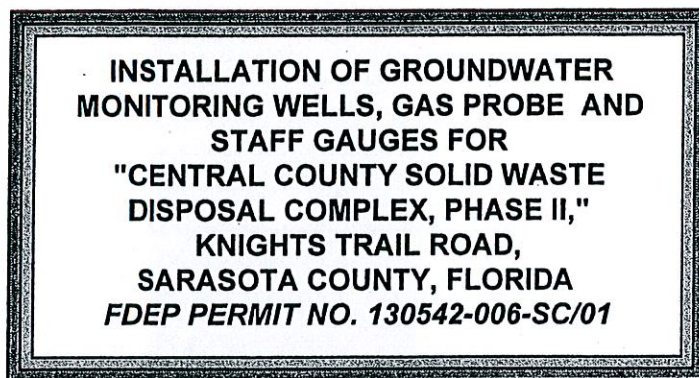


516145  
JMM  
3/17/00

GAS PROBE  
CONSTRUCTION  
DETAILS



PROVIDED AS ATTACHMENT F  
OF THE PHASE II CERTIFICATION  
OF CONSTRUCTION COMPLIANCE SUBMITTAL



**Ardaman & Associates, Inc.**

Dept. Of Environmental Protection  
FEB 12 2010

Southwest District

**OFFICES**

**Orlando**, 8008 S. Orange Avenue, Orlando, Florida 32809, Phone (407) 855-3860  
**Bartow**, 1525 Centennial Drive, Bartow, Florida 33830, Phone (863) 533-0858  
**Cocoa**, 1300 N. Cocoa Boulevard, Cocoa, Florida 32922, Phone (321) 632-2503  
**Fort Lauderdale**, 3665 Park Central Boulevard North, Pompano Beach, Florida 33064, Phone (954) 969-8788  
**Fort Myers**, 9970 Bavaria Road, Fort Myers, Florida 33913, Phone (239) 768-6600  
**Miami**, 2608 W. 84<sup>th</sup> Street, Hialeah, Florida 33016, Phone (305) 825-2683  
**Port Charlotte**, 740 Tamiami Trail, Unit 3, Port Charlotte, Florida 33954, Phone (941) 624-3393  
**Port St. Lucie**, 460 NW Concourse Place Unit #1, Port St. Lucie, Florida 34986-2248, Phone (772) 878-0072  
**Sarasota**, 78 Sarasota Center Blvd., Sarasota, Florida 34240, Phone (941) 922-3526  
**Tallahassee**, 3175 West Tharpe Street, Tallahassee, Florida 32303, Phone (850) 576-6131  
**Tampa**, 3925 Coconut Palm Drive, Suite 115, Tampa, Florida 33619, Phone (813) 620-3389  
**West Palm Beach**, 2511 Westgate Avenue, Suite 10, West Palm Beach, Florida 33409, Phone (561) 687-8200

**MEMBERS:**  
A.S.F.E.  
American Concrete Institute  
American Society for Testing and Materials  
Florida Institute of Consulting Engineers

Florida Department of Environmental Protection  
Twin Towers Office Bldg. 2600 Blair Stone Road Tallahassee, Florida 32399-2400

DEP Form # 62-522.900(3)
Form Title <u>MONITOR WELL COMPLETION REPORT</u>
Effective Date _____
DEP Application No. _____ (Filled in by DEP)

## MONITOR WELL COMPLETION REPORT

DATE: 8/13/09

INSTALLATION NAME: Central County Solid Waste Disposal Complex, Phase II

DEP PERMIT NUMBER: 130542-006-SC/01 GMS NUMBER: WACS No. SWD/58/51614

WELL NUMBER: GP-09 WELL NAME: Gas Probe

DESIGNATION: Background \_\_\_\_\_ Immediate \_\_\_\_\_ Compliance \_\_\_\_\_

LATITUDE/LONGITUDE: 27 12.191/82 23.769

AQUIFER MONITORED: NA

INSTALLATION METHOD: Hollow-stem auger

INSTALLED BY: Daniel Peace

TOTAL DEPTH: 14.0' (bls) DEPTH OF SCREEN: 2.0'-14.0' (bls)

SCREEN LENGTH: 12.0' SCREEN SLOT SIZE: 0.010" SCREEN TYPE: PVC SCH 80 slotted

CASING DIAMETER: 1" CASING TYPE: PVC SCH 80

LENGTH OF CASING: 5.0' (3.0' above grade) FILTER PACK MATERIAL: Pea gravel

TOP OF CASING ELEVATION (MSL): 23.75'

GROUND SURFACE ELEVATION (MSL): 20.75'

COMPLETION DATE: 7/15/09

DESCRIBE WELL DEVELOPMENT: NA

POST DEVELOPMENT WATER LEVER ELEVATION (MSL): NA

DATE AND TIME MEASURED: NA

REMARKS: (soils information, stratigraphy, etc.) :See attached soil boring log

REPORT PREPARED BY: Ashby Hoover, P.E. (Ardaman & associates, Inc.)  
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

BORING LOCATION: See report

CLIENT: Sara: County Government

DATE DRILLED: 7/15/09 START:

FINISH:

PROJECT: CCSWDC, Ph 2, gas well

GROUND SURFACE ELEVATION: 20.75

LOCATION: See report

WATER TABLE DEPTH: 5.2'

TIME:

DATE: 6/23/09

DRILL CREW: Dan &amp; Mark

LOGGED BY: Mark O.

DRILL MAKE &amp; MODEL: CME 45 BIT: fishtail

DRILLING RODS:

DRILLING METHOD: hollow-stem auger

WEATHER CONDITIONS:

DEPTH, FT.	SPT N-VALUE	SAMPLE NO.	GRAPHIC LOG	USCS	SOIL DESCRIPTION	WATER CONTENT (%)	PERCENT FINES	ORGANIC CONTENT	LIQUID LIMIT	PLAST. INDEX
0				SP-SM	mixed brown fine sand w/silt (fill)					
2				SP	gray fine sand w/orange streaks					
				SP	pale brown fine sand w/orange streaks					
				SP	pale brown fine sand					
4				SP	pale brown fine sand w/orange streaks					
				SP-SM	yellow-brown fine sand with silt					
				SP	gray fine sand					
6				SP-SC	gray fine sand with clay					
				SC	gray clayey fine sand					
8										
				SP-SM	brown fine sand w/silt, trace clay					
10										
12										
				ML	gray slightly cemented silt w/phosphate					
14					End of boring					



Ardaman &amp; Associates, Inc.

PAGE 1 OF 1

Geotechnical, Environmental and  
Materials Consultants

REVIEWED BY: Craig Obrecht, P.E.

FILE NO: 09-8647

BORING NO.: GP-09





## SARASOTA COUNTY

*"Dedicated to Quality Service"*

May 11, 2007

Susan Pelz, P.E. *5/23*  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

168444  
xls ✓  
FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

MAY 21 2007

SOUTHWEST DISTRICT  
TAMPA

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-SO/01  
Second Quarter 2007 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number Part F C of the operating permit are the 2<sup>nd</sup> quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2078.

Sincerely,

*PAWingler*  
Paul A. Wingler P.E.  
*Solid Waste Operations*

*A*

K:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2007 reports\2nd qtr 07 reports.doc



**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number 130542-002-SO/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	5/10/07	T. Foxworthy
GP 2	0	5/10/07	T. Foxworthy
GP 3	0	5/10/07	T. Foxworthy
GP 4	0	5/10/07	T. Foxworthy
GP 5	0	5/10/07	T. Foxworthy
GP 6	0	5/10/07	T. Foxworthy
GM-1	0	5/10/07	T. Foxworthy
GM-2	0	5/10/07	T. Foxworthy
GM-3	0	5/10/07	T. Foxworthy
GM-4	0	5/10/07	T. Foxworthy
GM-5	0	5/10/07	T. Foxworthy
GM-6	0	5/10/07	T. Foxworthy
GM-7	0	5/10/07	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



# SARASOTA COUNTY

"Dedicated to Quality Service"

188444  
xls ✓ 8/3/19

## Dept. of Environmental Protection

MAR 16 2007

March 5, 2007

## Southwest District

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-SO/01  
First Quarter 2007 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number Part F C of the operating permit are the 1st quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1578.

Sincerely,

Paul Wingler  
Solid Waste Operations

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number 130542-002-SO/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	1/17/06	T. Foxworthy
GP 2	0	1/17/06	T. Foxworthy
GP 3	0	1/17/06	T. Foxworthy
GP 4	0	1/17/06	T. Foxworthy
GP 5	0	1/17/06	T. Foxworthy
GP 6	0	1/17/06	T. Foxworthy
GM-1	0	1/17/06	T. Foxworthy
GM-2	0	1/17/06	T. Foxworthy
GM-3	0	1/17/06	T. Foxworthy
GM-4	0	1/17/06	T. Foxworthy
GM-5	0	1/17/06	T. Foxworthy
GM-6	0	1/17/06	T. Foxworthy
GM-7	0	1/17/06	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





## SARASOTA COUNTY

"Dedicated to Quality Service"

188444 SNW

J 11/20/06

EXIS ✓

November 17, 2006

Dept. of Environmental  
Protection

NOV 17 2006

Southwest District

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-so/01  
Fourth Quarter 2006 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 4th quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1578

Sincerely,

Paul Wingler P. E  
*Solid Waste Operations*

K:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2006 reports\2006 reports.doc 4th.doc

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number 130542-002-so/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	11/09/06	T. Foxworthy
GP 2	0	11/09/06	T. Foxworthy
GP 3	0	11/09/06	T. Foxworthy
GP 4	0	11/09/06	T. Foxworthy
GP 5	0	11/09/06	T. Foxworthy
GP 6	0	11/09/06	T. Foxworthy
GM-1	0	11/09/06	T. Foxworthy
GM-2	0	11/09/06	T. Foxworthy
GM-3	0	11/09/06	T. Foxworthy
GM-4	0	11/09/06	T. Foxworthy
GM-5	0	11/09/06	T. Foxworthy
GM-6	0	11/09/06	T. Foxworthy
GM-7	0	11/09/06	T. Foxworthy

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
**NOV 17 2006**  
SOUTHWEST DISTRICT  
TAMPA

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



## SARASOTA COUNTY

"Dedicated to Quality Service"

August 22, 2006

Susan Pelz, P.E. *8/28*  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-so/01  
Third Quarter 2006 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
Solid Waste Operations

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
AUG 25 2006  
SOUTHWEST DISTRICT  
TAMPA

*C*



**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number 130542-002-so/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	8/22/06	T. Foxworthy
GP 2	0	8/22/06	T. Foxworthy
GP 3	0	8/22/06	T. Foxworthy
GP 4	0	8/22/06	T. Foxworthy
GP 5	0	8/22/06	T. Foxworthy
GP 6	0	8/22/06	T. Foxworthy
GM-1	0	8/22/06	T. Foxworthy
GM-2	0	8/22/06	T. Foxworthy
GM-3	0	8/22/06	T. Foxworthy
GM-4	0	8/22/06	T. Foxworthy
GM-5	0	8/22/06	T. Foxworthy
GM-6	0	8/22/06	T. Foxworthy
GM-7	0	8/22/06	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
AUG 25 2006  
SOUTHWEST DISTRICT  
TAMPA



SARASOTA COUNTY

"Dedicated to Quality Service"

Dept. of Environmental  
Protection

MAY 12 2006

May 10, 2006

Southwest District

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2006 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
Solid Waste Operations

E:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2006 reports\2006 reports.doc2nd.doc

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	5/08//06	T. Foxworthy
GP 2	0	5/08//06	T. Foxworthy
GP 3	0	5/08//06	T. Foxworthy
GP 4	0	5/08//06	T. Foxworthy
GP 5	0	5/08//06	T. Foxworthy
GP 6	0	5/08//06	T. Foxworthy
GM-1	0	5/08//06	T. Foxworthy
GM-2	0	5/08//06	T. Foxworthy
GM-3	0	5/08//06	T. Foxworthy
GM-4	0	5/08//06	T. Foxworthy
GM-5	0	5/08//06	T. Foxworthy
GM-6	0	5/08//06	T. Foxworthy
GM-7	0	5/08//06	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





# SARASOTA COUNTY

*"Dedicated to Quality Service"*

November 1, 2005

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-so/01  
Fourth Quarter 2005 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number part F-3 of the operating permit are the Fourth quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number 130542-002-so/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0%	10/26/05	T. Foxworthy
GP 2	0%	10/26/05	T. Foxworthy
GP 3	0%	10/26/05	T. Foxworthy
GP 4	0%	10/26/05	T. Foxworthy
GP 5	0%	10/26/05	T. Foxworthy
GP 6	0%	10/26/05	T. Foxworthy
GM-1	0%	10/26/05	T. Foxworthy
GM-2	0%	10/26/05	T. Foxworthy
GM-3	0%	10/26/05	T. Foxworthy
GM-4	0%	10/26/05	T. Foxworthy
GM-5	0%	10/26/05	T. Foxworthy
GM-6	0%	10/26/05	T. Foxworthy
GM-7	0%	10/26/05	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

188444



# SARASOTA COUNTY

"Dedicated to Quality Service"



August 5, 2005

Susan Pelz, P.E. *SP*  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number 130542-002-so/01  
Third Quarter 2005 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number part F-3 of the operating permit are the Third quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

*Don Shaulis*

Don Shaulis  
Solid Waste Operations

①



**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number 130542-002-so/01**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0%	8/4/05	T. Foxworthy
GP 2	0%	8/4/05	T. Foxworthy
GP 3	0%	8/4/05	T. Foxworthy
GP 4	0%	8/4/05	T. Foxworthy
GP 5	0%	8/4/05	T. Foxworthy
GP 6	0%	8/4/05	T. Foxworthy
GM-1	0%	8/4/05	T. Foxworthy
GM-2	0%	8/4/05	T. Foxworthy
GM-3	0%	8/4/05	T. Foxworthy
GM-4	0%	8/4/05	T. Foxworthy
GM-5	0%	8/4/05	T. Foxworthy
GM-6	0%	8/4/05	T. Foxworthy
GM-7	0%	8/4/05	T. Foxworthy

Notes:

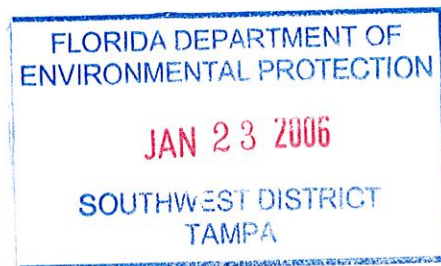
1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



## SARASOTA COUNTY

*"Dedicated to Quality Service"*

GMR 202454



January 19, 2006

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
13051 N. Telcom Parkway  
Temple Terrace, FL 33637-0926

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2006 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1st quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

I:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2006 reports\2006 reports.doc

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	1/17/06	T. Foxworthy
GP 2	0	1/17/06	T. Foxworthy
GP 3	0	1/17/06	T. Foxworthy
GP 4	0	1/17/06	T. Foxworthy
GP 5	0	1/17/06	T. Foxworthy
GP 6	0	1/17/06	T. Foxworthy
GM-1	0	1/17/06	T. Foxworthy
GM-2	0	1/17/06	T. Foxworthy
GM-3	0	1/17/06	T. Foxworthy
GM-4	0	1/17/06	T. Foxworthy
GM-5	0	1/17/06	T. Foxworthy
GM-6	0	1/17/06	T. Foxworthy
GM-7	0	1/17/06	T. Foxworthy

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





## SARASOTA COUNTY

"Dedicated to Quality Service"



June 23, 2005

Susan Pelz, P.E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2005 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2<sup>nd</sup> quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

C

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	6/13/05	T.F.
GP 2	0	6/13/05	T.F.
GP 3	0	6/13/05	T.F.
GP 4	0	6/13/05	T.F.
GP 5	0	6/13/05	T.F.
GP 6	0	6/13/05	T.F.
GM-1	0	6/13/05	T.F.
GM-2	0	6/13/05	T.F.
GM-3	0	6/13/05	T.F.
GM-4	0	6/13/05	T.F.
GM-5	0	6/13/05	T.F.
GM-6	0	6/13/05	T.F.
GM-7	0	6/13/05	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





## SARASOTA COUNTY

*"Dedicated to Quality Service"*



April 5, 2005

Susan Pelz, P.E. *SP/lu*  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2005 - Landfill Gas Migration Monitoring Report

Dear Ms. Pelz:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1st quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 650-2072.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

C

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	3/29/05	T.F.
GP 2	0	3/29/05	T.F.
GP 3	0	3/29/05	T.F.
GP 4	0	3/29/05	T.F.
GP 5	0	3/29/05	T.F.
GP 6	0	3/29/05	T.F.
GM-1	0	3/29/05	T.F.
GM-2	0	3/29/05	T.F.
GM-3	0	3/29/05	T.F.
GM-4	0	3/29/05	T.F.
GM-5	0	3/29/05	T.F.
GM-6	0	3/29/05	T.F.
GM-7	0	3/29/05	T.F.



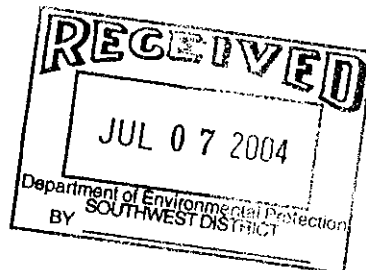
Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



## SARASOTA COUNTY

"Dedicated to Quality Service"



July 1, 2004

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Third Quarter 2004 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 3rd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Enclosure  
C: Susan Pelz, P.E. FDEP -- (w/o enclosure)

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**



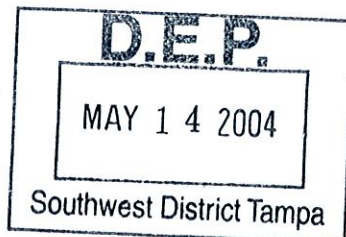
Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0%	7/1/04	T.F.
GP 2	0%	7/1/04	T.F.
GP 3	0%	7/1/04	T.F.
GP 4	0%	7/1/04	T.F.
GP 5	0%	7/1/04	T.F.
GP 6	0%	7/1/04	T.F.
GM-1	0%	7/1/04	T.F.
GM-2	0%	7/1/04	T.F.
GM-3	0%	7/1/04	T.F.
GM-4	0%	7/1/04	T.F.
GM-5	0%	7/1/04	T.F.
GM-6	0%	7/1/04	T.F.
GM-7	0%	7/1/04	T.F.

**Notes:**

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



**SARASOTA COUNTY**  
"Dedicated to Quality Service"



202454  
ΣΜΣ 5/28/04

May 12, 2004

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2004 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1577.

Sincerely,

Don Shaulis  
Solid Waste Operations

Attachment

C: Susan J. Pelz, P.E. FDEP Tampa



FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

MAY 14 2004

SOUTHWEST DISTRICT  
TAMPA

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	4/29/04	T.F.
GP 2	0	4/29/04	T.F.
GP 3	0	4/29/04	T.F.
GP 4	0	4/29/04	T.F.
GP 5	0	4/29/04	T.F.
GP 6	0	4/29/04	T.F.
GM-1	0	4/29/04	T.F.
GM-2	0	4/29/04	T.F.
GM-3	0	4/29/04	T.F.
GM-4	0	4/29/04	T.F.
GM-5	0	4/29/04	T.F.
GM-6	0	4/29/04	T.F.
GM-7	0	4/29/04	T.F.
GM-8	0	4/29/04	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



## SARASOTA COUNTY

"Dedicated to Quality Service"

188444  
R 5-704

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
FEB 26 2004  
SOUTHWEST DISTRICT  
TAMPA

February 25, 2004

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2004 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1st quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1577.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment

C: Susan J. Pelz P.E. FDEP Tampa (w/o attachments)

I:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2004 reports\1st qtr 04 gas migration.doc

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
**FEB 26 2004**  
SOUTHWEST DISTRICT  
TAMPA

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	2/24/04	T.F.
GP 2	0	2/24/04	T.F.
GP 3	0	2/24/04	T.F.
GP 4	0	2/24/04	T.F.
GP 5	0	2/24/04	T.F.
GP 6	0	2/24/04	T.F.
GM-1	0	2/24/04	T.F.
GM-2	0	2/24/04	T.F.
GM-3	0	2/24/04	T.F.
GM-4	0	2/24/04	T.F.
GM-5	0	2/24/04	T.F.
GM-6	0	2/24/04	T.F.
GM-7	0	2/24/04	T.F.
GM-8	0	2/24/04	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



**SARASOTA COUNTY**  
"Dedicated to Quality Service"



188444

December 3, 2003

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Fourth Quarter 2003 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 4th quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment  
C: Susan Pelz, P.E. FDEP- (w/o enclosure)

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0 %	12/1/03	T.F.
GP 2	0 %	12/1/03	T.F.
GP 3	0 %	12/1/03	T.F.
GP 4	0 %	12/1/03	T.F.
GP 5	0 %	12/1/03	T.F.
GP 6	0 %	12/1/03	T.F.
GM-1	0 %	12/1/03	T.F.
GM-2	0 %	12/1/03	T.F.
GM-3	0 %	12/1/03	T.F.
GM-4	0 %	12/1/03	T.F.
GM-5	0 %	12/1/03	T.F.
GM-6	0 %	12/1/03	T.F.
GM-7	0 %	12/1/03	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





**SARASOTA COUNTY**  
"Dedicated to Quality Service"



186444  
2R 10-6-03

September 2, 2003

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Third Quarter 2003 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 3rd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Enclosure  
C: Susan Pelz, P.E. FDEP – (w/o enclosure)

I:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2003 reports\3rd qtr 03 gas migration.doc

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**



Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0%	8/19/03	T.F.
GP 2	0%	8/19/03	T.F.
GP 3	0%	8/19/03	T.F.
GP 4	0%	8/19/03	T.F.
GP 5	0%	8/19/03	T.F.
GP 6	0%	8/19/03	T.F.
GM-1	0%	8/19/03	T.F.
GM-2	0%	8/19/03	T.F.
GM-3	0%	8/19/03	T.F.
GM-4	0%	8/19/03	T.F.
GM-5	0%	8/19/03	T.F.
GM-6	0%	8/19/03	T.F.
GM-7	0%	8/19/03	T.F.

**Notes:**

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



SARASOTA COUNTY  
"Dedicated to Quality Service"



1466-144  
JR 4-8-03

June 24, 2003

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2003 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1577.

Sincerely,

Don Shaulis  
Solid Waste Operations

Attachment

C: Susan J. Pelz P.E. FDEP Tampa (w/o attachments)

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	6/24/03	T.F.
GP 2	0	6/24/03	T.F.
GP 3	0	6/24/03	T.F.
GP 4	0	6/24/03	T.F.
GP 5	0	6/24/03	T.F.
GP 6	0	6/24/03	T.F.
GM-1	0	6/24/03	T.F.
GM-2	0	6/24/03	T.F.
GM-3	0	6/24/03	T.F.
GM-4	0	6/24/03	T.F.
GM-5	0	6/24/03	T.F.
GM-6	0	6/24/03	T.F.
GM-7	0	6/24/03	T.F.
GM-8	0	6/24/03	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

264-14-03 188444



## SARASOTA COUNTY

"Dedicated to Quality Service"



March 24, 2003

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2003 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1st quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions at (941) 861-1577.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment

C: Susan J Pelz, P.E. FDEP

I:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2003 reports\1st qtr 03 gas migration.doc





**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	3/24/03	T.F.
GP 2	0	3/24/03	T.F.
GP 3	0	3/24/03	T.F.
GP 4	0	3/24/03	T.F.
GP 5	0	3/24/03	T.F.
GP 6	0	3/24/03	T.F.
GM-1	0	3/24/03	T.F.
GM-2	0	3/24/03	T.F.
GM-3	0	3/24/03	T.F.
GM-4	0	3/24/03	T.F.
GM-5	0	3/24/03	T.F.
GM-6	0	3/24/03	T.F.
GM-7	0	3/24/03	T.F.
GM-8	0	3/24/03	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



SARASOTA COUNTY

"Dedicated to Quality Service"



188444  
29 12-10-02

November 29, 2002

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Fourth Quarter 2002 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 4th quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment

I:\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2002 reports\4th quarter 02 gas migration.doc

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	11/21/02	T.F.
GP 2	0	11/21/02	T.F.
GP 3	0	11/21/02	T.F.
GP 4	0	11/21/02	T.F.
GP 5	0	11/21/02	T.F.
GP 6	0	11/21/02	T.F.
GM-1	0	11/21/02	T.F.
GM-2	0	11/21/02	T.F.
GM-3	0	11/21/02	T.F.
GM-4	0	11/21/02	T.F.
GM-5	0	11/21/02	T.F.
GM-6	0	11/21/02	T.F.
GM-7	0	11/21/02	T.F.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



**SARASOTA COUNTY**  
"Dedicated to Quality Service"



188444  
dk 12-9-02

September 23, 2002

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Third Quarter 2002 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 3rd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	9/20/02	
GP 2	0	9/20/02	
GP 3	0	9/20/02	
GP 4	0	9/20/02	
GP 5	0	9/20/02	
GP 6	0	9/20/02	
GM-1	0	9/20/02	
GM-2	0	9/20/02	
GM-3	0	9/20/02	
GM-4	0	9/20/02	
GM-5	0	9/20/02	
GM-6	0	9/20/02	
GM-7	0	9/20/02	

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

188444  
6/5/02 dh



**SARASOTA COUNTY**  
"Dedicated to Quality Service"



May 14, 2002

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2002 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

Attachment

J:\USER\shared\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2002 reports\2nd quater 02 gas migration.doc



**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	5/9/02	T.F.
GP 2	0	5/9/02	T.F.
GP 3	0	5/9/02	T.F.
GP 4	0	5/9/02	T.F.
GP 5	0	5/9/02	T.F.
GP 6	0	5/9/02	T.F.
GM-1	0	5/9/02	T.F.
GM-2	0	5/9/02	T.F.
GM-3	0	5/9/02	T.F.
GM-4	0	5/9/02	T.F.
GM-5	0	5/9/02	T.F.
GM-6	0	5/9/02	T.F.
GM-7	0	5/9/02	T.F.

GP-4: 9/98/3/99

GP-5: 6/99

GP-6: 9/98/12/98/3/99/6/99/9/99

GP-1: 6/99/9/99

GP-3: 9/99

GM-6 SINCE Q 3 1998
GM-7 SINCE Q 4 1999

**Notes:**

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

Pg. # = 168444  
5/23/02 JR



## SARASOTA COUNTY

*"Dedicated to Quality Service"*

**D.E.P.**

**MAR 20 2002**

**Southwest District Tampa**

March 15, 2002

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2002 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1<sup>st</sup> quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

DS

Attachment

C: Robert J. Butera, P.E., FDEP, Tampa w/o attachment

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	3/07/01	J.S.
GP 2	0	3/07/01	J.S.
GP 3	0	3/07/01	J.S.
GP 4	0	3/07/01	J.S.
GP 5	0	3/07/01	J.S.
GP 6	0	3/07/01	J.S.
GM-1	0	3/07/01	J.S.
GM-2	0	3/07/01	J.S.
GM-3	0	3/07/01	J.S.
GM-4	0	3/07/01	J.S.
GM-5	0	3/07/01	J.S.
GM-6	0	3/07/01	J.S.
GM-7	0	3/07/01	J.S.

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



## SARASOTA COUNTY

"Dedicated to Quality Service"

188444

D.E.P.  
DEC 13 2001  
Southwest District Tampa

December 7, 2001

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Fourth Quarter 2001 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 4th quarter Landfill Gas Migration Monitoring Report for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

DS

Attachment

C: Robert J. Butera, P.E., FDEP, Tampa w/o attachment  
Kim Ford, P.E., FDEP, Tampa w/o attachment

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	12/7/01	JS
GP 2	0	12/7/01	JS
GP 3	0	12/7/01	JS
GP 4	0	12/7/01	JS
GP 5	0	12/7/01	JS
GP 6	0	12/7/01	JS
GM-1	0	12/7/01	JS
GM-2	0	12/7/01	JS
GM-3	0	12/7/01	JS
GM-4	0	12/7/01	JS
GM-5	0	12/7/01	JS
GM-6	0	12/7/01	JS
GM-7	0	12/7/01	JS
	0	12/7/01	JS

Notes:

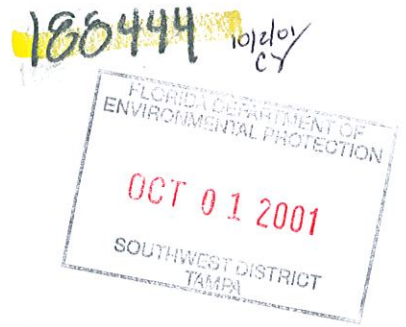
1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





## SARASOTA COUNTY

"Dedicated to Quality Service"



September 28, 2001

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Third Quarter 2001 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 3rd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

DS

Attachment

C: Robert J. Butera, P.E., FDEP, Tampa w/o attachment  
Kim Ford, P.E., FDEP, Tampa w/o attachment

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	9/26/01	TF
GP 2	0	9/26/01	TF
GP 3	0	9/26/01	TF
GP 4	0	9/26/01	TF
GP 5	0	9/26/01	TF
GP 6	0	9/26/01	TF
GM-1	0	9/26/01	TF
GM-2	0	9/26/01	TF
GM-3	0	9/26/01	TF
GM-4	0	9/26/01	TF
GM-5	0	9/26/01	TF
GM-6	0	9/26/01	TF
GM-7	0	9/26/01	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank

**SARASOTA COUNTY***"Dedicated to Quality Service"***D.E.P.**  
**JUL 06 2001**  
**Southwest District Tampa**

July 3, 2001

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2001 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 2nd quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
*Solid Waste Operations*

DS

Attachment

C: Robert J. Butera, P.E., FDEP, Tampa w/o attachment  
Kim Ford, P.E., FDEP, Tampa w/o attachment

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	6/26/01	TF
GP 2	0	6/26/01	TF
GP 3	0	6/26/01	TF
GP 4	0	6/26/01	TF
GP 5	0	6/26/01	TF
GP 6	0	6/26/01	TF
GM-1	0	6/26/01	TF
GM-2	0	6/26/01	TF
GM-3	0	6/26/01	TF
GM-4	0	6/26/01	TF
GM-5	0	6/26/01	TF
GM-6	0	6/26/01	TF
GM-7	0	6/26/01	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



SARASOTA COUNTY

"Dedicated to Quality Service"

RECEIVED  
MAR 27 2001

Department of Environmental Protection  
BY SOUTHWEST DISTRICT

March 23, 2001

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2001 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the 1<sup>st</sup> quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
Solid Waste Operations

DS

Attachment

C: Robert J. Butera, P.E., FDEP, Tampa w/o attachment  
Kim Ford, P.E., FDEP, Tampa w/o attachment



**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	3/23/01	TF
GP 2	0	3/23/01	TF
GP 3	0	3/23/01	TF
GP 4	0	3/23/01	TF
GP 5	0	3/23/01	TF
GP 6	0	3/23/01	TF
GM-1	0	3/23/01	TF
GM-2	0	3/23/01	TF
GM-3	0	3/23/01	TF
GM-4	0	3/23/01	TF
GM-5	0	3/23/01	TF
GM-6	0	3/23/01	TF
GM-7	0	3/23/01	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



SARASOTA COUNTY

"Dedicated to Quality Service"

188444  
D.E.P.  
DEC 21 2000  
Southwest District Tampa

December 19, 2000

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Fourth Quarter 2000 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
Solid Waste Operations

DS

Attachment

- C Robert J. Butera, P.E., FDEP, Tampa w/o attachment
- C Kim Ford, P.E., FDEP, Tampa w/o attachment

F:\USER\shared\projects\Central County Solid Waste Disposal Complex\Landfill Gas\2000 reports\Fourth quarter gas migration.doc

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	12-19-00	TF
GP 2	0	12-19-00	TF
GP 3	0	12-19-00	TF
GP 4	0	12-19-00	TF
GP 5	0	12-19-00	TF
GP 6	0	12-19-00	TF
GM-1	0	12-19-00	TF
GM-2	0	12-19-00	TF
GM-3	0	12-19-00	TF
GM-4	0	12-19-00	TF
GM-5	0	12-19-00	TF
GM-6	0	12-19-00	TF
GM-7	0	12-19-00	TF

**NOTES:**

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



**SARASOTA COUNTY**  
*"Dedicated to Quality Service"*

188444  
**D.E.P.**  
**SEP 05 2000**  
Southwest District Tampa

August 30, 2000

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Third Quarter 2000 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
Solid Waste Operations

DS

Attachment

C Robert J. Butera, P.E., FDEP, Tampa w/o attachment

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	08-29-00	TF
GP 2	0	08-29-00	TF
GP 3	0	08-29-00	TF
GP 4	0	08-29-00	TF
GP 5	0	08-29-00	TF
GP 6	0	08-29-00	TF
GM-1	0	08-29-00	TF
GM-2	0	08-29-00	TF
GM-3	0	08-29-00	TF
GM-4	0	08-29-00	TF
GM-5	0	08-29-00	TF
GM-6	0	08-29-00	TF
GM-7	0	08-29-00	TF
GM-8	0	08-29-00	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





SARASOTA COUNTY

*"Dedicated to Quality Service"*

RECEIVED  
MAY 08 2000

May 3, 2000

John Morris, P. G.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Second Quarter 2000 - Landfill Gas Migration Monitoring Report

Dear Mr. Morris:

Attached in accordance with Specific Condition Number 18 of the operating permit are the landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

Don Shaulis  
Solid Waste Operations

DS

Attachment

C Robert J. Butera, P.E., FDEP, Tampa w/o attachment

MAY 08 2000

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	05-2-00	TF
GP 2	0	05-2-00	TF
GP 3	0	05-2--00	TF
GP 4	0	05-2-00	TF
GP 5	0	05-2-00	TF
GP 6	0	05-2-00	TF
GM-1	0	05-2-00	TF
GM-2	0	05-2-00	TF
GM-3	0	05-2-00	TF
GM-4	0	05-2-00	TF
GM-5	0	05-2-00	TF
GM-6	0	05-2-00	TF
GM-7	0	05-2-00	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



**SARASOTA COUNTY**  
"Dedicated to Quality Service"

188444  
Gas  
\$5 1/2

**RECEIVED**  
JAN 20 2000  
SOLID WASTE DISTRICT

January 14, 2000

*John*  
Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
First Quarter 2000 - Landfill Gas Migration Monitoring Report

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Please contact me if you have any questions.

Sincerely,

*Don Shaulis*

Don Shaulis  
Solid Waste Operations Division

DS

Attachment

C Robert J. Butera, P.E., FDEP, Tampa

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	01-14-00	TF
GP 2	0	01-14-00	TF
GP 3	0	01-14-00	TF
GP 4	0	01-14-00	TF
GP 5	0	01-14-00	TF
GP 6	0	01-14-00	TF
GM-1	0	01-14-00	TF
GM-2	0	01-14-00	TF
GM-3	0	01-14-00	TF
GM-4	0	01-14-00	TF
GM-5	0	01-14-00	TF
GM-6	0	01-14-00	TF
GM-7	0	01-14-00	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank



SARASOTA COUNTY  
"Dedicated to Quality Service"

188444  
85 1/23  
RECEIVED

NOV 17 1999

Department of Environmental Protection  
SOUTHWEST DISTRICT  
BY \_\_\_\_\_

November 12, 1999

*John*  
Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the fourth quarter landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex. Using the suggestion from John Morris that we purge the wells prior to reading, we came up with the following:

GP 1 went to zero after purging for 4 minutes, GP4 went to zero after 3 minutes of purging, GP 5 and GP 6 went to zero after 2 minutes of purging.

Also as requested the control panel will be included in the future gas migration reports.

Please contact me if you have any questions.

Sincerely,

*Don Shaulis*

Don Shaulis  
Solid Waste Operations Division

DS

Attachment

C Robert J. Butera, P.E., FDEP, Tampa

i:\user\shared\projects\central county solid waste disposal complex\landfill gas\1999 reports\3rd qtr 1999 lfg migration monitoring report.doc

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	0	11-12-99	TF
GP 2	0	11-12-99	TF
GP 3	0	11-12-99	TF
GP 4	0	11-12-99	TF
GP 5	0	11-12-99	TF
GP 6	0	11-12-99	TF
GM-1	0	11-12-99	TF
GM-2	0	11-12-99	TF
GM-3	0	11-12-99	TF
GM-4	0	11-12-99	TF
GM-5	0	11-12-99	TF
GM-6	0	11-12-99	TF
GM-7	0	11-12-99	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth
8. GM-7 = Electric panel at leachate tank





## SARASOTA COUNTY

"Dedicated to Quality Service"

188444

JRM

D.E.P.  
OCT 04 1999  
Southwest District Tampa

September 29, 1999

*Don*  
Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the quarterly landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

There were concentrations of methane in excess of the action threshold of 50% LEL observed in GP-1 (240%), GP-3 (120%), GP-4 (80%) and GP-6 (760%). We believe these to be associated with the naturally decaying of organic matter as stated in the report dated October 8, 1998. We will continue to monitor on a quarterly basis.

Please contact me if you have any questions.

Sincerely,

*Don Shaulis*

Don Shaulis  
Solid Waste Operations Division

DS

Attachment

C Robert J. Butera, P.E., FDEP, Tampa

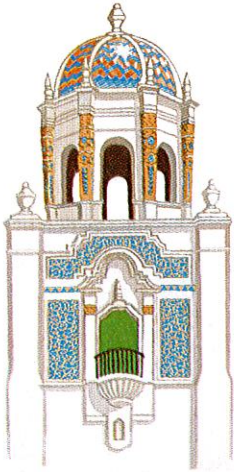
[\\user\\shared\\projects\\central county solid waste disposal complex\\landfill gas\\1999 reports\\3rd qtr 1999 lfg migration monitoring report.doc]

**LANDFILL GAS MIGRATION MONITORING REPORT**  
***CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX***  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	240.0	28-Sep 99	TF
GP 2	0.0	28-Sep 99	TF
GP 3	120.0	28-Sep 99	TF
GP 4	80.0	28-Sep 99	TF
GP 5	0	28-Sep 99	TF
GP 6	760.0	28-Sep 99	TF
GM-1	0.0	28 Sep 99	TF
GM-2	0.0	28 Sep 99	TF
GM-3	0.0	28 Sep 99	TF
GM-4	0.0	28 Sep 99	TF
GM-5	0.0	28 Sep 99	TF
GM-6	0.0	28-Sep 99	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth



**SARASOTA COUNTY GOVERNMENT  
SARASOTA, FLORIDA**

**ENVIRONMENTAL SERVICES  
Solid Waste Operations**

*John Any comments?  
Kim 7/15/99*

July 13, 1999

4000 Knights Trail Road  
Nokomis, Florida 34275  
Telephone (941) 486-2600  
Facsimile (941) 486-2620

Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the quarterly landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

There were concentrations of methane in excess of the action threshold of 50% LEL observed in GP-1 (100%), GP-5 (600%) and GP-6 (760%). We do not attribute these observations to indicate the presence of migrating landfill gas. We believe the methane observed to be associated with the naturally occurring anaerobic decay of organic matter contained in the soil layer in which the probes are screened as previously submitted to the Department in our initial compliance report for this facility (October 8, 1998). We do not feel it is appropriate to install any temporary monitoring points at this time or initiate a more frequent monitoring program. We will continue to perform routine quarterly monitoring.

Please contact me if you have any questions.

Sincerely,

Mark Triplett, P.E.  
Solid Waste Operations Division

RMT  
Attachment

C Robert J. Butera, P.E., FDEP, Tampa

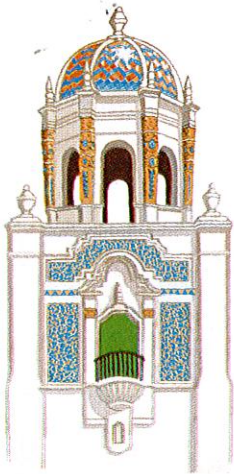
f:\user\shared\projects\central county solid waste disposal complex\landfill gas\1999 reports\1st qtr 1999 lfg migration monitoring report.doc

**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Observer
GP 1	100.0	6 Jul 99	TF
GP 2	0.0	6 Jul 99	TF
GP 3	0.0	6 Jul 99	TF
GP 4	0.0	6 Jul 99	TF
GP 5	600.0	6 Jul 99	TF
GP 6	760.0	6 Jul 99	TF
GM-1	0.0	6 Jul 99	TF
GM-2	0.0	6 Jul 99	TF
GM-3	0.0	6 Jul 99	TF
GM-4	0.0	6 Jul 99	TF
GM-5	0.0	6 Jul 99	TF
GM-6	0.0	6 Jul 99	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contractor operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, County operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth



**SARASOTA COUNTY GOVERNMENT  
SARASOTA, FLORIDA**

**ENVIRONMENTAL SERVICES  
Solid Waste Operations**

**D.E.P.**

APR 16 1999

4000 Knights Trail Road  
Nokomis, Florida 34275  
Telephone (941) 486-2600  
Facsimile (941) 486-2620

Sarasota County, Florida April 13, 1999

Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

1<sup>ST</sup> QTR 1999

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the quarterly landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

There were concentrations of methane in excess of the action threshold of 50% LEL observed in GP-4 (200%) and GP-6 (400%). We do not attribute these observations to indicate the presence of migrating landfill gas. We believe the methane observed to be associated with the naturally occurring anaerobic decay of organic matter contained in the soil layer in which the probes are screened as previously submitted to the Department in our initial compliance report for this facility (October 8, 1998). We do not feel it is appropriate to install any temporary monitoring points at this time or initiate a more frequent monitoring program.

We will continue to perform routine quarterly monitoring. We will be proposing a meeting with the Department in the near future to evaluate alternative strategies for complying with the applicable regulations.

Please contact me if you have any questions.

Sincerely,

Mark Triplett, P.E.  
Solid Waste Operations Division

RMT

Attachment

cc: Robert J. Butera, P.E., FDEP, Tampa

i:\user\shared\projects\central county solid waste disposal complex\landfill gas\1999 reports\1st qtr 1999 lfg migration monitoring report.doc

*"Dedicated to Quality Service"*



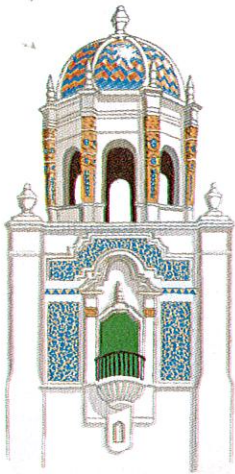
**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Time	Observer
GP 1	0.0	16 Mar 99	0700	TF
GP 2	0.0	16 Mar 99	0705	TF
GP 3	0.0	16 Mar 99	0710	TF
GP 4	200.0	16 Mar 99	0715	TF
GP 5	0.0	16 Mar 99	0720	TF
GP 6	400.0	16 Mar 99	0725	TF
GM-1	0.0	16 Mar 99	0730	TF
GM-2	0.0	16 Mar 99	0735	TF
GM-3	0.0	16 Mar 99	0740	TF
GM-4	0.0	16 Mar 99	0745	TF
GM-5	0.0	16 Mar 99	0750	TF
GM-6	0.0	16 Mar 99	0755	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contract operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, county operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth





**SARASOTA COUNTY GOVERNMENT**  
**SARASOTA, FLORIDA**  
**ENVIRONMENTAL SERVICES**  
**Utilities Department**  
**Solid Waste Operations Division**

4000 Knights Trail Road  
Nokomis, Florida 34275  
Telephone (941) 486-2600  
FAX (941) 486-2620

December 14, 1998

*John*  
Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

4<sup>th</sup> QTR 1998

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the quarterly landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

Methane was observed in excess of the action threshold of 50% LEL GP-6 (900%). We do not attribute this observation to indicate the presence of migrating landfill gas. This was discussed in the third quarter report and in our correspondence of December 4, 1998.

As discussed in that letter, samples were obtained from five locations. These samples were analyzed by GC/FID and GC/MS. The analytical results have been obtained and are summarized below for methane:

- Cell three whale a = 370,000 mg/m<sup>3</sup>
- Cell three whale b = 250,000 mg/m<sup>3</sup>
- Probe installed in the waste = 760 mg/m<sup>3</sup>
- GP-6 = 370,000 mg/m<sup>3</sup>
- Gp-4 = 390,000 mg/m<sup>3</sup>

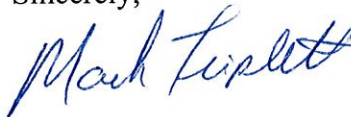
Kim B. Ford, P.E.  
December 14, 1998  
Page 2

Methane and carbon disulfide were the only two analytes detected. The carbon disulfide concentrations were similar for all five samples ranging from 10 to 25 mg/m<sup>3</sup>. The methane concentrations appear to confirm the theory that the gas detected in the migration monitoring probes is related to the gas detected in the whales, but unrelated to the gas detected in the refuse.

Please note that the methane was detected only in monitoring probe GP-6 during this quarter. Therefore, prior to implementing any further action, we will continue quarterly monitoring in order to allow this probe to clear on its' own. An evaluation will be made of the results of the next quarterly monitoring to determine if any further action is warranted.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink that reads "Mark Triplett". The signature is stylized with a large, looped "M" and a cursive "Triplett".

Mark Triplett, P.E.  
Solid Waste Operations Division

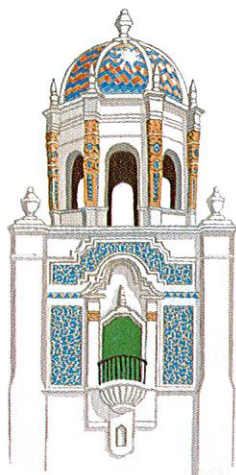
RMT  
Attachment  
C Robert J. Butera, P.E., FDEP, Tampa

**LANDFILL GAS MIGRATION MONITORING REPORT  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
Permit Number SO58-299180**

Monitoring Location	% LEL (Methane in air)	Date	Time	Observer
GP 1	0.0	10 Dec 98	1300	TF
GP 2	0.0	10 Dec 98	1310	TF
GP 3	0.0	10 Dec 98	1315	TF
GP 4	0.0	10 Dec 98	1320	TF
GP 5	0.0	10 Dec 98	1325	TF
GP 6	900.0	10 Dec 98	1330	TF
GM-1	0.0	10 Dec 98	1340	TF
GM-2	0.0	10 Dec 98	1335	--
GM-3	Not constructed	--	--	--
GM-4	0.0	10 Dec 98	1350	TF
GM-5	0.0	10 Dec 98	1355	TF
GM-6	0.0	10 Dec 98	1400	TF

Notes:

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contract operations
3. GM-2 = MRF office trailer
4. GM-3 = Maintenance building, county operations
5. GM-4 = Administration building
6. GM-5 = Scale house
7. GM-6 = Control booth



**SARASOTA COUNTY GOVERNMENT  
SARASOTA, FLORIDA**

**Utilities Department  
Solid Waste Operations Division**

4000 Knights Trail Road  
Nokomis, Florida 34275  
Telephone (941) 486-2600  
FAX (941) 486-2620

December 4, 1998

*John*  
Kim B. Ford, P.E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619

Re: Central County Solid Waste Disposal Complex  
Permit Number SO58-299180  
Bubbles under the Cell 3 Liner

D.E.P.  
DEC - 8 1998  
SOUTHWEST FLORIDA  
TAMPA

Dear Mr. Ford:

The purpose of this letter is to provide the Department with documentation of the actions taken to mitigate the bubbles (whales) that developed between the clay and synthetic liners in cell three. Whales had also developed in cells two and four, but of a much smaller nature. The whales in cells two and four have dissipated without any action taken.

In cell three, two two-inch diameter vents were installed to vent the accumulated gas. This gas was sampled and analyzed. The results will be presented with the fourth quarter landfill gas migration monitoring report as discussed. The vents will remain in place until just prior to the placement of waste in cell three. At that time, repairs will be made to the synthetic liner and will include quality assurance testing and documentation.

Please contact me if you have any questions.

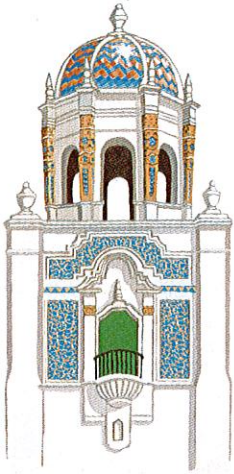
Sincerely,

Mark Triplett, P.E.  
Solid Waste Operations Division

RMT

C Robert J. Butera, P.E., FDEP - Tampa





**SARASOTA COUNTY GOVERNMENT  
SARASOTA, FLORIDA**

**Utilities Department  
Solid Waste Operations Division**

REC'D 10/7/98

4000 Knights Trail Road  
Nokomis, Florida 34275  
Telephone (941) 486-2600  
FAX (941) 486-2620

John →  
October 5, 1998

Kim B. Ford, P. E.  
Florida Department of Environmental Protection  
3804 Coconut Palm Drive  
Tampa, Florida 33619-8318

Subject: Central County Solid Waste Disposal Complex  
Permit Number S058-299180  
Quarterly Landfill Gas Migration Monitoring Report

3<sup>RD</sup> QTR 1998

Dear Mr. Ford:

Attached in accordance with Specific Condition Number 18 of the operating permit are the quarterly landfill gas migration monitoring readings for the Central County Solid Waste Disposal Complex.

There were concentrations of methane in excess of the action threshold of 50% LEL observed in GP-4 (400%) and GP-6 (360%). Methane was also observed in GP-1 (40%). All of these locations are located at various distances from the active cell (cell one).

We do not attribute these observations to indicate the presence of migrating landfill gas. We believe the methane observed to be associated with the naturally occurring anaerobic decay of organic matter contained in the soil layer in which the probes are screened. This organic layer was observed during installation of the probes and also during construction of the materials recovery facility.

A survey was conducted along the site boundary in ambient air to determine if any methane could be detected. There was none observed. Therefore, we do not feel it is appropriate to install any temporary monitoring points at this time or initiate a more frequent monitoring program.

Kim B. Ford, P.E.  
October 1, 1998  
Page 2

Because the oldest refuse landfilled at this facility is only 90 days old, it is unreasonable to expect the formation of landfill gas in quantities great enough to be the source of these observations. This site is also underlain by a composite liner system which acts as a barrier to migrating landfill gas.

We will continue to perform routine quarterly monitoring. If the next quarterly observations again indicate the presence of methane, we will evaluate alternative strategies for complying with the applicable regulations.

Please contact me if you have any questions.

Sincerely,

A handwritten signature in blue ink, reading "Mark Triplett". The signature is fluid and cursive, with the first name "Mark" and last name "Triplett" clearly distinguishable.

Mark Triplett, P.E.  
Solid Waste Operations Division

RMT  
Attachment  
cc: Robert J. Butera, P.E., FDEP, Tampa



**LANDFILL GAS MIGRATION MONITORING REPORT**  
**CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX**  
**Permit Number S058-299180**

Monitoring Location	% LEL (Methane in air)	Date	Time	Observer
GP 1	40.0	15 Sep 98	0830	TF
GP 2	0.1	15 Sep 98	0835	TF
GP 3	0.3	15 Sep 98	0840	TF
GP 4	400.0	15 Sep 98	0845	TF
GP 5	0.2	15 Sep 98	0850	TF
GP 6	360.0	15 Sep 98	0855	TF
GM-1	0.0	15 Sep 98	0900	TF
GM-2	Not constructed	--	--	--
GM-3	Not constructed	--	--	--
GM-4	0.0	15 Sep 98	0910	TF
GM-5	0.0	15 Sep 98	0915	TF
GM-6	0.0	15 Sep 98	0920	TF

**Notes:**

1. GP 1-6 = Landfill gas migration monitoring probes
2. GM-1 = Maintenance building, contract operations
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