455	5.48 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1520	22.89 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1455	165 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1520	4.24 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/12/95 1630	1.03 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	12/13/95 1000	6.1 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	<1 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	155 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	4.1 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	2.66 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1455
 Test Site ID #: 4051A16507 Report Period: 1995 / Quarter IV
 (year/quarter)
 Well Name: 2MM-2 Well Purged (Y/N): YES
 Classification of Groundwater: Surficial Well Type: () Background
 () Intermediate
 (XXX) Compliance
 () Other
 Groundwater Elevation (NGVD): _____
 or (MSL): 35.91

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	15.7 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	15.7 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1455	35.91 Feet	Feet

*Attach Laboratory Reports

ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1420

Test Site ID #: 4051A16512 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MW-2 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 35.51

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	0.437 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	<0.001 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	<0.01 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	0.70 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	2.75 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	0.02 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1420	7.63 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1420	22.63 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1420	163 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1420	1.43 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/13/95 1630	0.437 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	12/13/95 1000	4.3 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	1.25 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	106 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	78.8 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	6.77 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1420

Test Site ID #: 4051A16512 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MN-2 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 35.51

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	0.040 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	0.940 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1420	35.51 Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16508 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-4 Well Purged (Y/N): YES

Classification of Groundwater: Surficial Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	_____	Dry mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	_____	Dry mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	_____	Dry mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	_____	Dry mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	_____	Dry mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	_____	Dry mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	_____	Dry Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	_____	Dry °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	_____	Dry µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	_____	Dry mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	_____	Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	_____	Dry mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	_____	Dry mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	_____	Dry mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	_____	Dry mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	_____	Dry mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030

Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16508

Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-4

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

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

Groundwater Elevation (NGVD):

or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2		Dry mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B		Dry MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"			Dry Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1410

Test Site ID #: 4051A16513 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MW-4 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 30.06

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	65.6 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	<0.001 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	<0.01 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	1.26 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	3.21 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	<0.02 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1410	7.10 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1410	24.00 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1410	311 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1410	1.01 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/12/95 1630	0.09 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	12/13/95 1000	12.0 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	5.1 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	196 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	1.01 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	154 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1410

Test Site ID #: 4051A16513 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MN-4 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 30.06

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	<0.15 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	<0.15 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1410	30.06 Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16509 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-5 Well Purged (Y/N): YES

Classification of Groundwater: Surficial Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	_____	Dry mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	_____	Dry mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	_____	Dry mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	_____	Dry mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	_____	Dry mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	_____	Dry mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	_____	Dry Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	_____	Dry °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	_____	Dry µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	_____	Dry mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	_____	Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500Cl-B	_____	Dry mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	_____	Dry mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	_____	Dry mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	_____	Dry mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	_____	Dry mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16509 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-5 Well Purged (Y/N): YES

Classification of Groundwater: Surficial Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	_____	Dry mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	_____	Dry mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	_____	Dry MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		_____	Dry Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1200

Test Site ID #: 4051A16514 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MN-5 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 30.76

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	57.0 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	<0.001 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	<0.01 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	1.06 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	4.55 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	<0.02 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1200	7.43 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1200	22.02 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1200	293 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1200	1.43 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/12/95 1630	0.13 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	12/13/95 1000	31.0 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	3.4 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	213 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	84.7 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	7.94 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1200
 Test Site ID #: 4051A16514 Report Period: 1995 / Quarter IV
 (year/quarter)
 Well Name: 4MN-5 Well Purged (Y/N): YES
 Classification of Groundwater: Floridan Well Type: () Background
 () Intermediate
 Groundwater Elevation (NGVD): _____ (XXX) Compliance
 () Other
 or (MSL): 30.76

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	0.672 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	0.672 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1200	30.76 Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16510 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MN-6 Well Purged (Y/N): YES

Classification of Groundwater: Surficial Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	_____	Dry mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	_____	Dry mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	_____	Dry mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	_____	Dry mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	_____	Dry mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	_____	Dry mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	_____	Dry Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	_____	Dry °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	_____	Dry µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	_____	Dry mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	_____	Dry NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	_____	Dry mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	_____	Dry mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	_____	Dry mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	_____	Dry mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	_____	Dry mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	_____	Dry mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030

Sampling Date/Time: 12/12/95

Test Site ID #: 4051A16510

Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 2MW-6

Well Purged (Y/N): YES

Classification of Groundwater: Surficial

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

Groundwater Elevation (NGVD):

or (MSL): Dry

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83		Dry mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1		Dry mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2		Dry mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B		Dry MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"			Dry Feet	Feet

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1305

Test Site ID #: 4051A16515 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MW-6 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 33.48

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000916	Calcium	Well Wiz. Ded. Mon. System	No	EPA 215.1	12/19/95 1620	25.1 mg/L	0.1 mg/L
001055	Manganese	"	"	EPA 243.1	12/15/95 1145	<0.001 mg/L	0.001 mg/L
001092	Zinc	"	"	EPA 289.1	12/15/95 0930	<0.01 mg/L	0.01 mg/L
000927	Magnesium	"	"	EPA 242.1	12/19/95 1600	0.52 mg/L	0.005 mg/L
000929	Sodium	"	"	EPA 273.1	12/13/95 1500	3.09 mg/L	0.01 mg/L
001045	Iron	"	"	EPA 236.1	12/15/95 0920	<0.02 mg/L	0.02 mg/L
000400	pH-Field	"	"	EPA 150.1	12/12/95 1305	7.64 Std. Units	0.01 Std. Units
000010	Temperature (Field)	"	"	SM 2550B	12/12/95 1305	24.02 °C	0°C
000095	Specific Cond. (Field)	"	"	SM 2510B	12/12/95 1305	133 µmhos/cm	0.00 µmhos/cm
000344	D.O. (Field)	"	"	SM 45000G	12/12/95 1305	1.43 mg/L	0.0 mg/L
082079	Turbidity	"	"	SM 2130B	12/12/95 1630	0.07 NTU	0.01 NTU
000940	Chloride	"	"	SM 4500C1-B	12/13/95 1000	4.4 mg/L	0.15 mg/L
000945	Sulfate	"	"	EPA 375.4	12/14/95 1400	1.7 mg/L	1 mg/L
070300	Total Dis. Solids	"	"	SM 2540C	12/13/95 1400	111 mg/L	1 mg/L
000410	Bicarbonate	"	"	EPA 310.1	12/13/95 1300	52.3 mg/L	1 mg/L
000680	TOC	"	"	EPA 415.1	12/13/95 1600	4.27 mg/L	0.50 mg/L
000610	Ammonia	"	"	EPA 350.1	12/15/95 1600	<0.15 mg/L	0.15 mg/L

*Attach Laboratory Reports

PART III ANALYTICAL RESULTS

Facility GMS #: 4051C00030 Sampling Date/Time: 12/12/95 @ 1305

Test Site ID #: 4051A16515 Report Period: 1995 / Quarter IV
(year/quarter)

Well Name: 4MW-6 Well Purged (Y/N): YES

Classification of Groundwater: Floridan Well Type: () Background
() Intermediate
(XXX) Compliance
() Other

Groundwater Elevation (NGVD): _____
or (MSL): 33.48

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	*Analysis Results/Units	Detection Limits/Units
000612	NH ₄ -N	Well Wiz. Ded. Mon. System	No	DEP SOP 10/03/83	01/05/96 0800	<0.02 mg/L	0.02 mg/L
000605	Organic Nitrogen	"	"	EPA 350.1	12/14/95 1700	<0.15 mg/L	0.15 mg/L
000600	Total Nitrogen	"	"	EPA 350.1	12/22/95 1600	0.758 mg/L	0.15 mg/L
000620	Nitrate	"	"	EPA 353.2	12/14/95 0836	0.758 mg/L	0.15 mg/L
031504	Total Coliform	"	"	SM 9222B	12/13/95 1400	<1 MF/100 ml	1 MF/100 ml
072020	Water Level (MSL)	"	"		12/12/95 1305	33.48 Feet	Feet

*Attach Laboratory Reports



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RR GWM QIV 1995
DATE: 01/05/96
DHRS # 44237, E44123

RESOURCE RECOVERY CLASS I LANDFILL - QTR IV 1995 (Page 1 of 4)

SAMPLE				DELIVERY TO LAB	
LAB No.	DATE	TIME	SAMPLER	DATE	TIME MATRIX
42735	12/12/95	1520	CHRIS CHILDRESS	12/12/95	1600 WA
42736	12/12/95	1420	CHRIS CHILDRESS	12/12/95	1600 WA
42737	12/12/95	1455	CHRIS CHILDRESS	12/12/95	1600 WA

CLIENT STATION ID:	4MW1	4MW2	2MW2
LAB #:	42735	42736	42737

WATER LEVEL	FEET	34.54	35.51	35.91
FIELD PH	STD. UNITS	6.84	7.63	5.48
FIELD TEMPERATURE	DEGREES C	25.32	22.63	22.89
FIELD CONDUCTIVITY	umhos/cm	1356	163	165
DISSOLVED OXYGEN, FIELD	mg/L	0.51	1.43	4.24
ALKALINITY, BICARB.	mg/l	119	78.8	4.1
TOT.ORGANIC CARBON	mg/L	9.72	6.77	2.66
CHLORIDE	mg/L	295	4.3	6.1
TOTAL COLIFORM MF	MF/100 ml	<1	<1	<1
NON-COLIFORM MF	MF/100 ml	TNTC	TNTC	197
AMMONIA NITROGEN	mg/L	<0.15	<0.15	<0.15
UN-IONIZED AMMONIA N	mg/L	<0.02	<0.02	<0.02
TOTAL ORGANIC N	mg/L	<0.15	<0.15	<0.15
NITRATE/NITRITE	mg/l	1.52	0.940	15.7
TOTAL NITROGEN	MG/L	1.52	0.940	15.7
PH, LAB	std units	7.25	7.94	7.08
TOTAL DISS. SOLIDS	mg/L	964	106	155
SPEC. CONDUCTIVITY	umhos	1060	121	129
SULFATE	mg/L	42.4	1.25	<1

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RR GWM QIV 1995
DATE: 01/05/96
DHRS # 44237, E44123

RESOURCE RECOVERY CLASS I LANDFILL - QTR IV 1995 (Page 3 of 4)

LAB No.	SAMPLE			DELIVERY TO LAB		
	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
42735	12/12/95	1520	CHRIS CHILDRESS	12/12/95	1600	WA
42736	12/12/95	1420	CHRIS CHILDRESS	12/12/95	1600	WA
42737	12/12/95	1455	CHRIS CHILDRESS	12/12/95	1600	WA

CLIENT STATION ID:	4MW1	4MW2	2MW2
LAB #:	42735	42736	42737

TURBIDITY	NTU	0.096	0.437	1.03
CALCIUM, TOTAL	mg/L	221	34.2	14.8
IRON, TOTAL	mg/L	0.02	0.02	0.05
MAGNESIUM, TOTAL	mg/L	4.10	0.70	1.09
MANGANESE, TOTAL	mg/L	<0.001	<0.001	0.047
MERCURY, TOTAL	mg/L	0.0006	0.0009	0.0011
SODIUM, TOTAL	mg/L	63.5	2.75	3.93
ZINC, TOTAL	mg/L	<0.01	<0.01	0.02

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RR GWM QIV 1995
DATE: 01/05/96
DHRS # 44237, E44123

RESOURCE RECOVERY CLASS I LANDFILL - QTR IV 1995 (Page 2 of 4)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
42738	12/12/95	1410	CHRIS CHILDRESS	12/12/95	1600 WA
42739	12/12/95	1200	CHRIS CHILDRESS	12/12/95	1600 WA
42740	12/12/95	1305	CHRIS CHILDRESS	12/12/95	1600 WA

CLIENT STATION ID:	4MW4	4MW5	4MW6
LAB #:	42738	42739	42740

WATER LEVEL	FEET	30.06	30.76	33.48
FIELD PH	STD. UNITS	7.10	7.43	7.64
FIELD TEMPERATURE	DEGREES C	24.00	22.02	24.02
FIELD CONDUCTIVITY	umhos/cm	311	293	133
DISSOLVED OXYGEN, FIELD	mg/L	1.01	1.50	2.61
ALKALINITY, BICARB.	mg/l	154	84.7	52.3
TOT. ORGANIC CARBON	mg/L	12.0	7.94	4.27
CHLORIDE	mg/L	6.9	31.0	4.4
TOTAL COLIFORM MF	MF/100 ml	<1	<1	<1
NON-COLIFORM MF	MF/100 ml	TNTC	131	HEAVY
AMMONIA NITROGEN	mg/L	<0.15	<0.15	<0.15
UN-IONIZED AMMONIA N	mg/L	<0.02	<0.02	<0.02
TOTAL ORGANIC N	mg/L	<0.15	<0.15	<0.15
NITRATE/NITRITE	mg/l	<0.15	0.672	0.758
TOTAL NITROGEN	MG/L	<0.15	0.672	0.758
PH, LAB	std units	7.42	7.71	8.03
TOTAL DISS. SOLIDS	mg/L	196	213	111
SPEC. CONDUCTIVITY	umhos	214	227	98
SULFATE	mg/L	5.1	3.4	1.7

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

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

PROJECT NAME: RR GWM QIV 1995
DATE: 01/05/96
DHRS # 44237, E44123

RESOURCE RECOVERY CLASS I LANDFILL - QTR IV 1995 (Page 4 of 4)

LAB No.	SAMPLE		SAMPLER	DELIVERY TO LAB	
	DATE	TIME		DATE	TIME MATRIX
42738	12/12/95	1410	CHRIS CHILDRESS	12/12/95	1600 WA
42739	12/12/95	1200	CHRIS CHILDRESS	12/12/95	1600 WA
42740	12/12/95	1305	CHRIS CHILDRESS	12/12/95	1600 WA

CLIENT STATION ID:	4MW4	4MW5	4MW6
LAB #:	42738	42739	42740

TURBIDITY	NTU	0.09	0.13	0.07
CALCIUM, TOTAL	mg/L	65.6	57.0	25.1
IRON, TOTAL	mg/L	<0.02	<0.02	<0.02
MAGNESIUM, TOTAL	mg/L	1.26	1.06	0.52
MANGANESE, TOTAL	mg/L	<0.001	<0.001	<0.001
MERCURY, TOTAL	mg/L	0.0014	0.0008	0.0008
SODIUM, TOTAL	mg/L	3.21	4.55	3.09
ZINC, TOTAL	mg/L	<0.01	<0.01	<0.01

LABORATORY DIRECTOR



QA/QC for SAMPLE Nos: 42735, 42736, 42737, 42738, 42739, 42740,
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	42740	52.3	53.1	0.80	1.52	-----	QC#9967	152	151	99.30
TOT.ORGANIC CARBON EPA 415.1 mg/L	42737	2.656	2.625	0.031	1.17	100.41	TOC STD	5.000	4.978	99.56
	-----	-----	-----	-----	-----	-----	TOC STD	25.00	26.63	106.52
	-----	-----	-----	-----	-----	-----	TOC STD	45.000	44.21	98.24
CHLORIDE EPA 325.3 mg/L	42714	105	109	4.0	3.74	-----	STD	60.0	56.75	94.60
	42735	295	302	7.0	2.35	-----	-----	-----	-----	-----
	42740	-----	-----	-----	-----	100.90	-----	-----	-----	-----
TOTAL COLIFORM MF 909A MF/100 ml	42736	<1	<1	0.50	0.00	-----	-----	-----	-----	-----
NON-COLIFORM MF 909A MF/100 ml	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
AMMONIA NITROGEN SM4500NH3E mg/L	-----	-----	-----	-----	-----	-----	NH3 STD	8.000	7.344	91.80
	-----	-----	-----	-----	-----	-----	NH3 STD	8.000	7.907	98.76
UN-IONIZED AMMONIA N DEP SOP mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									



QA/QC for SAMPLE Nos: 42735, 42736, 42737, 42738, 42739, 42740,
Page 2

		Precision Data				Accuracy Data	Reference Sample Data			
Analyte	LAB ID	Replicate	Replicate	Range	RPD %	% Spike Recovery	Reference	Target	Found	% Recovery
		A	B				Sample ID			

TOTAL ORGANIC N NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS
CALC-351.3
mg/L

NITRATE/NITRITE	42709	-----	-----	-----	-----	109.35	STANDARD	4.00	3.965	99.12
EPA 353.2	42738	<0.15	<0.15	0.075	0.00	118.95	STANDARD	4.00	3.848	96.20
mg/l	42765	8.00	8.17	0.17	2.10	-----	NO3 STD	4.000	3.820	95.50
	42914	-----	-----	-----	-----	95.95	-----	-----	-----	-----

TOTAL NITROGEN NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS
CALC.
MG/L

PH,LAB	42740	8.03	8.04	0.010	0.12	-----	-----	-----	-----
EPA150.1									
std units									

[illegible]

SPEC.CONDUCTIVITY	42740	98	100	2.0	2.02	-----	-----	-----	-----
EPA120.1									
umhos									

SULFATE	42740	1.70	1.78	0.080	4.60	98.00	STD	20.0	20.1	101.20
EPA375.4	-----	-----	-----	-----	-----	-----	STD	20.0	20.2	100.50
mg/L										



PASCO COUNTY, FLORIDA

QC REPORT FOR RESOURCE RECOVERY 01/05/96

QA/QC for SAMPLE Nos: 42735, 42736, 42737, 42738, 42739, 42740,
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	42740	0.07	0.09	0.020	25.00	-----	-----	-----	-----	-----
CALCIUM, TOTAL 215.1 mg/L	42737	1.48	1.47	0.010	0.68	105.30	-----	-----	-----	-----
IRON, TOTAL 236.2 mg/L	42791	2.18	2.18	0	0.00	100.00	-----	-----	-----	-----
MAGNESIUM, TOTAL 242.1 mg/L	42737	.408	.409	0.0010	0.24	-----	WP033	13.0	12.2	94.20
MANGANESE, TOTAL 243.2 mg/L	42735	0.22	0.18	0.040	20.00	94.40	-----	-----	-----	-----
MERCURY, TOTAL 245.1 mg/L	42737	1.26	1.13	0.13	10.88	100.00	-----	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	42737	3.93	3.94	0.010	0.25	101.00	-----	-----	-----	-----



Page 4

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
ZINC, TOTAL 289.1 mg/L	42737	0.018	0.017	0.0010	5.71	100.40	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS DATE	TIME	ANALYST
BICARB. ALK	EPA310.1	12/13/95	1300	JK
CA/T/FLAA	215.1	12/19/95	1620	TER
CL-	EPA 325.3	12/13/95	1000	JK
COND	EPA120.1	12/12/95	1620	CSC
COND, FIELD	EPA 120.1	12/12/95	1200	CHR
DO, FIELD	EPA 360.1	12/12/95	1200	CHR
FE/T/AA	236.2	12/15/95	0920	TER
FIELD TEMP	EPA 170.1	12/12/95	1200	CHR
H2O LEVEL	FIELD	12/12/95	1200	CHR
HG/T/CVAA	245.1	12/18/95	1520	TER
MG/T/FLAA	242.1	12/19/95	1600	TER
MN/T/AA	243.2	12/15/95	1145	TER
NA/T/FLAA	273.1	12/13/95	1500	TER
NC MF	909A	12/13/95	1400	MR
NH3	SM4500NH3E	12/15/95	1600	IF
NH3-UNION	DEP SOP	01/05/96	0800	CEM
NO2+N03	EPA 353.2	12/14/95	0836	IF
NO2+N03	EPA 353.2	12/19/95	1730	IF
PH	EPA150.1	12/12/95	1625	CSC
PH, FIELD	EPA 150.0	12/12/95	1200	CHR
SO4	EPA375.4	12/14/95	1400	JK
TC MF	909A	12/13/95	1400	MR
TDS	EPA160.1	12/13/95	1400	JK
TN	CALC.	12/22/95	1600	CEM
TOC	EPA 415.1	12/13/95	1600	IF
TON	CALC-351.3	12/14/95	1700	TER
TURB	EPA180.1	12/12/95	1630	CSC
ZN/T/FLAA	289.1	12/15/95	0930	TER