



PASCO COUNTY, FLORIDA

WACS 45799
4051M 30035
Q4 1994 GWMR

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

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

December 23, 1994

Ms. Allison Amram
Environmental Specialist III
Florida Department of
Environmental Protection
Waste Management Section
3804 Coconut Palm Dr.
Tampa, FL 33619-8318

RECEIVED
JAN 3 1995
EA SOLID WASTE

RE: Groundwater Monitoring Analyses

Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW3, 2MW7, 2MW8, 2MW9, 2MW10, 4MW3, 4MW7, 4MW8, and 4MW9 at the Hays Road Class III Landfill for the Quarter IV (October-December) sampling period.

Sincerely,

Candia E. Mulhern
Laboratory Supervisor

CEM/r122210/56:ltr

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 Regulation

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

DER Form # _____
Form Title _____
Effective Date _____
DER Application No. _____

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

GMS # 4051M30035

DATE _____

DER PERMIT # 5051-182279

Hays Road Class III Landfill

Installation Name

1275 Hays Rd. Spring Hill, Fl 34610

Address City State Zip County

Candia Mulhern

Laboratory Supervisor

Owner or Authorized Representative's Name

Title

Method of Discharge _____

Type of Industry Class III Landfill

Report for Period Oct 1994 to Dec 1994
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

12/20/94
Date

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

GMS # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2mw-3

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	Preservative Added
000620	Nitrate	Well Wz. Ded. Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /L
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4 ^c
082079	Turbidity		SM 214A	"	NTU	"	4 ^o C
000940	Chloride		SM 407A	"	mg/L	"	4 ^o C
070300	TDS		SM 209B	"	mg/L	"	4 ^o C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4 ^c
000945	Sulfate		FPA 375.4	"	mg/L	"	4 ^o C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /L
000095	Spec. Conduc.		SM 205	"	mhos/cm	"	Field
000410	Bicarbonate		SM 403	"	mg/l	"	4 ^o C
072020	Water Level				DRY	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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2mw-7

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
000620	Nitrate	Well Wiz. Ded. Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /4 ^o C
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4 ^o C
082079	Turbidity		SM 214A	"	NTU	"	4 ^o C
000940	Chloride		SM 407A	"	mg/L	"	4 ^o C
070300	TDS		SM 209B	"	mg/L	"	4 ^o C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4 ^o C
000945	Sulfate		FPA 375.4	"	mg/L	"	4 ^o C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /4 ^o C
000095	Spec. Conduc.	SM 205	"	mhos/cm	"	Field	
000410	Bicarbonate	SM 403	"	mg/l	"	4 ^o C	
072020	Water Level			DRY	Feet	"	Field

*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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2 MW 8

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
000620	Nitrate	Well Wiz. Ded. Mon System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /4 ⁰ C
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4 ⁰ C
082079	Turbidity		SM 214A	"	NTU	"	4 ⁰ C
000940	Chloride		SM 407A	"	mg/L	"	4 ⁰ C
070300	TDS		SM 209B	"	mg/L	"	4 ⁰ C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4 ⁰ C
000945	Sulfate		EPA 375.4	"	mg/L	"	4 ⁰ C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /4 ⁰ C
000095	Spec. Conduc	SM 205	"	mhos/cm	"	Field	
000410	Bicarbonate	SM 403	"	mg/L	"	4 ⁰ C	
072020	Water Level			"	Feet	"	Field

*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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2 MW 9

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	Preservative Added
000620	Nitrate	Well Wiz Ded.Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4
000945	Sulfate		EPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /4
000095	Spec. Conduc.		SM 205	"	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	"	mg/L	"	4°C
072020	Water Level			"	Feet	"	Field

*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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundar
 Intermediat
 Compliance

Well Name 2 MW 10

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	Preservative Added
000620	Nitrate	Well Wiz. Ded. Mon System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /-
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /-
000945	Sulfate		EPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /
000095	Spec. Conduc		SM 205	"	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	"	mg/L	"	4°C
072020	Water Level			"	Feet	"	Field

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

-M

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

GMS # 4051M30035

Sample Date 10/17/94

Monitoring Well # _____

Well Name 4 MW 3

6322

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Classification of Groundwater Floridan

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

Ground Water Elevation ⁷²⁹⁰²
 (above MSL) 31.45

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample	Preservatives Added
						Filtered/Unfiltered	
000620	Nitrate	Well Wiz. Ded. Mon. System	EPA 353.2	0.10	mg/L	Unfiltered	H ₂ SO ₄ /4
000929	Sodium		EPA 273.1	13.8	mg/L	"	HNO ₃ /4 ⁰
082079	Turbidity		SM 214A	0.38	NTU	"	4 ⁰ C
000940	Chloride		SM 407A	59.4	mg/L	"	4 ⁰ C
070300	TDS		SM 209B	362	mg/L	"	4 ⁰ C
000400	pH		EPA 150.1	7.25	Std. units	"	Field
001045	Iron		EPA 236.1	0.14	mg/L	"	HNO ₃ /4 ⁰
000945	Sulfate		EPA 375.4	6.7	mg/L	"	4 ⁰ C
000010	Temp.		SM 212	25.60	°C	"	Field
000680	TOC		EPA 415.1	6.14	mg/L	"	H ₂ SO ₄ /4 ⁰
000095	Spec. Conduc.	SM 205	437	µmhos/cm	"	Field	
000410	Bicarbonate	SM 403	146	mg/L	"	4 ⁰ C	
072020	Water Level		31.45	Feet	"	Field	

*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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 7

6232

Classification of Groundwater Floridian

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

Ground Water Elevation (above MSL) 30.23

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
000620	Nitrate	WELL WIZARD DED. MON. SYSTEM	EPA 353.2	<u>0.10</u>	mg/L	Unfiltered	H ₂ SO ₄ /4°C
000929	Sodium		EPA 273.1	2.75	mg/L	"	HNO ₃ /4°C
082079	Turbidity		SM 214A	0.768	NTU	"	4°C
000940	Chloride		SM 407A	5.4	mg/L	"	4°C
070300	TDS		SM 209B	177	mg/L	"	4°C
000400	pH		EPA 150.1	7.25	Std. units	"	Field
001045	Iron		EPA 236.1	0.04	mg/L	"	HNO ₃ /4°C
000945	Sulfate		EPA 375.4	1.0	mg/L	"	4°C
000010	Temp.		SM 212	<u>25.50</u>	°C	"	Field
000680	TOC		EPA 415.1	6.75	mg/L	"	H ₂ SO ₄ /4°C
000095	Spec. Conduc.	SM 205	237	<u>4</u> mhos/cm	"	Field	
000410	Bicarbonate	SM 403	147	mg/L	"	4°C	
072020	Water Level			30.23	Feet	"	Field

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

10/13/94

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

GMS # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 8

6233

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 31.95

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
000620	Nitrate	Well Wiz	EPA 353.2	0.10	mg/L	Unfiltered	H ₂ SO ₄ /4
000929	Sodium	Ded. Mon System	EPA 273.1	3.13	mg/L	"	HNO ₃ /4 ^o
082079	Turbidity		SM 214A	1.62	NTU	"	4 ^o C
000940	Chloride		SM 407A	6.1	mg/L	"	4 ^o C
070300	TDS		SM 209R	165	mg/L	"	4 ^o C
000400	pH		EPA 150.1	6.89	Std. units	"	Field
001045	Iron		EPA 236.1	0.07	mg/L	"	HNO ₃ /4 ^o
000945	Sulfate		EPA 375.4	←	mg/L	"	4 ^o C
000010	Temp.		SM 212	23.80	°C	"	Field
000680	TOC		EPA 415.1	6.75	mg/L	"	H ₂ SO ₄ /4 ^o
000095	Spec. Conduc.		SM 205	226	mhos/cm	"	Field
000410	Bicarbonate		SM 403	140	mg/L	"	4 ^o C
072020	Water Level			30.23	Feet	"	Field

*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 # 4051M30035

Sample Date 10/13/94

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 9

634

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 29.88

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservatives Added
000620	Nitrate	Well Wiz Ded.Mon. System	FPA 353.2	0.10	mg/L	Unfiltered	H ₂ SO ₄ /4
000929	Sodium		EPA 273.1	3.13	mg/L	"	HNO ₃ /4 ⁰ C
082079	Turbidity		SM 214A	1.04	NTU	"	4 ⁰ C
000940	Chloride		SM 407A	9.9	mg/L	"	4 ⁰ C
070300	TDS		SM 209B	192	mg/L	"	4 ⁰ C
000400	pH		EPA 150.1	7.15	Std.units	"	Field
001045	Iron		EPA 236.1	0.22	mg/L	"	HNO ₃ /4 ⁰ C
000945	Sulfate		EPA 375.4	1.1	mg/L	"	4 ⁰ C
000010	Temp.		SM 212	25.00	°C	"	Field
000680	TOC		EPA 415.1	166	mg/L	"	H ₂ SO ₄ /4 ⁰
000095	Spec. Conduc		SM 205	288	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	166	mg/L	"	4 ⁰ C
072020	Water Level			29.88	Feet	"	Field

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



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

CLASS III LANDFILL
HAYS ROAD
SHADY HILLS, FL 34610-
Attn: ROBERT TIETZ

PROJECT NAME: CLIII GWM QIV
DATE: 10/24/94
DHRS # 54237, E44123

HAYS ROAD CLASS III LANDFILL GWM - QUARTER IV 1994 (Page 1 of 1)

LAB No.	SAMPLE			DELIVERY TO LAB	
	DATE	TIME	SAMPLER	DATE	TIME MATRIX
29309	10/13/94	1330	CHRIS CHILDRESS	10/13/94	1530 WW
29310	10/13/94	1300	CHRIS CHILDRESS	10/13/94	1530 WW
29311	10/13/94	1415	CHRIS CHILDRESS	10/13/94	1530 WW

CLIENT STATION ID:	4MW7 (CLIII)	4MW8 (CLIII)	4MW9 (CLIII)
LAB #:	29309	29310	29311

WATER LEVEL	FEET	30.23	31.95	29.88
FIELD PH	STD. UNITS	7.25	7.31	7.15
FIELD TEMPERATURE	DEGREES C	25.50	23.80	25.00
FIELD CONDUCTIVITY	umhos/cm	273	261	316
DISSOLVED OXYGEN, FIELD	mg/L	1.0	1.5	0.8
ALKALINITY, BICARB.	mg/l	147	140	166
TOT. ORGANIC CARBON	mg/L	6.75	7.13	8.80
CHLORIDE	mg/L	5.4	6.1	9.9
FECAL COLIFORM MF	MF/100 ml	<1	<1	<1
NITRATE	mg/L	<0.10	<0.10	<0.10
PH, LAB	std units	6.89	6.98	6.90
TEMPERATURE, LAB	degrees C	13.5	14.3	15.0
TOTAL DISS. SOLIDS	mg/L	177	165	192
SPEC. CONDUCTIVITY	umhos	237	226	288
SULFATE	mg/L	1.0	<1	1.1
TURBIDITY	NTU	0.768	1.62	1.04
IRON, TOTAL	mg/L	0.04	0.07	0.22
SODIUM, TOTAL	mg/L	2.75	3.13	4.17

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

GC REPORT FOR CLASS III LANDFILL 10/24/94

QA/QC for SAMPLE Nos: 29309, 29310, 29311,

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										
NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS										
TOT. ORGANIC CARBON	29110	4.46	4.57	0.11	2.44	-----	9917	26.8	27.8	103.40
EPA 415.1	29106	-----	-----	-----	-----	100.00	-----	-----	-----	-----
mg/L										
CHLORIDE	29309	439	444	5.0	1.13	97.60	STD	20.0	19.7	98.50
EPA 325.3										
mg/L										
FECAL COLIFORM MF	29310	<1	<1	0.10	0.00	-----	-----	-----	-----	-----
9090										
MF/100 ml										
NITRATE	29215	-----	-----	-----	-----	109.00	STANDARD	4.00	3.953	98.30
EPA 353.2	29289	<0.10	<0.10	0.050	0.00	-----	-----	-----	-----	-----
mg/L	29309	<0.10	<0.10	0.050	0.00	-----	-----	-----	-----	-----
	29312	3.18	3.19	0.010	0.31	-----	-----	-----	-----	-----
PH, LAB										
EPA150.1										
std units										
NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS										
TEMPERATURE, LAB										
EPA 150.1										
degrees C										



PASCO COUNTY, FLORIDA

GC REPORT FOR CLASS III LANDFILL 10/24/94

QA/QC for SAMPLE Nos. 29309, 29310, 29311,
Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL DISS. SOLIDS EPA160.1 mg/L	0	2880	2870	10	0.35	-----	STD	293	298	101.70
CHLORIDE EPA100.1 umhos	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
SULFATE EPA375.4 mg/L	29308	-----	-----	-----	-----	98.30	STD	20.0	21.1	105.50
	29381	6.7	6.8	0.10	1.43	-----	-----	-----	-----	-----
TURBIDITY EPA180.1 NTU	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
IRON, TOTAL 236.2 mg/L	29311	.227	.234	0.0070	3.04	100.00	-----	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	29381	14.1	14.3	0.20	1.41	101.20	-----	-----	-----	-----



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST
		DATE	TIME	
BICARB. ALK	EPA310.1	10/14/94	1400	JK
CL-	EPA 325.3	10/14/94	1000	JK
COND	EPA120.1	10/13/94	1600	CSC
COND, FIELD	EPA 120.1	10/13/94	1300	CHR
DO, FIELD	EPA 360.1	10/13/94	1300	CHR
FE/T/AA	236.2	10/19/94	1400	TER
FECAL MF	909C	10/13/94	1530	MR
FIELD TEMP	EPA 170.1	10/13/94	1300	CHR
H2O LEVEL	FIELD	10/13/94	1300	CHR
NA/T/FLAA	273.1	10/19/94	1450	TER
NO3	EPA 353.2	10/14/94	1200	CEM
PH	EPA150.1	10/13/94	1600	CSC
PH, FIELD	EPA 150.0	10/13/94	1300	CHR
SO4	EPA375.4	10/17/94	1000	JK
IDS	EPA160.1	10/13/94	1500	JK
TEMP., LAB	EPA 150.1	10/13/94	1600	CSC
TOC	EPA 415.1	10/14/94	1100	TER
TURB	EPA180.1	10/13/94	1600	CSC



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

CLASS III LANDFILL
HAYS ROAD
SHADY HILLS, FL 34610-
Attn: ROBERT TIETZ

DATE: 10/27/94
DHRS # 54237, E44123



CLASS III LANDFILL GWM - QUARTER IV 1994

SAMPLE NUMBER- 29381 SAMPLE ID- 4M3A
DATE SAMPLED- 10/17/94
DATE RECEIVED- 10/17/94 SAMPLER- CHRIS CHILDRESS
TIME RECEIVED- 1530 DELIVERED BY- CHRIS CHILDRESS

SAMPLE MATRIX- WW
TIME SAMPLED- 1445
RECEIVED BY- MR
TYPE SAMPLE- Grab

Page 1 of 1

ANALYSIS	METHOD	SAMPLE PREP		ANALYSIS		RESULT	UNITS
		DATE	BY	DATE	TIME BY		
WATER LEVEL	FIELD			10/17/94	1445 CHR	31.45	FEET
FIELD PH	EPA 150.0			10/17/94	1445 CHR	7.25	STD. UNITS
FIELD TEMPERATURE	EPA 170.1			10/17/94	1445 CHR	25.60	DEGREES C
FIELD CONDUCTIVITY	EPA 120.1			10/17/94	1445 CHR	437	umhos/cm
DISSOLVED OXYGEN, FIELD	EPA 360.1			10/17/94	1445 CHR	1.2	mg/L
ALKALINITY, BICARB.	EPA310.1			10/20/94	1400 JK	146	mg/L
TOT. ORGANIC CARBON	EPA 415.1			10/21/94	1130 TER	6.14	mg/L
CHLORIDE	EPA 325.3			10/19/94	1000 JK	59.4	mg/L
FECAL COLIFORM MF	909C			10/17/94	1230 MR	<1	MF/100 ml
NITRATE	EPA 353.2			10/18/94	1032 CEM	<0.10	mg/L
PH, LAB	EPA150.1			10/18/94	1600 CSC	7.13	std units
TEMPERATURE, LAB	EPA 150.1			10/13/94	1600 CSC	16.1	degrees C
TOTAL DISS. SOLIDS	EPA160.1			10/19/94	1500 JK	362	mg/L
SPEC. CONDUCTIVITY	EPA120.1			10/17/94	1600 CSC	408	umhos
SULFATE	EPA375.4			10/19/94	1000 JK	6.7	mg/L
TURBIDITY	EPA180.1			10/17/94	1600 CSC	0.38	NTU
IRON, TOTAL	236.2	10/19/94	TER	10/19/94	1400 TER	0.14	mg/L
SODIUM, TOTAL	273.1	10/19/94	TER	10/19/94	1450 TER	13.8	mg/L

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

QC REPORT FOR CLASS III LANDFILL 10/27/74

QA/QC for SAMPLE Nos: 29381,
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, SICARD. EPA 310.1 mg/l	29440	<1	<1	0.50	0.00	-----	QC#3406	33	30	103.50
TOT. ORGANIC CARBON EPA 415.1 mg/L	29439 29440	----- 34.4	----- 28.2	----- 6.2	----- 19.81	99.50 -----	9957	25.8	27.0	104.60
CHLORIDE EPA 325.0 mg/L	29373 29440	442 -----	443 -----	3.0 -----	0.68 -----	----- 106.10	STD	20.0	19.3	96.50
FECAL COLIFORM MF 5090 MF/100 ml		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
NITRATE EPA 353.0 mg/L	29394 29403 29413	5.00 <0.10 <0.10	6.10 <0.10 <0.10	0.32 0.050 0.050	5.37 0.00 0.00	----- ----- -----	QA/QC 3406 QA/QC 9957	14.3 13.3	13.8 13.5	95.50 101.50
PH, LAB EPA 150.1 std units		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								
TEMPERATURE, LAB EPA 150.1 degrees C		NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS								



PASCO COUNTY, FLORIDA

20 REPORT FOR CLASS IIC LANDFILL 10/27/94

QA/QC for SAMPLE Nos: 29381,
Page 2

Analyte	LAB ID	Precision Data		Range	RPD %	Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B			% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL DISS. SOLIDS EPA160.1 mg/L	29413	168	173	5.0	2.93	-----	STD	293	294	100.00
SPEC. CONDUCTIVITY EPA129.1 uMhos	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
SULFATE EPA375.4 mg/L	29308	-----	-----	-----	-----	98.00	STD	20.0	21.1	105.00
	29381	6.7	6.8	0.10	1.48	-----	-----	-----	-----	-----
TURBIDITY EPA130.1 NTU	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
IRON, TOTAL 236.2 mg/L	29311	.227	.234	0.0070	3.04	100.00	-----	-----	-----	-----
SODIUM, TOTAL 273.1 mg/L	29381	14.1	14.3	0.20	1.41	101.20	-----	-----	-----	-----



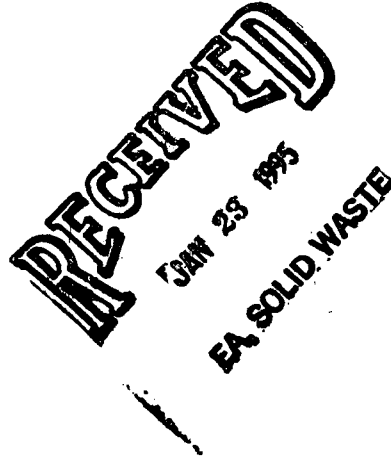
PASCO COUNTY, FLORIDA

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

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

January 20, 1995

Ms. Allison Amram
Environmental Specialist III
Florida Department of
Environmental Protection
Waste Management Section
3804 Coconut Palm Drive
Tampa, FL 33619-8318



RE: Groundwater Monitoring Analyses

Dear Ms. Amram:

Enclosed are the groundwater monitoring analyses from Monitoring Wells 2MW3, 4MW3, 2MW7, 4MW7, 2MW8, 4MW8, 2MW9, 4MW9, and 2MW10 at the Hays Road Class III Landfill for the Quarter I (January-March) sampling period.

Sincerely,

A handwritten signature in cursive script that reads "Candia E. Mulhern".

Candia E. Mulhern
Laboratory Manager

CEM/dlh

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 Regulation

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

DER Form # _____
Form Fee _____
Effective Date _____
DER Application No. _____

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

GMS # 4051M30035

DATE _____

DER PERMIT # 5051-182279

Hays Road Class III Landfill

Installation Name

1275 Hays Rd. Spring Hill, FL 34610

Address City State Zip County

Candia Mulhern

Laboratory Supervisor

Owner or Authorized Representative's Name

Title

Method of Discharge

Type of Industry Class III Landfill

Report for Period Jan 1995 to Mar 1995
date date

Attach monitoring data as approved in monitoring plan using parameter monitoring report forms. When applicable, attach additional sheets describing any changes in the background water quality and the discharge plume since the last reported description. Include any changes in size, direction of movement, rate of movement, and concentration changes of plume constituents in violation of the applicable standards.

NOTE: Pursuant to Rule 17-4.245(6)(k)3., at any time there is a change in the permitted volume, location or chemical, physical or microbiological composition of the discharge plume, the permittee shall notify the department and, if required by the department, submit a new report stating the volume and chemical, physical and microbiological compositions of the discharge at the point of release or contact with the ground water at the site boundary.

CERTIFICATION

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

Candia E. Mulhern
Owner or Authorized Representative's Signature

01/20/95
Date

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

GMS # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2 MW-3

Classification of Groundwater Surficial

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

Ground Water Elevation
(above MSL) DRY

STOREY Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
000620	Nitrate	Well Wiz. Ded. Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4
000945	Sulfate		FPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 217	"	°C	"	Field
000680	TNC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /
000095	Spec. Conduc.	SM 205	"	mhos/cm	"	Field	
000410	Bicarbonate	SM 403	"	mg/l	"	4°C	
072020	Water Level		"	Feet	"	Field	
031616	Fecal Colif.	MF	"	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 3

Classification of Groundwater Floridan

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

Ground Water Elevation (above MSL) 29.45

63m

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
000620	Nitrate	Well Wiz. Ded.Mon. System	EPA 353.2	<0.10	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium		EPA 273.1	7.55	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	1.26	NTU	"	4°C
000940	Chloride		SM 407A	33.9	mg/L	"	4°C
070300	TDS		SM 209B	272	mg/L	"	4°C
000400	pH		EPA 150.1	7.31	Std.units	"	Field
001045	Iron		EPA 236.1	0.11	mg/L	"	HNO ₃ /4
000945	Sulfate		EPA 375.4	4.1	mg/L	"	4°C
000010	Temp.		SM 212	21.8	°C	"	Field
000680	TOC		EPA 415.1	9.67	mg/L	"	H ₂ SO ₄ /
000095	Spec. Conduc.		SM 205	361	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	148	mg/L	"	4°C
072020	Water Level			29.45	Feet	"	Field
031616	Fecal Colif.	MF	<1	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2mw-7

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	Preservative Added
000620	Nitrate	Well Wiz. Ded. Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4
000945	Sulfate		FPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /
000095	Spec. Conduc.	SM 205	"	µmhos/cm	"	Field	
000410	Bicarbonate	SM 403	"	mg/l	"	4°C	
072020	Water Level			"	Feet	"	Field
031616	Fecal Colif.	MF		"	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 7

6232

Classification of Groundwater Floridian

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

Ground Water Elevation (above MSL) 27.93

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
000620	Nitrate	WELL WIZARD DED. MON. SYSTEM	EPA 353.2	<0.10	mg/L	Unfiltered	H ₂ SO ₄ /4°
000929	Sodium		EPA 273.1	3.62	mg/L	"	HNO ₃ /4°
082079	Turbidity		SM 214A	0.28	NTU	"	4°C
000940	Chloride		SM 407A	4.7	mg/L	"	4°C
070300	TDS		SM 209B	161	mg/L	"	4°C
000400	pH		EPA 150.1	7.42	Std.units	"	Field
001045	Iron		EPA 236.1	<0.02	mg/L	"	HNO ₃ /4°
000945	Sulfate		EPA 375.4	<1	mg/L	"	4°C
000010	Temp.		SM 212	22.7	°C	"	Field
000680	TOC		EPA 415.1	10.8	mg/L	"	H ₂ SO ₄ /4°
000095	Spec. Conduc.		SM 205	243	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	126	mg/L	"	4°C
072020	Water Level			27.93	Feet	"	Field
031616	Fecal Colif.		MF	<1	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 2 MW 8

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	Preservative Added
000620	Nitrate	Well Wiz. Ded. Mon System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄ /4 ^C
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /4 ^C
082079	Turbidity		SM 214A	"	NTU	"	4 ^o C
000940	Chloride		SM 407A	"	mg/L	"	4 ^o C
070300	TDS		SM 209B	"	mg/L	"	4 ^o C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /4 ^C
000945	Sulfate		EPA 375.4	"	mg/L	"	4 ^o C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄ /4 ^C
000095	Spec. Conduc	SM 205	"	mhos/cm	"	Field	
000410	Bicarbonate	SM 403	"	mg/L	"	4 ^o C	
072020	Water Level		"	Feet	"	Field	
031616	Fecal Colif.	MF	"	cts/100ml	"	Cool 4 ^o 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 8

Classification of Groundwater Floridan

6233

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

Ground Water Elevation (above MSL) 29.65

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
000620	Nitrate	Well Wiz	EPA 353.2	<0.10	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium	Ded. Mon. System	EPA 273.1	3.41	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	0.82	NTU	"	4°C
000940	Chloride		SM 407A	6.4	mg/L	"	4°C
070300	TDS		SM 209R	181	mg/L	"	4°C
000400	pH		EPA 150.1	7.35	Std. units	"	Field
001045	Iron		EPA 236.1	<0.02	mg/L	"	HNO ₃ /4
000945	Sulfate		EPA 375.4	1.4	mg/L	"	4°C
000010	Temp.		SM 212	22.5	°C	"	Field
000680	TOC	EPA 415.1	14.4	mg/L	"	H ₂ SO ₄ /	
000095	Spec. Conduc.	SM 205	266	µmhos/cm	"	Field	
000410	Bicarbonate	SM 403	141	mg/L	"	4°C	
072020	Water Level		29.65	Feet	"	Field	
031616	Fecal Colif.	MF	<1	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundar
 Intermediate
 Compliance

Well Name 2 MW 9

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	Preservative Added
000620	Nitrate	Well Wiz Ded.Mon. System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std.units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /
000945	Sulfate		EPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄
000095	Spec.Conduc.		SM 205	"	mhos/cm	"	Field
000410	Bicarbonate		SM 403	"	mg/L	"	4°C
072020	Water Level			"	Feet	"	Field
031616	Fecal Colif.		MF	"	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Boundary
 Intermediate
 Compliance

Well Name 4 MW 9

Classification of Groundwater Floridan

6234

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

Ground Water Elevation (above MSL) 27.88

STORET Code	Parameter Monitored	Sampling Method	Analysis Method	Analysis Result	Units	Sample Filtered/Unfiltered	Preservative Added
000620	Nitrate	Well Wiz Ded.Mon. System	FPA 353.2	<0.10	mg/L	Unfiltered	H ₂ SO ₄ /
000929	Sodium		EPA 273.1	3.61	mg/L	"	HNO ₃ /4
082079	Turbidity		SM 214A	0.26	NTU	"	4°C
000940	Chloride		SM 407A	8.0	mg/L	"	4°C
070300	TDS		SM 209B	202	mg/L	"	4°C
000400	pH		EPA 150.1	7.25	Std.units	"	Field
001045	Iron		EPA 236.1	<0.02	mg/L	"	HNO ₃ /4
000945	Sulfate		EPA 375.4	1.4	mg/L	"	4°C
000010	Temp.		SM 212	23.7	°C	"	Field
000680	TOC		EPA 415.1	12.1	mg/L	"	H ₂ SO ₄ /
000095	Spec.Conduc		SM 205	302	µmhos/cm	"	Field
000410	Bicarbonate		SM 403	160	mg/L	"	4°C
072020	Water Level			27.88	Feet	"	Field
031616	Fecal Colif.		MF	<1	cts/100ml	"	Cool 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 # 4051M30035

Sample Date 01/09/95

Monitoring Well # _____

Well Type: Background
 Site Bounda
 Intermediat
 Compliance

Well Name 2 MW 10

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	Pres. vati. Add.
000620	Nitrate	Well Wiz. Ded. Mon System	EPA 353.2	DRY	mg/L	Unfiltered	H ₂ SO ₄
000929	Sodium		EPA 273.1	"	mg/L	"	HNO ₃ /
082079	Turbidity		SM 214A	"	NTU	"	4°C
000940	Chloride		SM 407A	"	mg/L	"	4°C
070300	TDS		SM 209B	"	mg/L	"	4°C
000400	pH		EPA 150.1	"	Std. units	"	Field
001045	Iron		EPA 236.1	"	mg/L	"	HNO ₃ /
000945	Sulfate		EPA 375.4	"	mg/L	"	4°C
000010	Temp.		SM 212	"	°C	"	Field
000680	TOC		EPA 415.1	"	mg/L	"	H ₂ SO ₄
000095	Spec. Conduc		SM 205	"	mhos/cm	"	Field
000410	Bicarbonate		SM 403	"	mg/L	"	4°C
072020	Water Level			"	Feet	"	Field
031616	Fecal Colif.		MF	"	cts/100ml	"	Cool 4°C

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



PASCO COUNTY, FLORIDA

REPORT OF ANALYSES

CLASS III LANDFILL
HAYS ROAD
SHADY HILLS, FL 34610-
Attn: VINCENT MANNELLA

PROJECT NAME: CL III GWM Q195
DATE: 01/20/95
DHRS # 54237, K44123

CLASS III LANDFILL GWM - QUARTER I 1995 (Page 1 of 1)

LAB No.	SAMPLE			DELIVERY TO LAB		
	DATE	TIME	SAMPLER	DATE	TIME	MATRIX
31992	01/09/95	1115	CHRIS CHILDRESS	01/09/95	1600	WA
31993	01/09/95	1215	CHRIS CHILDRESS	01/09/95	1600	WA
31994	01/09/95	1300	CHRIS CHILDRESS	01/09/95	1600	WA
31995	01/09/95	1500	CHRIS CHILDRESS	01/09/95	1600	WA

CLIENT STATION ID:	4MW3A	4MW7	4MW8	4MW9
LAB #:	31992	31993	31994	31995

H2O LEVEL	FEET	29.45	27.93	29.65	27.88
PH, FIELD	STD. UNITS	7.31	7.42	7.35	7.25
FIELD TEMP	DEGREES C	21.8	22.7	22.5	23.7
COND, FIELD	umhos/cm	361	243	266	302
DO, FIELD	mg/L	2.4	1.5	1.0	0.9
BICARB. ALK	mg/l	148	126	141	160
TOC	mg/L	9.67	10.8	14.4	12.1
CL-	mg/L	33.9	4.7	6.4	8.0
FECAL MF	MF/100 ml	<1	<1	<1	<1
NO3	mg/L	<0.10	<0.10	<0.10	<0.10
PH	std units	7.50	7.77	7.70	7.56
TEMP., LAB	degrees C	2.2	2.8	3.5	5.7
TDS	mg/L	272	161	181	202
COND	umhos	373	264	289	332
SO4	mg/L	4.1	<1	1.4	1.4
TURB	NTU	1.26	0.28	0.82	0.26
FE/T/AA	mg/L	0.11	<0.02	<0.02	<0.02
NA/T/FLAA	mg/L	7.55	3.62	3.41	3.61

LABORATORY DIRECTOR



PASCO COUNTY, FLORIDA

DATE, TIME, ANALYST REPORT

ANALYSIS	METHOD	ANALYSIS		ANALYST
		DATE	TIME	
BICARB. ALK	EPA310.1	01/12/95	1400	JK
CL-	EPA 325.3	01/13/95	1000	JK
COND	EPA120.1	01/09/95	1620	CSC
COND, FIELD	EPA 120.1	01/09/95	1115	CHR
DO, FIELD	EPA 360.1	01/09/95	1115	CHR
FE/T/AA	236.2	01/13/95	1420	TER
FECAL MF	909C	01/09/95	1553	MR
FIELD TEMP	EPA 170.1	01/09/95	1115	CHR
H2O LEVEL	FIELD	01/09/95	1115	CHR
NA/T/FLAA	273.1	01/13/95	1145	TER
NO3	EPA 353.2	01/12/95	1200	IF
PH	EPA150.1	01/09/95	1620	CSC
PH, FIELD	EPA 150.0	01/09/95	1115	CHR
SO4	EPA375.4	01/14/95	1000	JK
TDS	EPA160.1	01/11/95	1500	JK
TEMP., LAB	EPA 150.1	01/09/95	1620	CSC
TOC	EPA 415.1	01/12/95	1100	IF
TURB	EPA180.1	01/09/95	1620	CSC



PASCO COUNTY, FLORIDA

QC REPORT FOR CLASS III LANDFILL 01/20/95

QA/QC for SAMPLE Nos: 31992, 31993, 31994, 31995,
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. EPA 310.1 mg/l	31995	160.5	159.2	1.3	0.81	-----	QC#9960	119	118.7	100.20
TOT. ORGANIC CARBON EPA 415.1 mg/L	-----	-----	-----	-----	-----	-----	STD	5.000	5.860	117.20
CHLORIDE EPA 325.3 mg/L	32002	3.0	3.3	0.30	9.52	99.00	STD	20.0	20.1	100.50
FECAL COLIFORM MF 90°C MF/100 ml	31995	<1	<1	0.50	0.00	-----	-----	-----	-----	-----
NITRATE EPA 353.2 mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
PH, LAB EPA 150.1 std units	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
TEMPERATURE, LAB EPA 150.1 degrees C	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									



PASCO COUNTY, FLORIDA

QC REPORT FOR CLASS III LANDFILL 01/20/95

QA/QC for SAMPLE Nos: 31992, 31993, 31994, 31995,
Page 2

Analyte	LAB ID	Precision Data				Accuracy Data	Reference Sample Data			
		Replicate A	Replicate B	Range	RPD %	% Spike Recovery	Reference Sample ID	Target	Found	% Recovery
TOTAL DISS.SOLIDS EPA160.1 mg/L	31988	446	438	8.0	1.81	-----	STD	293	295	100.70
SPEC.CONDUCTIVITY EPA120.1 umhos	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
SULFATE EPA375.4 mg/L	32049	-----	-----	-----	-----	97.50	STD	20.0	20.8	104.40
	32050	23.2	23.3	0.10	0.43	-----	STD	20.0	20.75	103.80
TURBIDITY EPA180.1 NTU	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									
IRON,TOTAL 236.2 mg/L	31992	110	109	1.0	0.91	-----	-----	-----	-----	-----
SODIUM,TOTAL 273.1 mg/L	NO DUPLICATE, SPIKE, OR REFERENCE SAMPLES FOR THIS ANALYSIS									