



# 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

June 24, 1992

Mr. Steven G. Morgan  
Environmental Specialist II  
Florida Department of  
Environmental Regulation  
Waste Management Section  
4520 Oak Fair Boulevard  
Tampa, FL 33610-7347

D. E. R.

JUN 25 1992

RE: Groundwater Monitoring Analyses

SOUTHWEST DISTRICT  
TAMPA

Dear Mr. Morgan:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW1, 4MW1, 2MW2, 4MW2, 2MW4, 4MW4, 2MW5, 4MW5, 2MW6, and 4MW6 at the Hays Road Class I Landfill for the Quarter II (April - June) sampling period.

Sincerely,

A handwritten signature in cursive script, appearing to read "Candia E. Mulhern".

Candia E. Mulhern  
Laboratory Supervisor

CEM/mr

Enclosure

cc: Chongman Lee, Florida Department of Environmental Regulation, Solid Waste Section, Twin Towers Building, 2600 Blair Stone Road, Tallahassee, FL 32399-2400  
Douglas S. Bramlett, Assistant County Administrator (Utilities Services)  
Robert J. Sigmond, Utilities Solid Waste/Fiscal Services 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 by DER# \_\_\_\_\_

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

GMS # \_\_\_\_\_

DATE \_\_\_\_\_

DER PERMIT # \_\_\_\_\_

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 APR '92 to JUN '92
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

06/24/92
Date

D. E. R.

JUN 25 1992

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

Page 1 of 2

SOUTHWEST DISTRICT
TAMPA

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

GMS # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 2MW1

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

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     |                                      | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|------------|------------|--------------------------------------|--------------------------------------|
|             |                     |                 |                    |                 |            | Filtered   | Unfiltered                           |                                      |
|             | Calcium             | Well            | 215.1              | Dry             | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 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 <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | mg/L            | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |                                      |
|             | Nitrate             |                 | EPA 353.2          | mg/L            | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 4MW1

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 32.84

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units      | Sample     |            | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|------------|------------|------------|--------------------------------------|
|             |                     |                 |                    |                 |            | Filtered   | Unfiltered |                                      |
|             | Calcium             | Well            | 215.1              | 78.5            | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              | <0.02           | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              | 0.036           | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              | 1.84            | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              | 16.76           | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              | 0.05            | mg/L       | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 7.38            | Std. units | Unfiltered |            | Field                                |
|             | Specific-cond.      |                 | (SM 205) reference | 500             | umhos/cm   | Unfiltered |            | Field                                |
|             | Turbidity           |                 | Nephelometric      | 0.10            | NTU        | Unfiltered |            | Cool 4°C                             |
|             | Chloride            |                 | SM 407A            | 77.7            | mg/L       | Unfiltered |            | 4°C                                  |
|             | Sulfate             |                 | 375.4              | 19.0            | mg/L       | Unfiltered |            | Cool 4°C                             |
|             | TDS                 |                 | SM 209B            | 340             | mg/L       | Unfiltered |            | Cool 4°C                             |
|             | Bicarb.             |                 | 310.1              | 6.7             | mg/L       | Unfiltered |            | Cool 4°C                             |
|             | TOC                 |                 | 415.1              | < 0.90          | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          | 0.182           | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       | 0.160           | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.11            | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | 1.08            | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 0.63            | mg/L       | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 2MW2

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Surficial

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

Ground Water Elevation (above MSL) \_\_\_\_\_

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units     | Sample     |            | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|-----------|------------|------------|--------------------------------------|
|             |                     |                 |                    |                 |           | Filtered   | Unfiltered |                                      |
|             | Calcium             | Well            | 215.1              | 7.16            | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              | 0.08            | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              | 0.025           | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              | 3.59            | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              | 3.50            | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              | 1.47            | mg/L      | Unfiltered |            | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 6.03            | Std units | Unfiltered |            | Field                                |
|             | Specific-cond.      |                 | (SM 205) reference | 115             | umhos/cm  | Unfiltered |            | Field                                |
|             | Turbidity           |                 | Nephelometric      | 23.2            | NTU       | Unfiltered |            | Cool 4°C                             |
|             | Chloride            |                 | SM 407A            | 3.7             | mg/L      | Unfiltered |            | 4°C                                  |
|             | Sulfate             |                 | 375.4              | < 1             | mg/L      | Unfiltered |            | Cool 4°C                             |
|             | TDS                 |                 | SM 209B            | 140             | mg/L      | Unfiltered |            | Cool 4°C                             |
|             | Bicarb.             |                 | 310.1              | 78.0            | mg/L      | Unfiltered |            | Cool 4°C                             |
|             | TOC                 |                 | 415.1              | < 0.80          | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          | 0.280           | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       | 6.42            | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.04            | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | 1.63            | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 11.4            | mg/L      | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Water Level         |                 |                    | 23.20           | Feet      |            |            |                                      |

\*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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 4MW2

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) \_\_\_\_\_

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units     | Sample Filtered/Unfiltered | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|-----------|----------------------------|--------------------------------------|
|             | Calcium             | Well            |                    | 215.1           |           |                            |                                      |
|             | Manganese           | Wizard          |                    | 243.1           |           | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            |                    | 289.1           |           | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            |                    | 242.1           |           | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          |                    | 273.1           |           | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 |                    | 236.1           |           | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 7.78            | Std units | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Specific-cond.      |                 | (SM 205) reference | 160             | umhos/cm  | Unfiltered                 | Field                                |
|             | Turbidity           |                 | Nephelometric      | 0.15            | NTU       | Unfiltered                 | Field                                |
|             | Chloride            |                 | SM 407A            | 5.3             | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | Sulfate             |                 | 375.4              | <1              | mg/L      | Unfiltered                 | 4°C                                  |
|             | TDS                 |                 | SM 209B            | 112             | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | Bicarb.             |                 | 310.1              | 81.0            | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | TOC                 |                 | 415.1              | 0.50            | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          | 0.315           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Calculation        | 0.118           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.04            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Calculation        | 1.63            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 1.16            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Water Level         |                 |                    | 23.50           |           |                            | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 2MW4

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Surficial

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

Ground Water Elevation (above MSL) Dry f

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units      | Sample     |                                      | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|------------|------------|--------------------------------------|--------------------------------------|
|             |                     |                 |                    |                 |            | Filtered   | Unfiltered                           |                                      |
|             | Calcium             | Well            | 215.1              | Dry             | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              |                 | mg/L       | Unfiltered |                                      | HNO <sub>3</sub> ; 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 <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          |                 | mg/L       | Unfiltered |                                      | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | mg/L            | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 4°C |                                      |
|             | Nitrate             |                 | EPA 353.2          | mg/L            | Unfiltered |            | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 4MW4

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) \_\_\_\_\_

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units     | Sample Filtered/Unfiltered | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|-----------|----------------------------|--------------------------------------|
|             | Calcium             | Well            |                    | 215.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          |                    | 243.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            |                    | 289.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            |                    | 242.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          |                    | 273.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 |                    | 236.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 7.10            | Std units | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Specific-cond.      |                 | (SM 205) Reference | 260             | umhos/cm  | Unfiltered                 | Field                                |
|             | Turbidity           |                 | Nephelometric      | 0.279           | NTU       | Unfiltered                 | Field                                |
|             | Chloride            |                 | SM 407A            | 5.2             | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | Sulfate             |                 |                    | 375.4           | mg/L      | Unfiltered                 | 4°C                                  |
|             | TDS                 |                 | SM 209B            | 182             | 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 <sub>3</sub> -N  |                 | EPA 350.2          | 0.350           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       | 0.622           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.04            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | 1.58            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 0.570           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Water Level         |                 |                    | 25.0            |           |                            |                                      |

\*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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 2MW5

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

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 <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 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 <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | mg/L            | Unfiltered | H <sub>2</sub> SO <sub>4</sub> ; 4°C |                                      |
|             | Nitrate             |                 | EPA 353.2          | mg/L            | Unfiltered | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 4MW5

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 26.41 ft

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units     | Sample Filtered/Unfiltered | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|-----------|----------------------------|--------------------------------------|
|             | Calcium             | Well            | 215.1              | 6.08            | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              | <0.02           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              | 0.013           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              | 0.31            | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              | 6.38            | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              | 0.05            | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 8.45            | Std units | Unfiltered                 | Field                                |
|             | Specific-cond.      |                 | (SM 205) reference | 75              | umhos/cm  | Unfiltered                 | Field                                |
|             | Turbidity           |                 | Nephelometric      | 0.468           | NTU       | Unfiltered                 | Cool 4°C                             |
|             | Chloride            |                 | SM 407A            | 4.6             | mg/L      | Unfiltered                 | 4°C                                  |
|             | Sulfate             |                 | 375.4              | <1              | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | TDS                 |                 | SM 209B            | 48              | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | Bicarb.             |                 | 310.1              | 48.0            | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | TOC                 |                 | 415.1              | <0.50           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          | 0.175           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       | 0.02            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.06            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | 0.421           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 0.17            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 2MW6

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

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 <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          | 243.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            | 289.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            | 242.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          | 273.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 | 236.1              |                 | mg/L       | Unfiltered                           | HNO <sub>3</sub> ; 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 <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          |                 | mg/L       | Unfiltered                           | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | mg/L            | Unfiltered | H <sub>2</sub> SO <sub>4</sub> ; 4°C |                                      |
|             | Nitrate             |                 | EPA 353.2          | mg/L            | Unfiltered | H <sub>2</sub> SO <sub>4</sub> ; 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 # \_\_\_\_\_

Sample Date 06/05/92

Monitoring Well # 4MW6

Well Type:  Background  
 Site Boundary  
 Intermediate  
 Compliance

Well Name \_\_\_\_\_

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 29.93 f

| STORET Code | Parameter Monitored | Sampling Method | Analysis Method    | Analysis Result | Units     | Sample Filtered/Unfiltered | Preservatives Added                  |
|-------------|---------------------|-----------------|--------------------|-----------------|-----------|----------------------------|--------------------------------------|
|             | Calcium             | Well            |                    | 215.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Manganese           | Wizard          |                    | 243.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Zinc                | Ded.            |                    | 289.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Magnesium           | Mon.            |                    | 242.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Sodium              | System          |                    | 273.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | Iron                |                 |                    | 236.1           | mg/L      | Unfiltered                 | HNO <sub>3</sub> ; 4°C               |
|             | pH                  |                 | Electro.           | 8.20            | Std units | Unfiltered                 | Field                                |
|             | Specific-cond.      |                 | (SM 205) reference | 120             | umhos/cm  | Unfiltered                 | Field                                |
|             | Turbidity           |                 | Nephelometric      | 0.196           | NTU       | Unfiltered                 | Cool 4°C                             |
|             | Chloride            |                 | SM 407A            | 5.1             | mg/L      | Unfiltered                 | 4°C                                  |
|             | Sulfate             |                 |                    | 375.4           | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | TDS                 |                 | SM 209B            | 83              | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | Bicarb.             |                 |                    | 310.1           | mg/L      | Unfiltered                 | Cool 4°C                             |
|             | TOC                 |                 |                    | 415.1           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>3</sub> -N  |                 | EPA 350.2          | 0.210           | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | NH <sub>4</sub> -N  |                 | Cal-culation       | 0.03            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Org. N              |                 | EPA 351.2          | 0.07            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | TN                  |                 | Cal-culation       | 1.30            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |
|             | Nitrate             |                 | EPA 353.2          | 0.99            | mg/L      | Unfiltered                 | H <sub>2</sub> SO <sub>4</sub> ; 4°C |

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