

Memorandum

Florida Department of  
Environmental Protection  
Solid Waste Section

TALLAHASSEE SOLID WASTE PROGRAM  
PERMIT APPLICATION/TECHNICAL SUBMITTAL/DOCUMENT FORWARDING MEMO

TO:	X	Richard Tedder, P.E. Solid Waste Program Administrator
		Lee Martin, P.E., Solid Waste Section, FDEP Tallahassee
		Fred Wick, Solid Waste Section, FDEP Tallahassee
		Jan Rae Clark, Solid Waste Section, FDEP Tallahassee
		Francine Joyal, Solid Waste Section, FDEP Tallahassee
		Chris McGuire, Solid Waste Program Attorney, OGC

DATE: 11/08/08

Facility: Manatee County, Lena Road Landfill, WACS #44795

The following attached document(s) are being forwarded from the Southwest District Solid Waste Program to the Tallahassee Solid Waste Program:

These documents were input into OCULUS by the SWD.

DOCUMENT/SUBMITTAL

DATE

Manatee County Lena Road Landfill, Stage III Landfill Gas Collection System Construction, "Response to RFI #1 dated March 6, 2008," prepared by Post, Buckley, Schuh & Jernigan	Unbound doc	April 17, 2008 (rec'd 04/22/08)
Manatee County Lena Road Landfill, Stage III Landfill Gas Collection System Construction, "Response to RFI #2 dated May 21, 2008," prepared by Post, Buckley, Schuh & Jernigan	Unbound doc	April 17, 2008 (rec'd 04/22/08)

COPY/FYI ONLY

X

FOR YOUR REVIEW

FOR YOUR REVIEW & COMMENT

BY

7007 2680 0000 5033 0023

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Sent To  
 Street, Apt. No.,  
 or PO Box No.  
 City, State, ZIP+

Mr. Daniel Gray, Director  
 Manatee County Government  
 Util. Opr. Dept., Solid Waste Section  
 4410 66<sup>th</sup> Street West  
 Bradenton, FL 34210

PS Form 3800, A

**SENDER: COMPLETE THIS SECTION**

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mr. Daniel Gray, Director  
 Manatee County Government  
 Util. Opr. Dept., Solid Waste Section  
 4410 66<sup>th</sup> Street West  
 Bradenton, FL 34210

**COMPLETE THIS SECTION ON DELIVERY**

A. Signature <i>x Linda Burras</i> <input type="checkbox"/> Agent <input checked="" type="checkbox"/> Addressee	
B. Received by (Printed Name) <i>Linda Burras</i>	C. Date of Delivery <i>10/13/08</i>
D. Is delivery address different from item 1? <input checked="" type="checkbox"/> Yes If YES, enter delivery address below: <input type="checkbox"/> No	

3. Service Type

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Certified Mail | <input type="checkbox"/> Express Mail                              |
| <input type="checkbox"/> Registered                | <input checked="" type="checkbox"/> Return Receipt for Merchandise |
| <input type="checkbox"/> Insured Mail              | <input type="checkbox"/> C.O.D.                                    |

4. Restricted Delivery? (Extra Fee) ☐ Yes

*Final Permit - Lear Rd*

*#39884-016-SC/08*

2. Article Number

(Transfer from service label)

7007 2680 0000 5033 0023

UNITED STATES POSTAL SERVICE

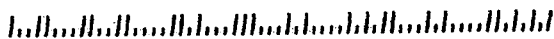


First-Class Mail  
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USPS  
Permit No. G-10

- Sender: Please print your name, address, and ZIP+4 in this box •

OCT 24 2008

Florida Department of Environmental Protection  
Southwest District  
c/o Susan Pelz – Solid Waste  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926



**Pelz, Susan**

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**From:** Pelz, Susan  
**Sent:** Friday, October 24, 2008 7:27 AM  
**To:** gus.difonzo@mymanatee.org  
**Cc:** 'Miller, Joseph L'; mike.gore@mymanatee.org  
**Subject:** Lena Rd Stage III gas construction permit  
**Attachments:** LenaRoad Issued Final Permit #39884-016-SC-08 [dated 10-22-08].pdf

Gus,

Please find attached pdf of final permit for Stage III gas construction. Hard copy was mailed to addressee only.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, Fl. 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

**Brantley, Anna**

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**From:** Brantley, Anna  
**Sent:** Wednesday, October 22, 2008 2:23 PM  
**To:** Moore, Ronni; Wick, Fred; Hornbrook, Frank; Tedder, Richard; Nasca, Mara; Ed Hunzeker - County Adm.; Representative Bill Galvano; Representative Keith Fitzgerald; Representative Ron Reagan; Senator Arthenia Joyner; Senator Lisa Carlton; Senator Michael Bennett  
**Cc:** Pelz, Susan  
**Subject:** LenaRoad Issued Final Permit #39884-016-SC-08.[dated 10-22-08].pdf - Adobe Acrobat Professional  
**Attachments:** LenaRoad Issued Final Permit #39884-016-SC-08.[dated 10-22-08]

# Memorandum

## Florida Department of Environmental Protection

### PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

#### FROM/THROUGH:

William Kutash *WV 10/23/08* ENVIRONMENTAL ADMINISTRATOR

Susan Pelz, P.E. *SP 10/22/08* SOLID WASTE MANAGER

DATE: October 22, 2008

FILE NAME: Manatee County Lena Road LF PERMIT #: 39884-016-SC/08

PROGRAM : Solid Waste

COUNTY : Manatee

TYPE OF PERMIT ACTION: X ISSUE FINAL PERMIT

PUBLIC NOTICE PERIOD CLOSED? Yes

PETITION FILED? No

PERMIT SUMMARY: This permit allows the construction and operation of an active gas extraction system in the Stage III portion of the existing, active Lena Road Class I landfill.

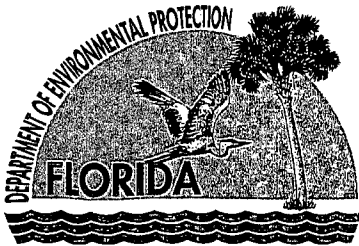
PROFESSIONAL RECOMMENDATION: X APPROVE        DENY

EVALUATION SUMMARY: The active gas extraction system is required as part of the facility's Air program Title V requirements. The applicant has provided the required information.

Information concerning the operation of an existing sludge drier system and proposed gas engines and conditioning system will be provided in a permit modification at a later time.

To 10/22/08, TIH=258	TTP=144		TTP
Application received		02/07/08	
RAI #1 sent		03/06/08	29
Response received		04/22/08	
RAI #2 sent		05/21/08	30
Response received		06/25/08	
Application complete		06/25/08	
Intent to Issue for routing (day 85)		09/17/08	85
Proof of pub rec'd		10/08/08	
Appl. Active (day=86)		10/22/08	
Final permit routed		10/22/08	0

DAY 90/30 FOR THIS ACTION IS: ASAP- Day 90=10/24/08



# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

October 22, 2008

Inserted into <b>OCULUS</b> Date: <u>10/24/08</u> Initials: <u>[Signature]</u>	44745
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CERTIFIED MAIL 7007 2680 0000 5033 0023  
RETURN RECEIPT REQUESTED

## **NOTICE OF PERMIT**

Manatee County, Utility Operations  
Mr. Daniel T. Gray, Director  
4410 66<sup>th</sup> Street West  
Bradenton, Fl. 34210

DEP File No. 39884-016-SC/08,  
Manatee County

## **NOTICE OF PERMIT**

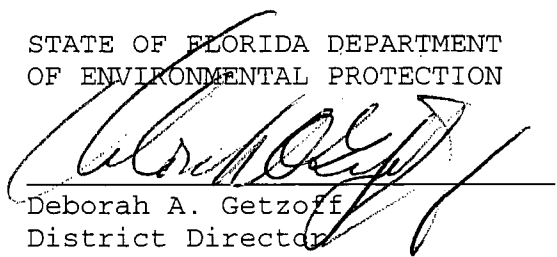
Dear Mr. Gray:

Enclosed is **Permit No.: 39884-016-SC/08**, issued pursuant to  
Section(s) 403.087(1), Florida Statutes.

Any party to this Order (permit) has the right to seek judicial review of the Order pursuant to Section 120.68, Florida Statutes, by the filing of a Notice of Appeal pursuant to Rule 9.110, Florida Rules of Appellate Procedure, with the Clerk of the Department in the Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000; and by filing a copy of the Notice of Appeal accompanied by the applicable filing fees with the appropriate District Court of Appeal. The Notice of Appeal must be filed within 30 days from the date this Notice is filed with the Clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Deborah A. Getzoff  
District Director  
Southwest District

**CERTIFICATE OF SERVICE**

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT was mailed to the addressee before the close of business on Oct 22, 2008.  
(date stamp)

Other copies were transmitted electronically to the listed persons.

FILING AND ACKNOWLEDGMENT  
FILED, on this date, pursuant to Section 120.52(10), Florida Statutes, with the designated Department, Clerk, receipt of which is hereby acknowledged.

Anna Brally  
Clerk

10/22/2008  
Date

DAG/sjp

Attachment

Copies furnished to:

Manatee County Board of County Commissioners

Manatee County Notification List

Gus DiFonzo, Manatee Co., email: [gus.difonzo@co.manatee.fl.us](mailto:gus.difonzo@co.manatee.fl.us)

Mike Gore, Manatee County, email: [mike.gore@co.manatee.fl.us](mailto:mike.gore@co.manatee.fl.us)

Joe Miller, P.E., PBSJ, email: [jlmiller@pbsj.com](mailto:jlmiller@pbsj.com)

✓ Ronni Moore, OGC Tallahassee, email

✓ Fred Wick, FDEP Tallahassee, email

✓ Richard Tedder, P.E., FDEP Tallahassee, email

✓ Mara Nasca, FDEP Tampa, Air, email

(Permit Notebook)





# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE

Manatee County  
Daniel T. Gray  
Utility Operations Director  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

## PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795  
Permit No: **39884-016-SC/08**  
Date of Issue: **10/22/2008**  
Expiration Date: **10/19/2011**  
County: Manatee  
Lat/Long: 27°28'10"N  
82°26'35"W  
Sec/Town/Rge: 1/35S/18E  
31/34S/19E  
6&7/35S/19E  
Project: Lena Road Class I LF  
Stage III, gas collection  
system

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2. and made a part hereof and specifically described as follows:

To expand an active gas extraction system at a Class I landfill (approximately 58 acres), referred to as the **Lena Road Landfill (Stage III, gas collection system)**, subject to the specific and general conditions attached, located at 3333 Lena Road, Bradenton, Fl. The specific conditions attached are for the **construction** and operation of:

1. Active gas extraction system within (Stage III) lined landfill area

Gas extraction system	Vertical wells ( 6 inch diameter, HDPE SDR 11 w/ 5/8 inch perforations) [ref. SC#A.2.a(2)., Sheet C-4],  laterals (8-inch HDPE SDR 17 solid wall pipe) sloped min. 2% to drain to condensate knockouts [ref. SC#A.2.a(2)., Sheets C-3, C-3A and C-3B]  gas flows to existing flare station
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Replaces Permit No.: N/A, new

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

**GENERAL CONDITIONS:**

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

1. **Facility Designation.** This site shall be classified as a Class I landfill and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for **construction and operation** of the Stage III active gas extraction system in accordance with Department rules and the reports, plans and other information prepared by Post, Buckley, Schuh & Jernigan (PBSJ) (unless otherwise specified) as follows:

a. Manatee County Solid Waste Management Facility, Lena Road Landfill, Stage III Landfill Gas Collection System Construction Permit Application,... (one 3-ring binder) dated January 31, 2008 (received February 7, 2008), as revised, replaced or amended (information inserted into original) dated April 17, 2008 (received April 22, 2008) and June 24, 2008 (received June 25, 2008). This information includes, but is not limited to:

1) Lena Road Landfill Contract for Stage III Landfill Gas Collection System, Technical Specifications, [Specs.] (Section 3);

2) Plan Sheets titled, Manatee County Lena Road Landfill Stage III Landfill, Gas Collection System,... (9 Sheets) dated January 2008, revised April 2008 (received June 25, 2008) (reduced size set in Section 4, full-size set in file);

b. Responses to Requests for Additional Information,... dated April 17, 2008 (received April 22, 2008) and June 24, 2008 (received June 25, 2008), inserted into original [ref. SC#A.2.a.];

c. The following information submitted for Modification #39884-015-SO/MM (this information is located in the 3-ring binder referenced in SC#A.2.a. or SC#A.2.f. of modified permit #39884-010-SO/01):

1) Landfill Gas Startup/Shutdown/Malfunction Plan, received June 20, 2008 (Attachment L-3 of Operations Plan [ref. SC#A.2.a(1) of modified permit #39884-010-SO/01],

2) Information concerning biosolids dryer system (Section 5 of information listed in SC#A.2.f. of modified permit #39884-010-SO/01), and

3) Information concerning landfill gas engines, conditioning system, radiators, and associated buildings (Section 4 of information listed in SC#A.2.f. of modified permit #39884-010-SO/01).

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit **does not authorize** landfill operation. Construction, operation, or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department.

c. Since construction and operational details for the landfill gas engines, gas conditioning system, radiators and associated buildings described in Section 4 of the information submitted for modification #39884-015-SO/MM (ref. SC#A.2.f. of modified permit 39884-010-SO/01) were not provided, this permit **does not authorize** the construction or operation of those systems. A modification of this permit or closure permit #39884-011-SF/01 shall be required for the construction and operation of these systems.

**4. Permit Renewal.** No later than April 19, 2011, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C.

**5. Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

**6. General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

**7. Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

**8. Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

a. This permit authorizes the construction of the Stage III active gas extraction system and related appurtenances.

b. Since construction details for the landfill gas engines and conditioning system described in Section 4 of the information submitted for modification #39884-015-SO/MM (ref. SC#A.2.f. of modified permit 39884-010-SO/01) were not provided, this permit **does not authorize** the construction or operation of that system.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e. all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include as-built plans details and elevations (survey) as appropriate.

3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.**

a. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) As-built locations and details (elevations) of repairs to or penetrations through the slurry wall;

2) Daily construction reports;

3) A compact disc or other electronic media that includes all available photographs documenting all stages of the construction project;

4) Permeability testing for each slurry wall repair;



**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.3.a., cont'd)

- 5) As-built invert elevations for the extraction wells and wellhead headers and laterals;
- 6) As-built invert elevations for the gravity condensate transmission pipe.
- 7) An operation and maintenance manual for the gas extraction system;
- 8) Gas well construction diagrams, including elevation at top of ground, total depth of well, static water level, temperature of spoils, depth, thickness and description of soil or waste strata and the occurrences of any water-bearing zones. [Spec. 02610-1.03.C.]

**4. Pre-Construction Submittals.**

a. **At least thirty (30) days prior** to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

1) A **complete set** of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). All changes shall be noted using strikethrough (~~strikethrough~~) for deletions, and shading (~~shading~~) or underline (underline) for additions. All changes in the plans, specifications and CQA Plan shall be accompanied by a narrative indicating the change. Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and the cause of the deviation and a re-certification of the alternate design by the design engineer shall be provided. These alternate designs shall be approved by the Department prior to construction. If **no** changes have been made to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction;

2) The role and name of the specific company/organization for each of the parties in the Project team;

b. **No later than 2 weeks** prior to construction of the following components of the project, the Department shall be notified of the initiation of construction of these components (for each phase of construction) to allow the Department to observe the construction of:

- 1) penetrations through the slurry wall

**5. Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

**6. Construction Schedule and Progress Report.**

a. No later than one (1) week after the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15<sup>th</sup> of each month**. The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., piping, slurry wall penetrations, etc.),
- 2) A summary of submittals and change order requests,
- 3) Weekly progress meeting minutes [Spec. 01200-1.03.A.] and
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., lift station construction/connections, etc.).

**7. Construction Tolerances.**

a. Gas collection pipe slopes shall be a minimum of 2%. Invert elevations of the gas collection pipes shall be recorded every 100 feet to demonstrate that the gas collection system has been constructed to the slopes and grades shown on the drawings. [Spec. 02221-3.02., 15051-3.01.C.] This information shall be included with the Record Documents.

b. The construction tolerance for elevations shall be  $\pm 0.10$  ft.

**8. Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory, independent of the manufacturer or installer, representing the owner. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

**9. Construction Quality Assurance.**

a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including gas management system) to monitor construction activities.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.9., cont'd)

- b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. Work shall not be concealed until required information is recorded.
- c. All liquid encountered during construction inside the slurry wall is leachate and shall be managed appropriately [see Spec. 01030-1.09, 02221-1.02.B.]. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the slurry wall (liner system) at any time during the construction activities.
- d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained on-site for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.2 and #B.3. All areas not meeting the requirements of the contract specifications and CQA Plan shall be reworked by the Contractor to meet the specifications, CQA Plan and requirements of this permit.
- e. Construction activities such as surveying, gas well drilling, etc., shall not be carried out in non-daylight hours without prior Department approval. If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week** in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.
- f. All portions of the gas management system construction, shall be observed and documented by the CQA Consultant.
- g. CQA daily reports shall include weather conditions (e.g., precipitation, temperature).
- h. Runoff from stockpiled soils shall not discharge to surface water bodies or wetlands such that Department surface water standards are violated at the point of discharge.
- i. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. The surface shall be graded such that there is no ponding of water.
- j. The Department shall be notified in accordance with Specific Condition #C.6.b. of all fuel, oils, greases, solvents, lubricants, etc., that are spilled or leaked in areas that may discharge outside the slurry wall. The permittee shall ensure that all personnel working on the landfill site (including contractors and subcontractors) shall utilize all appropriate measures to prevent spills and leaks of fuel, solvents, lubricants, oils, etc.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.9., cont'd)

k. All waste exposed by excavations or other construction activity shall be covered or removed for disposal at the active working face daily. [Spec. 01015-1.12; 02610-3.03.A.] All wastes generated during the construction shall be disposed of in the on-site, active Class I landfill. No solid waste shall be used for backfill.

l. Gas well drilling shall be in accordance with Specification Section 02610 and the conditions of this permit [Spec. 02610-3.01.A.]. In the event that the gas well installation indicates that the clay confining unit under the landfill may have been encountered during gas well installation, the gas well drilling **shall cease** in the affected area and the Department shall be notified in accordance with Specific Condition #C.6.b. The information required by Specification 02610-1.03.C. shall be provided with the written notification. Gas well installation shall not resume until specifically approved by the Department.

m. All newly constructed work such as landfill gas wells, well heads, pipes, stormwater inlets, groundwater monitoring wells, etc., shall be protected. In the event that any groundwater monitoring well is damaged, the Department shall be notified in accordance with Specific Condition #C.6. [Spec. 01015-1.11B.]

**10. Soil Materials.**

a. Repairs to the slurry wall shall be in accordance with Specification Section 01015-1.03. The Department shall be notified of repairs to the slurry wall in accordance with Specific Condition #B.4.c.

b. Pipe bedding materials for pipes installed within the limits of the slurry wall shall not contain any angular stone.

c. The aggregate used for the gas system installation shall be non-calcareous washed well-graded granite. [Spec. 02610-2.01.A.]

**11. Geosynthetic Materials.**

a. The geosynthetic materials used in this project include HDPE piping and fittings only. The installation and materials of the piping and fittings shall be in accordance with Specification Section 15051.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

**1. Facility Operation Requirements.**

a. The permittee shall operate the active portions of this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit #39884-010-SO/01 (including modifications, if any), or its successors.

b. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

c. The gas flare shall be kept in operation at all times during construction. [Spec. 01005-1.11.B.]

d. Drainage from the gas condensate management system (e.g., flare station gas knockout) shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility. These liquids shall be tested to ensure that they are non-hazardous prior to disposal.

**2. Facility Personnel.** The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.

**3. Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.

**4. Monitoring of Waste.** Wastes shall be monitored as required by Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**5. Control of Nuisance Conditions.** The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

PERMITTEE: Manatee County Utilities Dept.  
Mr. Dan Gray, Director

PERMIT NO: 39884-016-SC/08  
Lena Road Class I LF gas extraction system

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

7. **Stormwater Management.** The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

PERMITTEE: Manatee County Utilities Dept.  
Mr. Dan Gray, Director

PERMIT NO: 39884-016-SC/08  
Lena Road Class I LF gas extraction system

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.
2. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
3. **Waste Records.** The permittee shall maintain all records required by the construction specifications, CQA Plan and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.
  - a. All costs for closure shall be adjusted and submitted **annually, by September 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.
  - b. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS#4565, Tallahassee, Florida 32399-2400.

PERMITTEE: Manatee County Utilities Dept.  
Mr. Dan Gray, Director

PERMIT NO: 39884-016-SC/08  
Lena Road Class I LF gas extraction system

**SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements**

1. **Water Quality Monitoring Quality Assurance.** Water quality monitoring shall be conducted as required by operation permit number 39884-010-SO/01, including modifications if any, or its successors.



**SPECIFIC CONDITIONS: PART F - Landfill Gas Management**

**1. Landfill Gas - NSPS and Title V Air Requirements.**

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

**2. Gas Monitoring and Control.** Landfill gas shall be monitored and controlled as required by Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**3. Gas Monitoring Locations.** Gas monitoring probes shall be located as listed in Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**4. Gas Remediation.** In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on or off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, **within 7 days of detection**, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed **within 60 days of detection** unless otherwise approved by the Department.

**SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements**

**1. Closure Requirements.**

a. **No later than ninety (90) days** prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.

b. **Long-Term Care Requirements.** The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the Long-Term Care Plan referenced in modified permit #39884-010-SO/01, or its successors. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring; maintenance of the final cover system; maintenance of the leachate collection and removal system; maintenance and operation of the gas collection system; erosion control; and the prevention of ponding within disposal areas.

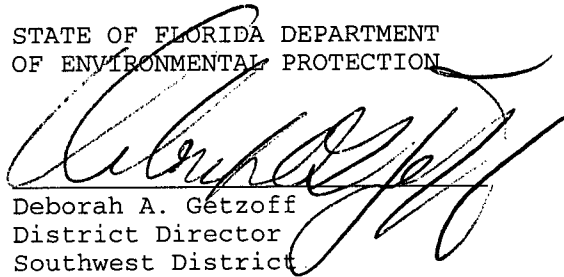
c. After final cover construction for all areas of the landfill is completed, and construction is approved by the Department, the permittee shall file a declaration to the public in the deed records in the office of the county clerk.

**2. Future use of closed landfill areas.** Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use, and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval.

**3. Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Deborah A. Getzoff  
District Director  
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than 04/19/2011	Submit permit renewal application
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
B.4.a.	At least 30 days prior to construction	Submit complete plans, specification, CQA plan, or statement that no changes have occurred, org. chart with parties/roles,
B.4.b.	No later than 2 weeks prior to construction of penetrations of the slurry wall	Notify of construction initiation to allow for observation
B.5.	At least 1 week prior	Notify of preconstruction meeting
B.6.a.	No later than 1 week after pre-construction meeting	Submit meeting minutes
B.6.b.	Monthly, by the 15 <sup>th</sup> each month	Submit monthly progress report & schedule
B.9.e.	At least 1 week prior	Notify of night work
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
D.4.a.	Annually, by September 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
F.4.	Within 7 days of detection Within 60 days of detection	Submit gas remediation plan Complete corrective actions
G.1.a.	No later than 90 days prior to the date when wastes will no longer be received in active LF areas	Submit Closure Permit application

**Pelz, Susan**

---

**From:** Crandall, Lea  
**Sent:** Wednesday, October 22, 2008 9:15 AM  
**To:** Pelz, Susan  
**Subject:** RE: App #39884-016-SC/08, Manatee County

Hi,

Nothing has been filed.

Thanks,  
Lea

Lea Crandall  
Agency Clerk  
Office of General Counsel  
3900 Commonwealth Boulevard, MS 35  
Tallahassee, FL 32399-3000  
Phone: (850) 245-2212  
Fax: (850) 245-2303

**FLORIDA DISCOUNT CARD:** More than 3,000 retail pharmacies in Florida are now a part of the Florida Discount Drug Card program. See [www.FloridaDiscountDrugCard.com](http://www.FloridaDiscountDrugCard.com) for more info or call toll-free, 1-866-341-8894.

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**From:** Pelz, Susan  
**Sent:** Wednesday, October 22, 2008 9:13 AM  
**To:** Crandall, Lea  
**Subject:** App #39884-016-SC/08, Manatee County

Lea,

Have we received any petitions for the above referenced permit application?

Thanks

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, Fl. 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

**Pelz, Susan**

---

**From:** Pelz, Susan  
**Sent:** Thursday, October 16, 2008 5:07 PM  
**To:** 'Miller, Joseph L'  
**Cc:** Paul.Schamell@mymanatee.org; Dave Stedje; mike.gore@mymanatee.org; gus.difonzo@mymanatee.org  
**Subject:** RE: Manatee County Stage III Landfill Gas Well Installation  
**Attachments:** RE: Manatee County Stage III Landfill Gas Project Kick-off Meeting Delayed

Joe,

The information I provided to you last week has not changed. The application does not become "active" until 10/22/08. I will check with Tallahassee concerning petitions next week and will let the County know if there were any filed. If there are no petitions, the permit will likely be issued by 10/24/08, but I cannot give you an exact date.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, Fl. 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

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**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Thursday, October 16, 2008 4:46 PM  
**To:** Pelz, Susan  
**Cc:** Paul.Schamell@mymanatee.org; Dave Stedje; mike.gore@mymanatee.org; gus.difonzo@mymanatee.org  
**Subject:** FW: Manatee County Stage III Landfill Gas Well Installation

Susan,

The Contractor is ready to start on October 27, 2008. Can we plan on starting that day?

Please advise us if someone contested the permit and there is going to be more delays.

Thanks,

Joe Miller

---

**From:** Dave Stedje [mailto:dstedje@envirotek1.com]  
**Sent:** Thursday, October 16, 2008 4:27 PM  
**To:** Paul.Schamell@mymanatee.org  
**Cc:** Miller, Joseph L  
**Subject:** RE: Manatee County Stage III Landfill Gas Well Installation

Paul,

We have mobilized all of our own equipment to the site. We have most of the materials onsite less the 18-inch piping and 57 stone. The permit issues put us back about 2 weeks. We are on schedule to start he 27<sup>th</sup> of this month. dave

---

**From:** Paul.Schamell@mymanatee.org [mailto:Paul.Schamell@mymanatee.org]  
**Sent:** Wednesday, October 15, 2008 10:21 AM  
**To:** Dave Stedje  
**Cc:** Miller, Joseph L; mike.gore@mymanatee.org  
**Subject:** RE: Manatee County Stage III Landfill Gas Well Installation

what effect does this have on your construction schedule? Your NTP was 9/26/08 and this is a 120 construction time frame  
have you completed your mobilization on site.

Joe, do you feel that we will get the permit my 10/27/08 and if not what action can you take to move this to completion.

Paul Schamell  
Project Manager, MC PMD  
phone (941) 708-7450 ext. 7329  
Fax (941) 708-7549  
email: [paul.schamell@mymanatee.org](mailto:paul.schamell@mymanatee.org)

"Miller, Joseph L" <[JLMiller@pbsi.com](mailto:JLMiller@pbsi.com)>

10/13/2008 05:39 PM

To "Dave Stedje" <[dstedje@envirotek1.com](mailto:dstedje@envirotek1.com)>  
cc <[Paul.Schamell@mymanatee.org](mailto:Paul.Schamell@mymanatee.org)>, <[rds@net1plus.com](mailto:rds@net1plus.com)>  
Subject RE: Manatee County Stage III Landfill Gas Well Installation



David,

Let me confirm it with Susan Pelz. If no one contests the permit by October 14, then she has to issue the permit by October 24 or the permit is automatically valid. I do not think anyone is going to contest an expansion of the odor control system. I will check with her on October 15.

Joe

---

**From:** Dave Stedje [mailto:[dstedje@envirotek1.com](mailto:dstedje@envirotek1.com)]  
**Sent:** Monday, October 13, 2008 4:13 PM

**To:** Miller, Joseph L

**Cc:** [Paul.Schamell@mymanatee.org](mailto:Paul.Schamell@mymanatee.org); [rds@net1plus.com](mailto:rds@net1plus.com)

**Subject:** RE: Manatee County Stage III Landfill Gas Well Installation

Joe,

I just spoke with our driller and he requested a new firm start date. I indicated that October 27<sup>th</sup> would be a definite based on the previous correspondence with FDEP. Can you please confirm this start date in the next day or so? I want to make sure that we don't schedule our sub for this time and have the FDEP delay the start further. Thanks Dave Stedje

## Pelz, Susan

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**From:** Pelz, Susan  
**Sent:** Tuesday, October 07, 2008 10:22 AM  
**To:** 'Miller, Joseph L'; 'gus.difonzo@co.manatee.fl.us'  
**Cc:** 'mike.gore@co.manatee.fl.us'; 'Dave Stedje'  
**Subject:** RE: Manatee County Stage III Landfill Gas Project Kick-off Meeting Delayed

Joe/Gus,

The Department cannot issue the permit until 14 days have passed since the proof of publication was received by the Department. Assuming I receive proof of publication by tomorrow, the earliest the permit could be issued (assuming no petitions) would be 10/22/08, but that does not account for any time required for routing it for signature. So the more likely time frame is by 10/24/08.

The well drilling will not be authorized until the final permit is issued.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, FL 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

---

**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Tuesday, October 07, 2008 10:14 AM  
**To:** Pelz, Susan  
**Cc:** gus.difonzo@co.manatee.fl.us; mike.gore@co.manatee.fl.us; Dave Stedje  
**Subject:** RE: Manatee County Stage III Landfill Gas Project Kick-off Meeting Delayed

Susan,

The notice was published on October 1, 2008. Manatee County should have the proof of publication by today. So you should get it today or tomorrow. If nobody protests by October 14, do you think we could get a final permit on October 15 and start drilling the gas wells on October 15? The driller and his rig are still in Canada.

I am including the Dave Stedje who is the contractor's representative on this e-mail so he is aware of this delay.

Susan do you or someone from your staff plan to attend the kick-off meeting on site?

Thanks,

Joe Miller



**From:** Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]  
**Sent:** Tuesday, October 07, 2008 7:59 AM  
**To:** Miller, Joseph L  
**Cc:** gus.difonzo@co.manatee.fl.us; mike.gore@co.manatee.fl.us  
**Subject:** RE: Manatee County Stage III Landfill Gas Project Kick-off Meeting Delayed



Joe/Gus,

I do not think that the Department has received the proof of publication for the Stage III gas construction permit, and the petitioning period has not passed. Please let me know if this is the County's understanding as well.

If this is the case, please note that initiating construction as indicated in your email below prior to receiving the final permit, is a violation of Department rules.

Please give update me on the status of the proof of publication.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, FL 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Monday, October 06, 2008 5:17 PM  
**To:** Dave Stedje  
**Cc:** Pelz, Susan; mike.gore@mymanatee.org; jeanne.detweiler@mymanatee.org; Paul.Schamell@mymanatee.org; Castro, Raymundo G; gus.difonzo@mymanatee.org  
**Subject:** Manatee County Stage III Landfill Gas Project Kick-off Meeting Delayed

Dave,

As we just discussed on the telephone, since the driller has been delayed and will not be on site until late Friday October 10, we will delay the project kick-off meeting until Monday October 13, 2008 at 10:00 am at the Manatee County office trailer at the landfill.

We understand that the driller should be ready to start drilling on Monday October 13, 2008.

Thanks!

Joe Miller  
482 South Keller Road  
Orlando, Florida 32804  
Phone: 407-806-4153  
Fax: 407-647-0624  
Cell Phone: 407-697-5928

[jlmiller@pbsj.com](mailto:jlmiller@pbsj.com)

# BRADENTON HERALD

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Bradenton, FL 34206-0921  
102 Manatee Avenue West  
Bradenton, FL 34205-8894  
941-745-7048

Dept. of Environmental  
Protection

OCT 08 2008

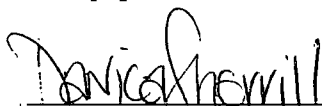
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Southwest District

STATE OF FLORIDA  
COUNTY OF MANATEE

Before the undersigned authority personally appeared Danica Sherrill, who, on oath, says that she is a Legal Advertising Representative of the Bradenton Herald, a daily newspaper published at Bradenton in Manatee County, Florida; that the attached copy of the advertisement, **NOTICE OF PROPOSED AGENCY ACTION ON PERMIT APPLICATION** as published in said newspaper in the issue **10/01/2008**.

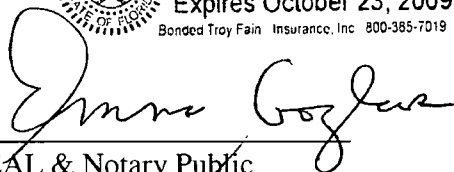
Affiant further says that the said publication is a newspaper published at Bradenton, in said Manatee County, Florida, and that the said newspaper has heretofore been continuously published in said Manatee County, Florida, each day and has been entered as second-class mail matter at the post office in Bradenton, in said Manatee County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

  
(Signature of Affiant)

Sworn to and subscribed before me this  
1st Day of Oct, 2008



Emma Goglas  
Commission # DD484714  
Expires October 23, 2009  
Bonded Troy Fain Insurance, Inc 800-385-7019



SEAL & Notary Public

Personally Known \_\_\_\_\_ OR Produced Identification \_\_\_\_\_  
Type of Identification Produced \_\_\_\_\_

# BRADENTON HERALD

# CLASSIFIED ADVERTISING

Order:	131855827	Pubs:	1,9	Rate:	LE
Phone:	9417928811	Class:	4995	Charges:	\$ 0.00
Account:	12370	Start Date:	10/01/2008	List Price:	\$ 254.98
Name:	MANATEE,	Stop Date:	10/01/2008	Payments:	\$ 0.00
Firm:	MANATEE CO UTILITY	Insertions:	2	Balance:	\$ 254.98

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

### Notice of Proposed Agency Action on Permit Application

The Department of Environmental Protection hereby gives notice of its intent to issue a permit to Manatee County Utilities Operations Department, Mr. Daniel T. Gray, Director, who applied on February 7, 2008, to the Department of Environmental Protection for a permit to construct and operate an active gas extraction system and related appurtenances in the Stage III area of the existing Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida. This permit application includes construction and operation of the Stage III active landfill gas control system.

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the office of General Counsel of the Department at 3900 Commonwealth Blvd., MS#35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver of any right such person may have to

request an administrative determination (hearing) under Section 120.57, Florida Statutes.

### The petition shall contain the following information:

(a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;

(b) A statement of how and when each petitioner received notice of Department's action, or proposed action;

(c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;

(d) A statement of the material facts disputed by Petitioner, if any;

(e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;

(f) A statement of which rules or statutes petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.

Because the administrative hearing process

is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rules 62110.106, 28-106.201, and 28-106.301 P.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 13051 N. Telecom Parkway, Temple Terrace, FL 33637-0926. 10/1/2008

Dept. of Environmental  
Protection

OCT 08 2008

Southwest District

### 1 From

Date 10/7/08

Sender's Name Deanne Detweiler Phone 941 748-5543

Company Pinellas County Sheriff's Office

Address 3333 Kern Rd.

City Bridgewater State FL ZIP 34211

### 2 Your Internal Billing Reference

123

### 3 To

Recipient's Name Susan Paly Phone 813 432-7600

Company Department of Environmental Protection

Recipient's Address Southeast District

We cannot deliver to P.O. boxes or P.O. ZIP codes.

Address 13051 N. Telecom Parkway

To request a package be held at a specific FedEx location, print FedEx address here.

City Tampa State FL ZIP 33637

### 4a Express Package Service

☒ **FedEx Priority Overnight**  
Next business morning.\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx Standard Overnight**  
Next business afternoon.\* Saturday Delivery NOT available.

☐ **FedEx First Overnight**  
Earliest next business morning delivery to select locations.\* Saturday Delivery NOT available.

☐ **FedEx 2Day**  
Second business day.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx Express Saver**  
Third business day.\* Saturday Delivery NOT available.

\* To most locations.

### 4b Express Freight Service

☐ **FedEx 1Day Freight**  
Next business day.\* Friday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx 2Day Freight**  
Second business day.\* Thursday shipments will be delivered on Monday unless SATURDAY Delivery is selected.

☐ **FedEx 3Day Freight**  
Third business day.\* Saturday Delivery NOT available.

\* Call for Confirmation.

\*\* To most locations.

### 5 Packaging

☒ **Envelope**

☐ **FedEx Pak\***  
Includes FedEx Small Pak, FedEx Large Pak, and FedEx Sturdy Pak.

☐ **FedEx Box**

☐ **FedEx Tube**

☐ **Other**

\* Declared value limit \$500.

### 6 Special Handling

☐ **SATURDAY Delivery**  
Not available for FedEx Standard Overnight, FedEx First Overnight, FedEx Express Saver, or FedEx 3Day Freight.

☐ **HOLD Weekday at FedEx Location**  
Not available for FedEx First Overnight.

☐ **HOLD Saturday at FedEx Location**  
Available only for FedEx Priority Overnight and FedEx 2Day to select locations.

Does this shipment contain dangerous goods?  
One box must be checked.

☒ No ☐ Yes  
As per attached Shipper's Declaration.

☐ Yes  
Shipper's Declaration

☐ Dry Ice  
Dry Ice, 9, UN 1845 x kg

☐ Cargo Aircraft Only

Dangerous goods (including dry ice) cannot be shipped in FedEx packaging.

### 7 Payment Bill to:

☒ **Sender**  
Acct. No. in Section 7 will be billed.

☐ **Recipient**

☐ **Third Party**

☐ **Credit Card**

☐ **Cash/Check**

Enter FedEx Acct. No. or Credit Card No. below.

Obtain Recip. Acct. No.

Total Packages 1 Total Weight 1 Total Declared Value† \$ .00

†Our liability is limited to \$100 unless you declare a higher value. See back for details. Credit Card Auth.

### 8 Residential Delivery Signature Options

☐ **No Signature Required**  
Package may be left without obtaining a signature for delivery.

☐ **Direct Signature**  
Someone at recipient's address may sign for delivery. **Fee applies.**

☐ **Indirect Signature**  
If no one is available at recipient's address, someone at a neighboring address may sign for delivery. **Fee applies.**

520



8672 6218 2042

# Terms And Conditions

**Definitions** On this Airbill, "we," "our," "us," and "FedEx" refer to Federal Express Corporation, its employees, and agents. "You" and "your" refer to the sender, its employees, and agents.

**Agreement To Terms** By giving us your package to deliver, you agree to all the terms on this Airbill and in the current FedEx Service Guide, which is available upon request. You also agree to those terms on behalf of any third party with an interest in the package. If there is a conflict between the current FedEx Service Guide and this Airbill, the current FedEx Service Guide will control. No one is authorized to change the terms of our Agreement.

**Responsibility For Packaging And Completing Airbill** You are responsible for adequately packaging your goods and properly filling out this Airbill. If you omit the number of packages and/or weight per package, our billing will be based on our best estimate of the number of packages we received and/or an estimated "default" weight per package as determined by us.

**Responsibility For Payment** Even if you give us different payment instructions, you will always be primarily responsible for all delivery costs, as well as any cost we incur in either returning your package to you or warehousing it pending disposition.

## Limitations On Our Liability And Liabilities Not Assumed

- Our liability in connection with this shipment is limited to the lesser of your actual damages or \$100, unless you declare a higher value, pay an additional charge, and document your actual loss in a timely manner. You may pay an additional charge for each additional \$100 of declared value. The declared value does not constitute, nor do we provide, cargo liability insurance.
- In any event, we will not be liable for any damage, whether direct, incidental, special, or consequential, in excess of the declared value of a shipment, whether or not FedEx had knowledge that such damages might be incurred, including but not limited to loss of income or profits.

## • We won't be liable:

- for your acts or omissions, including but not limited to improper or insufficient packing, securing, marking, or addressing, or those of the recipient or anyone else with an interest in the package.
- if you or the recipient violates any of the terms of our Agreement.
- for loss of or damage to shipments of prohibited items.
- for loss, damage, or delay caused by events we cannot control, including but not limited to acts of God, perils of the air, weather conditions, acts of public enemies, war, strikes, civil commotions, or acts of public authorities with actual or apparent authority.

## Declared Value Limits

- The highest declared value allowed for a FedEx Envelope or FedEx Pak shipment is \$500.
- For other shipments, the highest declared value allowed is \$50,000 unless your package contains items of extraordinary value, in which case the highest declared value allowed is \$500.
- Items of extraordinary value include shipments containing such items as artwork, jewelry, furs, precious metals, negotiable instruments, and other items listed in the current FedEx Service Guide.
- You may send more than one package on this Airbill and fill in the total declared value for all packages, not to exceed the \$100, \$500, or \$50,000 per package limit described above. (Example: 5 packages can have a total declared value of up to \$250,000.) In that case, our liability is limited to the actual value of the package(s) lost or damaged, but may not exceed the maximum allowable declared value(s) or the total declared value, whichever is less. You are responsible for proving the actual loss or damage.

**Filing A Claim** YOU MUST MAKE ALL CLAIMS IN WRITING and notify us of your claim within strict time limits set out in the current FedEx Service Guide.

You may call our Customer Service department at 1.800.GoFedEx 1.800.463.3339 to report a claim; however, you must still file a timely written claim. We aren't obligated to act on any claim until you have paid all transportation charges, and you may not deduct the amount of your claim from those charges.

If the recipient accepts your package without noting any damage on the delivery record, we will assume the package was delivered in good condition. For us to process your claim, you must make the original shipping cartons and packing available for inspection.

**Right To Inspect** We may, at our option, open and inspect your packages before or after you give them to us to deliver.

**Right Of Rejection** We reserve the right to reject a shipment when such shipment would be likely to cause delay or damage to other shipments, equipment, or personnel; or if the shipment is prohibited by law; or if the shipment would violate any terms of our Airbill or the current FedEx Service Guide.

**C.O.D. Services** C.O.D. SERVICE IS NOT AVAILABLE WITH THIS AIRBILL. If C.O.D. Service is required, please use a FedEx C.O.D. Airbill.

**Air Transportation Tax Included** A federal excise tax when required by the Internal Revenue Code on the air transportation portion of this service, if any, is paid by us.

**Money-Back Guarantee** In the event of untimely delivery, FedEx will, at your request and with some limitations, refund or credit all transportation charges. See the current FedEx Service Guide for more information.

# Memorandum

## Florida Department of Environmental Protection

### PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

#### FROM/THROUGH:

William Kutash *WKT*, ENVIRONMENTAL ADMINISTRATOR  
Susan Pelz, P.E. *SP* 9/17, SOLID WASTE MANAGER

DATE: September 17, 2008

FILE NAME: Manatee County Lena Road LF PERMIT #: 39884-016-SC/08  
PROGRAM : Solid Waste COUNTY : Manatee

TYPE OF PERMIT ACTION: x INTENT TO ISSUE

PUBLIC NOTICE PERIOD CLOSED?

PETITION FILED?

PERMIT SUMMARY: This permit allows the construction and operation of an active gas extraction system in the Stage III portion of the existing, active Lena Road Class I landfill.

PROFESSIONAL RECOMMENDATION: x APPROVE        DENY

EVALUATION SUMMARY: The active gas extraction system is required as part of the facility's Air program Title V requirements. The applicant has provided the required information.

Information concerning the operation of an existing sludge drier system and proposed gas engines and conditioning system will be provided in a permit modification at a later time.

To 09/17/08, TIH=223	TTP=144		TTP
Application received		02/07/08	
RAI #1 sent		03/06/08	29
Response received		04/22/08	
RAI #2 sent		05/21/08	30
Response received		06/25/08	
Application complete		06/25/08	
Intent to Issue for routing (day 85)		09/17/08	85
Proof of pub rec'd			
Appl. Active (day=_____)			
Final permit routed			

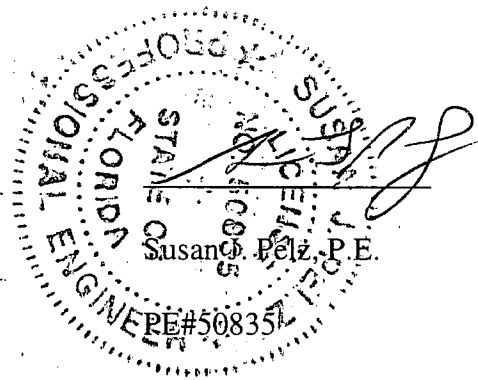
DAY 90/30 FOR THIS ACTION IS: ASAP- Day 90=09/23/08

## CERTIFICATION

Application #39884-016-SC/08, Lena Road Landfill, Stage III Gas Extraction System

I hereby certify that the engineering features described in the above-referenced application **provide** reasonable assurance of compliance with applicable provisions of Chapter 403, Florida Statutes, and Chapters 62-701, Florida Administrative Code.

However, I have not evaluated and I do not certify aspects of the proposal outside my area of expertise (including but not limited to the electrical, mechanical and structural features).



9/17/08  
date



7007 2680 0000 5032 6507

<b>U.S. Postal Service™</b>		
<b>CERTIFIED MAIL™ RECEIPT</b>		
<b>(Domestic Mail Only; No Insurance Coverage Provided)</b>		
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>		
<b>OFFICIAL USE</b>		
Postage \$	Mailed 9-18-08 Postmark Here	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage	Manatee County Government Util. Opr. Dept., Solid Waste Section 4410 66 <sup>th</sup> Street West Bradenton, FL 34210 Daniel Gray	
Sent To		
Street, Apt. N or PO Box N		
City, State, Zi.		
PS Form 3800, August 2006		See Reverse for Instructions

Taken to Issue Permit MOD# 39884-016 SC/08

**SENDER:** LEDA R. CLIFF

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

1. ☐ Addressee's Address

2. ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to: 7007 2680 0000 5032 6507

Mr. Daniel Gray, Director  
Manatee County Government  
Util. Opr. Dept., Solid Waste Section  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

4b. Service Type

☐ Registered ☒ Certified

☐ Express Mail ☐ Insured

☒ Return Receipt for Merchandise ☐ COD

5. Received By: (Print Name)  
K. Meyers

6. Signature: (Addressee or Agent)  
K. Meyers

7. Date of Delivery  
9-19-08

8. Addressee's Address (Only if requested and fee is paid)

Is your RETURN ADDRESS completed on the reverse side?

Thank you for using Return Receipt Service.

UNITED STATES POSTAL SERVICE



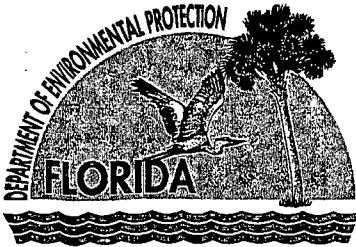
First-Class Mail  
Postage & Fees Paid  
USPS  
Permit No. G-10

• Print your name, address, and ZIP Code in this box •

Florida Department of Environmental Protection  
Southwest District  
c/o Susan Pelz – Solid Waste  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0826  
Fla. Dept. of Environmental Protection

SEP 22 2008

Southwest District



# Florida Department of Environmental Protection

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

44795	Entered Into OCULUS
Date:	9/18/08
Initials:	[Signature]

Michael W. Sole  
Secretary

CERTIFIED MAIL 7007 2680 0000 5032 6507  
RETURN RECEIPT REQUESTED

September 18, 2008

In the matter of an  
Application for Permit by:

DEP File No. 39884-016-SC/08  
Manatee County

Manatee County, Utility Operations  
Mr. Daniel T. Gray, Director  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

## INTENT TO ISSUE

The Department of Environmental Protection hereby gives notice of its Intent to Issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below. The applicant, Manatee County Utilities Operations Department, Mr. Daniel T. Gray, Director, applied on February 7, 2008, to the Department of Environmental Protection for a permit to construct and operate an active gas extraction system and related appurtenances in the Stage III area of the existing Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida. **This permit application includes construction and operation of the Stage III active landfill gas control system.**

The Department has permitting jurisdiction under 403.707 and 403.861, Florida Statutes, and Rules 62-4, and 62-701, Florida Administrative Code (F.A.C.). The project is not exempt from permitting procedures. The Department has determined that a construction permit is required for the proposed work.

The Department intends to issue this permit based on its belief that reasonable assurances have been provided to indicate that the proposed project will not adversely impact water quality and the proposed project will comply with appropriate provisions of Chapters 62-4, 62-301, 62-330, 62-520, 62-522, and 62-701, F.A.C., subject to the specific conditions attached in the permit. Pursuant to Section 403.815, Florida Statutes and Rule 62-110.106, F.A.C., you (the applicant) are required to publish at your own expense the enclosed Notice of Proposed Agency Action on Permit Application. The notice must be published one time only within thirty (30) days of receipt of this intent in the legal ad section of a newspaper of general circulation in the area affected. Proof of publication must be provided to the Department **within seven (7) days** of publication of the notice. Failure to publish the notice and provide proof of publication within the allotted time may result in the denial of the permit. The Department will issue the permit with the attached conditions unless petition for administrative proceeding (hearing) is filed pursuant to the provisions of Section 120.57, Florida Statutes.

The Department's proposed agency action shall become final unless a timely petition for an administrative hearing is filed under Sections 120.569 and 120.57, Florida Statutes (F.S.), before the deadline for filing a petition. The procedures for petitioning for a hearing are set forth below.

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the

Department at 3900 Commonwealth Boulevard, Mail Station 35,  
Tallahassee, Florida 32399-3000.

Petitions by the applicant or any of the parties listed below must be filed within 14 days of receipt of this written notice. Petitions filed by other persons must be filed within 14 days of publication of the notice or receipt of the written notice, whichever occurs first. Under Section 120.60(3), F.S., however, any person who asked the Department for notice of agency action may file a petition within fourteen days of receipt of such notice, regardless of the date of publication. The petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. The failure of any person to file a petition within the appropriate time period shall constitute a waiver of that person's right to request an administrative determination (hearing) under Sections 120.569 and 120.57, F.S., or to intervene in this proceeding and participate as a party to it. Any subsequent intervention (in a proceeding initiated by another party) will be only at the discretion of the presiding officer upon the filing of a motion in compliance with Rule 28-106.205, F.A.C.

A petition that disputes the material facts on which the Department's action is based must contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;

(e) A statement of the ultimate facts alleged, including a statement of the specific facts, which the petitioner contends, warrant reversal or modification of the Department's action or proposed action;

(f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

(g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of the Department have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above.

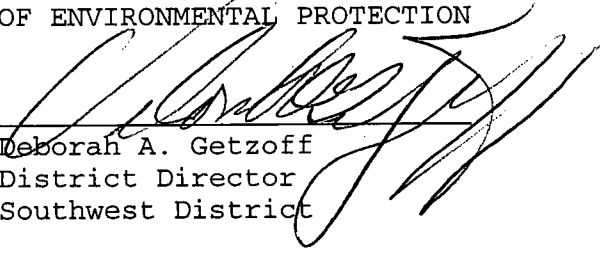
In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case under the provisions of that statute. This does not prevent any interested parties from agreeing to other forms of alternate dispute resolution.

Any party to this order has the right to seek judicial review of it under Section 120.68, F.S., by filing a notice of appeal under Rule 9.110, Florida Rules of Appellate Procedure, with the clerk of the Department in the Office of General Counsel, Mail Station 35, 3900 Commonwealth Boulevard, Tallahassee, Florida 32399-3000, and by filing a copy of the notice of appeal accompanied by the applicable filing

fees with the appropriate district court of appeal. The notice of appeal must be filed within thirty days after this order is filed with the clerk of the Department.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Deborah A. Getzoff  
District Director  
Southwest District

DAG/sjp  
Attachment

Copies furnished to:

Manatee County Board of County Commissioners  
Manatee County Notification List  
✓ Gus DiFonzo, Manatee Co., email: [gus.difonzo@co.manatee.fl.us](mailto:gus.difonzo@co.manatee.fl.us)  
✓ Mike Gore, Manatee County, email: [mike.gore@co.manatee.fl.us](mailto:mike.gore@co.manatee.fl.us)  
✓ Joe Miller, P.E., PBSJ, email: [jlmiller@pbsj.com](mailto:jlmiller@pbsj.com)  
✓ Ronni Moore, OGC Tallahassee, email  
✓ Fred Wick, FDEP Tallahassee, email  
✓ Richard Tedder, P.E., FDEP Tallahassee, email  
✓ Mara Nasca, FDEP Tampa, Air, email  
(Permit Notebook)

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF INTENT TO ISSUE** and all copies were mailed before the close of business on Sept 18, 2008 to the listed persons.  
Clerk Stamp

**FILING AND ACKNOWLEDGMENT FILED,**  
on this date, pursuant to  
Section 120.52(11), Florida  
Statutes, with the designated  
Department Clerk, receipt of which  
is hereby acknowledged.

Anna Brantly  
(Clerk)

9/18/2008  
(Date)

**State of Florida**  
**Department of Environmental Protection**  
**Notice of Proposed Agency Action on Permit Application**

The Department of Environmental Protection hereby gives notice of its Intent to Issue a permit to Manatee County Utilities Operations Department, Mr. Daniel T. Gray, Director, who applied on February 7, 2008, to the Department of Environmental Protection for a permit to construct and operate an active gas extraction system and related appurtenances in the Stage III area of the existing Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida. **This permit application includes construction and operation of the Stage III active landfill gas control system.**

Persons whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below, and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Blvd., MS#35, Tallahassee, Florida 32399-3000, within fourteen (14) days of publication of this notice. Failure to file a request for hearing within this time period shall constitute a waiver any right such person may have to request an administrative determination (hearing) under Section 120.57, Florida Statutes.

The petition shall contain the following information:

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of Department's action, or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
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- (g) A statement of the relief sought by petitioner, stating precisely the action petitioner wants the Department to take with respect to the Department's action or proposed action.



Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice of intent. Persons whose substantial interests will be affected by any such final decision of the Department on the application have the right to petition to become a party to the proceeding, in accordance with the requirements set forth above. Mediation is not available in this proceeding.

Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, Florida Statutes, and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rules 62-110.106, 28-106.201, and 28-106.301 F.A.C.

The application is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m., Monday through Friday, except legal holidays, at 13051 N. Telecom Parkway, Temple Terrace, Fl. 33637-0926.



# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE

Manatee County  
Daniel T. Gray  
Utility Operations Director  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

## PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795  
Permit No: **39884-016-SC/08**  
Date of Issue:  
Expiration Date: **10/19/2011**  
County: Manatee  
Lat/Long: 27°28'10"N  
82°26'35"W  
Sec/Town/Rge: 1/35S/18E  
31/34S/19E  
6&7/35S/19E  
Project: Lena Road Class I LF  
Stage III, gas collection  
system

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2. and made a part hereof and specifically described as follows:

To expand an active gas extraction system at a Class I landfill (approximately 58 acres), referred to as the **Lena Road Landfill (Stage III, gas collection system)**, subject to the specific and general conditions attached, located at 3333 Lena Road, Bradenton, FL. The specific conditions attached are for the **construction** and operation of:

1. Active gas extraction system within (Stage III) lined landfill area

Gas extraction system	Vertical wells ( 6 inch diameter, HDPE SDR 11 w/ 5/8 inch perforations) [ref. SC#A.2.a(2), Sheet C-4],  laterals (8-inch HDPE SDR 17 solid wall pipe) sloped min. 2% to drain to condensate knockouts [ref. SC#A.2.a(2), Sheets C-3, C-3A and C-3B]  gas flows to existing flare station
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Replaces Permit No.: **N/A, new**

This permit contains compliance items summarized in **Attachment 1** that shall be complied with and submitted to the Department by the dates noted. If the compliance dates are not met and submittals are not received by the Department on the dates noted, enforcement action may be initiated to assure compliance with the conditions of this permit.

**GENERAL CONDITIONS:**

1. The terms, conditions, requirements, limitations and restrictions set forth in this permit, are "permit conditions" and are binding and enforceable pursuant to Sections 403.141, 403.161, 403.727, or 403.861, Florida Statutes. The permittee is placed on notice that the Department will review this permit periodically and may initiate enforcement action for any violation of these conditions.
2. This permit is valid only for the specific processes and operations applied for and indicated in the approved drawings or exhibits. Any unauthorized deviation from the approved drawings, exhibits, specifications, or conditions of this permit may constitute grounds for revocation and enforcement action by the Department.
3. As provided in subsections 403.087(6) and 403.722(5), F.S., the issuance of this permit does not convey any vested rights or any exclusive privileges. Neither does it authorize any injury to public or private property or any invasion of rights, nor any infringement of federal, State, or local laws or regulations. This permit is not a waiver of or approval of any other Department permit that may be required for other aspects of the total project which are not addressed in this permit.
4. This permit conveys no title to land or water, does not constitute State recognition or acknowledgment of title, and does not constitute authority for the use of submerged lands unless herein provided and the necessary title or leasehold interests have been obtained from the State. Only the Trustees of the Internal Improvement Trust Fund may express State opinion as to title.
5. This permit does not relieve the permittee from liability for harm or injury to human health or welfare, animal, or plant life, or property caused by the construction or operation of this permitted source, or from penalties therefore; nor does it allow the permittee to cause pollution in contravention of Florida Statutes and Department rules, unless specifically authorized by an order from the Department.
6. The permittee shall properly operate and maintain the facility and systems of treatment and control (and related appurtenances) that are installed and used by the permittee to achieve compliance with the conditions of this permit, are required by Department rules. This provision includes the operation of backup or auxiliary facilities or similar systems when necessary to achieve compliance with the conditions of the permit and when required by Department rules.
7. The permittee, by accepting this permit, specifically agrees to allow authorized Department personnel, upon presentation of credentials or other documents as may be required by law and at reasonable times, access to the premises where the permitted activity is located or conducted to:
  - (a) Have access to and copy any records that must be kept under conditions of the permit;
  - (b) Inspect the facility, equipment, practices, or operations regulated or required under this permit; and
  - (c) Sample or monitor any substances or parameters at any location reasonably necessary to assure compliance with this permit or Department rules.

Reasonable time may depend on the nature of the concern being investigated.

**GENERAL CONDITIONS:**

8. If, for any reason, the permittee does not comply with or will be unable to comply with any condition or limitation specified in this permit, the permittee shall immediately provide the Department with the following information:

- (a) A description of and cause of noncompliance; and
- (b) The period of noncompliance, including dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate, and prevent recurrence of the noncompliance.

The permittee shall be responsible for any and all damages which may result and may be subject to enforcement action by the Department for penalties or for revocation of this permit.

9. In accepting this permit, the permittee understands and agrees that all records, notes, monitoring data and other information relating to the construction or operation of this permitted source which are submitted to the Department may be used by the Department as evidence in any enforcement case involving the permitted source arising under the Florida Statutes or Department rules, except where such use is prescribed by Sections 403.111 and 403.73, F.S. Such evidence shall only be used to the extent it is consistent with the Florida Rules of Civil Procedure and appropriate evidentiary rules.

10. The permittee agrees to comply with changes in Department rules and Florida Statutes after a reasonable time for compliance; provided, however, the permittee does not waive any other rights granted by Florida Statutes or Department rules.

11. This permit is transferable only upon Department approval in accordance with Rule 62-4.120 and 62-730.300, Florida Administrative Code, as applicable. The permittee shall be liable for any non-compliance of the permitted activity until the transfer is approved by the Department.

12. This permit or a copy thereof shall be kept at the work site of the permitted activity.

13. This permit also constitutes:

- (a) Determination of Best Available Control Technology (BACT)
- (b) Determination of Prevention of Significant Deterioration (PSD)
- (c) Certification of compliance with State Water Quality Standards (Section 401, PL 92-500)
- (d) Compliance with New Source Performance Standards

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

(a) Upon request, the permittee shall furnish all records and plans required under Department rules. During enforcement actions, the retention period for all records will be extended automatically unless otherwise stipulated by the Department.

(b) The permittee shall hold at the facility or other location designated by this permit records of all monitoring information (including all calibration and maintenance records and all original strip chart recordings for continuous monitoring instrumentation) required by the permit, copies of all reports required by this permit, and records of all data used to complete the application for this permit. These materials shall be retained at least three years from the date of the sample, measurement, report, or application unless otherwise specified by Department rule.

(c) Records of monitoring information shall include:

1. the date, exact place, and time of sampling or measurements;
2. the person responsible for performing the sampling or measurements;
3. the dates analyses were performed;
4. the person responsible for performing the analyses;
5. the analytical techniques or methods used;
6. the results of such analyses.

15. When requested by the Department, the permittee shall within a reasonable time furnish any information required by law which is needed to determine compliance with the permit. If the permittee becomes aware the relevant facts were not submitted or were incorrect in the permit application or in any report to the Department, such facts or information shall be corrected promptly.

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

1. **Facility Designation.** This site shall be classified as a Class I landfill and shall be constructed, operated, closed, monitored and maintained in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, and 62-701, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for **construction and operation** of the Stage III active gas extraction system in accordance with Department rules and the reports, plans and other information prepared by Post, Buckley, Schuh & Jernigan (PBSJ) (unless otherwise specified) as follows:

a. Manatee County Solid Waste Management Facility, Lena Road Landfill, Stage III Landfill Gas Collection System Construction Permit Application,... (one 3-ring binder) dated January 31, 2008 (received February 7, 2008), as revised, replaced or amended (information inserted into original) dated April 17, 2008 (received April 22, 2008) and June 24, 2008 (received June 25, 2008). This information includes, but is not limited to:

- 1) Lena Road Landfill Contract for Stage III Landfill Gas Collection System, Technical Specifications, [Specs.] (Section 3);
- 2) Plan Sheets titled, Manatee County Lena Road Landfill Stage III Landfill, Gas Collection System,... (9 Sheets) dated January 2008, revised April 2008 (received June 25, 2008) (reduced size set in Section 4, full-size set in file).

b. Responses to Requests for Additional Information,... dated April 17, 2008 (received April 22, 2008) and June 24, 2008 (received June 25, 2008), inserted into original [ref SC#A.2.a];

c. The following information submitted for Modification #39884-015-SO/MM (this information is located in the 3-ring binder referenced in SC#A.2.a. or SC#A.2.f. of modified permit #39884-010-SO/01):

- 1) Landfill Gas Startup/Shutdown/Malfunction Plan, received June 20, 2008 (Attachment L-3 of Operations Plan [ref SC#A.2.a(1) of modified permit #39884-010-SO/01],
- 2) Information concerning biosolids dryer system (Section 5 of information listed in SC#A.2.f. of modified permit #39884-010-SO/01), and
- 3) Information concerning landfill gas engines, conditioning system, radiators, and associated buildings (Section 4 of information listed in SC#A.2.f. of modified permit #39884-010-SO/01).

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the construction or operation at the facility shall require a permit modification. Permits shall be modified in accordance with the requirements of Rule 62-4.080, F.A.C. A modification which is reasonably expected to lead to substantially different environmental impacts which require a detailed review by the Department is considered a substantial modification.

b. This permit **does not authorize** landfill operation. Construction, operation, or other activities not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate, or unless otherwise approved in writing by the Department.

c. Since construction and operational details for the landfill gas engines, gas conditioning system, radiators and associated buildings described in Section 4 of the information submitted for modification #39884-015-SO/MM (ref. SC#A.2.f. of modified permit 39884-010-SO/01) were not provided, this permit **does not authorize** the construction or operation of those systems. A modification of this permit or closure permit #39884-011-SF/01 shall be required for the construction and operation of these systems.

**4. Permit Renewal.** No later than April 19, 2011, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C.

**5. Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.

**6. General Conditions.** The permittee shall be aware of and operate under the "General Conditions." General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.

**7. Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.

**8. Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.

**SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements**

9. **Prohibitions.** The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.

a. In the event that limestone is encountered during excavation or construction activities, the excavation/construction activities shall cease and the Department shall be notified **within 24 hours of discovery**. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include the location, elevation, and extent of limestone noted on a plan sheet, a description of the materials encountered, and a plan of action which ensures that groundwater will not be adversely affected by the continued construction and operation of the facility. Excavation or construction activities shall not resume in the affected area until the Department-approved plan of action has been completed.

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered on-site, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.6.b. The written notification shall include a description of the incident, the location and size of the affected area shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Open burning of solid waste is prohibited except in accordance with Rule 62-701.300(3) and Chapter 62-256, F.A.C. All fires which require longer than one (1) hour to extinguish must be promptly reported to the Department in accordance with Specific Condition #C.6.b.



**SPECIFIC CONDITIONS: PART B - Construction Requirements**

1. **Construction.** All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.

a. This permit authorizes the construction of the Stage III active gas extraction system and related appurtenances.

b. Since construction details for the landfill gas engines and conditioning system described in Section 4 of the information submitted for modification #39884-015-SO/MM (ref. SC#A.2 f. of modified permit 39884-010-SO/01) were not provided, this permit **does not authorize** the construction or operation of that system.

2. **Certification of Construction Completion.** All information required by this Specific Condition shall be signed and sealed by a registered professional engineer or land surveyor as appropriate.

a. **Within sixty (60) days** after the specified construction has been completed, the following activities shall be completed and submitted by the permittee for Department approval:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.

2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e. all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include as-built plans details and elevations (survey) as appropriate.

3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.

4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.**

a. The Record Drawings/Documents shall include, but not be limited to, the following information:

1) As-built locations and details (elevations) of repairs to or penetrations through the slurry wall;

2) Daily construction reports;

3) A compact disc or other electronic media that includes all available photographs documenting all stages of the construction project;

4) Permeability testing for each slurry wall repair;

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.3.a., cont'd)

- 5) As-built invert elevations for the extraction wells and wellhead headers and laterals;
- 6) As-built invert elevations for the gravity condensate transmission pipe.
- 7) An operation and maintenance manual for the gas extraction system;
- 8) Gas well construction diagrams, including elevation at top of ground, total depth of well, static water level, temperature of spoils, depth, thickness and description of soil or waste strata and the occurrences of any water-bearing zones. [Spec.02610-1.03.C.]

**4. Pre-Construction Submittals.**

a. **At least thirty (30) days prior** to initiation of any construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

- 1) A **complete set** of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). All changes shall be noted using strikethrough (~~strikethrough~~) for deletions, and shading (~~shading~~) or underline (underline) for additions. All changes in the plans, specifications and CQA Plan shall be accompanied by a narrative indicating the change. Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and the cause of the deviation and a re-certification of the alternate design by the design engineer shall be provided. These alternate designs shall be approved by the Department prior to construction. If **no** changes have been made to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction;
- 2) The role and name of the specific company/organization for each of the parties in the Project team;

b. **No later than 2 weeks** prior to construction of the following components of the project, the Department shall be notified of the initiation of construction of these components (for each phase of construction) to allow the Department to observe the construction of:

- 1) penetrations through the slurry wall

**5. Pre-Construction Meeting Notification.** Department Solid Waste Permitting staff shall be notified **at least one (1) week prior** to all pre-construction meetings. Prior to initiating construction activities, the permittee shall make arrangements for the Engineer of Record to meet on site and discuss all plan changes with Department Solid Waste Permitting Staff of the Southwest District Office. A copy of the minutes from the pre-construction conference shall be submitted to the Department within two (2) weeks of the conference.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

**6. Construction Schedule and Progress Report.**

a. No later than one (1) week after the pre-construction conference, the owner or operator shall submit a construction schedule which includes estimated dates for each portion of the construction to the Department. The Engineer of Record or another qualified professional engineer shall make periodic inspections during construction to ensure that design integrity is maintained.

b. An updated construction schedule and progress report shall be submitted to the Department **monthly, by the 15<sup>th</sup> of each month**. The monthly progress report should be submitted in an appropriately labeled three-ring binder of sufficient size to store the monthly progress reports for the entire project. The monthly progress reports shall include, but not be limited to:

- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., piping, slurry wall penetrations, etc.),
- 2) A summary of submittals and change order requests,
- 3) Weekly progress meeting minutes [Spec. 01200-1.03.A.] and
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (e.g., lift station construction/connections, etc.).

**7. Construction Tolerances.**

a. Gas collection pipe slopes shall be a minimum of 2%. Invert elevations of the gas collection pipes shall be recorded every 100 feet to demonstrate that the gas collection system has been constructed to the slopes and grades shown on the drawings. [Spec. 02221-3.02., 15051-3.01.C.] This information shall be included with the Record Documents.

b. The construction tolerance for elevations shall be  $\pm 0.10$  ft.

**8. Laboratory and Field Testing Requirements.** Field and laboratory testing during the construction activities shall be conducted by a qualified testing laboratory, independent of the manufacturer or installer, representing the owner. A qualified field technician representing the owner shall provide full time, on-site inspection during construction. The field technician shall work under the supervision of a professional engineer registered in the State of Florida with experience in landfill liner construction.

**9. Construction Quality Assurance.**

a. Liner systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including gas management system) to monitor construction activities.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.9., cont'd)

- b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. Work shall not be concealed until required information is recorded.
- c. All liquid encountered during construction inside the slurry wall is leachate and shall be managed appropriately [see Spec. 01030-1.09, 02221-1.02.B.]. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the slurry wall (liner system) at any time during the construction activities.
- d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained on-site for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.2 and #B.3. All areas not meeting the requirements of the contract specifications and CQA Plan shall be reworked by the Contractor to meet the specifications, CQA Plan and requirements of this permit.
- e. Construction activities such as surveying, gas well drilling, etc., shall not be carried out in non-daylight hours without prior Department approval. If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week** in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.
- f. All portions of the gas management system construction, shall be observed and documented by the CQA Consultant.
- g. CQA daily reports shall include weather conditions (e.g., precipitation, temperature).
- h. Runoff from stockpiled soils shall not discharge to surface water bodies or wetlands such that Department surface water standards are violated at the point of discharge.
- i. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. The surface shall be graded such that there is no ponding of water.
- j. The Department shall be notified in accordance with Specific Condition #C.6.b. of all fuel, oils, greases, solvents, lubricants, etc., that are spilled or leaked in areas that may discharge outside the slurry wall. The permittee shall ensure that all personnel working on the landfill site (including contractors and subcontractors) shall utilize all appropriate measures to prevent spills and leaks of fuel, solvents, lubricants, oils, etc.

**SPECIFIC CONDITIONS: PART B - Construction Requirements**

(Specific Condition #B.9., cont'd)

k. All waste exposed by excavations or other construction activity shall be covered or removed for disposal at the active working face daily. [Spec. 01015-1.12; 02610-3.03.A.] All wastes generated during the construction shall be disposed of in the on-site, active Class I landfill. No solid waste shall be used for backfill.

l. Gas well drilling shall be in accordance with Specification Section 02610 and the conditions of this permit [Spec. 02610-3.01.A.]. In the event that the gas well installation indicates that the clay confining unit under the landfill may have been encountered during gas well installation, the gas well drilling **shall cease** in the affected area and the Department shall be notified in accordance with Specific Condition #C.6.b. The information required by Specification 02610-1.03.C. shall be provided with the written notification. Gas well installation shall not resume until specifically approved by the Department.

m. All newly constructed work such as landfill gas wells, well heads, pipes, stormwater inlets, groundwater monitoring wells, etc., shall be protected. In the event that any groundwater monitoring well is damaged, the Department shall be notified in accordance with Specific Condition #C.6. [Spec. 01015-1.11B.]

**10. Soil Materials.**

a. Repairs to the slurry wall shall be in accordance with Specification Section 01015-1.03. The Department shall be notified of repairs to the slurry wall in accordance with Specific Condition #B.4.c.

b. Pipe bedding materials for pipes installed within the limits of the slurry wall shall not contain any angular stone.

c. The aggregate used for the gas system installation shall be non-calcareous washed well-graded granite. [Spec. 02610-2.01.A.]

**11. Geosynthetic Materials.**

a. The geosynthetic materials used in this project include HDPE piping and fittings only. The installation and materials of the piping and fittings shall be in accordance with Specification Section 15051.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

**1. Facility Operation Requirements.**

a. The permittee shall operate the active portions of this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit #39884-010-SO/01 (including modifications, if any), or its successors.

b. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.

c. The gas flare shall be kept in operation at all times during construction. [Spec. 01005-1.11.B.]

d. Drainage from the gas condensate management system (e.g., flare station gas knockout) shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility. These liquids shall be tested to ensure that they are non-hazardous prior to disposal.

**2. Facility Personnel.** The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.

**3. Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.

**4. Monitoring of Waste.** Wastes shall be monitored as required by Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**5. Control of Nuisance Conditions.** The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction and operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring and management systems, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

b. In the event of damage to any portion of the landfill site facilities, unauthorized leachate discharges, failure of any portion of the landfill systems (including damaged or dry groundwater monitoring wells), fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

**SPECIFIC CONDITIONS: PART C - Operation Requirements**

7. **Stormwater Management.** The site shall have a surface water management system designed, constructed, operated, and maintained to prevent surface water from running on to waste filled areas, and a stormwater runoff control system designed, constructed, operated, and maintained to collect and control stormwater to meet the requirements of Chapter 62-330, F.A.C., and the requirements for management and storage of surface water in accordance with Rule 62-701.500(10), F.A.C., to meet applicable standards of Chapters 62-3, 62-302, and 62-330, F.A.C. The stormwater management system shall be inspected for damage and proper operation daily.

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**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.
2. **Operation Plan and Operating Record.** Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.
3. **Waste Records.** The permittee shall maintain all records required by the construction specifications, CQA Plan and this permit on-site, and shall provide copies to the Department upon request, unless specified otherwise.
4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.
  - a. All costs for closure shall be adjusted and submitted **annually, by September 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Fl. 33637-0926.
  - b. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, MS#4565, Tallahassee, Florida 32399-2400.



PERMITTEE: Manatee County Utilities Dept.  
Mr. Dan Gray, Director

PERMIT NO: 39884-016-SC/08  
Lena Road Class I LF gas extraction system

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. **Water Quality Monitoring Quality Assurance.** Water quality monitoring shall be conducted as required by operation permit number 39884-010-SO/01, including modifications if any, or its successors.

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**SPECIFIC CONDITIONS: PART F - Landfill Gas Management**

**1. Landfill Gas - NSPS and Title V Air Requirements.**

a. This solid waste permit will meet the statutory requirement to obtain an air construction permit before modifying or constructing a source of air pollution, except for those landfills that are subject to the prevention of significant deterioration (PSD) requirements of Chapter 62-212, F.A.C. Facilities that are subject to the PSD requirements shall obtain an air construction permit from the Bureau of Air Regulation prior to beginning construction or modification pursuant to Rule 62-210.400, F.A.C.

b. The permittee shall comply with any applicable Title V air operation permit application requirements of Chapter 62-213, F.A.C., and 40 CFR 60, Subparts WWW and CC, as adopted by reference at Rule 62-204.800, F.A.C. Title V Permit applications shall be submitted to the District Air Program Administrator or County Air Program Administrator with air permitting authority for the landfill.

c. The permittee shall submit to the Division of Air Resources Management, Department of Environmental Protection, Mail Station 5500, 3900 Commonwealth Blvd., Tallahassee, FL 32399-3000, any amended design capacity report and any Non-Methane Organic Compound (NMOC) emission rate report, as applicable, pursuant to 40 CFR 60.757(a)(3) and (b).

**2. Gas Monitoring and Control.** Landfill gas shall be monitored and controlled as required by Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**3. Gas Monitoring Locations.** Gas monitoring probes shall be located as listed in Operation Permit #39884-010-SO/01 (including modifications), or its successors.

**4. Gas Remediation.** In the event that the Lower Explosive Limit (LEL) is greater than 25% inside structures both on or off of the landfill site, or greater than 100% at the property boundary, the owner shall submit to the Department, **within 7 days of detection**, a remediation plan detailing the nature and extent of the problem and the proposed remedy. The remedy shall be completed **within 60 days of detection** unless otherwise approved by the Department.

**SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements**

**1. Closure Requirements.**

a. **No later than ninety (90) days** prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all applicable Department rules. A closure permit is required prior to implementing closure related activities.

b. **Long-Term Care Requirements.** The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the Long-Term Care Plan referenced in modified permit #39884-010-SO/01, or its successors. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring; maintenance of the final cover system; maintenance of the leachate collection and removal system; maintenance and operation of the gas collection system; erosion control; and the prevention of ponding within disposal areas.

c. After final cover construction for all areas of the landfill is completed, and construction is approved by the Department, the permittee shall file a declaration to the public in the deed records in the office of the county clerk.

**2. Future use of closed landfill areas.** Prior to implementation, the owner or operator shall submit a plan for any proposed uses of the closed portions of the landfill to the Department for approval. This plan shall include a description of the proposed use, and evaluation of the impact on the existing landfill systems (e.g. final cover, leachate collection, bottom liner), engineering designs, calculations and plans as appropriate, etc. The proposed activity shall not be initiated without prior Department approval.

**3. Final Cover.** Portions of the landfill which have been filled with waste to the extent of designed dimensions shall be closed (shall receive final cover) within 180 days after reaching design dimensions, in accordance with Rule 62-701.500(7)(g), F.A.C. and all applicable requirements of Department rules.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

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Deborah A. Getzoff  
District Director  
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than 04/19/2011	Submit permit renewal application
A.9.a.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of sinkholes or subsurface instability  Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
B.4.a.	At least 30 days prior to construction	Submit complete plans, specification, CQA plan, or statement that no changes have occurred, org. chart with parties/roles,
B.4.b.	No later than 2 weeks prior to construction of penetrations of the slurry wall	Notify of construction initiation to allow for observation
B.5.	At least 1 week prior	Notify of preconstruction meeting
B.6.a.	No later than 1 week after pre-construction meeting	Submit meeting minutes
B.6.b.	Monthly, by the 15 <sup>th</sup> each month	Submit monthly progress report & schedule
B.9.e.	At least 1 week prior	Notify of night work
C.6.b.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment  Written notification & corrective action plan
D.4.a.	Annually, by September 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
F.4.	Within 7 days of detection  Within 60 days of detection	Submit gas remediation plan  Complete corrective actions
G.1.a.	No later than 90 days prior to the date when wastes will no longer be received in active LF areas	Submit Closure Permit application

## Pelz, Susan

---

**From:** Miller, Joseph L [JLMiller@pbsj.com]  
**Sent:** Tuesday, July 29, 2008 9:26 AM  
**To:** Pelz, Susan  
**Cc:** gus.difonzo@co.manatee.fl.us; Castro, Raymundo G; mike.gore@co.manatee.fl.us  
**Subject:** RE: Lena Rd gas system mod

Susan,

Thanks, that is good news!!

Joe Miller

---

**From:** Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]  
**Sent:** Tuesday, July 29, 2008 7:26 AM  
**To:** Miller, Joseph L  
**Cc:** gus.difonzo@co.manatee.fl.us; Castro, Raymundo G; mike.gore@co.manatee.fl.us  
**Subject:** RE: Lena Rd gas system mod

Joe,

Thanks for the clarification. You don't need to change the gas well Section "A" for this mod, but if you use these plans/details in the future, you should probably just delete the one in the northwest portion of Stage III (as it doesn't seem like it's really necessary).

The operations modification is complete. We will be issuing the Op Mod by 9/17 and the gas construction Intent (publication is required) will go out by 9/22/08. I will, of course, try to get them out earlier.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, Fl. 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

---

**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Monday, July 28, 2008 6:07 PM  
**To:** Pelz, Susan  
**Cc:** gus.difonzo@co.manatee.fl.us; Castro, Raymundo G; mike.gore@co.manatee.fl.us  
**Subject:** RE: Lena Rd gas system mod

Susan,

The Landgem model estimates the “methane emission rate” and not the flow of landfill gas. This is shown as the header on the far right column of the printout under the title “Model Results.” You have to calculate the landfill gas flow based on the percent of methane in the landfill gas. Typically landfill gas is 50% methane, so double the methane flow rate to get the flow rate of landfill gas. So in 2009, the model flow rate estimates the methane emission rate at 3.962 E+07 cubic meters of methane per year. Multiply the 3.962 E+07 cubic meters x 35.314 cubic feet per cubic meter divided by (365 days per year x 24 hours per day x 60 minutes per hour) = a flow rate of 2,480 cubic feet of methane gas per minute. So if 50% of the landfill gas is methane, than you have to double the 2,480 cubic feet to get the flow of landfill gas which equals 4961.2 SCFM. I rounded it to 4900 standard cubic feet per minute (SCFM) of landfill gas.

Section “A” is a view of the “Typical Landfill Gas Well”. The indicator is looking at a landfill gas well. We show section “A” closer to gas well GW-350 on this sheet. If you want I will redo the drawing and move the section indicator a little closer to the well as we have it for GW-350, or I will just eliminate it. We do not need to show it twice on the same sheet. We developed these drawings for all three phases of the landfill gas collection system construction. This section indicator was probable left over from the sheet showing all the wells. I don’t think it will cause any confusion.

Did you have any other comments for the operation permit modification?

Thanks,

Joe

---

**From:** Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]  
**Sent:** Monday, July 28, 2008 2:57 PM  
**To:** Miller, Joseph L  
**Cc:** gus.difonzo@co.manatee.fl.us  
**Subject:** Lena Rd gas system mod

Joe,

As you suggested, since we keep missing each other by phone, I thought I would drop you an email.

The couple of minor comments/questions I had for the gas system mod:

1. The information in Part O, page O-9 indicates that the LandGem model estimated 4900 SCFM, but I could not find that value on the tabulated data/printouts in Appendix A (methane.txt) even after the conversion from cubic meters/year to SCFM. Please direct me to the year in the model that supports the 4900 SCFM estimate in Part O.
2. Sheet C-3A. The cross-section A identified in the northwest corner of Stage III does not appear to be near a gas extraction well.

Please clarify these two items.

Thanks,

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

13051 N. Telecom Parkway

Temple Terrace, Fl. 33637

813-632-7600 x 386

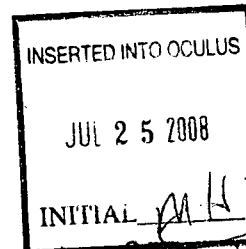
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*



An employee-owned company  
June 24, 2008

Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926



Dept. of Environmental  
Protection

JUN 25 2008

Re: Lena Road Landfill, Manatee County  
GMS ID No.: 4041C02025  
Stage III Landfill Gas Recovery System Construction  
Pending Permit No.: 39884-016-SC/08  
Response to RFI #2 dated May 21, 2008

Southwest District

Dear Ms. Pelz:

This letter is in response to your Request for Information #2 regarding the above referenced permit application. Your requests are typed in italics followed by our responses in normal type. Four copies of this response with each revision, replacement, or additional new document are included.

**1. Application form, Rule 62-701.320(7), F.A.C.**

- a. *Part O.4. Response #1.a. indicates that the application form was revised to reference the appropriate information. The revised application form references the 2004 Operation Permit renewal application. However, the gas recovery system was not approved by the Department as part of the operation permit application, and the information regarding the gas recovery system is "not relevant" for that application (as stated in Part O of that application). Please provide a revised application form that includes the information for the gas recovery system.*

Response: Part O.4 was revised and the information included with this response.

**2. Landfill Gas Recovery System; Rule 62-701.530(5), F.A.C.**

- a. *As previously requested, please provide construction plans and design information for the "gas processing points or flares" (i.e., gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: The information for the sludge drying system requested here was submitted as part of the operation permit modification application, and is on file with the Department. The additional information requested here was submitted as part of the Response #2 to the request for additional information for the minor permit application



for the Landfill Operation Permit. The construction drawings requested for the gas engines, radiators and buildings is not available since Siemens, the contractor for the project, has not completed final design. This information will be submitted when it is complete. Please do not delay our request for the Stage III Landfill gas expansion system permit for this information on the landfill gas to electricity project. The Title V air permit requires the landfill gas system installation completed by February of 2009.

- b. *Please provide all information required by Rule 62-701.530, F.A.C., for gas recovery systems. See Comment #2.a., above.*

Response: See response to Comment #2.a., above.

- c. *No additional information is requested concerning the bottom elevation of the boring/gas wells. Please provide one full-sized set of drawings. See Comment #2.g.*

Response: One complete full-size set of drawings is included with this response.

- d. Tables 1, 2, 3, 4. Landfill Gas Estimates ....

Response: We included with this response a copy of the calculations for the methane emission rate for the Manatee County Lena Road Landfill using the U.S. EPA LANDGEM model. These calculations were submitted to the Department in Part O of Volume 2 of 2 of the Application and Engineering Report for Renewal of the Landfill Operation Permit for the Manatee County Lena Road Landfill dated April 2004. They were also submitted to the Department with the renewal of the Stage I Landfill Closure Permit in 2005.

- e. Section 2, Part O.  
1) *Please provide calculations that demonstrate that the lateral and header piping will not collapse under the expected loading.*

Response: The previously submitted calculations for the Stage I landfill gas system as part of the Stage I Landfill Closure Permit renewal were copied, resigned and sealed and included with this response.

- f. Section 3, Specifications.  
1) *Please provide specifications for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: This response is the same as the response to Number 2.

- 2) Section 01015. No additional information is requested for this item.
- 3) Section 01030. The revised information changed the pagination such that some information was not included on the revised pages. Please provide a complete Section 01030.

Response: Included with this response is a complete copy of Section 01030.

- 4) Section 02610. Response #2.f (4) states, "Section 2.01.A has the gradation for the gas well aggregate. It is graded between 1-inch to 3-inch diameter size." While "3-inch to 1-inch diameter" describes the size range for the aggregate, the Department disagree that this is the gradation of the material since it does not specify the percentage of each size that is expected for the material. Please provide the gradation requirement for the gas well aggregate (2.01.A.). The revised information changed the pagination such that some information was not included on the revised pages. Please provide a complete Section 02610.

Response: Section 2.01.A was revised to add gradations, and revised Section 02610 is included with this response.

- g. Section 4, Drawings. Reduced size plan sheets are acceptable however; please provide at least one set of full-sized, signed and sealed drawings, in addition to reduced-size drawings for the Department's file.

Response: One full-sized set and four reduced sized plan sheets are included with this response.

- 1) Please provide construction drawings for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).

Response: The drawings for the sludge drying system were submitted with the application and responses for the permit modification for the Landfill Operations Permit. The drawings for the landfill gas to electricity project are not available.

- 2) Sheet C-2, General Site Plan. No additional information is requested for this item.
- 3) Sheet C-3. No additional information is requested for this item.

- 4) Sheets C-3A and 3B. Please verify the location of Section A referenced to Sheet C-4 in the northwestern portion of this plan view sheet.

Response: The reference was verified. The drawing was revised and the revised drawing included with this response.

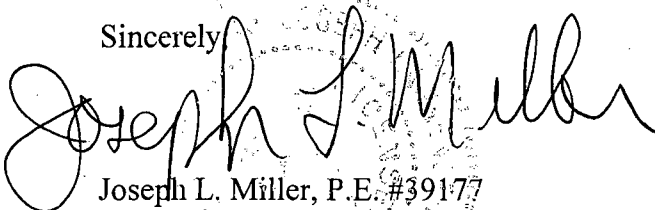
- 5) Sheet C-4. No additional information is requested for this item.
- 6) Sheet C-5. A new Detail B ("Typical Pipe section") referenced to Sheet C-4 and C-3 was added to this sheet. Since there is also a Detail B referenced to Sheets C-3 and C-4 shown on Sheet C-4, please identify the locations of these different configurations on the plan view sheets.

Response: This detail was deleted and the revised drawing included with this response.

- 7) Sheet C-6. No additional information is requested for this item.

3. **Notice of Application, Rule 62-701.320(8), F.A.C.** Proof of publication of Application was received by the Department on May 19, 2008. No additional information is requested for this item.

Sincerely,



Joseph L. Miller, P.E. #39177  
Project Engineer

Dept. of Environment  
Protection

JUN 25 2008

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies  
U:\SO\Projects\Manatee County\SW-33 Stage III LFG\Permit Application\Response to RFI 2.doc

**Attachments**

- Application Part O Page 34 of 40 and attachments
- Engineering Report – Information requested in Part O of the Application
- Pipe Strength Calculations for Landfill Gas Collection Pipe
- Application Section 3 - Specifications Section 01030
- Application Section 3 - Specifications Section 02610
- Section 4 - One full-sized set and four reduced-sized sets of the Permit/Construction Drawings C-1, C-2, C-3, C-3A, C-3B, C-4, C-5 and C-6.

Southwest District

**Pelz, Susan**

---

**From:** gus.difonzo@mymanatee.org  
**Sent:** Friday, May 30, 2008 11:43 AM  
**To:** Pelz, Susan  
**Cc:** dan.gray@mymanatee.org  
**Subject:** RE: Lena Road LF, Manatee Co, Stage III Gas Construction RAI #2

Susan, as always, thanks. I'll follow through accordingly. I'll catch up to you with a phone call next week. Gus.

"Pelz, Susan" <Susan.Pelz@dep.state.fl.us>

To <gus.difonzo@mymanatee.org>

cc <dan.gray@mymanatee.org>

05/30/2008 10:38 AM

Subject RE: Lena Road LF, Manatee Co, Stage III Gas Construction RAI #2

Gus,

Please see my comments below. Please call me next week to discuss further.

Thanks,

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637  
813-632-7600 x 386  
susan.pelz@dep.state.fl.us

**From:** gus.difonzo@mymanatee.org [mailto:gus.difonzo@mymanatee.org]  
**Sent:** Thursday, May 29, 2008 3:06 PM  
**To:** Pelz, Susan  
**Cc:** dan.gray@mymanatee.org  
**Subject:** Re: Lena Road LF, Manatee Co, Stage III Gas Construction RAI #2

Susan,

I hope this e-mail as always finds you doing well and hanging in there. If I may ask for your patience with my questions for clarification with regard to the latest RFAI #2 for the Stage 3 Gas Construction. Your response will assist me in providing input and direction to Joe Miller with PBSJ. I know your communication preference is through e-mail. Having said all that, here are my questions.

My inquiries center around the requested information specific to Siemens. The County is still in negotiations with Siemens. Though the County initially completed negotiations with Siemens and signed an agreement, since that time Siemens has come back to the County with additional stipulations they would like modified in the agreement. The County is presently reviewing / considering Siemens request. To that end, much of the specific information being requested with the RFAI #2 is not available at this time.

Operation Permit Modification Item 3. a Landfill Gas Recovery System - Disposal location for the mixture used in radiator cooling system. I know Siemens plans to have a company perform this service. Due to the status of the agreement, the specifics are unknown at this time. Can this item and other items related to Siemens, ie: construction drawings, specifications, engines, buildings, etc., be documented as a permit condition for the information to be supplied to FDEP when and if Siemens builds and operates the system ? Yes – I can put a condition in the permit that requires these details to be submitted as part of the “conformed documents” – some specific time prior to construction.

With regard to the Sludge Drier, I thought all the construction drawings were submitted as part of the Operation Permit Modification. Are you asking us to resubmit those drawings as part of the Stage 3 Construction Permit Application, or are you looking more for the piping and condensate details and specifications ? I do not need the drawings resubmitted, but they need to be referenced. The information that was provided by PBSJ was non-responsive in that instead of referencing the drawings that were provided in the Operations Modification, they referred to the air permit (which did not include the information) and basically said they didn't need to provide the information because those systems were not part of a gas recovery facility.

I am in hopes you are agreeable to my suggestions. My concern lies in that we need the permit for the Stage 3 Landfill Gas System to meet our Title V requirements. It is my interpretation and understanding that from the time we began filling in Stage 3 that the system has to be in by February of 2009. I acknowledge the time constraints that the County has for Title V, and will do what I can to expedite the modifications.

Your understanding and cooperation in this matter would be greatly appreciated. Please accept an advanced thank you for your time on this matter.

Respectfully / Gus.

"Pelz, Susan"  
<Susan.Pelz@dep.state.fl.us>

05/22/2008 02:13 PM

To <gus.difonzo@mymanatee.org>  
cc <jlmiller@pbsj.com>, "Morgan, Steve" <Steve.Morgan@dep.state.fl.us>, "Zell, David"  
<David.Zell@dep.state.fl.us>, <mike.gore@co.manatee.fl.us>  
Subject Lena Road LF, Manatee Co, Stage III Gas Construction RAI #2

Gus,

Please find attached an electronic copy of RAI #2 for the above-referenced project. Hard copy was mailed to Dan Gray only.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.

Solid Waste Program Manager

Southwest District

13051 N. Telecom Parkway

Temple Terrace, Fl. 33637

813-632-7600 x 386

susan.pelz@dep.state.fl.us

<<RAI #2 Lena Rd LF Stage III GRS dated 5-21-2008.pdf>>

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

**Pelz, Susan**

---

**From:** Pelz, Susan  
**Sent:** Thursday, May 22, 2008 2:15 PM  
**To:** gus.difonzo@mymanatee.org  
**Cc:** Joe Miller (jlmiller@pbsj.com); Morgan, Steve; Zell, David; Mike Gore (mike.gore@co.manatee.fl.us)  
**Subject:** Lena Road LF, Manatee Co, Stage III Gas Construction RAI #2

Gus,

Please find attached an electronic copy of RAI #2 for the above-referenced project. Hard copy was mailed to Dan Gray only.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, FL 33637  
813-632-7600 x 386  
[susan.pelz@dep.state.fl.us](mailto:susan.pelz@dep.state.fl.us)



RAI #2 Lena Rd  
LF Stage III GR...

**Tracking:**

**Recipient**

gus.difonzo@mymanatee.org

Joe Miller (jlmiller@pbsj.com)

Morgan, Steve

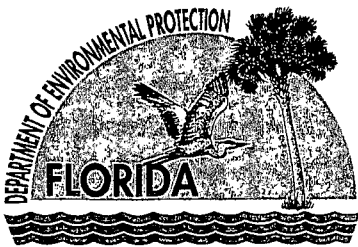
Zell, David

Mike Gore (mike.gore@co.manatee.fl.us)

**Read**

Read: 5/22/2008 2:22 PM





# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

44795	Inserted into <b>OCULUS</b>	Michael W. Sole Secretary
Date: 5/23/08	Initials: [Signature]	

Mr. Daniel Gray, Director  
Manatee County Utility Operations  
4410 66<sup>th</sup> Street West  
Bradenton, Fl. 34210

May 21, 2008

RE: Lena Road Landfill, Manatee County  
Stage III landfill gas recovery system construction  
Pending Permit No. 39884-016-SC/08

Dear Mr. Gray:

This is to acknowledge receipt of the additional information dated April 17, 2008 (received April 22, 2008) submitted in support of your permit application, dated January 31, 2008, prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to construct a landfill gas extraction and recovery system for Stage III at the existing Class I landfill referred to as the Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes. Your application for a permit modification is incomplete. This is the Department's second request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received. The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

## GENERAL:

1. Please submit **4 copies** of all requested information. Please specify if revised information is intended to supplement or replace previously submitted information. Please submit all revised plans and reports as a complete package. For revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded Shaded or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.
2. Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.
3. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**

The following information is needed in support of the solid waste permit application [Chapter 62-701, Florida Administrative Code (F.A.C.)].

1. **Application form, Rule 62-701.320(7), F.A.C.**

a. Part 0.4. Response #1.a. indicates that the application form was revised to reference the appropriate information. The revised application form references the 2004 Operation permit renewal application. However, the gas recovery system was not approved by the Department as part of the operation permit application, and the information regarding the gas recovery system is "not relevant" for that application (as stated in Part 0 of that application). Please provide a revised application form that includes the information for the gas recovery system.

2. **Landfill Gas Recovery System, Rule 62-701.530(5), F.A.C.**

a. Response #2.a. states, "the sludge drying system and engines are not considered a 'gas recovery facility' as defined in Chapter 701. The Department has already issued construction permits for these projects through the air section. Our application did not request construction permits for these facilities. Our application was only for expansion of the landfill gas recovery system to the Stage III Landfill."

Rule 62-701.200(43), F.A.C., defines gas recovery facilities as "a system of wells, trenches, pipes,... that collect and transport the gas produced... to one or more gas processing points or flares. [emphasis added]" Since Response #2.a. indicates that these details were part of the Air permit application, those documents were briefly reviewed to verify that the information submitted to the Air Section includes sufficient detail to comply with Rule 62-701.530, F.A.C., concerning the "gas processing points or flares." However, that information does not show the piping (and associated appurtenances) required to convey the LFG to the sludge dryer system on the figures/drawings provided in the air permit application, and therefore, does not meet the requirements of the solid waste rule.

As previously requested, please provide construction plans and design information for the "gas processing points or flares" (i.e., gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM)).

b. Please provide all information required by Rule 62-701.530, F.A.C., for gas recovery systems. See Comment #2.a., above.

c. No additional information is requested concerning the bottom elevation of the borings/gas wells. Please provide one full-sized set of drawings. See Comment #2.g.

(Comment #2, cont'd)

d. Tables 1, 2, 3, 4. The information submitted does not provide a reasonable basis for the landfill gas system design/capacity as discussed below. Please submit sample calculations, supporting references, and assumptions that provide a reasonable basis for the values presented in these tables.

1) Response #2.d. indicates that the design method was taken from an article in MSW Magazine (Daniel P. Duffy, MSW Management, March/April 2006), and provided a copy of that article. The article states, "these assumed characteristics can only be used as a rough average for planning purposes.... The LFG management system design will almost certainly have to be modified to accommodate actual field conditions. (page 2)" The article also indicates that the values used are "empirical and based on field observations." The article presents the author's observations and empirical conclusions, and while the Department does not disagree that the article may be suitable for "planning purposes," since the article is not from a refereed publication or textbook, does not provide references for the equations and values used (other than "empirical" as stated above), and explicitly states that the article is intended to provide a "rough average for planning purposes" (instead of design purposes), the Department does not consider the article to be reasonable for design of the LFG system.

2) Response #2.d also indicates that the LFG estimate provided using the method in the article is "validated by closely matching the actual reading[s]" at the Lena Road landfill. However, based on the data provided for 2008, the summation of the flow at the wellheads (2319 SCFM) does not correlate well with the flowrate measured at the flare flowmeter (1455 SCFM). The response indicates that the average of these flowrates validates the method used by Duffy. The Department disagrees with this conclusion. It does not seem that averaging disparate data (2319 SCFM vs. 1455 SCFM) over a year's time is a reasonable assessment of the validity of the proposed methodology. The Department also disagrees that based on the data presented in the response that the proposed methodology "is validated by closely matching the actual reading[s]" from the Lena Road landfill.

3) The Department accepts the explanation for Columns 1, 2 and 3 of the Tables.

e. Section 2, Part O.

1) Response #2.e(1) indicates that the calculations submitted for the Stage I gas collection system expansion are valid for the Stage III gas system. However, a complete copy of the calculations for pipe crushing, buckling and ring deformation could not be located in the "Calculation Book" revised June 16, 2006 in the Department's files. Please provide calculations that demonstrate that the lateral and header piping in Stage III will not collapse under the expected loading.

f. Section 3, Specifications.

1) See Comment #2.a. Please provide specifications for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).

2) \$01015. No additional information is requested for this item.

(Comment #2.f., cont'd)

3) §01030. The revised information changed the pagination such that some information was not included on the revised pages. Please provide a complete Section 01030.

4) §02610. Response #2.f(4) states, "Section 2.01.A has the gradation for the gas well aggregate. It is graded between 1-inch to 3-inch diameter size." While "3-inch to 1-inch diameter" describes the size range for the aggregate, the Department disagrees that this is the gradation of the material since it does not specify the percentage of each size that is expected for the material. Please provide the gradation requirement for the gas well aggregate (§2.01.A.). The revised information changed the pagination such that some information was not included on the revised pages. Please provide a complete Section 02610.

g. Section 4, Drawings. Reduced size plan sheets are acceptable, however, please provide at least one set of full-sized, signed and sealed drawings, in addition to reduced-size drawings for the Department's files.

1) See Comment #2.a. Please provide construction drawings for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).

2) Sheet C-2, General Site Plan. No additional information is requested for this item.

3) Sheet C-3. No additional information is requested for this item.

4) Sheet C-3A. Please verify the location of Section A referenced to Sheet C-4 in the northwestern portion of this plan view sheet.

5) Sheet C-4. No additional information is requested for this item.

6) Sheet C-5. A new Detail B ("Typical Pipe Section") referenced to Sheets C-4 and C-3 was added to this sheet. Since there is also a Detail B referenced to Sheets C-3 and C-4 shown on Sheet C-4, please identify the locations of these different configurations on the plan view sheets.

7) Sheet C-6. No additional information is requested for this item.

3. **Notice of Application, Rule 62-701.320(8), F.A.C.** Proof of publication of Notice of Application was received by the Department on May 19, 2008. No additional information is requested for this item.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review.

Please respond **by June 18, 2008**, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than **the date noted above**, you should develop an alternate specific time table for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

You are requested to submit your responses to this letter together, as one complete package. Please contact me at (813)632-7600 ext. 386 if you have any questions.

Sincerely,



Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District

sjp

cc: ☒ Gus DiFonzo, Manatee County, 4410 66<sup>th</sup> Street West, Bradenton, Fl. 34210 (email)  
☒ Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101 (email)  
☒ Steve Morgan, FDEP Tampa, SW (email)  
☒ David Zell, FDEP Tampa, Air (email)

# BRADENTON HERALD

MANATEE - BRADENTON - SARASOTA  
102 MANATEE AVENUE WEST, P.O. BOX 921  
BRADENTON, FL 34205  
TELEPHONE (941) 748-0411

Published Daily  
Bradenton, Manatee, Florida

## STATE OF NEW YORK COUNTY OF ERIE:

Before the undersigned authority personally appeared Jessica Sherman, who on oath says that she is Legal Advertising Representative of the Bradenton Herald, a daily newspaper published at Bradenton in Manatee County, Florida; that the attached copy of the advertisement, being a Legal Advertisement in the matter of

Notice of Application

\_\_\_\_\_ in the \_\_\_\_\_ Court,  
was published in said newspaper in the issues of

April 25, 2008

Affiant further says that the said publication is a newspaper published at Bradenton, in said Manatee County, Florida, and that the said newspaper has heretofore been continuously published in said Manatee County, Florida, each day and has been entered as second-class mail matter at the post office in Bradenton, in said Manatee County, Florida, for a period of 1 year next preceding the first publication of the attached copy of advertisement; and affiant further says that she has neither paid nor promised any person, firm or corporation any discount, rebate, commission or refund for the purpose of securing this advertisement for publication in the said newspaper.

Jessica R. Sherman  
(Signature of Affiant)

Sworn to and subscribed before me this

28 day of April, 19 2008

Linda M. Curtis

SEAL & Notary Public

Linda M. Curtis  
Notary Public  
County of Erie  
State of New York

Commission Expires 9 - 23 - 2010

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
MAY 19 2008  
SOUTHWEST DISTRICT  
TAMPA

Personally Known X or Produced Identification \_\_\_\_\_  
Type of Identification Produced \_\_\_\_\_

**State of Florida  
Department of  
Environmental  
Protection**

**Notice of Application**

The Department announces the receipt of applications for permit modification and construction permit from Manatee County Utilities Operations Department, Mr. Daniel Gray, Director for operational modifications and to construct a landfill gas recovery system in Stage III at the existing solid waste class I landfill, referred to as the Manatee County Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida.

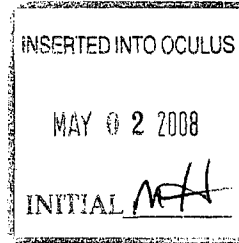
This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 N. Telecom parkway, Temple Terrace, FL 33637-0926.  
**04/25/08**



An employee-owned company

April 17, 2008

Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926



FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
APR 22 2008  
SOUTHWEST DISTRICT  
TAMPA

Re: Lena Road Landfill, Manatee County  
GMS ID No.: 4041C02025  
Stage III Landfill Gas Recovery System Construction  
Pending Permit No.: 39884-016-SC/08  
Response 1 to RFI #1 dated March 6, 2008

Dear Ms. Pelz:

This letter is in response to your Request for Information #1 regarding the above referenced permit application. Your requests are typed in italics followed by our responses in normal type. Four copies of this response with each revision, replacement, or additional new document are included.

**1. Application form, Rule 62-701.320(7), F.A.C.**

- a. *Part O.4. Since a gas recovery system is part of the proposed construction, please provide a revised application form that includes this information.*

Response: Part O.4 was revised from "Not applicable" to "No change" with a reference to the previous permit application which included this information.

**2. Landfill Gas Recovery System; Rule 62-701.530(5), F.A.C.**

- a. *Please provide construction plans and design information for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: The rule cited for this request is Landfill Gas Recovery System; Rule 62-701.530(5), F.A.C. Chapter 62-701.200 Definitions defines a gas recovery facility as:

"(43) "Gas recovery facility" means a system of wells, trenches, pipes, and other related ancillary structures such as manholes, compressors, and monitoring installations that collect and transport the gas produced in a waste disposal unit to one or more gas processing points or flares. The flow of gas through such a system may be produced by naturally occurring gas pressure gradients or may be aided by an induced draft generated by mechanical means."

See 3-ring  
binder

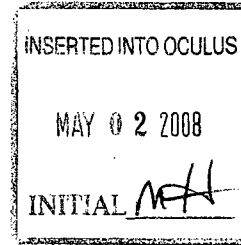




An employee-owned company

April 17, 2008

Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926



Re: Lena Road Landfill, Manatee County  
GMS ID No.: 4041C02025  
Stage III Landfill Gas Recovery System Construction  
Pending Permit No.: 39884-016-SC/08  
Response 1 to RFI #1 dated March 6, 2008

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
APR 22 2008  
SOUTHWEST DISTRICT  
TAMPA

Dear Ms. Pelz:

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**1. Application form, Rule 62-701.320(7), F.A.C.**

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**2. Landfill Gas Recovery System; Rule 62-701.530(5), F.A.C.**

- a. *Please provide construction plans and design information for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: The rule cited for this request is Landfill Gas Recovery System; Rule 62-701.530(5), F.A.C. Chapter 62-701.200 Definitions defines a gas recovery facility as:

"(43) "Gas recovery facility" means a system of wells, trenches, pipes, and other related ancillary structures such as manholes, compressors, and monitoring installations that collect and transport the gas produced in a waste disposal unit to one or more gas processing points or flares. The flow of gas through such a system may be produced by naturally occurring gas pressure gradients or may be aided by an induced draft generated by mechanical means."

The sludge drying system and engines are not considered a “gas recovery facility” as defined in Chapter 701. The Department has already issued construction permits for these projects through the Air Section. Our application did not request construction permits for these facilities. Our application was only for the expansion of the landfill gas recovery system to the Stage III Landfill.

- b. *Please provide all information required by Rule 62-701.530, F.A.C., for gas recovery systems.*

Response: This response should provide all the information required by Rule 62-701.530, F.A.C. for the Department to issue the construction permit for the Stage III Landfill gas recovery system.

- c. *Although the Stage III landfill does not have a traditional bottom liner system, the design is based on the slurry wall being keyed into an in-situ clay layer that underlines the landfill. Please provide information that demonstrates that the gas extraction wells will not penetrate or adversely impact the underlying clay layer.*

Response: The Table on Sheet C-6 was revised to include the top of landfill elevation at each borehole, the length of the boring and the bottom elevation of the boring. The Stage III Landfill is permitted for solid waste above Elevation +29. The separation between the bottom of the boring and Elevation 29.0 is a minimum of five feet. The in-situ clay is well below Elevation +29. So as long as the borings are within the solid waste the Department should not be concerned that the borings will penetrate or adversely impact the underlying in-situ clay layer.

- d. *Tables 1, 2, 3, 4. Please provide sample calculations and supporting references, basis and assumptions used to determine the values presented in these tables.*

Response: This calculation uses a different procedure than the Landgem method of calculations submitted in Part O of the application submitted in April 2004 for renewal of the landfill operation permit. This procedure gives estimates that agree with landfill gas collected and burned in the flare. The calculation procedure is the same for all four tables. Table 1 is for all the solid waste going into Landfill Stages I, II and III. Table 2 is for only the solid waste going into the Stage I Landfill. Table 3 is for only the solid waste going into the Stage III Landfill. Table 4 is for only the solid waste going into the Stage II Landfill.

The calculations are based on a procedure recommended in a MSW Management article from the March/April 2006 magazine. Daniel P. Duffy is the author. A copy of the article is included with this response for reference.

Each table has five columns.

Column 1 gives the year because we estimate gas flow per year.

Column 2 gives the Annual Disposal of solid waste in tons. Note 3 of each table explains that the annual disposal in tons landfilled after 2006 is based on an assumption that the solid waste in tons landfilled each year will grow at a rate of 2%. From 1979 until 2006 the annual disposal in tons is based on landfill records.

Column 3 is a calculation of the in-place waste in tons. Each year the in place tonnage is calculated by adding up all the previous years plus the current years to give an estimate of the total tonnage of solid waste in the landfill.

Column 4 is an estimate of the Decomposed Waste in tons. This is calculated based on the assumption in note 1 that landfill gas is produced at the rate of 0.1 cubic foot per pound of waste per year less decomposed waste. The value is as recommended by Mr. Duffy. The number is empirical and based on field observations. The decomposed waste in tons in Column 4 is calculated by subtracting the solid waste that decomposed in the previous year based on the estimated conversion of mass to gas. It is calculated as follow:

$$\text{Decomposed Waste in tons} = [\text{Landfill Gas Flow in Column 5 in SCFM} * 525,600 \text{ minutes per year}] \text{ divided by } [2000 \text{ pounds per ton} * 4.49]$$

The 525,600 minutes per year is calculated as follows: 365 days per year \* 24 hours per day \* 60 minutes per hour. It is used to calculate the flow rate in SCFM to an annual average flow rate. This number is divided by 2000 pounds per ton and the factor of 4.49. This factor comes from the MSW article. "The factor of 4.49 converts the cubic feet of LFG into lbs of decomposed waste. Its value is based on laboratory studies and is an average value subject to change according to local waste characteristics."

Column 5 is an estimate of the average annual landfill gas flow for the year in Column 1. It is calculated using the average flow rate of 0.1 cubic foot per pound of waste per year less the decomposed waste given in Column 4 from the previous year.

$$\text{Landfill Gas in SCFM} = [(\text{In place Waste in Tons}) - (\text{Decomposed Waste in Tons from the previous year})] * 2000 \text{ pounds per ton} * 0.1 \text{ cubic feet of LFG per pound of in place waste} \text{ Divided by } 525,600 \text{ minutes per year.}$$

The 525,600 minutes per year is calculated as follows: 365 days per year \* 24 hours per day \* 60 minutes per hour. This calculation is used to convert the annual flow rate to standard cubic feet per minute (SCFM) because we are use to thinking in flow rates in SCFM.

This procedure gives realistic estimates. For example from “Table 2 – Estimated Landfill Gas Production Rates for Manatee County Class I Landfill Stage I Landfill Only” for the year 2008 the estimated flow rate is 1915 SCFM. Each month we record the actual LFG flow rate from the Stage I Landfill using two methods. We check the flow rate as measured by the flow meter at the flare station, and we sum the flow measured at each of the well heads. In January 2008 the flow meter at the flare read 1455 SCFM, and the summation of the wells heads totaled 2319 SCFM. We believe the flare flow meter under reports the actual flow of LFG, and the summation of well heads over reports the flow. The average of the two methods is 1887 SCFM. This is close to the 2008 estimate in Table 2 of 1915 SCFM for LFG flow from the Stage I Landfill. Since this procedure for estimating the flow of LFG is validated by closely matching the actual reading, we believe this procedure is accurate for estimating future LFG flows.

e. Section 2, Part O.

- 1) *Please provide calculations that demonstrate that the lateral and header piping will not collapse under the expected loading.*

Response: These calculations were submitted for the renewal of the Stage I Landfill Closure Permit which included the Stage I Landfill gas collection system expansion. The calculations were included in Section 9 of that application. There is no change in the pipe or design. The calculations are still valid.

f. Section 3, Specifications.

- 1) *Please provide specifications for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: This response is the same as the response to Number 2.

- 2) *Section 01015. Please provide a revised specification that includes procedures that will be followed if waste is encountered during excavation of pipelines. Please clarify where geomembrane and geocomposite will be used in this project (1.11.B), or provide revised specifications that delete this reference. Please provide specifications that include protection of groundwater and gas monitoring wells.*

Response: Section 01015 was revised to include procedures that will be followed if waste is encountered during excavations of pipelines. The reference to geomembranes and geocomposites was deleted. Section 1.11

was expanded to include requiring the contractor to provide protection for groundwater and gas monitoring wells when working near these wells. The wells are already protected with bollards.

- 3) *Section 01030. Since this project is not a roadway construction project, please explain why FDOT Standards and Specifications are referenced for suspension of work (Section 1.05). All dewatering liquids removed from inside the slurry wall are considered to be leachate and shall be managed appropriately. Please revise Section 1.09 to specify the required disposal for this water.*

Response: FDOT Standards and Specifications are generally accepted references known and understood by contractors. We deleted the reference. The contractor will be responsible to make the final decision to suspend work due to weather. Section 1.09 was revised to specify disposal of this water in the leachate collection system.

- 4) *Section 02610. Please provide the gradation requirements for this gas well aggregate (Section 2.01.A). Please revise Section 3.01.A. to clarify that the "invert elevation" of the landfill is the elevation of the bottom clay layer that shall not be impacted.*

Response: Section 2.01.A has the gradation for the gas well aggregate. It is graded between 1-inch to 3-inch diameter size. Section 3.01.A was revised to change the word "landfill" to "solid waste."

g. Section 4, Drawings.

- 1) *Please provide construction drawings for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: This response is the same as the response to Number 2.

- 2) *Sheet C-2, General Site Plan. Please provide a revised Sheet C-2 that is consistent with the Site Plan Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).*

Response: Sheet C-2 was revised to show the landfill gas to electricity project and the sludge drier.

- 3) Sheet C-3. Please provide invert elevations for the condensate laterals and header piping.

Response: Sheet C-3 was revised to include the invert elevations for the condensate, laterals and header piping.

- 4) Sheets C-3A and 3B. Please verify the references to section D/C-5, Detail D1/C-5, Detail D/C-5, Detail 1/C-5 and Detail 1/C-6. Please provide revised sheets as appropriate. Please verify the position of the leader line for Detail 1/C-5.

Response: Sheet C-3A and 3B were revised to clarify the section references and leader line.

- 5) Sheet C-4. Please verify the pipe size and type. Section B indicates the pipe is SDR 17, but Specification 02610 does not appear to include SDR 17 piping. Please revise Detail A on this sheet to correctly reference the location of the borehole depth table. Please specify the minimum distance required between the bottom of the landfill (el. +29 ft. NGVD) and the bottom of the boreholes.

Response: Specification 02610 Landfill Gas Well and Wellhead pertains to the landfill gas wells. Section B pertains to the landfill gas collection system lateral pipe. This pipe is covered in Section 15051 High density Polyethylene (HDPE) Pipe and Fittings. The minimum distance required between the bottom of the borehole and El. +29 was added to Detail A.

- 6) Sheet C-5. Please explain the purpose and function of the "U" piping shown in Section B. Please show the piping and valves associated with the sludge dryer part of this project (Detail 2).

Response: The "U" piping shown in Section B has the same purpose and function as the trap in a toilet. It allows condensate to drain into the manhole while preventing the loss of vacuum in the extraction system. It acts as a seal. Condensate is held in the "U" so with vacuum on the system no air will be pulled into the extraction system from the manholes. Condensate can enter the manhole because as condensate drains into the "U" from the landfill side the liquid pressure builds up until the liquid on the manhole side flows into the manhole.

The piping and valves associated with the sludge drier tie-in at the flare were added to Detail 2.

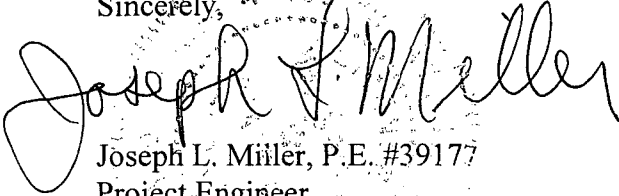
- 7) *Sheet C-6. To ensure that the bottom liner is not adversely impacted by the construction, please specify the bottom of each boring elevation on this table.*

Response: The Table on Sheet C-6 was revised to include the top of landfill elevation at each borehole, the length of the boring and the bottom elevation of the boring.

3. *Notice of Application, Rule 62-701.320(8), F.A.C. Please publish the attached Notice of Application and provide proof of publication to the Department.*

Response: Manatee County will send the proof of publication directly to the Department.

Sincerely,



Joseph L. Miller, P.E. #39177  
Project Engineer

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies

U:\SO\Projects\Manatee County\SW-33 Stage III LFG\Permit Application\Response to RFI 1.doc

**Attachments**

- Application Part O Page 34 of 40
- Section 2 – MSW Magazine article “Landfill Gas Development and Control” by Daniel P. Duffy, March/April 2006.
- Specifications Page 01015-4
- Specifications Page 01030-2
- Specifications Page 01030-3
- Specifications Page 02610-3
- Construction Drawings C-1, C-2, C-3, C-3A, C-3B, C-4, C-5 and C-6.



# Florida Department of Environmental Protection

Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

Mr. Daniel Gray, Director  
Manatee County Utility Operations  
4410 66<sup>th</sup> Street West  
Bradenton, Fl. 34210

March 6, 2008

RE: Lena Road Landfill, Manatee County  
Stage III landfill gas recovery system construction  
Pending Permit No. 39884-016-SC/08

Dear Mr. Gray:

This is to acknowledge receipt of your permit application, dated January 31, 2008 (received February 7, 2008), prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to construct a landfill gas extraction and recovery system for Stage III at the existing Class I landfill referred to as the Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida.

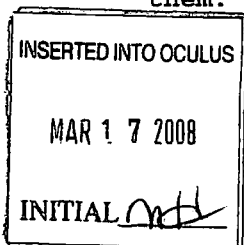
This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes. Your application for a permit modification is incomplete. This is the Department's first request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received. The following information is needed in support of the solid waste application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

## GENERAL:

1. Please submit **4 copies** of all requested information. Please specify if revised information is intended to supplement or replace previously submitted information. Please submit all revised plans and reports as a complete package. For revisions to the narrative reports, deletions may be struckthrough (~~struckthrough~~) and additions may be shaded ~~shaded~~ or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.

2. Please provide a summary of all revisions to drawings, and indicate the revision on each of the applicable plan sheets. Please use a consistent numbering system for drawings. If new sheets must be added to the original plan set, please use the same numbering system with a prefix or suffix to indicate the sheet was an addition, e.g. Sheet 1A, 1B, P1-A, etc.

3. Please be advised that although some comments do not explicitly request additional information, the intent of all comments shall be to request revised calculations, narrative, technical specifications, QA documentation, plan sheets, clarification to the item, and/or other information as appropriate. **Please be reminded that all calculations must be signed and sealed by the registered professional engineer (or geologist as appropriate) who prepared them.**





The following information is needed in support of the solid waste permit application [Chapter 62-701, Florida Administrative Code (F.A.C.)].

1. **Application form, Rule 62-701.320(7), F.A.C.**
  - a. Part O.4. Since a gas recovery system is part of the proposed construction, please provide a revised application form that includes this information.
2. **Landfill Gas Recovery System, Rule 62-701.530(5), F.A.C.**
  - a. Please provide construction plans and design information for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).
  - b. Please provide all information required by Rule 62-701.530, F.A.C., for gas recovery systems.
  - c. Although the Stage III landfill does not have a traditional bottom liner system, the design is based on the slurry wall being keyed into an in-situ clay layer that underlies the landfill. Please provide information that demonstrates that the gas extraction wells will not penetrate or adversely impact the underlying clay layer.
  - d. Tables 1, 2, 3, 4. Please provide sample calculations and supporting references, basis and assumptions used to determine the values presented in these tables.
  - e. Section 2, Part O.
    - 1) Please provide calculations that demonstrate that the lateral and header piping will not collapse under the expected loading.
  - f. Section 3, Specifications.
    - 1) Please provide specifications for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).
    - 2) §01015. Please provide a revised specification that includes procedures that will be followed if waste is encountered during excavation of pipelines. Please clarify where geomembrane and geocomposite will be used in this project (§1.11.B), or provide revised specifications that delete this reference. Please provide specifications that include protection of groundwater and gas monitoring wells.
    - 3) §01030. Since this project is not a roadway construction project, please explain why the FDOT Standards and Specifications are referenced for suspension of work (§1.05). All dewatering liquids removed from inside the slurry wall are considered to be leachate and shall be managed appropriately. Please revise §1.09 to specify the required disposal method for this water.
    - 4) §02610. Please provide the gradation requirement for the gas well aggregate (§2.01.A.). Please revise §3.01.A. to clarify that the "invert elevation" of the landfill is the elevation of the bottom clay layer that shall not be impacted.

(Comment #2, cont'd)

g. Section 4, Drawings.

1) Please provide construction drawings for the gas conditioning system, radiators, gas piping and connections for the sludge drying system and gas engines and building shown on the Site Plan, Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).

2) *Sheet C-2, General Site Plan.* Please provide a revised Sheet C-2 that is consistent with the Site Plan Sheet C-2 submitted as part of the pending operations permit modification request (#39884-015-SO/MM).

3) *Sheet C-3.* Please provide invert elevations for the condensate laterals and header piping.

4) *Sheets C-3A and C-3B.* Please verify the references to Section D/C-5, Detail D1/C-5, Detail D/C-5, Detail 1/C-5 and Detail 1/C-6. Please provide revised sheets as appropriate. Please verify the position of the leader line for Detail 1/C-5.

5) *Sheet C-4.* Please verify the pipe size and type. Section B indicates the pipe is SDR 17, but Specification 02610 does not appear to include SDR 17 piping. Please revise Detail A on this sheet to correctly reference the location of the borehole depth table. Please specify the minimum distance required between the bottom of the landfill (el. +29 ft. NGVD) and the bottom of the boreholes.

6) *Sheet C-5.* Please explain the purpose and function of the "U" piping shown in Section B. Please show the piping and valves associated with the sludge dryer part of this project (Detail 2).

7) *Sheet C-6.* To ensure that the bottom liner is not adversely impacted by the construction, please specify the bottom of each boring elevation on this table.

3. **Notice of Application, Rule 62-701.320(8), F.A.C.** Please publish the attached Notice of Application and provide proof of publication to the Department.

This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the department and may be subject to revision pursuant to additional information and further review.

Please respond **by April 21, 2008**, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than **the date noted above**, you should develop an alternate specific time table for the submission of the requested information for Department review and consideration. Pursuant to the provisions of Rule 62-4.055(1), F.A.C., if the Department does not receive a timely, complete response to this request for information the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

You are requested to submit your responses to this letter together, as one complete package. Please contact me at (813)632-7600 ext. 386 if you have any questions.

Sincerely,



Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District

sjp

attachment

cc: Gus DiFonzo, Manatee County, 4410 66<sup>th</sup> Street West, Bradenton, Fl. 34210, w/attachment  
Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101, w/attachment  
Steve Morgan, FDEP Tampa, SW  
David Zell, FDEP Tampa, Air

62-110.106 (6) Public Notice of Application and Proposed Agency Action  
Publication of a notice of application shall be required for those projects that, because of their size, potential effect on the environment or natural resources, controversial nature, or location, are reasonably expected by the Department to result in a heightened public concern or likelihood of request for administrative proceedings. If required, the notice shall be published by the applicant one time only within fourteen days after a complete application is filed and shall contain the name of the applicant, a brief description of the project and its location, the location of the application file, and the times when it is available for public inspection. The notice shall be prepared by the Department and shall comply with the following format:

State of Florida  
Department of Environmental Protection  
Notice of Application

The Department announces the receipt of applications for permit modification and construction permit from Manatee County Utilities Operations Department, Mr. Daniel Gray, Director for operational modifications and to construct a landfill gas recovery system in Stage III at the existing solid waste class I landfill, referred to as the Manatee County Lena Road Class I Landfill, located at 3333 Lena Road, Bradenton, Manatee County, Florida.

This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 N. Telecom Parkway, Temple Terrace, Fl. 33637-0926.

Memorandum

Florida Department of  
Environmental Protection  
Solid Waste Section

TALLAHASSEE SOLID WASTE PROGRAM  
PERMIT APPLICATION/TECHNICAL SUBMITTAL/DOCUMENT FORWARDING MEMO

TO:	X	Richard Tedder, P.E. Solid Waste Program Administrator
		Lee Martin, P.E., Solid Waste Section, FDEP Tallahassee
		Fred Wick, Solid Waste Section, FDEP Tallahassee
		Jan Rae Clark, Solid Waste Section, FDEP Tallahassee
		Francine Joyal, Solid Waste Section, FDEP Tallahassee
		Chris McGuire, Solid Waste Program Attorney, OGC

DATE: February 18, 2008

The following attached permit application/technical submittal/document(s) are being forwarded from the Southwest District Solid Waste Program to the Tallahassee Solid Waste Program:

These documents WILL BE input into OCULUS by the SWD.

DOCUMENT/SUBMITTAL

DATE

Manatee County Lena Road Landfill, Stage III  
Landfill Gas Collection System Construction  
Permit Application,... prepared by Post, Buckley,  
Shuh & Jernigan

one - January 31, 2008  
3-ring binder (rec'd 02/07/08)

COPY/FYI ONLY

X

FOR YOUR REVIEW

FOR YOUR REVIEW & COMMENT

BY



*An employee-owned company*

January 31, 2008

Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Re: Lena Road Landfill, Manatee County  
GMS ID No.: 4041C02025  
Stage III Landfill Gas Collection System  
Construction Permit Application

Dear Ms Pelz:

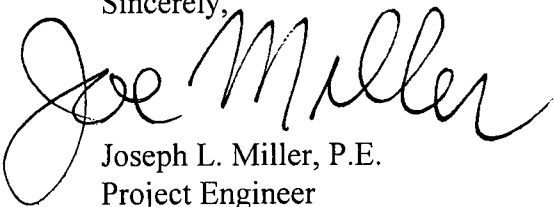
Enclosed please find for the above referenced permit application:

- Check for construction permit application fee in the amount of \$1000.
- Four complete applications with engineering report, specifications and drawings.

The purpose of this application is to obtain a construction permit for the Stage III Landfill gas collection system. This is an expansion of the existing system that serves the Stage I Landfill. The Stage III design is consistent with the design for the Stage I Landfill gas system. The Stage III Landfill gas collection system will be connected to the existing gas collection system, and the gas burned in the flare, or utilized in either the Manatee County sludge drier or the landfill gas to electricity project. Concurrent with this application, we are submitting an application for a minor permit modification to the Lena Road Landfill Operation permit with information on the sludge drier and landfill gas to electricity project. We are also requesting a modification to the landfill operation permit to include operation of the Stage III Landfill gas system.

If you have any questions, please call me at 407-806-4153, or e-mail me at [jlmliller@pbsj.com](mailto:jlmliller@pbsj.com).

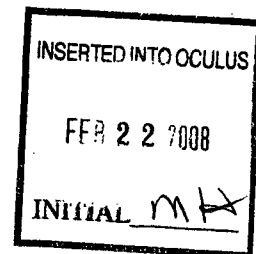
Sincerely,

  
Joseph L. Miller, P.E.  
Project Engineer

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies

U:\SO\Projects\Manatee County\SW-33 Stage III LFG\Permit Application\Susan Pelz Ltr January 31 2008.doc

Dept. of Environmental  
Protection  
FEB 07 2008  
Southwest District



**Manatee County Lena Road Landfill**  
**STAGE III LANDFILL GAS COLLECTION SYSTEM**  
**CONSTRUCTION PERMIT APPLICATION**

**January 31, 2008**

**Table of Contents**

<b>Section 1</b>	<b>Application</b>
<b>Section 2</b>	<b>Engineering Report</b>
<b>Section 3</b>	<b>Specifications</b>
<b>Section 4</b>	<b>Drawings *</b>

- \* The drawings are in two sizes: 11" x 17" for easy reference and 24" x 36" which are signed and sealed, folded and inserted in the clear plastic folder.

FEB 07 2008

SOUTHWEST DISTRICT  
TAMPA

**MANATEE COUNTY  
SOLID WASTE MANAGEMENT FACILITY  
GMS ID No: 4041C02025**

**LENA ROAD LANDFILL  
3333 Lena Road  
Bradenton, FL 34202**

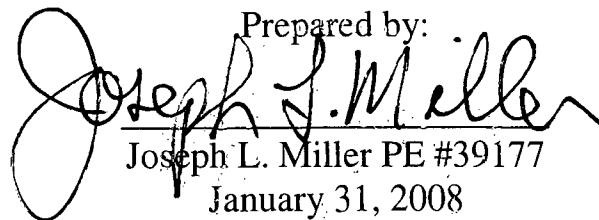
**STAGE III LANDFILL  
GAS COLLECTION SYSTEM  
CONSTRUCTION PERMIT  
APPLICATION**

January 31, 2008

Prepared for:

Manatee County Government  
Utility Operations Department  
Solid Waste Division  
4410 66<sup>th</sup> Street West  
Bradenton, FL 34210

Prepared by:

  
Joseph L. Miller PE #39177  
January 31, 2008

**PBS&J  
482 South Keller Road  
Orlando, Florida 32810**

PBS&J Project Number: 100931.91





*An employee-owned company*

January 31, 2008

Susan J. Pelz, P.E.  
Solid Waste Manager  
Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Dept. of Environmental  
Protection  
FEB 07 2008  
Southwest District

Re: Lena Road Landfill, Manatee County  
GMS ID No.: 4041C02025  
Stage III Landfill Gas Collection System  
Construction Permit Application

Dear Ms Pelz:

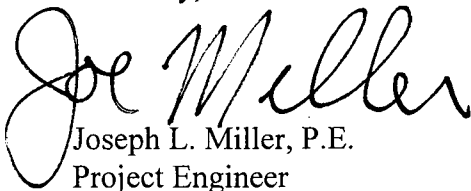
Enclosed please find for the above referenced permit application:

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- Four complete applications with engineering report, specifications and drawings.

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If you have any questions, please call me at 407-806-4153, or e-mail me at [jlmler@pbsj.com](mailto:jlmler@pbsj.com).

Sincerely,

  
Joseph L. Miller, P.E.  
Project Engineer

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies

U:\SO\Projects\Manatee County\SW-33 Stage III LFG\Permit Application\Susan Pelz Ltr January 31 2008.doc

**Manatee County Lena Road Landfill**  
**STAGE III LANDFILL GAS COLLECTION SYSTEM**  
**CONSTRUCTION PERMIT APPLICATION**

**January 31, 2008**

**Table of Contents**

<b>Section 1</b>	<b>Application</b>
<b>Section 2</b>	<b>Engineering Report</b>
<b>Section 3</b>	<b>Specifications</b>
<b>Section 4</b>	<b>Drawings *</b>

- \* The drawings are in two sizes: 11" x 17" for easy reference and 24" x 36" which are signed and sealed, folded and inserted in the clear plastic folder.

**Southwest District  
Permitting Application**

New Site

Site Name:		
Site ID:		
County:		
Type/Subcode:		
Fee submitted:	( ) correct	( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Existing Site

39884-016

Site ID:	Modification	Renewal	New
<del>126654-0004</del>			
Project Name:	Lena Rd Stage III gas system		
Type/Subcode:	SC 08		
Fee submitted:	\$1000	<input checked="" type="checkbox"/> correct	( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____			

Applicant Information

Name:	DAN GRAY		
Role:	Applicant		
Company:	Mann tee County		
Address:	ON file		
City:		Zip Code:	
Phone:			

Fee verified by: PELTZ

Application Assigned To: PELTZ Date: 2/8/08



5300 West Cypress St., Suite 200  
Tampa, Florida 33607

An employee-owned company

Bank of America, N.A.  
Atlanta, Georgia  
64-1278/611

1075511

CHECK DATE

January 24, 2008

PAY One Thousand Dollars And 00 Cents\*\*\*\*\*

AMOUNT \$1,000.00

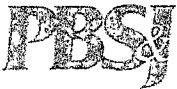
TO FDEP (Florida Dept. of Env Protection)  
2600 Blairstone Rd  
Tallahassee, FL 32399-2400  
United States

PBS

OPERATIONAL ACCOUNT

*Dolly Van*  
AUTHORIZED SIGNATURE

VOID AFTER 90 DAYS



5300 West Cypress St., Suite 200 Tampa, Florida 33607

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

1075511

Invoice #	Date	Description	Discounts	Net Amount
Fee for St	01/16/08	0007 Fee for stage III landfill	0.00	1,000.00

Dept. of Environmental  
Protection

FEB 07 2008

Southwest District

2/7/08  
50

39884

Permitting Application - Permit Detail and Log Permit									
SITE Permit									
Site Name					MANATEE CO. LENA RD. WTPF (WTPF)				
County					MANATEE				
Comments					N				
RPAs					N				
# Cases					0				
Project									
Permit #		-		-		Project #		001	
Received		02/07/2008		CRA #		308419			
Permit Office					SWD (DISTRICT)				
Agency Action					Pending				
Project Name					LENA ROAD STAGE III GAS SYSTEM				
Desc									
Type/Sub/Des					SC / 08 OTHER				
COE #									
OGC									
Logged		02/11/2008		Issued		Expires		Application Action	
NEW									
Fee		1000.00		Fee Recd		1000.00		Delete	
Override		NONE							
Related Party									
Role		APPLICANT			Begin		02/11/2008		End
Name		GRAY, DANIEL T			Company		MANATEE COUNTY GOVERNMENT, UTILITY OPERATIO		
Address		4410 66TH STREET WEST							
City		BRADENTON			State		FL		Zip
34210									Country
USA									
Phone		941-792-8811			Fax		Email		
Processors									
Processor		PELZ_S			Y		Active		02/11/2008
Inactive									
Events									

**Pelz, Susan**

---

**From:** Pelz, Susan  
**Sent:** Saturday, January 12, 2008 10:02 AM  
**To:** Miller, Joseph L  
**Cc:** gus.difonzo@mymanatee.org; mike.gore@mymanatee.org; Morgan, Steve; Evans, Roger; Zell, David  
**Subject:** RE: Lena Road Landfill - Stage III Landfill Gas System

Joe,

My answers are below.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, FL 33637  
813-632-7600 x 386  
susan.pelz@dep.state.fl.us

---

**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Thursday, January 10, 2008 11:01 AM  
**To:** Pelz, Susan  
**Cc:** gus.difonzo@mymanatee.org; mike.gore@mymanatee.org; Morgan, Steve; Evans, Roger  
**Subject:** RE: Lena Road Landfill - Stage III Landfill Gas System

Susan,

Thanks for the clarification.

OK, we will submit a permit application for construction of the Stage III Landfill gas system with a \$1000 fee, and then submit a minor permit modification to the landfill operation permit with a \$250 fee for operation of the system.

Do we have to wait until the construction is complete to submit the operation permit application? No – you can submit the op mod at the same time & the process timing will run concurrently.

We can not complete construction until the system is connected to the flare and the wells and header are under vacuum. In the construction permit could we please get 90 days for temporary operation and testing of the system? If the op mod is submitted as same time as construction permit, there won't be any problem with this.

The flare and blower were designed and permitted for Stage I and III landfills with a maximum flow of 3000 SCFM. So the Title V Air Permit already covers the Stage III landfill system. At this time we are planning to construct about 20 wells, laterals and the header for the first phase, and expand the system as the cell is filled. According to the fill sequence plan, the Stage III landfill is filled in November 2013. I assume the construction permit will be good for 5 years [yes] and it will have to be renewed before we can complete the gas system in 2014 [yes- renewed or replaced by a closure permit that includes the gas system construction].

In the mean time, if Manatee County plans to add more wells as the cell is filled, do you prefer that we submit a minor permit modification to the construction permit for the additional wells or can we permit the Stage III gas system and add wells as we need them without submitting minor permit modifications? The construction application should include all parts that will be constructed within the 5 year period, with an anticipated schedule. The certifications can be phased if the construction will be done in phases.

We could send notifications prior to constructing the expansions and submit certification of the system expansions after construction. OK

Thanks for your help with this.

Joe

---

**From:** Pelz, Susan [mailto:Susan.Pelz@dep.state.fl.us]  
**Sent:** Thursday, January 10, 2008 8:43 AM  
**To:** Miller, Joseph L  
**Cc:** gus.difonzo@mymanatee.org; mike.gore@mymanatee.org; Morgan, Steve; Evans, Roger  
**Subject:** RE: Lena Road Landfill - Stage III Landfill Gas System

Joe,

We have just had two other projects that are similar. For those, the permit was a solid waste construction "other" that authorized the construction of the gas system (fee is \$1000), and then a minor modification of the operation permit (fee is \$250) will be required to authorize operation after the system is built. Lena Road has a slightly different scenario since they have an existing closure permit (the other two sites don't). I don't recall if the current closure permit includes Stage III. If it does, we could do an intermediate modification of the closure permit (fee is \$3750) which would include construction and operation of the system. If the closure permit doesn't include Stage III, I think we should proceed as we have with the others – a solid waste construction "other" (\$1000) with a minor modification (\$250) of the current operation permit. The form is the same 62-701.900(1) in either case but different boxes would be checked.

If Stage III is not included in the current closure permit, a separate closure permit application (that includes Stage I and III) could be submitted (\$7500 fee) & replace the existing closure permit. The replacement closure permit would be valid for 5 years from date of issuance.

Hope this answered your question.

If you have any questions, please call or email (email is better).

Susan J. Pelz, P.E.  
Solid Waste Program Manager  
Southwest District

13051 N. Telecom Parkway  
Temple Terrace, Fl. 33637  
813-632-7600 x 386  
susan.pelz@dep.state.fl.us

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Michael W. Sole is committed to continuously assessing and improving the level and quality of services provided to you. Please take a few minutes to comment on the quality of service you received. Simply click on [this link to the DEP Customer Survey](#). Thank you in advance for completing the survey.*

---

**From:** Miller, Joseph L [mailto:JLMiller@pbsj.com]  
**Sent:** Monday, January 07, 2008 5:13 PM  
**To:** Pelz, Susan  
**Subject:** Lena Road Landfill - Stage III Landfill Gas System

Susan,

Happy New Year!

I need some more advice on submitting a permit application for Manatee County to construct the landfill gas collection system for the Stage III Landfill. The flare is already in-place. We are going to construct the first phase by adding wells along the first perimeter and a header, and connect the wells to the existing system.

On the permit application for: "2. Type of application" I presume this is a "Construction/Operation" permit. And for: "3. Classification of application", I presume this is an "intermediate modification" to the existing Operation Permit, or would it be a modification of the existing Class I Landfill Closure permit. Or would this be a new permit for just the Stage III landfill gas system? Could you please advise me, and also advise me as to what the permit fee would be.

Thanks,

Joe Miller  
PBS&J



**Recipien.**

Miller, Joseph L

[gus.difonzo@mymanatee.org](mailto:gus.difonzo@mymanatee.org)

[mike.gore@mymanatee.org](mailto:mike.gore@mymanatee.org)

Morgan, Steve

Evans, Roger

Zell, David

**Read**

Read: 1/14/2008 6:55 AM

Read: 1/14/2008 6:17 AM

Lena Rd  
closure permit

**Pelz, Susan**

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**From:** Pelz, Susan  
**Sent:** Friday, February 01, 2008 11:46 AM  
**To:** Pelz, Susan  
**Subject:** FW: News Articles - January 30, 2008

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**From:** Lynch, Sandra  
**Sent:** Wednesday, January 30, 2008 6:06 PM  
**To:** Brown, Brian; Cowder, Shirley; Culbreth, Laurel; Downs, Mike; Dregne, James; Gagne, Albert; Getzoff, Deborah; Gibbs, Ana; Greenwell, Jeff; Kovach, Charles; Kutash, William; Morgan, Steve; Nasca, Mara; Pelz, Susan; Ramer, Jim; Thompson, Steve; Tyner, Nell; Vazquez, Pamala; Vorstadt, Bill; Zamani, Sam  
**Subject:** News Articles - January 30, 2008

<hr size=2 width="100%" align=center>

## **BRADENTON HERALD**

**Bradenton.com**

alt=bradenton.com>[Back to web version](#)

Posted on Wed, Jan. 30, 2008

### **Landfill gas conversion plant approved**

By CARL MARIO NUDI  
[cnudi@bradenton.com](mailto:cnudi@bradenton.com)

In the near future there will be fewer greenhouse gases emitted from the Lena Road Landfill with the approval of a contract Tuesday between Florida Power & Light and Manatee Green Power LLC.

The Florida Public Service Commission announced Tuesday it approved the contract to allow Manatee Green Power to sell electricity it produces from methane gas to FPL.

Manatee County commissioners approved a plan last January for Manatee Green Power to purchase the gas emitted from the buried garbage, convert it into electricity and sell it to FPL.

The conversion plant, operated by Siemens Building Technologies and Bostonia Partners, will be built near the landfill.

County Commissioner Joe McClash said the operation will be a benefit to the environment, as well as the county.

"A lot of people don't know how advanced Manatee County is in waste-management technologies," he said. "Methane is one of the most damaging gases to the atmosphere."

He said the plant also will be used to dry the sludge produced at the county's wastewater treatment plants.

The sludge used to be spread on agricultural lands, but that is prohibited with new environmental regulations in force.

Also, with the plant situated next to the landfill, it will be a source for backup electricity.

The Manatee Green Power plant is expected to create revenue of \$556,900 per year over 20 years for the county.

The methane created by the decaying garbage is now burned off as a waste product.

Last year, Clark Wiedetz, general manager for the alternative-energy division of Siemens, said not only does the county accrue carbon credits, but instead of the gas being burned off, it is converted into a clean alternative energy.

According to PSC officials, the Manatee Green Power plant will have the capacity to deliver 5.25 megawatts of electricity beginning in January 2009. That will serve around 1,837 homes, based on summer peak demand and average use.

The contract with FPL runs through Jan. 1, 2024.

Gov. Charlie Crist has been promoting renewable energy to help the state reduce greenhouse gases.

"This is something the governor supports," said Todd Brown, spokesman for the PSC. "He's pushing renewable energy and looking outside the box."

"We anticipate seeing more operations such as these," Brown said.

An FPL representative agreed.

"This kind of operation displaces oil and natural gas and helps us diversify our fuel sources," Mayco Villafana wrote in an e-mail. "We continue to look for other opportunities such as this one to increase the amount of renewables that we are using to produce electricity."

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Thank you,

Sandra Lynch

**Pelz, Susan**

*Leah Rd  
peron. F  
close*

**From:** gus.difonzo@co.manatee.fl.us  
**Sent:** Thursday, January 04, 2007 2:40 PM  
**To:** Pelz, Susan  
**Subject:** Status / FYI / Landfill Gas Utilization

Susan,

Happy New Year. I hope you had a good holiday.

On Tuesday, 1/9, County Staff will request the Manatee County Board Of County Commissioners to execute an agreement for licensing use of landfill gas for generating electric power with Manatee Green Power. I wanted to make sure you are in the loop. I have not said much to date about the project, because until such time it is presented to the Board, and they approve, or deny, it is not official, and speculative at best. Upon a favorable response from the Board, it would then be anticipated that all parties will be having communication with your office, as well as the AIR side of DEP.

Thank you.

Gus.

1/8/2007

*Leonard  
Close permit***Pelz, Susan**

**From:** Pelz, Susan  
**Sent:** Thursday, January 11, 2007 7:03 AM  
**To:** Pelz, Susan  
**Subject:** FW: News Articles - January 10, 2007

---

**From:** Lynch, Sandra  
**Sent:** Wednesday, January 10, 2007 4:09 PM  
**To:** Cowder, Shirley; Culbreth, Laurel; Dregne, James; Farley, Mike; Getzoff, Deborah; Gibbs, Ana; Greenwell, Jeff; Kovach, Charles; Kutash, William; McKiernan, Cece; Morgan, Steve; Nasca, Mara; Pelz, Susan; Ramer, Jim; Tyner, Nell; Vazquez, Pamala; Vorstadt, Bill  
**Subject:** News Articles - January 10, 2007

FYI

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Posted on Wed, Jan. 10, 2007

## County OKs plan to sell landfill fumes

CARL MARIO NUDI and NICHOLAS AZZARA  
Herald Staff Writers

**MANATEE** - Manatee County on Tuesday approved a plan to sell the noxious fumes emanating from one of its landfill sites.

The agreement will allow Manatee Green Power LLC, a jointly operated company of Siemens Building Technologies and Bostonia Partners, to purchase the gas emitted from the buried garbage in the Lena Road Landfill in East Manatee.

Green Power will then convert that gas into electricity, which it plans on selling to Florida Power and Light.

"I'm all for this," said Manatee County Commissioner Jane von Hahmann. "Manatee County seems to be the one to step out first. The idea of making a waste product that allows for air quality protection is fantastic."

The deal will create revenue of \$556,900 per year over 20 years for the county.

The decaying waste in the landfill creates methane gas and currently is being burned off as a waste product.

1/11/2007

"The economics for a project like this are outstanding," said Clark Wiedetz, general manager for the alternative energy division of Siemens.

Wiedetz said, not only does the county accrue carbon credits, but instead of flaring the gas, it is converted into a clean, alternative energy.

The Siemens executive said he is familiar with two landfills in Illinois that are using this process, Northbrook and Normal, and there are 150 applications of using methane gas to produce electricity in the United States.

For some local environmentalists, the move to create a use for the gas makes sense.

"It's wasted energy right now," said Glenn Compton, chairman of the local environmental group, ManaSota-88, "and burning it could have an effect on the local climate."

Compton said what Green Power is proposing is technology ManaSota-88 could support.

"Hopefully, other counties are watching and can benefit from Manatee County's experience," he said.

The only concern Compton has is whether Manatee County is getting paid enough for the resource.

"Are Manatee County taxpayers getting a fair price for what the gas is worth," he said, "and not just subsidizing an industry?"

Mary Sheppard, a member of the Manatee County Sierra Club, said she liked the idea of turning a waste product into something useful.

"That's what we have to do with by-products of industry," said Sheppard, a lifelong county resident.

Commissioners roundly approved the deal with a unanimous vote at Tuesday's meeting.

This is tremendous for the environment. I hope we put this in for some environmental awards," said Commissioner Ron Getman.

Commissioner Donna Hayes called it "a win-win situation."

"We're saving taxpayer money and I support the motion wholeheartedly," Hayes said.

Nicholas Azzara, county government reporter, can be reached at [nazzara@HeraldToday.com](mailto:nazzara@HeraldToday.com) and 745-7081.