gn file



PASCO COUNTY, FLORIDA

DADE CITY
NEW PORT RICHEY

(904) 521-4274

(813) 847-8902

April 3, 1995

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

RE: Groundwater Monitoring Analyses

Resource Recovery Quarter I, 1995

Dear Ms. Amram:

8864 GOVERNMENT DRIVE
NEW PORT RICHEY, FL 34654

ENVIRONMENTAL LABORATORY PASCO COUNTY GOVT. COMPLEX



Departmental Protection
SOUTHWEST DISTRICT
BY

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

The following exceedences were noted at this site:

Well

2MW2

Nitrate

4MW1

Chloride

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

Sincerely,

Candia E. Mulhern Laboratory Manager

CEM/dh

Enclosure

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



Florida Department of Environmental Regulation

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

DER Form &	
Form Tide	
Effective Date	
CER Approxima No.	

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

APR 06 1995

GHS 1 405/C 000258

		Deparie Der Permit * SOULT BY	MASIVIZIENCE
RESOURCE RECOVERY -	WEST PASCO CLASS I LA		
Installation Name			
HAYS ROAD	HUDSON	· FLORIDA 34674	PASCO
Address	City	State Zip	County
Candia E. Mulhern			Supervisor :
Owner or Authorized Repre	sentative's Name	Title	
Method of Discharge			
Type of Industry LAN	DFILL		
Report for Period Ja	1995 to N	Nan 1995	
lttach monitoring data e	s annroved in monitoring	nlan using parameter m	onitoring report

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.

or Authorized Representative's Signature

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

Page 1 of 2

GHS # 4051C 000258

Manitoring Well 1 4051916506

Well Neme 2mw-1

Classification of Groundwater <u>Surficial</u>

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

YES

Sample Date 03/13/95

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

Ground Water Elevation
(above MSL) __ DRY

STORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	17	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	11	mg/L	Unfiltered	HNO ₃ ;4°C
į	Iron		236.1	"	mg/L	Unfiltered	HNO ₃ ;4°C
	pН		Electro.	11	Std	Unfiltered	Field
	Specific-		(SM 205) reference	11	umhos/	Unfiltered	Field
}	Turbidity		Nephelo-	"	NTU	Unfiltered	Cool 4°C
	Chloride		SM 407A	II .	mg/L	Unfiltered	4°c
	Sulfate		375.4	tī .	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	11	mg/L	Unfiltered	Cool 4°C
ŀ	Bicarb.		310.1	11	mg/L		Cool 4°C
[TOC		415.1	**	mg/L	1	н ₂ so ₄ ; 4 ° с
. [1	ин ₃ -и	·	EPA 350.2	11	mg/L		H ₂ SO ₄ ;4 ^O C
1	NH ₄ -N	i	Cal- culation	11	mg/L		H ₂ SO ₄ ;4°C
	Org. N		EPA 351.2	11	mg/L	<u> </u>	H ₂ SO ₄ ;4°C
	rn		Cal- culation	"	mg/L		H ₂ SO ₄ ;4 ^o C
lt	Vitrate		EPA 353.2	11	mg/L	·	H ₂ SO ₄ ;4°C
			İ				

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

ER Form 17-1.216(2) ffective January 1, 1983

GHS . 4051C.000258

Sample Date 03/13/95

Monitoring Well # 4051A16511

Well Type: [] Background

Well Name 4mw-1

[] Site Boundary
[] Intermediate [] Compliance

Classification of Groundwater Floridan

Ground Water Elevation

(above MSL) 33.79

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

ORET Parameter		Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	1
Calcium	Well	215.1	208	mg/L	Unfiltered	Added
Manganese	Wizard	243.1	<0.01	mg/L	Unfiltered	HNO ₃ ;4°C
Zinc	Ded.	289.1	<0.01	mg/L	Unfiltered	HNO ₃ ;4°C
Magnesium	Mon.	242.1	3.49	mg/L	Unfiltered	HNO ₃ ;4°C
Sodium	System	273.1	51.4	mg/L	Unfiltered	HNO :4°C
Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ;4°C
pН		Electro.	7.05	Stdunits	Unfiltered	Field
Specific-		(SM 205) reference	1011	umhos/	Unfiltered	
Turbidity		Nephelo- metric	0.19	NTU	Unfiltered	Field Cool 4 ⁰ C
Chloride		SM 407A	291	mg/L	Unfiltered	4°C
Sulfate		375.4	38.4	mg/L		Cool 4°C
TDS		SM 209B	992	mg/L		Cool 4°C
Bicarb.		310.1	116	1		Cool 4°C
TOC		415.1	6.45	1		H ₂ SO ₄ ;4°C
ин 3-и		EPA 350.2	< 0.07			H ₂ SO ₄ ;4°C
NH ₄ -N		Cal- culation	< 0.02	mg/L	1	H ₂ SO ₄ ;4°C
Org. N		EPA 351.2	0.18	mg/L		1 ₂ SO ₄ ;4°C
TN		Cal- culation	1.08	mg/L	1	1 ₂ so ₄ ;4°c
Nitrate	-	EPA 353.2	0.90			1 ₂ so ₄ ;4°c
						2 4,

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

ER Form 17-1.216(2) ffective January 1, 1983

GHS . 4051C 000258

Monitoring Well # 4051A16507

Well Name 2 mw-2

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 03/13/95

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

Ground Water Elevation (above MSL) 34.61 ft

ORET	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	16.0	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	0.01	mg/L	Unfiltered	HNO3;4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO3;4°C
	Magnesium	Mon.	242.1	3.88	mg/L	Unfiltered	HNO3;4°C
	Sodium	System	273.1	51.4	mg/L	Unfiltered	HNO3;4°C
	Iron		236.1	<0.02	mg/L	Unfiltered	HNO ₃ ;4°C
	pН		Electro.	5.43	Stdunits		Field
	Specific-		(SM 205) reference	141	umhos/	Unfiltered	Field
	Turbidity		Nephelo-	0.31	NTU	Unfiltered	Cool 4°C
	Chloride .		SM 407A	6.0	mg/L	Unfiltered	4°C
	Sulfate		375.,4	<u> </u>	mg/L	Unfiltered	Cool 4°C
	TDS		SM 209B	133	mg/L	1	Cool 4°C
	Bicarb.		310.1	10.5	mg/L		Cool 4°C
	TOC		415.1	2.25	mg/L	1	H ₂ SO ₄ ;4°C
	NH3-N		EPA 350.2	<0.07	mg/L		H ₂ SO ₄ ;4°C
	NH ₄ -N		Cal- culation	<0.02	mg/L		H ₂ SO ₄ ;4°C
- 1	Org. N		EPA 351.2	∠0.07	mg/L		H ₂ SO ₄ ;4°C
	IN	ľ	Cal- culation	16.1	mg/L	1	H ₂ SO ₄ ;4°C
	Nitrate	-	EPA 353.2	16.1			H ₂ SO ₄ ;4°C
							2.0
- 1		1	1	1	1		

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

ER form 17-1.216(2) ffective January 1, 1983

CHS 1 4051C 000258

Monitoring Well # 4051A16512

Well Name 4mw-2

Classification of Groundwater Floridan

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

Sample Date 03/13/95Well Type: [] Background [] Site Boundary [] Intermediate [] Compliance

Ground Water Elevation (above MSL) __34.01 ft

				Result	Units	filtered/Unfiltered	vatives Added
	Calcium	Well	215.1	36.9	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ;4°C
- 1	Magnesium	Mon.	242.1	0.74	mg/L	Unfiltered	HNO ₃ ; 4°C
1	Sodium	System	273.1	2.74	mg/L	Unfiltered	HNO ₃ ;4°C
ı	Iron		236.1	∠0.02	mg/L	Unfiltered	HNO ₃ ; 4°C
- 1	рН		Electro.	7.77	Stdunits	Unfiltered	Field
	Specific-		(SM 205) reference	157	umhos/	Unfiltered	Field
-	Turbidity		Nephelo- metric	0.20	NTU	Unfiltered	Cool 4°C
-	Chloride		SM 407A	4.6	mg/L	Unfiltered	4°C
15	Sulfate	:	375.4	5.1	mg/L	!	Cool 4°C
1	rds		SM 209B	114	I]	Cool 4°C
E	Bicarb.		310.1	79.0			Cool 4°C
T	coc		415.1	4.52	f i		H ₂ SO ₄ ;4°C
	¹ Н ₃ -N		EPA 350.2	Z 0.07	i i		H ₂ SO ₄ ;4°C
- 1	H ₄ -N		Cal- culation	< 0.02	1 ' I	1	H ₂ SO ₄ ;4 ^O C
- [rg. N	þ	EPA 351.2	∠0.07	1 1		H ₂ SO ₄ ;4°C
T	N	ķ	Cal- culation	0.47	mg/L	•	1 ₂ SO ₄ ;4°C
N	itrate	-	EPA 353.2	0.47	_		1 ₂ 50 ₄ ,4 C

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

ER Form 17-1,216(2) ffective January 1, 1983

ghs • 4051C000258

Monitoring Well # 405/A/6508

Hell Neme _ 2mw-4

Classification of Groundwater Surficial

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

Yes

Sample Date 03/13/95

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

Ground Water Elevation
(above MSL) __ DRY ft

TORE T	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	- #	mg/L	Unfiltered	HNO ₃ ;4 ^o C
	Zinc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
	Magnesium	Mon.	242.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
İ	Sodium	System	273.1	ti	mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
Ì	рН		Electro.	11		Unfiltered	Field
	Specific-		(SM 205) reference	***	umhos/	Unfiltered	Field
	Turbidity		Nephelo- metric	tt	NTU	Unfiltered	Cool 4°C
]	Chloride		SM 407A	11	mg/L	Unfiltered	4°C
	Sulfate	1	375.4	11	mg/L	Unfiltered	Cool 4°C
	TDS	·	SM 209B	11	mg/L	Unfiltered	Cool 4°C
]1	Bicarb.		310.1	11	ì	[Cool 4°C
]7	roc	·	415.1	11	ł	1	H ₂ SO ₄ ;4°C
ı	ин ₃ -и		EPA 350.2	TŤ	1	1	H ₂ SO ₄ ;4 ^O C
	NH ₄ -N	k	Cal_ Culation	11			H ₂ SO ₄ ;4 ^O C
C	org. N	ļ	EPA 351.2	11	1		H ₂ SO ₄ ;4°C
Т	n .	k	Cal- culation	11			H ₂ SO ₄ ;4 ^o C
N	itrate	- I	EPA 353.2	11			H ₂ SO ₄ ;4°C
			!				

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

ER form 17-1.216(2)
ffective January 1, 1983

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GHS • 4051C 000258

Monitoring Well # 405/A/65/3

Well Name 4mw-4

Classification of Groundwater Floridan

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

Sample Date 03/13/95

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

Ground Water Elevation (above MSL) 26.96

e 1	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltere	Preser- d vatives Added
	Calcium	Well	215.1	75.3	mg/L	Unfiltered	HNO ₃ ;4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
- }	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
-	Magnesium	Mon.	242.1	1.37	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.90	mg/L	Unfiltered .	_
	Iron		236.1	之0.02	mg/L	Unfiltered	HNO ₃ ;4°C
	рH		Electro.	7.24	Stdunits	Unfiltered	HNO ₃ ;4 ^o C Field
	Specific-		(SM 205) reference	286	umhos/	Unfiltered	Field
ľ	Turbidity		Nephelo- metric	0.13	NTU	Unfiltered	Cool 4°C
ď	Chloride		SM 407A	6.3	mg/L	Unfiltered	4°C
	Sulfate	:	375.4	5.6	mg/L.	Unfiltered	Cool 4°C
ľ	rds		SM 209B	198	mg/L	Unfiltered	Cool 4°C
1	Bicarb.		310.1	151	mg/L	Unfiltered	Cool 4°C
12	roc		415.1	10.2	mg/L	[н ₂ so ₄ ; 4 ^o с
N	H ₃ -N		EPA 350.2	< 0.07	mg/L	i	^н 2 ³⁰ 4,4 с Н ₂ 80 ₄ ;4 ⁰ С
N	IH ₄ -N		Cal- culation	< 0.02	} ·		^н 2 ⁵⁰ 4;4 ⁰ С
C	org. N		EPA 351.2	0.10			H ₂ SO ₄ ;4°C
T	`N		Cal- culation	0.33			H ₂ SO ₄ ;4 ^o C
N	itrate	-	EPA 353.2	0.23		<u> </u>	H ₂ SO ₄ ;4 ^o C

dell development is the process of pumping the well prior to sampling in order to obtain ;

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/fective January 1, 1983

chs • 4051C000258

Monitoring Well # 4051A16509

Well Name 2mw-5

Classification of Groundwater Surficial

Well Developed* Prior to Sample Collection (Yes/No) Yes Sample Date 03/14/95

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

Ground Water Elevation
(above MSL) ____DRY __ft

Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO3;4°C
langanese	Wizard	243.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
inc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
agnesium	Mon.	242.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
odium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
ron		236.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
H		Electro.	tt	Stdunits	Unfiltered	Field
pecific- cond.		(SM 205) reference	11	umhos/	Unfiltered	
urbidity		Nephelo- metric	11	NTU	Unfiltered	Field Cool 4 ⁰ C
nloride		SM 407A	11	mg/L	Unfiltered	4°C
ılfate	:	375.4	††	1	1	Cool 4°C
OS		SM 209B	11	1	1	Cool 4°C
carb.		310.1	11	ŀ	1	Cool 4°C
C		415.1	11	j		H ₂ SO ₄ ;4 ^O C
3-N		EPA 350.2	11	mg/L		H ₂ SO ₄ ;4 ^O C
4-N		Cal- culation	11	mg/L	l l	H ₂ SO ₄ ;4 ^o C
g. N		EPA 351.2	11	mg/L		1 ₂ 50 ₄ ;4°C
		Cal- culation	H	mø/T.	ļ .	_ ,
trate		1	11			i ₂ so ₄ ;4°c i ₂ so ₄ ;4°c
trate			Cal- culation EPA 353.2	Cal culation "	Cal_culation " mg/L	Cal_culation " mg/L Unfiltered

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

ER Form 17-1.216(2) ffective January 1, 1983

GHS . 4051C000258

Manitoring Well # 405/A16514

Mell Neme 4mw-5

Classification of Groundwater Floridan

Well Developed* Prior to Sample Collection (Yes/No) YES Sample Date 03/14/95

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

Ground Water Elevation (above MSL) 27.66

STORE T Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample filtered/Unfiltered	Preser- d vatives Added
	Calcium	Well	215.1	57.9	mg/L	Unfiltered	HNO3;4°C
	Manganese	Wizard	243.1	< 0.01	mg/L	Unfiltered	HNO ₃ ;4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Magnesium	Mon.	242.1	1.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Sodium	System	273.1	3.15	mg/L	Unfiltered	HNO ₃ ;4°C
	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ;4°C
	рH		Electro.	7.70	Std		Field
	Specific-		(SM 205) reference	246	umhos/	Unfiltered	Field
Í	Turbidity		Nephelo-	0.32	NTU	Unfiltered	Cool 4°C
	Chloride .		SM 407A	24.4	mg/L	Unfiltered	4°c
}	Sulfate	:	375.4	4.2	mg/L	Unfiltered	Cool 4°C
ľ	TDS	·	SM 209B	193	mg/L	Unfiltered	Cool 4°C
]:	Bicarb.		310.1	44.0	mg/L	Unfiltered	Cool 4°C
ľ	тос		415.1	5.38	mg/L	1	H ₂ SO ₄ ;4°C
.	ин ₃ -и		EPA 350.2	<0.07	mg/L		H ₂ SO ₄ ;4 ^O C
1	NH ₄ -N		Cal- culation	<0.02	mg/L	· · · · · · · · · · · · · · · · · · ·	H ₂ SO ₄ ;4 ^O C
	Org. N		EPA 351.2	ረ 0.07	mg/L		H ₂ SO ₄ ;4°C
7	rn		Cal- culation	∠ 0.10			H ₂ SO ₄ ;4 ^O C
h	Vitrate	·-	EPA 353.2	< 0.10	mg/L		H ₂ SO ₄ ;4°C

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

ER form 17-1.216(2) ffective January 1, 1983

GHS 1 40510000258

Monitoring Well # 4051A16510

Well Name _ 2 mw-6

Classification of Groundwater <u>Surficial</u>

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

Sample Date ____03/14/95 Well Type: [] Background [] Site Boundary [] Intermediate

[] Compliance

ft

Ground Water Elevation (above MSL) DRY

E T •	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preser- vatives Added
	Calcium	Well	215.1	DRY	mg/L	Unfiltered	HNO3;4°C
ì	Manganese	Wizard	243.1	H	mg/L	Unfiltered	HNO ₃ ; 4°C
- 1	Zinc	Ded.	289.1	11	mg/L	Unfiltered	HNO ₃ ; 4°C
- 4	Magnesium	Mon.	242.1	n	mg/L	Unfiltered	HNO ₃ ; 4°C
-	Sodium	System	273.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
- 1	Iron		236.1	11	mg/L	Unfiltered	HNO ₃ ;4°C
- 1	ЭН		Electro.	11	Stdunits	Unfiltered	Field
15	Specific-		(SM 205) reference	11	umhos/	Unfiltered	Field
]	Curbidity		Nephelo- metric	11	NTU	Unfiltered	Cool 4 ^o C
þ	Chloride		SM 407A	11	mg/L	Unfiltered	4 ⁰ C
s	Sulfate		375.4	. #	.mg/L		Cool 4°C
Т	DS	·	SM 209B	11	1		Cool 4°C
В	icarb.		310.1	Ħ	1 .		Cool 4°C
T	oc		415.1	11	j i		H ₂ SO ₄ ;4°C
Į.	H ₃ -N	•	EPA 350.2	11	ſ		H ₂ SO ₄ ;4°C
N	H ₄ -N	}	Cal- culation	11	1 ' 1	ļ f	H ₂ SO ₄ ;4 ^O C
l	rg. N		EPA 351.2	11		<u>. </u>	H ₂ SO ₄ ;4 ^O C
T	N		Cal- culation	11]		H ₂ SO ₄ ;4°C
N:	itrate	-	EPA 353.2	11	i	ł.	1 ₂ 50 ₄ ;4 ^o C

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

ER Form 17-1.216(2) ffective January 1, 1983

GHS 1 4051C 000258

Monitoring Well # 4051A16515

Well Name 4 mw-6

Classification of Groundwater Floridan

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

Sample Date 03/14/95

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

Ground Water Elevation (above MSL) 31.33 F

	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	
	Calcium	Well	215.1	39.8	mg/L	Unfiltered	Added HNO ₃ ;4 ^O C
	Manganese	Wizard	243.1	۷0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
	Zinc	Ded.	289.1	< 0.01	mg/L	Unfiltered	HNO ₃ ; 4°C
- 1	Magnesium	Mon.	242.1	0.57	mg/L	Unfiltered	HNO ₃ ; 4°C
- 1	Sodium	System	273.1	3.10	mg/L	Unfiltered	HNO ₃ ;4°C
- 1	Iron		236.1	< 0.02	mg/L	Unfiltered	HNO ₃ ;4°C
- 1	рH		Electro.	7.87	Stdunits	Unfiltered	Field
-	Specific-		(SM 205) reference	128	umhos/	Unfiltered	Field
ľ	Turbidity		Nephelo- metric	0.12	NTU	Unfiltered	Cool 4 ^O C
- (Chloride		SM 407A	5.6	mg/L	Unfiltered	4°C
	Sulfate		375.4	2.1	1]	Cool 4 ⁰ C
3	rds	•	SM 209B	74	1	· · · · · · · · · · · · · · · · · · ·	Cool 4°C
- [Bicarb.		310.1	52.0			Cool 4°C
]7	roc	·	415.1	3.46	ł		H ₂ SO ₄ ;4°C
- 1	¹ H ₃ -N		EPA 350.2	<0.07	mg/L	1	H ₂ SO ₄ ;4 ^O C
- 1	¹ H ₄ -N		Cal- culation	< 0.02	mg/L	ı	H ₂ SO ₄ ;4°C
-	rg. N		EPA 351.2	۷0.07	mg/L		H ₂ SO ₄ ;4°C
T	'n	Ì	Cal- culation	0.62	mg/L	ł	4 ₂ 50 ₄ ;4 ^o c
NT.	itrate		EPA 353.2	0.62		1	1 ₂ 50 ₄ ,4 °C

dell development is the process of pumping the well prior to sampling in order to obtain a spresentative ground water sample.

IR form 17-1.216(2)
ffective January 1, 1983



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY 14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 04/03/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QI 1995 RESAMPLE

SAMPLE NUMBER- 34691 SAMPLE ID- RR 4MW1

DATE SAMPLED- 03/23/95

DATE RECEIVED- 03/28/95 SAMPLER- CHRIS CHILDRESS

TIME RECEIVED- 1200 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW

TIME SAMPLED- 1500

RECEIVED BY- DH TYPE SAMPLE- Pumped

Page 1 of 1

ANALYSIS

ANALYSIS

METHOD

DATE TIME BY RESULT UNITS

CHLORIDE

TOTAL DISS.SOLIDS

EPA 325.3 03/29/95 1000 K/C

294 mg/L EPA 325.3 03/29/95 1000 K/C 294 mg/L EPA160.1 03/28/95 1500 JK 1084 mg/L

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

RESOURCE RECOVERY 14230 HAYS ROAD

SPRING HILL, FL 34610-

Attn: VINCENT MANNELLA

DATE: 04/03/95

DHRS # 54237, E44123

RESOURCE RECOVERY GWM - QI 1995 RESAMPLE

SAMPLE NUMBER- 34284 SAMPLE ID- RR 2MW2 RESAMPLE

SAMPLE MATRIX- WW TIME SAMPLED- 0900

DATE SAMPLED- 03/16/95

DATE RECEIVED- 03/16/95 SAMPLER- JAMES SAINSBURY

RECEIVED BY- DH

TIME RECEIVED- 1400 DELIVERED BY- JAMES SAINSBURY

TYPE SAMPLE- Pumped

Page 1 of 1

METHOD	ANALYSIS DATE	TIME	ВУ	RESULT	UNITS
FIELD	03/16/95	0900	JAM	34.91	FEET
EPA 150.0	03/16/95	0900	JAM	5.73	STD. UNITS
EPA 170.1	03/16/95	0900	JAM	22.7	DEGREES C
EPA 120.1	03/16/95	0900	JAM	138	umhos/cm
EPA 360.1	03/16/95	0900	JAM	1.32	mg/L
EPA 353.2	03/20/95	1100	IF	13.9	mg/L
	FIELD EPA 150.0 EPA 170.1 EPA 120.1 EPA 360.1	METHOD DATE FIELD 03/16/95 EPA 150.0 03/16/95 EPA 170.1 03/16/95 EPA 120.1 03/16/95 EPA 360.1 03/16/95	METHOD DATE TIME FIELD 03/16/95 0900 EPA 150.0 03/16/95 0900 EPA 170.1 03/16/95 0900 EPA 120.1 03/16/95 0900 EPA 360.1 03/16/95 0900	METHOD DATE TIME BY	METHOD DATE TIME BY RESULT FIELD 03/16/95 0900 JAM 34.91 EPA 150.0 03/16/95 0900 JAM 5.73 EPA 170.1 03/16/95 0900 JAM 22.7 EPA 120.1 03/16/95 0900 JAM 138 EPA 360.1 03/16/95 0900 JAM 1.32

LABORATORY DIRECTOR