

Pelz, Susan

From: Pelz, Susan
Sent: Friday, December 12, 2008 11:29 AM
To: 'gus.difonzo@mymanatee.org'
Cc: mike.gore@mymanatee.org; 'Miller, Joseph L'
Subject: FW: FYI - Lena Road Class I LF State III Excavation Modification Permit #39884-017-SO/MM dated and mailed 12-5-2008
Attachments: LenaRd-State III Excavation-Mod.Permit-no pub. #39884-017-SO-MM dated & mailed 12-05-08.pdf

Gus,

Please find attached the excavation modification that was issued on December 5, 2008. Hard copy was mailed to Dan Gray only.

Hope you have a good holiday.

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: Brantley, Anna
Sent: Monday, December 08, 2008 8:58 AM
To: Moore, Ronni; Wick, Fred; Hornbrook, Frank; Tedder, Richard; Ed Hunzeker - County Adm.; Representative Bill Galvano; Representative Darryl Rouson; Representative Keith Fitzgerald; Representative Ron Reagan; Senator Arthenia Joyner; Senator Michael Bennett; Senator Nancy Detert
Cc: Pelz, Susan
Subject: FYI - Lena Road Class I LF State III Excavation Modification Permit #39884-017-SO/MM dated and mailed 12-5-2008

Anna Brantley
Administrative Assistant II
SWD/Waste Management
13051 North Telecom Parkway
Temple Terrace, FL 33617-0926
Tel: 813-632-7600, ext. 377
Fax: 813-632-7664

Brantley, Anna

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Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

FROM/THROUGH: William Kutash

Susan Pelz, P.E.

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

DATE: December 3, 2008

Mod #39884-017-SO/MM

FILE NAME: Manatee County Lena Road LF

PERMIT #: 39884-010-SO/01

PROGRAM : Solid Waste

COUNTY : Manatee

TYPE OF PERMIT ACTION: x ISSUE

x MODIFY

PUBLIC NOTICE PERIOD CLOSED? N/A

PETITION FILED? N/A

PERMIT SUMMARY: This permit modification allows a revised sequence of excavation. The facility is the existing Lena Road Class I landfill. This modification was submitted as required by Specific Condition #B.1.b.

Specific conditions were also revised to reflect changes in water quality monitoring reporting to be consistent with proposed revisions to Chapter 62-701, F.A.C.

PROFESSIONAL RECOMMENDATION: x APPROVE DENY

EVALUATION SUMMARY: The applicant has provided the required information to demonstrate compliance with Department rules.

To 12/03/08, TIH=105	TTP=89		TTP
Application received		08/20/08	
RAI #1 sent		09/18/08	30
Response received		10/06/08	
Application complete		10/06/08	
Final permit for routing		12/03/08	59

DAY 90/30 FOR THIS ACTION IS: Day 90=01/03/09

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

PS Form 3800, August 2006

See Reverse for Instructions



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 66th Street West
Bradenton, FL 34210

PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795
Permit No: 39884-010-SO/01
Date of Issue: **06/13/2005**
Expiration Date: **06/13/2010**
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
Landfill

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 on file with the Department and made a part hereof and specifically described as follows:

To operate, monitor and maintain a landfill and related facilities (approximately 316 acres), referred to as the Lena Road Class I Landfill, subject to the specific and general conditions attached, for disposal of solid waste, located 3333 Lena Road, Bradenton, Manatee County, Florida. The specific conditions attached are for the operation, monitoring and maintenance of:

1. Lena Road Class I Landfill Facility and related appurtenances

Replaces Permit No.: 39884-001-SO (as modified)

Includes modification #s: 39884-012-SO/MM, issued 10/11/05
39884-013-SO/MM, issued 07/10/06
39884-014-SO/MM, issued 10/10/2007
39884-015-SO/MM, issued 09/15/2008
39884-017-SO/MM, issued 12/05/2008

General Information:	
Disposal acres	316 acres
Bottom liner design	Natural Soils (approx. el. +29 ft. NGVD-see Sheet C-3, ref. SC#A.2.a(10)) w/perimeter slurry wall
LCS design	Underdrains and lift stations, slurry wall keyed into the underlying natural clay unit
LDS design	none
Final elevation	+136 feet NGVD [ref. SC#A.2.a(2)]
Slopes	5H:1V, top slope 1%, intermediate cover 2%

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:

GENERAL CONDITIONS:

(General Condition #7, cont'd)

- (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.

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.

GENERAL CONDITIONS:

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

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. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation, monitoring and maintenance of the Class I landfill and related systems (including but not limited to: household hazardous waste collection and storage facility, community drop off center, yard waste processing area, gas management system, stormwater/leachate management system, scrap metal and white goods management, etc.) in accordance with Department rules and the reports, plans and other information prepared by PBS&J (unless otherwise specified) as follows:
Amended 09/15/2008.

a. Application and Engineering Report for Renewal of Landfill Operation Permit for Lena Road Landfill, (3-hole punched bound documents) dated April 30, 2004 (received May 14, 2004), as revised, replaced or amended (information inserted into original) dated September 9, 2004, October 6, 2004, December 14, 2004, February 7, 2005 and March 17, 2005 (received September 10, 2004, October 7, 2004, December 15, 2004, February 16, 2005 and March 18, 2005). This information includes, but is not limited to:

- 1) Lena Road Landfill Operations Plan, Part L (replaced by Operation Plan listed in SC#A.2.f(1), below)
Amended 09/15/2008.
- 2) Geotechnical Investigation Requirements, Part J;
- 3) Household Hazardous Waste Collection and Storage Facility Operation Plan, Attachment L-2;
- 4) Water Quality and Leachate Monitoring Requirements, Part M;
- 5) Gas Management System Requirements, Part O;
- 6) Landfill Closure Requirements, Part P;
- 7) Long Term Care Requirements, Part R;
- 8) Financial Responsibility Requirements, Part S;
- 9) Lena Road Landfill Leachate Collection System High Pressure Water Jetting and Video Pipeline Inspection, Appendix A.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2.a., cont'd)

10) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2014, dated September 2004 (received October 7, 2004)
(replaced by drawings in SC#A.2.e(1) and SC #A.2.f(2), below);
Amended 07/10/2006, 09/15/2008.

b. Response to DEP's First Request for Additional Information (permit file) dated September 9, 2004 and October 6, 2004 (received September 10, 2004 and October 7, 2004);

c. Response to DEP's Second Request for Additional Information (permit file) dated December 14, 2004 and February 7, 2005 (received December 15, 2004 and February 7, 2005);

d. Information regarding leachate collection system modifications, prepared by PBSJ (unless otherwise noted) received June 22, 2005, August 15, 2005, September 20, 2005 (except plans, collated into spiral bound documents) including:

- 1) Application form and transmittal letter received June 22, 2005;
- 2) Progress Report Slurry Wall Construction, Lena Road Landfill, August 19, 1989 through September 22, 1989, prepared by Ardaman & Associates, received June 22, 2005;
- 3) Construction Quality Assurance Plan, revised August 12, 2005 (received August 15, 2005);
- 4) Manatee County Lena Road Landfill Pending Permit No. 39884-012-SO/MM Stage III Landfill Leachate Collection System Modification, August 5, 2005, Calculations,...
(including revised calculations received September 20, 2005) received August 15, 2005; and
- 5) Construction plans for Lena Road Landfill Stormwater System Improvements, September 2005 (22 sheets), received September 20, 2005.

New 10/11/05.

e. Information regarding sequence of filling changes prepared by PBSJ dated February 2, 2006 (received February 8, 2006) and April 18, 2006 (received April 19, 2006), including:

- 1) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006
(received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(10), above and are inserted into that document);

New 07/10/2006; Amended 09/15/2008.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2., cont'd)

f. Information (3-ring binder) regarding sequence of filling changes, updated Operations Plan and drawings for the Landfill Gas Engine Building prepared by PBS&J dated January 31, 2008 (received February 7, 2008), February 13, 2008 (received February 14, 2008), April 16, 2008 (received April 23, 2008) and June 17, 2008 (received June 20, 2008), including:

- 1) Operations Plan (this plan replaces Operation Plan listed in SC #A.2.a(1) and is inserted into that document),
- 2) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006 (received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(10) and SC #A.2.e., above, and are inserted into SC#A.2.a.);

New 09/15/2008.

g. Information regarding sequence of excavation and filling changes, prepared by PBS&J dated August 19, 2008 (received August 20, 2008), and September 29, 2008 (received October 6, 2008) (3-ring binder, except as noted), including:

- 1) revised (full-size) drawings as follow (these drawings supplement the drawings listed in SC#A.2.a(10) and SC #A.2.e., above, and are inserted into SC#A.2.a.):
 - a) Sheet 1 of 3 (Sheet C-7B), *Stage III and I Landfill Excavation Plan* (received October 6, 2008),
 - b) Sheet 2 of 3, *Stage III and I Excavation Sections* (received October 6, 2008), and
 - c) Sheet 3 of 3, *Stage III and I Excavation Sections* (received August 20, 2008).
- 2) Geotechnical and Hydrogeological Investigation,... dated March 3, 1983, prepared by Briley, Wild & Associates,
- 3) Compilation of Hydrogeological and Groundwater Data for Lena Road Landfill Stage III Area,... dated August 29, 1985, prepared by Ardaman & Associates,
- 4) Geotechnical Related Responses to Contractor Questions,... dated May 30, 1985, prepared by Ardaman & Associates,
- 5) Progress Report Slurry Wall Construction,... dated October 10, 1989, prepared by Ardaman & Associates,

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition A.2.g., cont'd)

6) Plan set (full size) titled, Manatee County, Florida
Lena Road Landfill Improvements Stage 2 & 3,... (14 sheets)
dated 1988

New 12/05/2008.

3. Permit Modifications.

a. 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.

b. Any significant changes to the operations 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.

c. Excavation plans for the proposed remaining portion of Stage III are included on Sheet C-3 of the Fill Sequence Plans [ref. SC#A.2.a(10) as revised], and Sheets 1, 2 and 3 of 3 [ref. SC#A.2.g.]. However, operation in this area shall not be initiated until the certification of construction completion requirements of Specific Condition #B.2 have been completed and approved by the Department.

Amended 07/10/2006, 09/15/2008, 12/05/2008.

4. Permit Renewal. No later than **November 11, 2009**, 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), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts.

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.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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.

9. **Prohibitions.**

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

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.10.b, below. 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 for incidents within or immediately adjacent to the slurry wall, a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Waste Burning. 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.10.b., below.

d. ~~Figure G 1 [ref. SC#A.2.a, Section G] indicates that portions of the western and southwestern part of Stage III are within areas subject to potential flooding. Pursuant to Rule 62-701.340(4)(a), F.A.C., a landfill shall not be located in the 100 year floodplain where it will reduce temporary water storage capacity of the floodplain unless compensating storage is provided. Therefore, disposal operations shall not be conducted in these areas unless documentation from the water management district (SWFWMD) or the Department's ERP Section indicates that compensating storage for the 100 year flood has been provided.~~
Deleted 10/11/05 [this condition satisfied per SWFWMD permit].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit **does not** authorize the construction of the final cover system for any portion of the landfill. Construction of the final cover and related systems shall require a separate permit or major modification of this permit in accordance with Specific Condition #A.3 above.

b. Stage III.

1) This permit authorizes construction (excavation) of the bottom of Stage III disposal area as shown on Sheet C-3 of the Fill Sequence Plans [ref. SC#A.2.a(10)], and Sheets 1, 2 and 3 of 3 [ref. SC#A.2.g.].

Amended 12/05/2008.

2) **At least sixty (60) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a sufficient number of boring logs with supporting calculations to confirm the elevation of the bottom clay layer and demonstrate that the clay layer will not be adversely affected by hydrostatic uplift. The calculations shall demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer. In the event that the excavation activities reveal unexpected subsurface conditions (e.g., the absence of clay, the presence of sandy soils, etc.) additional borings with supporting calculations to demonstrate that the clay layer is adequately impervious and will not be adversely affected by hydrostatic uplift may be required.

3) **At least thirty (30) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a request for modification that includes scaled drawings showing the phased construction of the remaining portions of Stage III and the expected schedule for completion of each phase.
New 10/11/05.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1., cont'd)

c. Leachate collection system modification.

- 1) Leachate collection 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., the CQA Plan [ref. SC#A.2.d(3)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during leachate collection system construction (including manholes) to monitor construction activities. The leachate collection system modifications shall be constructed in accordance with the information listed in Specific Condition #A.2.d.
- 2) This permit **does not authorize** the installation, repair, or replacement of geosynthetic liner material.
- 3) In the event that the slurry wall or the anchored edge of the closure liner in Stage I is impacted during construction, the Department shall be notified and corrective actions shall be detailed in accordance with Specific Condition #C.10.b. of this permit.
- 4) 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. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.
- 5) Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.
- 6) 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 onsite 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.1 and #B.2.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

7) Construction activities such as QA/QC testing of the geosynthetics or soil materials, surveying, 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.

8) 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. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

9) The permeability of the clean granular material shall be at least 1×10^{-3} cm/sec. The frequency of testing shall be in accordance with Table 02220-A for "clean common fill." A minimum of three gradation tests on the "clean granular backfill" shall be conducted [ref. §4.2, CQAP].

10) In the event that the slurry wall is impacted by the construction activities, it shall be repaired in accordance with the Specifications and CQA Plan, Section 3.

11) The soils testing laboratory shall be independent of the contractor [see §02220-1.03.A].

12) Soils and other materials excavated from inside the slurry wall shall not be stockpiled or stored outside the slurry wall, or in areas that drain outside the slurry wall [see §02220-2.01.A.2., ref. §02220-3.02.A.8.].

13) Water generated from dewatering activities within the slurry are considered to be leachate and shall be managed appropriately [ref. §02220-3.01.B.1 & 3, §02220-3.03.B.].

New 10/11/05.

SPECIFIC CONDITIONS: PART B - Construction Requirements

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. At the completion of construction, information listed below shall be provided to the Department as part of the Certification of Construction Completion.

a. **Within sixty (60) days** after any specified construction (e.g., excavation of the remaining portion of Stage III) has been completed, the following activities shall be completed and submitted by the permittee. This information shall be approved by the Department prior to operation in this area:

- 1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer responsible for the construction 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 and the cause of the deviations, and certification by the design engineer to the Department.
- 4) The engineer of record shall provide a report to verify conformance with the project specifications. The report including all related testing results shall be submitted to the Department along with the completion of construction documents.
- 5) In the event that the slurry wall was impacted by the construction activities, documentation demonstrating that the integrity of the slurry wall was not adversely affected shall be submitted with the Certification of Construction Completion.

b. The as-built cell floor elevations shall correlate with the calculations required by Specific Condition #B.1.c. and demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer at the as-built elevation.

SPECIFIC CONDITIONS: PART B - Construction Requirements

3. Record Drawings/Documents.

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

- 1) Location of all anchor trenches (if appropriate);
- 2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts at the manholes) and ditch elevations;
- 3) Daily construction reports (CQA and/or general contractor);
- 6) Copies of photographs documenting all stages of the construction project;
- 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken.

New 10/11/05.

b. The as-built survey of the leachate collection system piping invert elevations shall demonstrate that the pipes were constructed at $\pm 5\%$ of the design slope.

New 10/11/05.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Fill Sequence Plans [ref.SC#A.2.a(10) as revised] and the Operations Plan [ref.SC#A.2.a(1)], and any other applicable requirements. This permit authorizes disposal operations in **Stage III and western portion of Stage I only (i.e. Sequences 3-6)**.

Amended 10/11/05, 07/10/2006, 09/15/2008.

b. Waste shall not be disposed (unloaded, spread, or compacted) during non-daylight hours, unless sufficient lighting is provided to adequately assess the materials and remove unacceptable wastes.

c. Sufficient personnel and equipment shall be utilized to adequately operate the facility.

d. Ponded Water/Leachate. All surface water at Lena Road Landfill within the area surrounded by the slurry wall is considered as "stormwater/leachate." In the event of stormwater control problems which allow prolonged (greater than 72 hours) contact of ponded water with waste, the disposal of waste in the affected area shall cease until the leachate has been collected and appropriate drainage has been restored.

e. In the event of equipment breakdown or scheduled maintenance of essential equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence. In the event that sufficient reserve equipment is not obtained **within 24 hours**, the permittee shall notify the Department in accordance with Specific Condition #C.10.b., below and provide a schedule for corrective actions.

f. Unauthorized Wastes. A sufficient number of spotters and operators shall be utilized at the facility for removing unacceptable wastes (such as liquids, biomedical waste, hazardous and unknown wastes, etc.) from the working face. At a minimum, spotting shall occur at the working face from the ground (while off of the equipment) while waste is being disposed.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

g. Special Wastes. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operation Plan [ref.SC#A.2.a(1)] and with Rules 62-701.300(8) and 62-701.520, F.A.C., and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented.

1) Wastes which may include residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored and managed such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters.

2) Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in the Operations Plan. These wastes shall be removed from the site for proper recycling or disposal at the frequency described in the Operation Plan and this permit, unless another frequency for removal is approved in writing by the Department.

3) Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(4), F.A.C., the Operation Plan [ref. SC#A.2.a(1)], and all other applicable federal and Department rules. The location of asbestos disposal shall be recorded in accordance with 40 CFR Part 61.154.

4) Contaminated Soil. Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results demonstrate that the material is not hazardous and that the material has been adequately dewatered prior to delivery so that the material passes the paint filter test.

5) White Goods and other scrap metal. White goods and lawnmowers which may contain liquids (such as oil or gasoline), chlorofluorocarbons (CFCs such as freon), or other gases shall be stored and managed in a manner such that the liquids are contained, and CFCs or other gases are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed and lawn mowers which have had liquids removed shall be clearly marked. White goods shall be removed at least **semi-annually (every 6 months)**.

6) Yard Trash. Yard trash (including clean wood) shall be managed according to Rule 62-709.320, F.A.C., and as described in the Operation Plan [ref.SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.g., cont'd)

7) *Waste Tires.* Waste tires may be stored at the Citizen Drop-off Facility, designated waste tire container near the working face or the waste tire processing facility. The waste tire containers shall be emptied when full.

h. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Household Hazardous Waste Collection and Storage Facility (HHWCSF) Operation Plan [ref. SC#A.2.a(3)], and stored at the HHWCSF.

1) HHW shall be identified, and then segregated for storage within the containment area of the HHWCSF by the end of each collection day. Waste received at the HHWCSF shall be stored within containment areas at all times.

2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.

3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.

4) Incompatible materials shall not be stored in the same area and shall not be bulked together.

5) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.

6) Miscellaneous household hazardous wastes (such as paint, fluorescent light bulbs, chemicals, etc.) shall be managed as described in the HHWCSF Operation Plan [ref. SC#A.2.a(3)].

7) *Lead acid batteries.* Lead acid batteries are accepted at HHWCSF. Any incidental lead acid batteries that are discovered in waste delivered to the site shall be stored in a manner which prevents the discharge of contaminants to the environment. Lead acid batteries shall be removed for appropriate disposal or recycling when a maximum quantity of 300 batteries is stored on-site. [ref. Op. Plan, page L-8] Amended 09/15/2008.

8) *Used oil.* Used oil is accepted at the HHWCSF. Any used oil that is accepted shall be stored in a manner which prevents discharge to the environment. Used oil shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1000 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.h., cont'd)

9) *Paint.* Paint is accepted and bulked at the HHWCSF. Any paint that is accepted shall be managed and stored in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1,500 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]
Amended 09/15/2008.

10) *Electronics.* Electronics to be recycled shall be stored in an undamaged condition, and removed at least quarterly (every 3 months) or when a maximum quantity of 400 units (e.g., TVs, computers, etc.) is stored onsite, whichever occurs sooner. Electronics that have been damaged (such as broken into pieces) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least quarterly (every 3 months). [ref. SC#A.2.a(1) and A.2.a(3)]
Amended 09/15/2008.

i. Site Inspections.

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) daily on operating days. Erosion and settlement shall be repaired in accordance with Specific Condition #C.10., below.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.9., below.

3) Litter fences shall be installed near the active face to capture wind-blown litter. In addition, the owner or operator shall inspect the normal traffic areas of the facility for litter **daily on operating days**. The accessible property boundaries shall be inspected for litter **at least weekly**. Litter shall be collected and disposed of in the Class I landfill **at least once per day on operating days**, or more often as necessary. In the event that the litter control program is ineffective, the operator shall notify the Department, and implement additional litter control measures **within 30 days**.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

- j. The top edge of the slurry wall shall be clearly marked in as many locations as required to prevent waste disposal and stormwater/leachate runoff outside the slurry wall. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal and leachate runoff outside the slurry wall.
2. **Operating Personnel.**
- a. The owner or operator shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.
 - b. Sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. As required by Rule 62-701.500(1), F.A.C., at least one trained operator shall be at the site when either area receives waste. At least one trained spotter shall be at each working face when waste is received and unloaded, to inspect each load of waste from the ground (while off of the equipment), and to identify and properly manage prohibited materials.
 - c. The permittee shall notify the Department in writing of a change of the County's primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Training documentation shall be maintained at the landfill site, and copies shall be provided to the Department upon request.
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. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.
4. **Monitoring of Waste.**
- a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.4., cont'd)

b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.10.

c. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.

d. Sludges generated from stormwater/leachate system maintenance shall be dewatered and adequately characterized as non-hazardous prior to disposal.

5. **Waste Handling Requirements.** All disposed solid waste shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill area in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class I disposal area, must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired within three days of discovery.

2) The following alternate daily cover materials are acceptable for use at this facility: tarps, soil with up to 25% fines from the yard processing area, shredded tires, ground-up construction and demolition debris including asphalt roofing shingles, dredged soils that have been sufficiently dewatered, and street sweepings.
Amended 10/11/05.

3) Alternate daily cover materials not listed in this Specific Condition are required to be approved by the Department prior to use at the facility

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.5., cont'd)

b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.

1) An intermediate cover of 12 inches of compacted soil in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion.

c. Cover materials which have been previously used for intermediate or initial cover, and which contain solid waste shall not be re-used on areas which discharge outside the slurry wall.

6. Working Face.

a. As required by Rule 62-701.500(7)(d), F.A.C., the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area.

b. Waste shall be spread and compacted in accordance with the Operation Plan. Slopes shall be maintained in accordance with the Operations Drawings [ref. SC#A.2.a(10)]. All waste slopes (including the working face) shall be no greater (steeper) than 5H:1V [ref. SC#A.2.a(2), Part J].

7. Method and Sequence of Filling. The method and sequence of filling shall be in accordance with Fill Sequence Plans [ref. SC#A.2.a(10) as revised], Sheets 1, 2 and 3 of 3 [ref. SC#A.2.g.], and as described in the Operation Plan, or as otherwise approved in writing by the Department.
Amended 07/10/2006, 09/15/2008, 12/05/2008.

8. Leachate Management.

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the Operation Plan [ref. SC#A.2.a(1)], the Water Quality and Leachate Monitoring Requirements [ref. SC#A.2.a(4)], and other applicable Department rules.

b. Leachate which has accumulated on the surface in low areas shall be collected and removed, or redirected away from the active disposal areas within 72 hours.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8., cont'd)

c. Leachate Collection and Removal System (LCRS)
Inspections/Maintenance.

1) The Stormwater/Leachate Management System shall minimize stormwater from entering waste filled areas. All stormwater/leachate conveyances shall be inspected daily to verify adequate performance. Conveyances not performing adequately shall be repaired **within three days of discovery**. Documentation of all inspections and repairs shall be kept on file at the facility. [ref.SC#A.2.a(1)]

2) The leachate collection and removal system underdrains and gravity pipelines shall be video inspected or water pressure cleaned to verify adequate performance at least once during this permit period. Force mains shall be video inspected or water pressure cleaned when the pump station performance indicates that the force mains may be obstructed. An inspection report shall be provided and shall include an evaluation of the effectiveness of the system, the locations of cleaning and video inspections (indicated on a Site Plan drawn to scale) with the locations and the cause of all obstructions encountered, proposed corrective actions, and schedule for implementation of corrective actions as appropriate. If the pipes are water-jet cleaned, the report shall include a description of the method of cleaning. Components not performing adequately shall be repaired as necessary. **No later than one hundred and eighty (180) days prior to permit expiration**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) when required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be signed and sealed by a professional engineer, and shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The permittee shall retain a copy of the final report, each inspection report, and each inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

3) Each pump and pump station and related sensors and controller mechanisms shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Operations Plan [ref.SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c, cont'd)

5) Upon the discovery of any defective (obstructed, separated, deformed) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored. Construction of improvements to any part of the LCRS, including significant repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for the construction of improvements shall be substantially equivalent to those required for new construction.

d. Leachate quantities.

1) In the event of a failure of leachate metering or pumping equipment which is not corrected **within 24 hours of detection**, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.10.

2) Leachate generation reports shall be compiled and submitted to the Department **monthly, by the 15th of the following month**. Leachate generation reports shall include the number of open, intermediate and closed acres, the quantities of stormwater/leachate collected, stored, recirculated and disposed off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

9. **Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the 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.

b. In the event that the odor control measures performed at the facility do not sufficiently abate objectionable odors offsite, the permittee shall submit an odor abatement plan to the Department **within sixty (60) days** of initial detection. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.

SPECIFIC CONDITIONS: PART C - Operation Requirements

10. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater/leachate management systems, cover systems and berms, gas monitoring system, 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 stormwater/leachate discharge outside the slurry wall, 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.

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the leachate management systems are damaged or are not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department.

e. Erosion. Intermediately covered disposal areas, or other disposal areas which exhibit significant erosion, shall be repaired according to the following schedule:

1) If the cover materials have eroded such that greater than 50% of the cover in that location has been eroded, then initiate repair of the affected area within three (3) days of discovery; and

2) If waste is exposed, then repair the affected area by the end of the next working day, or within 24 hours after the event that caused the waste to be exposed has ceased.
Amended 10/11/05.

f. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days.**

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Operation Plan and Operating Record.

a. 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.

b. Proposed changes to the current Department-approved **Operation Plan** [ref.SC#A.2.a(1)] shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operation Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.

c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006.

d. The following reports, documents and other information shall be maintained at the facility for reference, and copies shall be provided to the Department upon request:

- 1) Waste quantity reports required by Rule 62-701.500(4), F.A.C.;
- 2) A log of the facility operator's daily inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) A list of incidents of disposal of unacceptable or prohibited wastes. This list should include the generator's name and address, and a description of the waste disposed;
- 5) Operator and spotter training certificates and other documentation;
- 6) Log of odor complaints and corrective action; and
- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.

SPECIFIC CONDITIONS: PART D - Recordkeeping

(Specific Condition #D.1., cont'd)

e. Capacity Report. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than May 1st each year,** a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the waste sideslopes are no greater than the design (5H:1V), that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved Permit Renewal Drawings [ref.SC#A.2.a(10)] and other supporting information [ref.SC#A.2.a(2)].
Amended 10/10/2007.

2. **Waste Records.**

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15th, April 15th, July 15th and October 15th of each year.** Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.

b. Records shall be kept for all recycled electronics, including the quantities sent to each recycler, and related receipts with the name and address of each recycler.

3. **Financial Assurance.** The permittee shall provide 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 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006, 10/10/2007.

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.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (February 1, 2004) [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

Amended 12/05/2008.

b. The field testing, sample collection and preservation and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this landfill shall extend horizontally 100 feet from the limits of the landfill slurry wall (designated as Stage I, II and III landfill areas) or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground water will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C., and that the minimum criteria listed in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill slurry wall (designated as Stage I, II and III landfill areas).

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

3. **Ground Water Monitor Well Locations.** The ground water monitoring system is designed and constructed in accordance with Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref.SC #A.2.a]. The ground water monitor wells are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**), as follows:

Amended 09/15/2008.

<u>Well Number</u>	<u>WACS Testsite ID No.</u>	<u>Aquifer</u>	<u>Designation</u>
GW-1 *	21593	Surficial	Detection
GW-2 *	21594	Surficial	Detection
GW-3 *	21595	Surficial	Detection
GW-4 *	21596	Surficial	Detection
GW-5 *	21597	Surficial	Detection
GW-6 *	21598	Surficial	Detection
GW-7 *	21599	Surficial	Detection
GW-8 *	21600	Surficial	Detection
GW-9 *	21601	Surficial	Detection
GW-10 *	21602	Surficial	Detection
GW-11 *	21603	Surficial	Detection
GW-12 *	21604	Surficial	Detection
GW-13 *	21605	Surficial	Detection
GW-14 *	21606	Surficial	Detection
GW-15 *	21607	Surficial	Detection
GW-16 *	21608	Surficial	Detection
GW-17 *	21609	Surficial	Detection
BGW-1 *	21610	Surficial	Background

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**); documentation of well construction shall be provided **within 30 days of installation** in accordance with SC #E.5.b., and #E.5.d.; initial sampling shall be conducted **within 7 days of well installation and development** in accordance with SC #E.4.b.; results of initial sampling shall be submitted **within 30 days of receipt from the analytical laboratory**.

All wells are to be clearly labeled and easily visible at all times. The permittee should keep all wells locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards referenced in Chapter 62-520, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

Amended 12/05/2008:

a. Ground water levels shall be measured at all active wells listed in SC #E.3., and all piezometers listed in SC #E.10., during all sampling events described in SC #E.4.b., #E.4.c., and #E.9.c., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall also include ground water elevations (using a consistent, nationally recognized datum) calculated for each well and the electronic water level monitoring devices installed in the lake pump stations described in SC #E.9.a.

Amended 09/15/2008.

b. An initial sampling event shall be conducted at wells GW-1 through GW-17 and BGW-1 **within 7 days of installation and development** for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix II</u>	

c. Wells GW-1 through GW-17 and BGW-1 shall be sampled **semi-annually**. In accordance with Rule 62-701.510(6)(d), F.A.C., samples collected from these wells shall be analyzed for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

5. **Ground Water Monitor Well Construction.** The following information shall be submitted **within 90 days of installation** of all new or replacement wells, or as stated below:

a. Prior to construction of all new or replacement wells and piezometers (excluding the locations listed in SC #E.3., and #E.10., respectively) the permittee shall request and receive Department approval of a minor permit modification.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (**attached**) [or as replaced by Department Form #62-701.900(30)].
Amended 09/15/2008.

c. **Within one week of well completion and development**, each new or replacement well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and (8)(d), F.A.C

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned) horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.
Amended 09/15/2008.

6. **Well Abandonment.**

a. Existing monitor wells and piezometers shall be abandoned **within 90 days of permit issuance**, as follow:

- Surficial aquifer monitor wells - MW-1, MW-2, MW-3, MW-5, MW-6, LR11-1, LR11-2, LR11-3, LR11-4, LR11-5, CW-4, CW-5A, GC-1A, GC-2, GC-3, GC-4A, GC-5, GC-6 and SWR-1
- Confined aquifer monitor wells - SA-2, SA-3, SA-4, SA-5, SA-6, SA-7, SA-8 and SMR-2
- Piezometers - PZ-1, PZ-2, PZ-3A, PZ-4A, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, PZ-11, PZ-12A, PZ-13, PZ-14A, PZ-15A, PZ-15C, PZ-16A, PZ-16B, PZ-17, PZ-18 and PZ-19

b. All wells and piezometers listed in SC #E.6.a., and wells and piezometers not a part of the approved Water Quality Monitoring Plan (not listed in SC #E.3., and #E.10.), are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring, prevention measures and corrective action as described in Rule 62-701.510(7), F.A.C.

8. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from the each of the existing leachate pump stations in landfill Stages I and III (designated as Lift Station No. 1, WACS Testsite ID No. 21611; Lift Station No. 2, WACS Testsite ID No. 21612; and, Lift Station No. 3, WACS Testsite ID No. 21613) as shown on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**). Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C., for analysis of the following parameters:
Amended 09/15/2008.

a. **Annual** leachate sampling shall be conducted for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors and sheens
(by observation)

Laboratory parameters

Total ammonia - N	Iron
Bicarbonate	Mercury
Chlorides	Sodium
Nitrate	
Total dissolved solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix II</u>	

b. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** leachate sampling and analysis of the parameters listed in SC #E.8.a., and shall notify the Department in writing. Results of the monthly leachate sampling shall be submitted **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional samples, sampling locations, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the criteria for each parameter established in Chapter 62-302, F.A.C., to demonstrate compliance with Class III (predominantly fresh water) surface water standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Surface water levels shall be measured using the electronic water level monitoring devices installed at the pump stations in the East Lake and South Lake pump stations shown on Figure M-1 received February 14, 2008 (**attached**) during all sampling events described in SC #E.9.b., #E.4.b., and #E.4.c., to a precision of 0.01 foot. Surface water body elevations (using a consistent, nationally recognized datum) recorded at these lake pump stations shall be noted on ground water surface contour maps prepared for each sampling event.

Amended 09/15/2008.

b. Surface water samples shall be collected at downstream and upstream locations in Cypress Strand at SW-1 (WACS Testsite ID No. 1663) and SW-2 (WACS Testsite ID No. 1665), respectively, as located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**). In accordance with Rule 62-701.510(4)(c), F.A.C., the monitoring stations shall be marked and their positions shall be determined by a registered Florida land surveyor in degrees, minutes and seconds of latitude and longitude.

Amended 09/15/2008.

c. **Semi-annual** surface water sampling shall be conducted at SW-1 and SW-2 in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Unionized ammonia	Copper
Total hardness	Iron
Biochemical oxygen demand (BOD ₅)	Mercury
Nitrate	Zinc
Total dissolved solids (TDS)	
Total organic carbon (TOC)	
Fecal coliform	
Total phosphates	
Chlorophyll A	
Total nitrogen	
Chemical oxygen demand (COD)	
Total suspended solids (TSS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. **Gradient Monitoring.** Horizontal hydraulic gradient across the slurry wall shall be measured **monthly** at the following monitoring points ("P" denotes a piezometer located inside the slurry wall and "GW" denotes a monitor well located outside the slurry wall). Monitoring points are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**).
Amended 09/15/2008.

<u>Interior Monitoring Point</u>	<u>Exterior Monitoring Point</u>
P-1 *	GW-1
P-2 *	GW-2
P-3 *	GW-3
P-4 *	GW-4
P-5 *	GW-5
P-6 *	GW-6
P-7 *	GW-7
P-8 *	GW-8
P-9 *	GW-9
P-10 *	GW-10
P-11 *	GW-11
P-12 *	GW-12
P-13 *	GW-13
P-14 *	GW-14
P-15 *	GW-15
P-16 *	GW-16
P-17 *	GW-17

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**).

These points shall be monitored **monthly** for water levels to an accuracy of 0.01 feet. Results of the monthly monitoring shall be submitted by the **15th day of the following month**. An inward gradient shall be maintained across the slurry wall as described in Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref.SC#A.2.a]. If an outward gradient exists, steps for correcting the gradient shall be included with the related monthly data. Damaged gradient monitoring points shall be replaced within thirty (30) days to ensure continuous monthly monitoring at all points.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, and leachate sampling event conducted at the facility to comply with the Specific Conditions of this permit shall be included in reports that provide the following:

Electronic Data Deliverable (EDD) Portions of Report:

- An EDD on compact disk or flash drive media readable by Microsoft Windows in a format consistent with the requirements for evaluating the data and importing it into the Department databases that includes both field sampling data and laboratory data. The requirements for preparation of the EDD can be obtained on the Department's website at: <http://www.dep.state.fl.us/labs/dqa/adaptedms.htm>. The EDD shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)7, F.A.C.

Hard Copy Portions of Report:

- Department Form 62-701.900(31) ["Water Quality Monitoring Certification"], certifying that the permittee has reviewed and approved the laboratory results;
- Certified laboratory report of results;
- Chain-of-custody documentation;
- Department SOP Form FD 9000-24 ["Ground Water Sampling Log"] for ground water sampling events; and,
- The information required by Rules 62-701.510(9)(a)8 through 62-701.510(9)(a)10, F.A.C.

The permittee shall submit to the Department results of analyses conducted for each sampling event conducted at the facility by the following due dates:

- a. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
- b. Specific Condition #E.4.c. - results of ground water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;
- c. Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**
- d. Specific Condition #E.8.a. - results of leachate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th of each year** for the periods January 1-December 31;
- e. Specific Condition #E.8.b. - results of leachate monthly sampling events shall be submitted **within 60 days from completion of laboratory analyses**
- f. Specific Condition #E.9.c. - results of surface water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15th and July 15th of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 12/05/2008.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

12. **Monitoring Plan Evaluation.** By May 11, 2007 and November 11, 2009, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 11, 2007	Second half 2004	Second half 2006
November 11, 2009	First half 2006	First half 2009

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 07/10/2006.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NPs 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.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by Rule 62-701.530, F.A.C.

b. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C., (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

c. The results of quarterly monitoring required by Rule 62-701.530(2)(c), F.A.C., shall be submitted to the Department by the following dates:

Measured During

Quarter 1
Quarter 2
Quarter 3
Quarter 4

Report Submitted By

April 15th of each year
July 15th of each year
October 15th of each year
January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** The landfill gas management system is designed and constructed in accordance with Part O ("Gas Management System Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised December 8, 2004 [Ref. SC #A.2.a]. The ambient gas monitoring points and perimeter gas monitoring probes are located on Figure L-8A prepared by PBS&J ("Landfill Gas Migration Monitoring Locations") received June 20, 2008 (**attached**), and shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C.

Ambient Gas Monitoring

<u>Points</u>	<u>Location Description</u>
GMP-1 *	Gary Seeley office (former Litter Enforcement Office)
GMP-2 *	Shed by soda machine
GMP-3 *	Main office
GMP-4 *	Vehicle maintenance area
GMP-5 *	Hazardous waste area
GMP-6 *	Equipment trailer
GMP-8 *	Shed by weigh station

**Perimeter Gas
Monitoring Probe**

	<u>Location Description</u>
GMW-1	Stage III landfill perimeter - west
GMW-2	Stage III landfill perimeter - south
GMW-3	Stage I landfill perimeter - west
GMW-4	Stage I landfill perimeter - south
GMW-5	Stage I landfill perimeter - southeast corner
GMW-6	Stage I landfill perimeter - east
GMW-7	Stage II landfill perimeter - east
GMW-8	Stage II landfill perimeter - north
GMW-9A	Stage II landfill perimeter - west
GMW-10	Stage III landfill perimeter - north
GMW-11A	Stage III landfill perimeter - north
GMW-11B	Stage III landfill perimeter - north
GMW-11C	Stage III landfill perimeter - north
GMW-12 *	Stage III landfill - administration facility
GMW-13 *	Stage III landfill - administration facility
GMW-14 *	Stage III landfill - administration facility
GMW-15 *	Stage III landfill - administration facility
GMW-16 *	Stage III landfill - administration facility
GMW-17 *	Stage III landfill - administration facility

* = to be monitored until the structures located within the Stage III landfill area are removed, prior to the initiation of fill Sequence 3.

The gas probes are to be clearly labeled and easily visible at all times.
Amended 09/15/2008.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

4. **Gas Remediation.** If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department. **Within 7 days** of detection, a gas remediation plan detailing the nature and extent of the problem and the proposed remedy shall be submitted to the Department for approval. The remedy shall be completed **within 60 days** of detection unless otherwise approved by the Department..

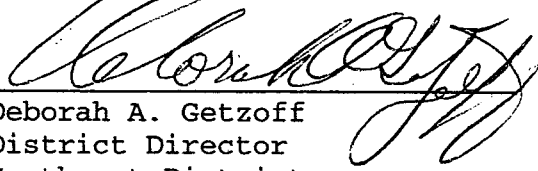
SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** 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.

2. **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.	November 11, 2009	Submit permit renewal application
A.9.b., C.10.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
B.1.b(3)	At least 30 days prior to initiation	Submit request to include sequenced construction and operation, and submit schedule
C.8.c(2)	180 days prior to permit expiration	Submit leachate collection system inspection report
C.8.d(2)	By the 15 th each month	Submit leachate generation reports
C.10.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.10.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.1.e.	Annually, by May 1 st each year	Submit topographic survey & capacity calculations, and certification
D.3.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.3.b.	Annually	Submit proof of funding
E.4.b.	Within 7 days of installation and development of new or replacement wells	Conduct initial sampling event
E.4.c.	Semi-annually	Sample all background and compliance wells
E.5.b.	Within 90 days of installation	Submit well construction information
E.5.c.	Within 1 week of well completion and development	Sample for parameters in Rule 62-701.510(8)(a) and 62-70.510(8)(d), F.A.C.
E.5.d.	Within 90 days of new or replacement well installation	Submit survey

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
E.6.a.	Within 90 days of permit issuance	Abandon existing monitoring wells and piezometers identified in E.6.a
E.6.b.	Within 30 days of abandonment	Submit report of well abandonment
E.8.a.	Annually	Sample/analyze leachate
E.8.b.	Monthly	Sample/analyze leachate if annual leachate results indicate exceedances of 40 CFR Part 261.24 regulatory levels
E.9.c.	Semi-annually	Sample/analyze surface water
E.10.	Monthly By the 15 th of the following month	Measure hydraulic gradient (horizontal and vertical) Submit gradient results
E.11.	Within 60 days from completion of laboratory analyses	Submit analytical results of: - Ground water initial sampling - Ground water resampling - Leachate monthly sampling
E.11.	Semi-annually, by January 15 th and July 15 th	Submit analytical results of: - Ground water routine sampling - Surface water routine sampling
E.11.	Annually, by January 15 th	Submit analytical results of: - Leachate annual sampling
E.12.	By May 11, 2007 and November 11, 2009	Submit water quality monitoring evaluation report
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th	Submit gas monitoring results
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

LEGEND:

- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- SLURRY WALL
- PROPERTY BOUNDARY
- LOCATION OF ELECTRONIC WATER LEVEL MONITORING DEVICE IN PUMP STATION

PROPERTY LINE



0 500 1000
GRAPHIC SCALE
SCALE: 1" = 1000'

STAGE II
LANDFILL
(INACTIVE NO SOLID WASTE)

LIFT STATION
NO. 4

LIFT STATION
NO. 1

STAGE III
LANDFILL
(ACTIVE)

STAGE I LANDFILL
(INACTIVE WITH SOLID WASTE)

ZONE 1

EAST LAKE
ZONE 2

ZONE 3

SOUTH LAKE
#1

SOUTH LAKE
#2

STORM
WATER
POND

POND

Dept. Of Environmental Protection

FEB 14 2000

Southwest District

NOTE:

SEE M-2 FOR MONITORING
WELL AND PIEZOMETER
INSTALLATION DETAILS.

* ELIMINATED STAFF GAUGES
AND ADDED WATER LEVEL
MONITORING DEVICES

REV. 12/06/04
REV. 4/20/04
REV. 1/28/07*

PBSJ

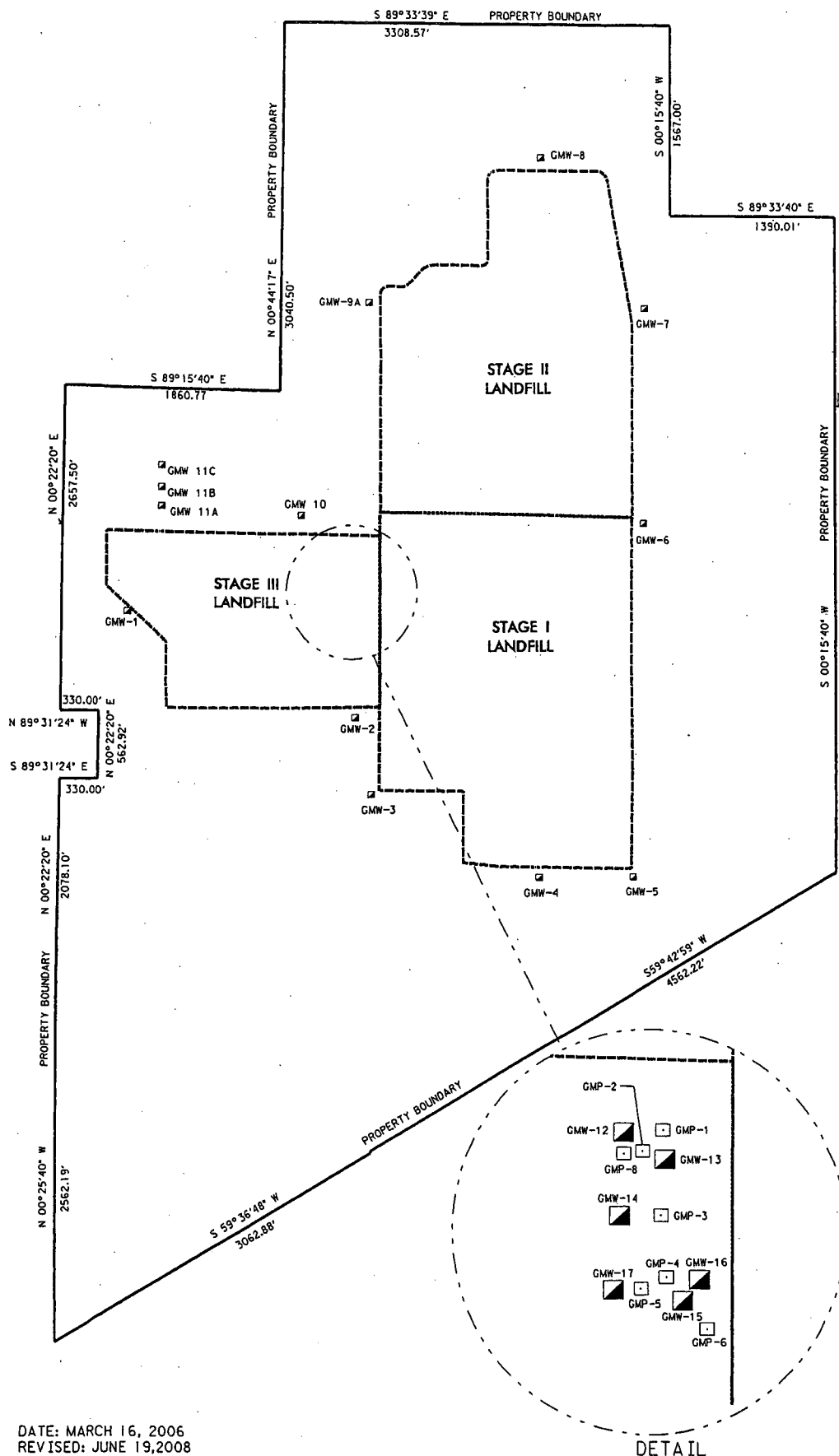
LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY AND
ELEVATION MONITORING
NETWORK

FIG. M-1

\\ORLFS1\EC\OLD\LEN\ENVCADD\WASTE\MAN\MANATEE\LENA\PERMIT-RENEWAL-2004\SOUTH POND-1.DGN

\\ORLFS1\EC\0\LDH\S\ENV\CAO\WASTE\MAN\MANATEE\LENARD\PERMIT-RENEWAL-2004\MLR\FIG-L-8A.DGN



Dept. Of Environmental Protection

JUN 20 2008

Southwest District

GAS POINT LOCATIONS DESCRIPTIONS

1. GARY SEELEY OFFICE (FORMER: LITTER ENFORCEMENT OFFICE) (BUILDING MOVED TO AREA NEAR EQUIPMENT TRAILER)
2. SHED BY SODA MACHINE
3. MAIN OFFICE
4. VEHICLE MAINTENANCE GARAGE
5. HAZ WASTE AREA
6. EQUIPMENT TRAILER

NOTES:

1. GMW-12 THROUGH GMW-18 AND GMP-1 THROUGH GMP-8 TO BE MONITORED UNTIL FILLING OF STAGE III LANDFILL REACHES THESE POINTS OR BUILDINGS ARE REMOVED

LEGEND:

- @ OF SLURRY WALL
- PROPERTY BOUNDARY
- GMW-3 GAS MONITORING WELL
- GMP-1 GAS MONITORING POINT

DATE: MARCH 16, 2006
REVISED: JUNE 19, 2008

PBS&

LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

LANDFILL GAS MIGRATION
MONITORING LOCATIONS

FIG. L-8A

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

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

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ DEPTH OF SCREEN: _____ (bls)
(bls)

SCREEN LENGTH: _____ SCREEN SLOT SIZE: _____ SCREEN TYPE: _____

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

REMARKS: (soils information, stratigraphy, etc.): _____

REPORT PREPARED BY: _____
(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

Florida Department of Environmental Protection

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

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date _____

DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (2) The GMS Identification Number _____
- (3) DEP Permit Number _____
- (4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

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

Date: _____

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP # /HRS Certification # _____

 *Comp QAP # /HRS Certification # _____

Lab Name _____

Address _____

Phone Number () _____

PART III ANALYTICAL RESULTS

Facility GMS #: _____ Sampling Date/Time: _____

Test Site ID #: _____ Report Period: _____
(year/quarter)

Well Name: _____ Well Purged (Y/N): _____

Classification of Ground Water:

Well Type: () Background

Ground Water Elevation (NGVD): _____

() Intermediate

() Compliance

() Other

or (MSL): _____

Storet Code	Parameter Monitored	Sampling Method	Field Filtered Y/N	Analysis Method	Analysis Date/Time	* Analysis Results/Units	Detection Limits/Units

* Attach Laboratory Reports

Pelz, Susan

From: gus.difonzo@mymanatee.org
Sent: Monday, November 10, 2008 8:40 AM
To: Pelz, Susan
Subject: RE: Excavation Permit Mod

Thank you Susan. I don't want Manatee County to become burdensome to you. It seems lately all our request are time sensitive. Hopefully, for at least the immediate future, this will be the last one. Having said that, any time and consideration you can give to the completion and forwarding of this permit mod would be greatly respected and appreciated. We received our temporary occupancy for the new buildings / facilities and have began the transition into the new buildings. As always, many thanks. Gus.

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

To <gus.difonzo@mymanatee.org>

cc

11/08/2008 08:22 AM

Subject RE: Excavation Permit Mod

Gus,

The modification request is complete. Our Day 90 is 1/3/09, but I will try to get it issued within the next month or so.

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: gus.difonzo@mymanatee.org [<mailto:gus.difonzo@mymanatee.org>]

Sent: Friday, November 07, 2008 9:03 AM

To: Pelz, Susan

Subject: Excavation Permit Mod

Susan -

We do a real good job tracking all our due dates for monitoring, reporting, permit renewals, rfai's to DEP, etc., but it seems we can't get our hands around when items are due back from the Department. If you could be so kind to work into your busy schedule the status of the above mentioned subject, I would be most appreciative.

Thanks / Gus.



An employee-owned company

September 29, 2008

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

Dept. of Environmental
Protection

OCT 06 2008

Southwest District

Re: Lena Road Landfill, Manatee County
GMS ID No.: 4041C02025
Pending Modification No.: 39884-017-SO/MM, Stage III Excavation
To Operation Permit No.: 39884-010-SO/01

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. **Calculations, Rule 62-701.320(7) (e), F.A.C.** Please specify the elevations used to determine W_1 , W_2 , u_1 , u_2 and u_3 . The figures provided are unclear. Please specify how the groundwater elevations at P-3, P-11 and P-12 were used in the calculations.

Response: The elevations are: El. 12 for W_1 , El. 17 for W_2 , El. 20 for W_3 , El. 12 for u_1 , El. 17 for u_2 and El. 20 for u_3 .

The groundwater elevations at P-3 (El. 28.03), P-11 (El. 23.33) and P-12 (El. 29.61) are for piezometers read on July 29, 2008 located inside the landfill. These readings show that the groundwater elevation is generally below El. 29.0. These piezometers give an indication of what the groundwater table will be during the excavation of the Stage III Landfill from existing ground at El. 39 +/- to El. 29.0 which is the invert of the permitted landfill for disposal of solid waste. The excavation will remove soils from above the groundwater. For the uplift calculation, we assumed that the groundwater would be at El. 29.0. The groundwater level, and the uplift on the excavation invert, is controlled by the leachate collection system. The Stage III leachate collection system that is located on the eastside of the Stage III Landfill, and Stage I leachate collection system that runs along the westside of the Stage I Landfill both pass under the area for the proposed excavation. The leachate collection systems control the groundwater level in the excavation so there will never be excessive uplift on the invert of the excavation, and all of the excavation and solid waste disposal will be above the groundwater level. The leachate collection system relieves excess water pressure that could develop from the differential water pressure across the slurry wall. The differential water pressure exists because the water level outside of the slurry wall is greater than the water level on the inside of the slurry wall.

See ~~enc~~
bureau doc

2. ***Drawings, Rule 62-701.320(7) (f), F.A.C.***

- a. Sheet 1 of 3. Please clarify the purpose of the 1=80' scale located in the upper right hand portion of this sheet. Please clarify if the construction of each excavation sequence will be certified separately. It appears that the schedule for the sequence of excavation does not correlate with the approved sequence of filling (see Sheets C-8, C-11A and C-11 of the sequence plans). The filling sequence plans appear to indicate that filling will begin in the southwest corner of excavation phase 1 and proceed to the east along the southern boundary to Stage I. This filling sequence would require that excavation phases 1 and 2 be constructed and approved. Please clarify if excavation phases 1 and 2 will be constructed and certified at the same time, or clarify the filling sequence.

Response: The 1=80' scale located in the upper right hand portion of this sheet is the correct scale for the plan view. The 1"=100' scale under the plan view title was deleted and a revised drawing included with this response.

At this time, Manatee County intends to certify separately construction for each of the four phases. So there will be four separate construction certifications submitted. Depending on the excavation rate and need for disposal in Phase 1, if Phase 2 is completed before solid waste disposal is needed in the Phase 1 area, we would combine the certifications and certify both Phases 1 and 2 at the same time. A similar scenario may occur for Phases 2, 3 and 4. At this time, Manatee County needs the flexibility to get ready as soon as possible an area in Fill Sequence 5 for disposal of solid waste.

Excavation Sheet 1 of 3 was also revised by adding the designation of Fill Sequence Drawing No. C-7B to this sheet. With this designation in the fill sequence plan, this drawing clarifies the filling for Fill Sequence No. 5, which is filling in the gap between the Stage I Landfill and Fill Sequence 4B of the Stage III Landfill which is shown on Fill Sequence Drawing No. C-7A. Fill Sequence Drawing C-7B (Sheet 1 of 3 of the Excavation Plan) clarifies the direction of filling for Fill Sequence 5. Direction of filling arrows were added to Excavation Sheet 1 of 3 (Fill Sequence Drawing 7B) to indicated that the sequence of filling for Sequence 5 will start in the southwest corner and proceed east and north. The filling will proceed as follows: Phase 1, Phase 2, Phase 3 and then Phase 4. Manatee County plans to fill all four phases with a single 10 foot +/- lift during the dry season before placing a second lift in any of the phases. The second lift over the first lift will follow the same filling direction pattern. If for some reason the Phase 2 excavation, the foundation excavation certification, or FDEP approval is delayed, then Manatee will put a second lift on the Phase 1 area while waiting for Phase 2 to be approved.

The arrow on Fill Sequence Plan Drawing C-8 shows the direction of filling for Fill Sequence 6 which is the sequence of filling after Fill Sequence 5. After Fill Sequence 5 is completed and the gap between the Stage I Landfill and the Stage III Landfill is full, the waste will be at the same elevation as the waste in Fill Sequence 4A, which is shown on Fill Sequence

Drawing No. C-7A. Fill Sequence 6 goes from east to west over Fill sequence 5 and Fill sequence 4A.

Section B on Fill Sequence Drawing No. C-11 shows the direction of filling for Sequence 5, which is filling the gap between Fill Sequence 4A and the Stage I Landfill. The arrow on Fill Sequence 5 shows filling from west to east which is in agreement with the direction of filling on Excavation Sheet 1 of 3, which is now also designated as Fill Sequence Drawing No. 7B.

Section D on Fill Sequence Drawing No. C-11A is a north south section looking east. The fill sequence arrow in this section shows the direction of filling for Sequence 5 as going from the south to the north. This fill sequence arrow is in agreement with the filling direction shown on Excavation Sheet 1 of 3, which is now also designated as Fill Sequence Drawing No. 7B.

- b. Sheet 2 of 3. *Please provide a scale for this drawing. Please specify which report includes the boring logs that are shown on this sheet. It appears that the boring logs provided do not use distinct identifiers (e.g., there are multiple borings identified as "TH-1").*

Response: The cross sections give the elevations which are the vertical scale, and the stations along the bottom of the section which are the horizontal scale. A vertical and horizontal scale was added below the title for each section to clarify the scales for the vertical and horizontal directions in these sections.

Notes were added to Excavation Sheet 1 of 3 and Sheet 2 of 3 listing the borings and the reference for the where the geotechnical boring logs can be found.

There were two different borings identified as TH-8. We thought they were the same boring, but are different borings. In the notes on the drawings and on the plan sheet we identified the source for each of these borings identified as TH-8.

- c. Sheet 3 of 3. *Some of the Ardaman borings appear to indicate that waste may be encountered in the project area and this sheet indicates that the soils excavated from the project area may be used for cover. Please provide procedures for managing wastes, and soils mixed with waste that may be encountered during excavation.*

Response: Manatee County intends to excavate to Elevation 29.0 only if there is clean soil in the excavation to that depth. Since this excavation is in the area of the administration facilities, the area was filled with at least 6 to 8 feet of clean soil fill prior to constructing the buildings, roads and parking lots. This is the soil fill that Manatee County intends to recover. The roads, buildings and parking areas have 12 inches or more of shell or limerock for surfacing. This material will be excavated first and stockpiled separately for use in constructing access roads on the landfill. Clean fill will be excavated until solid waste is encountered or the excavation reaches Elevation 29.0. All solid waste encountered in the


Ms. Susan Pelz, Solid Waste Manager
Florida Department of Environmental Protection
September 29, 2008

Lena Road Landfill
Page 4 of 4

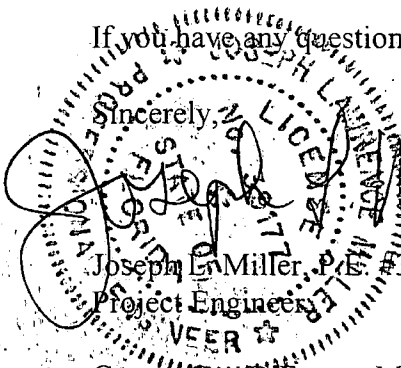
excavation and any soil contaminated with solid waste encountered in the excavation will not be used for initial cover or intermediate soil cover. The solid waste and soil contaminated with solid waste will either be left in-place, if the excavation is near Elevation 29.0, or excavated and disposed of in the landfill at the working face with solid waste disposed of that day. No solid waste will be left uncovered in the excavation at the end of the day. Only clean soil will be used for initial cover and intermediate cover on the landfill. If the clean soil is not needed immediately, the clean soil will be placed in the landfill cover soil stockpile for future use as intermediate or initial soil cover.

If you have any questions, please call me at 407-806-4153, or e-mail me at jlmliller@pbsj.com.

Sincerely,



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



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

U:\SO\Projects\Manatee County\Fill in the Stage I III Gap\Response to RFI 1.doc

Attachments:

1. Revised Sheet 1 of 3.
2. Revised Sheet 2 of 3.

Pelz, Susan

From: Pelz, Susan
Sent: Thursday, September 18, 2008 3:58 PM
To: Pelz, Susan; 'Gus Difonzo (gus.difonzo@co.manatee.fl.us)'; Dan Gray (dan.gray@co.manatee.fl.us)
Cc: Mike Gore (mike.gore@co.manatee.fl.us); Joe Miller (jlmiller@pbsj.com)
Subject: RE: Lena Rd Stage III excavation mod

All-

I have just discovered that the response date on the RAI for the excavation mod is incorrect. Please provide a response to RAI by 10/20/08. I apologize for the error and any inconvenience.

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: Pelz, Susan
Sent: Thursday, September 18, 2008 3:29 PM
To: Gus Difonzo (gus.difonzo@co.manatee.fl.us)
Cc: Mike Gore (mike.gore@co.manatee.fl.us); Joe Miller (jlmiller@pbsj.com)
Subject: Lena Rd Stage III excavation mod

Gus,

Please find attached RAI #1 for modification #39884-017-SO/MM. Hard copy was mailed.

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

Pelz, Susan

From: Pelz, Susan
Sent: Thursday, September 18, 2008 3:29 PM
To: Gus Difonzo (gus.difonzo@co.manatee.fl.us)
Cc: Mike Gore (mike.gore@co.manatee.fl.us); Joe Miller (jlmiller@pbsj.com)
Subject: Lena Rd Stage III excavation mod
Attachments: RAI #1 - Permit Mod - Lena Road CL1 - 39884-017-SO-MM issued 9-18-2008.small.pdf

Gus,

Please find attached RAI #1 for modification #39884-017-SO/MM. Hard copy was mailed.

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



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

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

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

September 18, 2008

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-017-SO/MM, Stage III excavation
to Operation Permit No. 39884-010-SO/01

Dear Mr. Gray:

This is to acknowledge receipt of your permit modification application, dated August 19, 2008 (received August 20, 2008), prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to modify the operation permit to include excavation of the area between Stage III and Stage I 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. Changes to text that has been approved prior to the pending modification should be "accepted" to more clearly identify the changes proposed as part of the pending modification. 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.)].

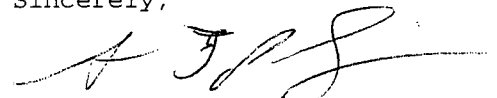
1. **Calculations, Rule 62-701.320(7)(e), F.A.C.** Please specify the elevations used to determine W_1 , W_2 , W_3 , u_1 , u_2 and u_3 . The figures provided are unclear. Please specify how the groundwater elevations at P-3, P-11 and P-12 were used in the calculations.
2. **Drawings, Rule 62-701.320(7)(f), F.A.C.**
 - a. Sheet 1 of 3. Please clarify the purpose of the 1"=80' scale located in the upper right hand portion of this sheet. Please clarify if the construction of each excavation sequence will be certified separately. It appears that the schedule for the sequence of excavation does not correlate with the approved sequence of filling (see Sheets C-8, C-11A and C-11 of the sequence plans). The filling sequence plans appear to indicate that filling will begin in the southwest corner of excavation phase 1 and proceed to the east along the southern boundary to Stage I. This filling sequence would require that excavation phases 1 and 2 be constructed and approved. Please clarify if excavation phases 1 and 2 will be constructed and certified at the same time, or clarify the filling sequence.
 - b. Sheet 2 of 3. Please provide a scale for this drawing. Please specify which report includes the boring logs that are shown on this sheet. It appears that the boring logs provided do not use distinct identifiers (e.g., there are multiple borings identified as "TH-1").
 - c. Sheet 3 of 3. Some of the Ardaman borings appear to indicate that waste may be encountered in the project area and this sheet indicates that the soils excavated from the project area may be used for cover. Please provide procedures for managing wastes, and soils mixed with waste that may be encountered during excavation.

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.

*10/20/08
see
dxy
9/18/08*
Please respond by ~~April 9, 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 to discuss the above comments prior to submitting the requested information.

Sincerely,



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

sjp

cc: Gus DiFonzo, Manatee Co., email: gus.difonzo@co.manatee.fl.us
Mike Gore, Manatee County, email: mike.gore@co.manatee.fl.us
Joe Miller, P.E., PBSJ, email: jlmiller@pbsj.com



An employee-owned company

August 19, 2008

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

Stage III
excavation
filed
39884-017

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 20 2008
SOUTHWEST DISTRICT
TAMPA

Re: Lena Road Landfill, Manatee County
GMS ID No.: 4041C02025
Application for a Minor Permit Modification to
Landfill Operation Permit No.: 39884-010-SO/01
Excavation Work related to the Bottom of the
Stage III Landfill Disposal Area

Dear Ms. Pelz:

As required on Page 9 of 39 of the Landfill Operation Permit by Specific Conditions: Part B – Construction Requirements, 1. b. Stage III, PBS&J, on behalf of Manatee County, is submitting the required application for a minor permit modification and supporting documentation related to completion of the remaining excavation of the bottom of the Stage III Landfill disposal area.

Enclosed please find a check for \$250 as the minor permit application fee, and four copies of the following documents.

1. Permit Application
2. Calculations demonstrating that the factor of safety against hydrostatic uplift on the bottom clay liner during the proposed excavation to elevation 29.0 is 1.92. This is greater than the minimum required factor of safety of 1.5.
3. Excavation drawings on three sheets: Sheet 1 of 3 – Stage III and I Landfill Excavation Plan; Sheet 2 of 3 – Sections; and Sheet 3 of 3 – Sections. These drawings show the excavation proposed in four phases and the schedule.
4. *Geotechnical and Hydrogeological Investigation – Lena Road Landfill* by Briley, Wild & Associates, Inc. dated March 3, 1983.
5. *Compilation of Hydrogeological and Groundwater data for Lena Road Landfill – Stage III Area* prepared by Ardaman & Associates, Inc. There are three reports dated June 25, 1984, July 12, 1984 and September 19, 1984. Also included is: *Lena Road Landfill Stage III (Gun Club) Design Report* dated November 1984 prepared by Briley, Wild &

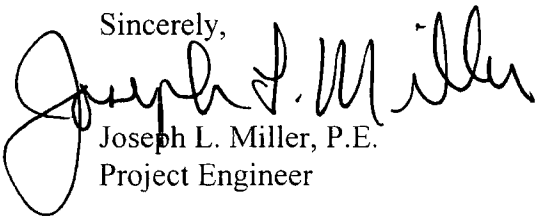
See ~~enclosed~~
bould doc

Associates, Inc., and various letter responses to FDEP on groundwater monitoring, construction, etc.

6. *Geotechnical Related Responses to Contractor Questions Pertaining to Pre-bid Meeting on Lena Road Landfill Slurry Wall* prepared by Ardaman & Associates, Inc. dated May 30, 1985. This includes soil profiles and other geotechnical information.
7. *Progress Report – Slurry Wall Construction – Lena Road Landfill – August 19, 1989 through September 22, 1989* prepared by Ardaman & Associates, Inc. This documents the construction of the slurry wall including a summary table with the laboratory test results to confirm the coefficient of permeability of the bottom clay liner. Confirmation samples were taken approximately every 100 feet along the centerline of the slurry wall construction. Also included are Daily Field Reports and Slurry Wall Inspection Field Data Reports.
8. Construction Drawings entitled: *Manatee County, Florida Lena Road Landfill Improvements Stage 2 & 3*, prepared by Manatee County Public Works Department, dated May 1988, (Fourteen Sheets). Besides construction details, these drawings include the geotechnical information for construction of the slurry wall.

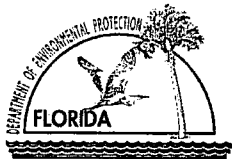
If you have any questions, please call me at 407-806-4153, or e-mail me at jlmliller@pbsj.com.

Sincerely,



Joseph L. Miller, P.E.
Project Engineer

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies
U:\SO\Projects\Manatee County\Fill in the Stage I III Gap\Susan Pelz Ltr August 19 2008.doc



Florida Department of Environmental Protection

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

DEP Form # 62-701.900(1)
Form Title Solid Waste Management Facility Permit
Effective Date 05-27-01

DEP Application No. _____
(Filed by DEP)

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 20 2008
SOUTHWEST DISTRICT
TAMPA

APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A SOLID WASTE MANAGEMENT FACILITY

APPLICATION INSTRUCTIONS AND FORMS

**Manatee County Solid Waste Management Facility
Lena Road Class I Landfill
WACS ID No: SWD-41-44795**

**Minor Permit Modification Related to
Final Excavation of the Stage III Landfill**

August 13, 2008

U:\SO\Projects\Manatee County\Fill in the Stage I III Gap\Mod Application 62-701.900.1.DOC

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department's District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit parts A,B, D through T
- B. Asbestos Monofills - Submit parts A,B,D,E,F,G,J,L,N, P through S, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, D through T
- D. Non-Disposal Facilities - Submit parts A,C,D,E,J,N,S and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A,B,C and D type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit parts A,B,M, O through T
- B. Asbestos Monofills - Submit parts A,B,N, P through T
- C. Industrial Solid Waste Facilities - Submit parts A,B, M through T
- D. Non-Disposal Facilities - Submit parts A,C,N,S and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

S	-	Submitted
LOCATION	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

VI. LISTING OF APPLICATION PARTS

PART A:	GENERAL INFORMATION - Submitted
PART B:	DISPOSAL FACILITY GENERAL INFORMATION - Submitted
PART C:	NON-DISPOSAL FACILITY GENERAL INFORMATION - Not Applicable
PART D:	PROHIBITIONS - Not Applicable
PART E:	SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL - Not Applicable
PART F:	LANDFILL PERMIT REQUIREMENTS - Not Applicable
PART G:	GENERAL CRITERIA FOR LANDFILLS - Not Applicable
PART H:	LANDFILL CONSTRUCTION REQUIREMENTS - Not Applicable
PART I:	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS - Not Applicable
PART J:	GEOTECHNICAL INVESTIGATION REQUIREMENTS - Not Applicable
PART K:	VERTICAL EXPANSION OF LANDFILLS - Not Applicable
PART L:	LANDFILL OPERATION REQUIREMENTS - Not Applicable
PART M:	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS - Not Applicable
PART N:	SPECIAL WASTE HANDLING REQUIREMENTS - Not Applicable
PART O:	GAS MANAGEMENT SYSTEM REQUIREMENTS - Not Applicable
PART P:	LANDFILL CLOSURE REQUIREMENTS - Not Applicable
PART Q:	CLOSURE PROCEDURES - Not Applicable
PART R:	LONG TERM CARE REQUIREMENTS - Not Applicable
PART S:	FINANCIAL RESPONSIBILITY REQUIREMENTS - Not Applicable
PART T:	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER - Submitted

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

☒ Disposal

☒ Class I Landfill

☐ Ash Monofill

☐ Class II Landfill

☐ Asbestos Monofill

☐ Class III Landfill

☐ Industrial Solid Waste

☐ Other Describe: _____

☐ Non-Disposal

☐ Incinerator For Non-biomedical Waste

☐ Waste to Energy Without Power Plant Certification

☐ Other Describe: _____

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC;
Land Clearing Disposal Facilities should notify on Form 62-701.900(3), FAC;
Compost Facilities should apply on Form 62-701.900(10), FAC; and
C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:

☐ Construction

☒ Operation

☐ Construction/Operation

☐ Closure

3. Classification of application:

☐ New

☐ Substantial Modification

☐ Renewal

☐ Intermediate Modification

☒ Minor Modification

4. Facility name: Lena Road Class I Landfill

5. DEP ID number: SWD-41-44795 County: Manatee

6. Facility location (main entrance): 3333 Lena Road, Bradenton, FL 34202

7. Location coordinates:

Section: 1 Township: 35S Range: 18E and Section: 31 Township: 34S Range: 19E

Section: 6 & 7 Township: 35S Range: 19E

Latitude: 27 ° 28 ' 10 " Longitude: 82 ° 26 ' 35 "

- Page 5 of 40

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned under this application:
This application is for a minor modification to the Operation Permit and includes the documentation requested per Specific Condition Part B - Construction Requirements, 1. b. Stage III. "2) At least sixty (60) days prior to initiation of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a sufficient number of boring logs with supporting calculations to confirm the elevation of the bottom clay layer and demonstrate that the clay layer will not be adversely affected by hydrostatic uplift. The calculations shall demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer. In the event that the excavation activities reveal unexpected subsurface conditions (e.g., the absence of clay, the presence of sandy soils, etc.) additional borings with supporting calculations to demonstrate that the clay is adequately impervious and will not be adversely affected by hydrostatic uplift may be required." and "3). At least thirty (30) days prior to initiation of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a request for modification that includes scaled drawings showing the phased construction of the remaining portions of Stage III and the expected schedule for completion of each phase."
2. Facility site supervisor: Mike Gore
Title: Superintendent - Landfill Division Telephone: (941) 708-8562
mike.gore@mymanatee.org
E-Mail address (if available)
3. Disposal area: Total 316 acres; Used 206 acres; Available 110 acres.
4. Weighing scales used: ☒ Yes ☐ No
5. Security to prevent unauthorized use: ☒ Yes ☐ No
6. Charge for waste received: N/A \$/yds³ 36 \$/ton
7. Surrounding land use, zoning:
☒ Residential ☐ Industrial
☒ Agricultural ☐ None
☐ Commercial ☒ Other Describe: Transportation & Utilities
8. Types of waste received:
☒ Residential ☒ C & D debris
☒ Commercial ☒ Shredded/cut tires
☐ Incinerator/WTE ash ☒ Yard trash
☐ Treated biomedical ☐ Septic tank
☒ Water treatment sludge ☐ Industrial
☐ Air treatment sludge ☐ Industrial sludge
☒ Agricultural ☒ Domestic sludge
☒ Asbestos
☐ Other Describe: _____
9. Salvaging permitted: ☐ Yes ☒ No
10. Attendant: ☒ Yes ☐ No Trained operator: ☒ Yes ☐ No
11. Spotters: Yes ☒ No ☐ Number of spotters used: 16
12. Site located in: ☐ Floodplain ☐ Wetlands ☒ Other Uplands

13. Property recorded as a Disposal Site in County Land Records: ☐ Yes ☒ No
14. Days of operation: Monday through Saturday
15. Hours of operation: 8:00 a.m. to 5:00 p.m.
16. Days Working Face covered: Monday through Saturday
17. Elevation of water table: 29 Ft. (NGVD 1929)
18. Number of monitoring wells: 18
19. Number of surface monitoring points: 2
20. Gas controls used: ☒ Yes ☐ No Type controls: ☒ Active ☐ Passive
Gas flaring: ☒ Yes ☐ No Gas recovery: ☐ Yes ☒ No
21. Landfill unit liner type:
- | | |
|---|--|
| <input checked="" type="checkbox"/> Natural soils | <input type="checkbox"/> Double geomembrane |
| <input type="checkbox"/> Single clay liner | <input type="checkbox"/> Geomembrane & composite |
| <input type="checkbox"/> Single geomembrane | <input type="checkbox"/> Double composite |
| <input type="checkbox"/> Single composite | <input type="checkbox"/> None |
| <input checked="" type="checkbox"/> Slurry wall | |
| <input type="checkbox"/> Other Describe: _____ | |
22. Leachate collection method:
- | | |
|--|---|
| <input checked="" type="checkbox"/> Collection pipes | <input type="checkbox"/> Sand layer |
| <input type="checkbox"/> Geonets | <input type="checkbox"/> Gravel layer |
| <input type="checkbox"/> Well points | <input type="checkbox"/> Interceptor trench |
| <input type="checkbox"/> Perimeter ditch | <input type="checkbox"/> None |
| <input type="checkbox"/> Other Describe: _____ | |
23. Leachate storage method:
- ☐ Tanks
- ☐ Surface impoundments
- ☒ Other Describe: None
24. Leachate treatment method:
- | | |
|--|---|
| <input type="checkbox"/> Oxidation | <input type="checkbox"/> Chemical treatment |
| <input type="checkbox"/> Secondary | <input type="checkbox"/> Settling |
| <input type="checkbox"/> Advanced | |
| <input checked="" type="checkbox"/> None | |
| <input type="checkbox"/> Other _____ | |

25. Leachate disposal method:

- | | |
|--|--|
| <input type="checkbox"/> Recirculated | <input checked="" type="checkbox"/> Pumped to WWTP |
| <input type="checkbox"/> Transported to WWTP | <input type="checkbox"/> Discharged to surface water |
| <input type="checkbox"/> Injection well | <input type="checkbox"/> Percolation ponds |
| <input type="checkbox"/> Evaporation | |
| <input type="checkbox"/> Other _____ | |

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: ☒ Yes ☐ No

Type of treatment: Sand filter and/or mechanical filter

Name and Class of receiving water: Cypress Strand, Gates Creek via on-site wetlands Class III.

28. Environmental Resources Permit (ERP) number or status: MSSW Permit #403143.01 _

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Manatee County Government
Utilities Department is aware that statements made in this form and attached
information are an application for a minor modification to Operation Permit from the
Florida Department of Environmental Protection and certifies that the information in
this application is true, correct and complete to the best of his/her knowledge and
belief. Further, the undersigned agrees to comply with the provisions of Chapter
403, Florida Statutes, and all rules and regulations of the Department. It is
understood that the Permit is not transferable, and the Department will be notified
prior to the sale or legal transfer of the permitted facility.

Daniel T. Gray
Signature of Applicant or Agent
Daniel T. Gray
Director Utilities Department
Name and Title (please type)

dan.gray@mymanatee.org
E-Mail address (if available)

4410 66th Street West
Mailing Address

Bradenton, FL 34210
City, State, Zip Code

(941) 792-8811
Telephone Number

Date: August 13, 2008

Attach letter of authorization if agent is not a governmental official, owner, or
corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under
Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this solid waste management
facility have been designed/examined by me and found to conform to engineering
principles applicable to such facilities. In my professional judgment, this
facility, when properly maintained and operated, will comply with all applicable
statutes of the State of Florida and rules of the Department. It is agreed that the
undersigned will provide the applicant with a set of instructions of proper
maintenance and operation of the facility.

Joseph L. Miller
Signature
Joseph L. Miller Project Manager
Name and Title (please type)

39177
Florida Registration Number
(please affix seal)

482 South Keller Road
Mailing Address

Orlando, Florida 32810-6101
City, State, Zip Code

jlmiller@pbsj.com
E-Mail address (if available)

(407) 806-4153
Telephone Number

Date: August 13, 2008



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

An employee-owned company

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

1098103

CHECK DATE

July 25, 2008

PAY Two Hundred Fifty Dollars And 00 Cents*****

TO FDEP (Florida Dept of Env Protection)
Florida Dept of Environmental Protection
United States

AMOUNT

\$250.00

PBS&J

OPERATIONAL ACCOUNT

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

Dan J. Vian

MP

⑈1098103⑈ ⑆061112788⑆ 003299831588⑈



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

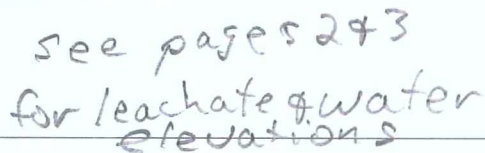
EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

1098103

Date	Invoice #	Description	Discounts	Net Amount
07/24/08	Minor Permit M 0007	Fee for application fo	0.00	250.00
		Total	0.00	250.00

Sheet Number: 1 of 3

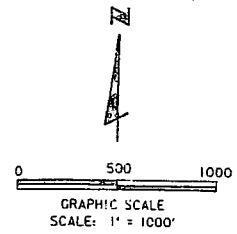
FLORIDA DEPARTMENT OF
ENVIRONMENT



LEGEND:

- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- - - SLURRY WALL
- - - PROPERTY BOUNDARY

PROPERTY LINE



**STAGE II
LANDFILL
(INACTIVE NO SOLID WASTE)**

LIFT STATION
NO. 4

LIFT STATION
NO. 1

**STAGE III
LANDFILL
(ACTIVE)**

**STAGE I LANDFILL
(INACTIVE WITH SOLID WASTE)**

LIFT STATION
NO. 2

STORM
WATER
POND

POND

SLURRYWALL
(TYP.)

POND

POND

POND

NOTE:

SEE M-2 FOR MONITORING
WELL AND PIEZOMETER
INSTALLATION DETAILS.

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

DEC 15 2004

SOUTHWEST DISTRICT
TAMPA

REV. 12/06/04
APRIL 30, 2004



LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY AND
ELEVATION MONITORING
NETWORK

FIG. M-1

U:\OLD\SW\ENV\CAADD\WASTE\MAN\MANATEE\PERMIT-RENEWAL-2004\MONITORINGWALLLOCATION-FIG-M-1.DGN

FIGURE L-7

Manatee County Lena Road Landfill

Monthly Groundwater Gradient Report

Month and Year: JULY 2008

Piezometers Inside Slurry Wall			Gradient Flow	Groundwater Monitoring Wells Outside Slurry Wall		
Piezometer	Riser Elevation	Leachate Elevation		Monitoring Well	Riser Elevation	Groundwater Elevation
P-1	42.68	29.80	inward	GW-1	38.68	33.88
P-2	42.32	28.79	inward	GW-2	40.92	33.77
P-3	40.36	28.08	inward	GW-3	39.40	34.72
P-4	40.78	23.00	inward	GW-4	40.53	33.93
P-5	40.73	22.80	inward	GW-5	39.90	33.08
P-6	40.74	22.56	inward	GW-6	38.95	32.46
P-7	40.60	22.52	inward	GW-7	39.49	31.49
P-8	40.21	22.51	inward	GW-8	39.75	30.60
P-9	39.97	22.61	inward	GW-9	39.65	26.27
P-10	39.86	21.70	inward	GW-10	38.34	30.38
P-11	40.52	23.33	inward	GW-11	38.26	31.66
P-12	43.28	29.61	inward	GW-12	42.09	32.18
P-13	44.78	30.56	inward	GW-13	44.79	32.90
P-14	45.09	30.10	inward	GW-14	39.63	34.57
P-15	45.57	31.03	inward	GW-15	42.33	34.71
P-16	44.67	31.26	inward	GW-16	44.41	35.21
P-17	44.28	30.01	inward	GW-17	42.19	34.38

Comments:

Date Data Collected: July 29, 2008

Form Revised December 6, 2004

**Southwest District
Permitting Application**

New Site

So Susan

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

Existing Site

Site ID:	39884-017 39884-017	New/ <u>Modification</u> /Renewal
Project Name:	Leah Rd Sewer Mod	
Type/Subcode:	SO MM	
Fee submitted:	\$250	<input checked="" type="checkbox"/> correct () incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Applicant Information

Name:	Dan Gray	
Role:	Applicant	
Company:		
Address:	ON File	
City:		Zip Code:
Phone:		

Fee verified by: PELZ

Application Assigned To: PELZ Date: _____



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

An employee-owned company

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

1098103

CHECK DATE

July 25, 2008

PAY Two Hundred Fifty Dollars And 00 Cents*****

AMOUNT

\$250.00

TO FDEP (Florida Dept of Env Protection)
Florida Dept of Environmental Prote
United States

PBS

OPERATIONAL ACCOUNT

Daily J. Vian

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

⑈ 1098103 ⑈ ⑆ 061112788 ⑆ 003299831588 ⑈



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

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

1098103

Date	Invoice #	Description	Discounts	Net Amount
07/24/08	Minor Permit M 0007	Fee for application fo	0.00	250.00
Total			0.00	250.00

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

AUG 20 2008

SOUTHWEST DISTRICT
TAMPA

8/20/08
50

Pelz, Susan

From: Pelz, Susan
Sent: Monday, September 15, 2008 5:13 PM
To: Gus Difonzo (gus.difonzo@co.manatee.fl.us)
Cc: Mike Gore (mike.gore@co.manatee.fl.us); Joe Miller (jlmiller@pbsj.com); Moore, Ronni; Tedder, Richard; Wick, Fred; Hornbrook, Frank
Subject: Lena Rd LF, Mod #39884-015-SO/MM
Attachments: NOP - LenaRd Permit Mod #39884-015-SO-MM.09-15-08.small.pdf; LenaRd Permit Mod #39884-015-SO-MM.09-15-08.small.pdf; Attachment - LenaRd Permit Mod #39884-015-SO-MM.09-15-08.small.pdf

All-

Please find attached modified permit #39884-010-SO/01 that was issued today.

I tried to reduce the file sizes so they would email properly. If the attachments don't come through, you may access the documents on OCULUS found at <http://dwmedms.dep.state.fl.us/Oculus/servlet/login>. Site ID #44795.

Also, there is an error in the description on the Notice of Permit. The modification is not related to submittals dates, but is for a sequence change and editorial corrections to the permit.

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

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

Wk for 2
TO: x Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash *Wk*

Susan Pelz, P.E. *of 9/15/08*

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

DATE: September 15, 2008

Mod #39884-015-SO/MM

FILE NAME: Manatee County Lena Road LF

PERMIT #: 39884-010-SO/01

PROGRAM : Solid Waste

COUNTY : Manatee

TYPE OF PERMIT ACTION: x ISSUE

x MODIFY

PUBLIC NOTICE PERIOD CLOSED? N/A

PETITION FILED? N/A

PERMIT SUMMARY: This permit modification allows a revised sequence of filling and excavation, clarifies storage quantities of special wastes, and revises references to Figures M-1 and L-8A (monitoring points figures). The facility is the existing Lena Road Class I landfill.

PROFESSIONAL RECOMMENDATION: x APPROVE DENY

EVALUATION SUMMARY: The applicant has provided the required information.

Information concerning the construction of active gas extraction wells, and the operation of an existing sludge drier system was included in this modification application, but is being processed with application #39884-016-SC/08 (Stage III LF gas construction).

To 09/15/08, TIH=221	TTP=147		TTP
Application received		02/07/08	
RAI #1 sent		03/06/08	29
Response received		04/23/08	
RAI #2 sent		05/22/08	30
Response received		06/20/08	
Application complete		06/20/08	
Final permit for routing		09/15/08	88

DAY 90/30 FOR THIS ACTION IS: ASAP- Day 90=09/17/08

7007 2680 0000 5032 6491

U.S. Postal Service
CERTIFIED MAILTM RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
*Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	

Marked 9/15/08
 Postmark
 Here

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 66th Street West
Bradenton, FL 34210

PS Form 3800, August 2006 See Reverse for Instructions

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 66th Street West
Bradenton, FL 34210

Lenard CLI Permit Mod
#39884-DIS-SO/MM

2. Article Number
(Transfer from service label)

7007 2680 0000 5032 6491

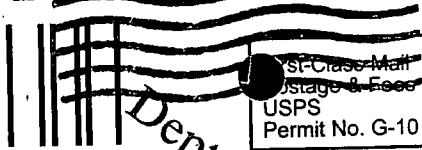
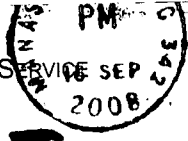
COMPLETE THIS SECTION ON DELIVERY

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

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☒ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

UNITED STATES POSTAL SERVICE



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

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

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

SEP 19 2008
Southwest





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

September 15, 2008

44795	Inserted into OCULUS
Date: 9/15/08	
Initials: [Signature]	

CERTIFIED MAIL 7007 2680 0000 5032 6491
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT

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

RE: Lena Road Class I Landfill
Submittal dates modification
Modification #39884-015-SO/MM to existing
Operation Permit 39884-010-SO/01

Dear Mr. Gray:

Attached is modified Operation Permit 39884-010-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 39884-015-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
A.2.	Existing	Amended	Clarified white goods and scrap metal are related activities at the site
A.2.a(1), A.2.e.	Existing	Amended	Revised permit documentation- Operation Plan
A.2.a(10), C.1.a., C.7.	Existing	Amended	Revised permit documentation- Sequence Plans
A.2.f.	N/A	New	Revised permit documentation- sequence change & operations plan changes
A.3.c.	Existing	Amended	Revised sequence of excavation/filling
C.1.h(7), C.1.h(9)	Existing	Amended	Corrected typographical errors

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
C.1.h(10)	Existing	Amended	Clarified max. storage quantity of electronics
E.3., E.8., E.9.b., E.10	Existing	Amended	Revised Figure M-1 referenced
E.4.a., E.5.d., E.9.a.	Existing	Amended	Clarified water level measurement requirements
E.5.b.	Existing	Amended	Clarified form number
F.3.	Existing	Amended	Revised Figure L-8A referenced

This letter and its attachments constitute a **complete permit** and **replace** all previous permits and permit modifications for the above referenced facility.

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.

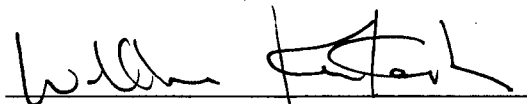
A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

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
Mike Gore, Manatee County, email: mike.gore@co.manatee.fl.us
Joe Miller, P.E., PBSJ, email: jlmiller@pbsj.com
Ronni Moore, OGC Tallahassee, email
Fred Wick, FDEP Tallahassee, email
Richard Tedder, P.E., FDEP Tallahassee, email
(Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on Sept 15, 2008 to the listed persons.
(date stamp)

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 Brantly
Clerk

9/15/2008
Date



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 66th Street West
Bradenton, FL 34210

PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795
Permit No: 39884-010-SO/01
Date of Issue: **06/13/2005**
Expiration Date: **06/13/2010**
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
Landfill

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 on file with the Department and made a part hereof and specifically described as follows:

To operate, monitor and maintain a landfill and related facilities (approximately 316 acres), referred to as the Lena Road Class I Landfill, subject to the specific and general conditions attached, for disposal of solid waste, located 3333 Lena Road, Bradenton, Manatee County, Florida. The specific conditions attached are for the operation, monitoring and maintenance of:

1. Lena Road Class I Landfill Facility and related appurtenances

Replaces Permit No.: 39884-001-SO (as modified)

Includes modification #s: 39884-012-SO/MM, issued 10/11/05
39884-013-SO/MM, issued 07/10/06
39884-014-SO/MM, issued 10/10/2007
39884-015-SO/MM, issued 09/15/2008.

General Information:	
Disposal acres	316 acres
Bottom liner design	Natural Soils (approx. el. +29 ft. NGVD-see Sheet C-3, ref. SC#A.2.a(10)) w/perimeter slurry wall
LCS design	Underdrains and lift stations, slurry wall keyed into the underlying natural clay unit
LDS design	none
Final elevation	+136 feet NGVD [ref. SC#A.2.a(2)]
Slopes	5H:1V, top slope 1%, intermediate cover 2%

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:

GENERAL CONDITIONS:

(General Condition #7, cont'd)

- (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.

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.

GENERAL CONDITIONS:

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

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. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation, monitoring and maintenance of the Class I landfill and related systems (including but not limited to: household hazardous waste collection and storage facility, community drop off center, yard waste processing area, gas management system, stormwater/leachate management system, scrap metal and white goods management, etc.) in accordance with Department rules and the reports, plans and other information prepared by PBS&J (unless otherwise specified) as follows:
Amended 09/15/2008.

a. Application and Engineering Report for Renewal of Landfill Operation Permit for Lena Road Landfill, (3-hole punched bound documents) dated April 30, 2004 (received May 14, 2004), as revised, replaced or amended (information inserted into original) dated September 9, 2004, October 6, 2004, December 14, 2004, February 7, 2005 and March 17, 2005 (received September 10, 2004, October 7, 2004, December 15, 2004, February 16, 2005 and March 18, 2005). This information includes, but is not limited to:

1) Lena Road Landfill Operations Plan, Part L (replaced by Operation Plan listed in SC#A.2.f(1), below)
Amended 09/15/2008.

2) Geotechnical Investigation Requirements, Part J;

3) Household Hazardous Waste Collection and Storage Facility Operation Plan, Attachment L-2;

4) Water Quality and Leachate Monitoring Requirements, Part M;

5) Gas Management System Requirements, Part O;

6) Landfill Closure Requirements, Part P;

7) Long Term Care Requirements, Part R;

8) Financial Responsibility Requirements, Part S;

9) Lena Road Landfill Leachate Collection System High Pressure Water Jetting and Video Pipeline Inspection, Appendix A.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2.a., cont'd)

10) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2014, dated September 2004 (received October 7, 2004)
(replaced by drawings in SC#A.2.e(1) and SC #A.2.f(2), below);

Amended 07/10/2006, 09/15/2008.

b. Response to DEP's First Request for Additional Information (permit file) dated September 9, 2004 and October 6, 2004 (received September 10, 2004 and October 7, 2004);

c. Response to DEP's Second Request for Additional Information (permit file) dated December 14, 2004 and February 7, 2005 (received December 15, 2004 and February 7, 2005);

d. Information regarding leachate collection system modifications, prepared by PBSJ (unless other wise noted) received June 22, 2005, August 15, 2005, September 20, 2005 (except plans, collated into spiral bound documents) including:

1) Application form and transmittal letter received June 22, 2005;

2) Progress Report Slurry Wall Construction, Lena Road Landfill, August 19, 1989 through September 22, 1989, prepared by Ardaman & Associates, received June 22, 2005;

3) Construction Quality Assurance Plan, revised August 12, 2005 (received August 15, 2005);

4) Manatee County Lena Road Landfill Pending Permit No. 39884-012-SO/MM Stage III Landfill Leachate Collection System Modification, August 5, 2005, Calculations,...
(including revised calculations received September 20, 2005) received August 15, 2005; and

5) Construction plans for Lena Road Landfill Stormwater System Improvements, September 2005 (22 sheets), received September 20, 2005.

New 10/11/05.

e. Information regarding sequence of filling changes prepared by PBSJ dated February 2, 2006 (received February 8, 2006) and April 18, 2006 (received April 19, 2006), including:

1) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006
(received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(10), above and are inserted into that document);

New 07/10/2006; Amended 09/15/2008.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2., cont'd)

f. Information regarding sequence of filling changes, updated Operations Plan and drawings for the Landfill Gas Engine Building prepared by PBS&J dated January 31, 2008 (received February 7, 2008), February 13, 2008 (received February 14, 2008), April 16, 2008 (received April 23, 2008) and June 17, 2008 (received June 20, 2008), including:

- 1) Operations Plan (this plan replaces Operation Plan listed in SC #A.2.a(1) and is inserted into that document),
- 2) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006 (received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(10) and SC #A.2.e., above, and are inserted into SC#A.2.a.);

New 09/15/2008.

3. Permit Modifications.

a. 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.

b. Any significant changes to the operations 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.

c. Excavation plans for the proposed remaining portion of Stage III are included on Sheet C-3 of the Fill Sequence Plans [ref. SC#A.2.a(10) as revised]. However, operation in this area shall not be initiated until the certification of construction completion requirements of Specific Condition #B.2 have been completed and approved by the Department.

Amended 07/10/2006, 09/15/2008.

4. Permit Renewal. No later than **November 11, 2009**, 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), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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.

9. **Prohibitions.**

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

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.10.b, below. 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 for incidents within or immediately adjacent to the slurry wall, a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Waste Burning. 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.10.b., below.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition A.9., cont'd)

d. ~~Figure G-1 [ref. SC#A.2.a, Section G] indicates that portions of the western and southwestern part of Stage III are within areas subject to potential flooding. Pursuant to Rule 62-701.340(4)(a), F.A.C., a landfill shall not be located in the 100-year floodplain where it will reduce temporary water storage capacity of the floodplain unless compensating storage is provided. Therefore, disposal operations shall not be conducted in these areas unless documentation from the water management district (SWFWMD) or the Department's ERP Section indicates that compensating storage for the 100-year flood has been provided.~~
Deleted 10/11/05 [this condition satisfied per SWFWMD permit].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit **does not** authorize the construction of the final cover system for any portion of the landfill. Construction of the final cover and related systems shall require a separate permit or major modification of this permit in accordance with Specific Condition #A.3 above.

b. Stage III.

1) This permit authorizes construction (excavation) of the bottom of Stage III disposal area as shown on Sheet C-3 of the Permit Renewal drawings [ref.SC#A.2.a(10)].

2) **At least sixty (60) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a sufficient number of boring logs with supporting calculations to confirm the elevation of the bottom clay layer and demonstrate that the clay layer will not be adversely affected by hydrostatic uplift. The calculations shall demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer. In the event that the excavation activities reveal unexpected subsurface conditions (e.g., the absence of clay, the presence of sandy soils, etc.) additional borings with supporting calculations to demonstrate that the clay layer is adequately impervious and will not be adversely affected by hydrostatic uplift may be required.

3) **At least thirty (30) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a request for modification that includes scaled drawings showing the phased construction of the remaining portions of Stage III and the expected schedule for completion of each phase.
New 10/11/05.

c. **Leachate collection system modification.**

1) Leachate collection 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., the CQA Plan [ref.SC#A.2.d(3)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during leachate collection system construction (including manholes) to monitor construction activities. The leachate collection system modifications shall be constructed in accordance with the information listed in Specific Condition #A.2.d.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

- 2) This permit **does not authorize** the installation, repair, or replacement of geosynthetic liner material.
- 3) In the event that the slurry wall or the anchored edge of the closure liner in Stage I is impacted during construction, the Department shall be notified and corrective actions shall be detailed in accordance with Specific Condition #C.10.b. of this permit.
- 4) 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. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.
- 5) Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.
- 6) 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 onsite 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.1 and #B.2.
- 7) Construction activities such as QA/QC testing of the geosynthetics or soil materials, surveying, 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.
- 8) 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. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

9) The permeability of the clean granular material shall be at least 1×10^{-3} cm/sec. The frequency of testing shall be in accordance with Table 02220-A for "clean common fill." A minimum of three gradation tests on the "clean granular backfill" shall be conducted [ref. §4.2, CQAP].

10) In the event that the slurry wall is impacted by the construction activities, it shall be repaired in accordance with the Specifications and CQA Plan, Section 3.

11) The soils testing laboratory shall be independent of the contractor [see §02220-1.03.A].

12) Soils and other materials excavated from inside the slurry wall shall not be stockpiled or stored outside the slurry wall, or in areas that drain outside the slurry wall [see §02220-2.01.A.2., ref. §02220-3.02.A.8.].

13) Water generated from dewatering activities within the slurry are considered to be leachate and shall be managed appropriately [ref. §02220-3.01.B.1 & 3, §02220-3.03.B.].

New 10/11/05.

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. At the completion of construction, information listed below shall be provided to the Department as part of the Certification of Construction Completion.

a. **Within sixty (60) days** after any specified construction (e.g., excavation of the remaining portion of Stage III) has been completed, the following activities shall be completed and submitted by the permittee. This information shall be approved by the Department prior to operation in this area:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer responsible for the construction 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.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.2.a, cont'd)

3) The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations, and certification by the design engineer to the Department.

4) The engineer of record shall provide a report to verify conformance with the project specifications. The report including all related testing results shall be submitted to the Department along with the completion of construction documents.

5) In the event that the slurry wall was impacted by the construction activities, documentation demonstrating that the integrity of the slurry wall was not adversely affected shall be submitted with the Certification of Construction Completion.

b. The as-built cell floor elevations shall correlate with the calculations required by Specific Condition #B.1.c. and demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer at the as-built elevation.

3. Record Drawings/Documents.

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

- 1) Location of all anchor trenches (if appropriate);
- 2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts at the manholes) and ditch elevations;
- 3) Daily construction reports (CQA and/or general contractor);
- 6) Copies of photographs documenting all stages of the construction project;
- 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken.

New 10/11/05.

b. The as-built survey of the leachate collection system piping invert elevations shall demonstrate that the pipes were constructed at $\pm 5\%$ of the design slope.

New 10/11/05.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Fill Sequence Plans [ref.SC#A.2.a(10) as revised] and the Operations Plan [ref.SC#A.2.a(1)], and any other applicable requirements. This permit authorizes disposal operations in **Stage III and western portion of Stage I only (i.e. Sequences 3-6)**.

Amended 10/11/05, 07/10/2006, 09/15/2008.

b. Waste shall not be disposed (unloaded, spread, or compacted) during non-daylight hours, unless sufficient lighting is provided to adequately assess the materials and remove unacceptable wastes.

c. Sufficient personnel and equipment shall be utilized to adequately operate the facility.

d. Ponded Water/Leachate. All surface water at Lena Road Landfill within the area surrounded by the slurry wall is considered as "stormwater/leachate." In the event of stormwater control problems which allow prolonged (greater than 72 hours) contact of ponded water with waste, the disposal of waste in the affected area shall cease until the leachate has been collected and appropriate drainage has been restored.

e. In the event of equipment breakdown or scheduled maintenance of essential equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence. In the event that sufficient reserve equipment is not obtained **within 24 hours**, the permittee shall notify the Department in accordance with Specific Condition #C.10.b., below and provide a schedule for corrective actions.

f. Unauthorized Wastes. A sufficient number of spotters and operators shall be utilized at the facility for removing unacceptable wastes (such as liquids, biomedical waste, hazardous and unknown wastes, etc.) from the working face. At a minimum, spotting shall occur at the working face from the ground (while off of the equipment) while waste is being disposed.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

g. Special Wastes. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operation Plan [ref. SC#A.2.a(1)] and with Rules 62-701.300(8) and 62-701.520, F.A.C., and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented.

1) Wastes which may include residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored and managed such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters.

2) Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in the Operations Plan. These wastes shall be removed from the site for proper recycling or disposal at the frequency described in the Operation Plan and this permit, unless another frequency for removal is approved in writing by the Department.

3) Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(4), F.A.C., the Operation Plan [ref. SC#A.2.a(1)], and all other applicable federal and Department rules. The location of asbestos disposal shall be recorded in accordance with 40 CFR Part 61.154.

4) Contaminated Soil. Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results demonstrate that the material is not hazardous and that the material has been adequately dewatered prior to delivery so that the material passes the paint filter test.

5) White Goods and other scrap metal. White goods and lawnmowers which may contain liquids (such as oil or gasoline), chlorofluorocarbons (CFCs such as freon), or other gases shall be stored and managed in a manner such that the liquids are contained, and CFCs or other gases are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed and lawn mowers which have had liquids removed shall be clearly marked. White goods shall be removed at least **semi-annually (every 6 months)**.

6) Yard Trash. Yard trash (including clean wood) shall be managed according to Rule 62-709.320, F.A.C., and as described in the Operation Plan [ref. SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.g., cont'd)

7) *Waste Tires.* Waste tires may be stored at the Citizen Drop-off Facility, designated waste tire container near the working face or the waste tire processing facility. The waste tire containers shall be emptied when full.

h. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Household Hazardous Waste Collection and Storage Facility (HHWCSF) Operation Plan [ref. SC#A.2.a(3)], and stored at the HHWCSF.

1) HHW shall be identified, and then segregated for storage within the containment area of the HHWCSF by the end of each collection day. Waste received at the HHWCSF shall be stored within containment areas at all times.

2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.

3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.

4) Incompatible materials shall not be stored in the same area and shall not be bulked together.

5) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.

6) Miscellaneous household hazardous wastes (such as paint, fluorescent light bulbs, chemicals, etc.) shall be managed as described in the HHWCSF Operation Plan [ref. SC#A.2.a(3)].

7) *Lead acid batteries.* Lead acid batteries are accepted at HHWCSF. Any incidental lead acid batteries that are discovered in waste delivered to the site shall be stored in a manner which prevents the discharge of contaminants to the environment. Lead acid batteries shall be removed for appropriate disposal or recycling when a maximum quantity of 300 batteries is stored on-site. [ref. Op. Plan, page L-8]

Amended 09/15/2008.

8) *Used oil.* Used oil is accepted at the HHWCSF. Any used oil that is accepted shall be stored in a manner which prevents discharge to the environment. Used oil shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1000 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.h., cont'd)

9) **Paint.** Paint is accepted and bulked at the HHWCSF. Any paint that is accepted shall be managed and stored in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1,500 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

Amended 09/15/2008.

10) **Electronics.** Electronics to be recycled shall be stored in an undamaged condition, and removed at least quarterly (every 3 months) or when a maximum quantity of 400 units (e.g., TVs, computers, etc.) is stored onsite, whichever occurs sooner. Electronics that have been damaged (such as broken into pieces) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least quarterly (every 3 months). [ref. SC#A.2.a(1) and A.2.a(3)]

Amended 09/15/2008.

i. **Site Inspections.**

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) daily on operating days. Erosion and settlement shall be repaired in accordance with Specific Condition #C.10., below.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.9., below.

3) Litter fences shall be installed near the active face to capture wind-blown litter. In addition, the owner or operator shall inspect the normal traffic areas of the facility for litter **daily on operating days**. The accessible property boundaries shall be inspected for litter **at least weekly**. Litter shall be collected and disposed of in the Class I landfill **at least once per day on operating days**, or more often as necessary. In the event that the litter control program is ineffective, the operator shall notify the Department, and implement additional litter control measures **within 30 days**.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

- j. The top edge of the slurry wall shall be clearly marked in as many locations as required to prevent waste disposal and stormwater/leachate runoff outside the slurry wall. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal and leachate runoff outside the slurry wall.
2. **Operating Personnel.**
 - a. The owner or operator shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.
 - b. Sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. As required by Rule 62-701.500(1), F.A.C., at least one trained operator shall be at the site when either area receives waste. At least one trained spotter shall be at each working face when waste is received and unloaded, to inspect each load of waste from the ground (while off of the equipment), and to identify and properly manage prohibited materials.
 - c. The permittee shall notify the Department in writing of a change of the County's primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Training documentation shall be maintained at the landfill site, and copies shall be provided to the Department upon request.
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. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.
4. **Monitoring of Waste.**
 - a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.4., cont'd)

b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.10.

c. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.

d. Sludges generated from stormwater/leachate system maintenance shall be dewatered and adequately characterized as non-hazardous prior to disposal.

5. **Waste Handling Requirements.** All disposed solid waste shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill area in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class I disposal area, must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired within three days of discovery.

2) The following alternate daily cover materials are acceptable for use at this facility: tarps, soil with up to 25% fines from the yard processing area, shredded tires, ground-up construction and demolition debris including asphalt roofing shingles, dredged soils that have been sufficiently dewatered, and street sweepings.
Amended 10/11/05.

3) Alternate daily cover materials not listed in this Specific Condition are required to be approved by the Department prior to use at the facility

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.5., cont'd)

b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.

1) An intermediate cover of 12 inches of compacted soil in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion.

c. Cover materials which have been previously used for intermediate or initial cover, and which contain solid waste shall not be re-used on areas which discharge outside the slurry wall.

6. Working Face.

a. As required by Rule 62-701.500(7)(d), F.A.C., the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area.

b. Waste shall be spread and compacted in accordance with the Operation Plan. Slopes shall be maintained in accordance with the Operations Drawings [ref.SC#A.2.a(10)]. All waste slopes (including the working face) shall be no greater (steeper) than 5H:1V [ref.SC#A.2.a(2), Part J].

7. Method and Sequence of Filling. The method and sequence of filling shall be in accordance with Fill Sequence Plans [ref.SC#A.2.a(10) as revised], and as described in the Operation Plan, or as otherwise approved in writing by the Department.

Amended 07/10/2006, 09/15/2008.

8. Leachate Management.

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the Operation Plan [ref.SC#A.2.a(1)], the Water Quality and Leachate Monitoring Requirements [ref.SC#A.2.a(4)], and other applicable Department rules.

b. Leachate which has accumulated on the surface in low areas shall be collected and removed, or redirected away from the active disposal areas within 72 hours.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8., cont'd)

c. Leachate Collection and Removal System (LCRS)
Inspections/Maintenance.

1) The Stormwater/Leachate Management System shall minimize stormwater from entering waste filled areas. All stormwater/leachate conveyances shall be inspected daily to verify adequate performance. Conveyances not performing adequately shall be repaired **within three days of discovery**. Documentation of all inspections and repairs shall be kept on file at the facility. [ref. SC#A.2.a(1)]

2) The leachate collection and removal system underdrains and gravity pipelines shall be video inspected or water pressure cleaned to verify adequate performance at least once during this permit period. Force mains shall be video inspected or water pressure cleaned when the pump station performance indicates that the force mains may be obstructed. An inspection report shall be provided and shall include an evaluation of the effectiveness of the system, the locations of cleaning and video inspections (indicated on a Site Plan drawn to scale) with the locations and the cause of all obstructions encountered, proposed corrective actions, and schedule for implementation of corrective actions as appropriate. If the pipes are water-jet cleaned, the report shall include a description of the method of cleaning. Components not performing adequately shall be repaired as necessary. **No later than one hundred and eighty (180) days prior to permit expiration**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) when required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be signed and sealed by a professional engineer, and shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The permittee shall retain a copy of the final report, each inspection report, and each inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

3) Each pump and pump station and related sensors and controller mechanisms shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Operations Plan [ref. SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c, cont'd)

5) Upon the discovery of any defective (obstructed, separated, deformed) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored. Construction of improvements to any part of the LCRS, including significant repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for the construction of improvements shall be substantially equivalent to those required for new construction.

d. Leachate quantities.

1) In the event of a failure of leachate metering or pumping equipment which is not corrected **within 24 hours of detection**, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.10.

2) Leachate generation reports shall be compiled and submitted to the Department **monthly, by the 15th of the following month**. Leachate generation reports shall include the number of open, intermediate and closed acres, the quantities of stormwater/leachate collected, stored, recirculated and disposed off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

9. **Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the 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.

b. In the event that the odor control measures performed at the facility do not sufficiently abate objectionable odors offsite, the permittee shall submit an odor abatement plan to the Department **within sixty (60) days** of initial detection. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.

SPECIFIC CONDITIONS: PART C - Operation Requirements

10. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater/leachate management systems, cover systems and berms, gas monitoring system, 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 stormwater/leachate discharge outside the slurry wall, 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.

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the leachate management systems are damaged or are not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department.

e. Erosion. Intermediately covered disposal areas, or other disposal areas which exhibit significant erosion, shall be repaired according to the following schedule:

1) If the cover materials have eroded such that greater than 50% of the cover in that location has been eroded, then initiate repair of the affected area within three (3) days of discovery; and

2) If waste is exposed, then repair the affected area by the end of the next working day, or within 24 hours after the event that caused the waste to be exposed has ceased.
Amended 10/11/05.

f. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days.**

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Operation Plan and Operating Record.

a. 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.

b. Proposed changes to the current Department-approved **Operation Plan** [ref.SC#A.2.a(1)] shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operation Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.

c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006.

d. The following reports, documents and other information shall be maintained at the facility for reference, and copies shall be provided to the Department upon request:

- 1) Waste quantity reports required by Rule 62-701.500(4), F.A.C.;
- 2) A log of the facility operator's daily inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) A list of incidents of disposal of unacceptable or prohibited wastes. This list should include the generator's name and address, and a description of the waste disposed;
- 5) Operator and spotter training certificates and other documentation;
- 6) Log of odor complaints and corrective action; and
- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.

SPECIFIC CONDITIONS: PART D - Recordkeeping

(Specific Condition #D.1., cont'd)

e. Capacity Report. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than May 1st each year,** a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the waste sideslopes are no greater than the design (5H:1V), that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved Permit Renewal Drawings [ref. SC#A.2.a(10)] and other supporting information [ref. SC#A.2.a(2)].
Amended 10/10/2007.

2. **Waste Records.**

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15th, April 15th, July 15th and October 15th of each year.** Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.

b. Records shall be kept for all recycled electronics, including the quantities sent to each recycler, and related receipts with the name and address of each recycler.

3. **Financial Assurance.** The permittee shall provide 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 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006, 10/10/2007.

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.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (February 1, 2004), as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

b. The field testing, sample collection and preservation and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this landfill shall extend horizontally 100 feet from the limits of the landfill slurry wall (designated as Stage I, II and III landfill areas) or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground water will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C.; and that the minimum criteria listed in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill slurry wall (designated as Stage I, II and III landfill areas).

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

3. **Ground Water Monitor Well Locations.** The ground water monitoring system is designed and constructed in accordance with Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref.SC #A.2.a]. The ground water monitor wells are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**), as follows:

Amended 09/15/2008:

<u>Well Number</u>	<u>WACS Testsite ID No.</u>	<u>Aquifer</u>	<u>Designation</u>
GW-1 *	21593	Surficial	Detection
GW-2 *	21594	Surficial	Detection
GW-3 *	21595	Surficial	Detection
GW-4 *	21596	Surficial	Detection
GW-5 *	21597	Surficial	Detection
GW-6 *	21598	Surficial	Detection
GW-7 *	21599	Surficial	Detection
GW-8 *	21600	Surficial	Detection
GW-9 *	21601	Surficial	Detection
GW-10 *	21602	Surficial	Detection
GW-11 *	21603	Surficial	Detection
GW-12 *	21604	Surficial	Detection
GW-13 *	21605	Surficial	Detection
GW-14 *	21606	Surficial	Detection
GW-15 *	21607	Surficial	Detection
GW-16 *	21608	Surficial	Detection
GW-17 *	21609	Surficial	Detection
BGW-1 *	21610	Surficial	Background

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**); documentation of well construction shall be provided **within 30 days of installation** in accordance with SC #E.5.b., and #E.5.d.; initial sampling shall be conducted **within 7 days of well installation and development** in accordance with SC #E.4.b.; results of initial sampling shall be submitted **within 30 days of receipt from the analytical laboratory**.

All wells are to be clearly labeled and easily visible at all times. The permittee should keep all wells locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards referenced in Chapter 62-522, F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells listed in SC #E.3., and all piezometers listed in SC #E.10., during all sampling events described in SC #E.4.b., #E.4.c., and #E.9.c., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall also include ground water elevations (using a consistent, nationally recognized datum) calculated for each well and the electronic water level monitoring devices installed in the lake pump stations described in SC #E.9.a.

Amended 09/15/2008.

b. An initial sampling event shall be conducted at wells GW-1 through GW-17 and BGW-1 **within 7 days of installation and development** for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix II</u>	

c. Wells GW-1 through GW-17 and BGW-1 shall be sampled **semi-annually**. In accordance with Rule 62-701.510(6)(d), F.A.C., samples collected from these wells shall be analyzed for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

5. **Ground Water Monitor Well Construction.** The following information shall be submitted **within 90 days of installation of all** new or replacement wells, or as stated below:

a. Prior to construction of all new or replacement wells and piezometers (excluding the locations listed in SC #E.3., and #E.10., respectively) the permittee shall request and receive Department approval of a minor permit modification.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (**attached**) [or as replaced by Department Form #62-701.900(30)].

Amended 09/15/2008.

c. **Within one week of well completion and development**, each new or replacement well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and (8)(d), F.A.C

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned) horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, using a consistent, nationally recognized datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

Amended 09/15/2008.

6. **Well Abandonment.**

a. Existing monitor wells and piezometers shall be abandoned **within 90 days of permit issuance**, as follow:

- Surficial aquifer monitor wells - MW-1, MW-2, MW-3, MW-5, MW-6, LR11-1, LR11-2, LR11-3, LR11-4, LR11-5, CW-4, CW-5A, GC-1A, GC-2, GC-3, GC-4A, GC-5, GC-6 and SWR-1
- Confined aquifer monitor wells - SA-2, SA-3, SA-4, SA-5, SA-6, SA-7, SA-8 and SMR-2
- Piezometers - PZ-1, PZ-2, PZ-3A, PZ-4A, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, PZ-11, PZ-12A, PZ-13, PZ-14A, PZ-15A, PZ-15C, PZ-16A, PZ-16B, PZ-17, PZ-18 and PZ-19

b. All wells and piezometers listed in SC #E.6.a., and wells and piezometers not a part of the approved Water Quality Monitoring Plan (not listed in SC #E.3., and #E.10.), are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring, prevention measures and corrective action as described in Rule 62-701.510(7), F.A.C.

8. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from each of the existing leachate pump stations in landfill Stages I and III (designated as Lift Station No. 1, WACS Testsite ID No. 21611; Lift Station No. 2, WACS Testsite ID No. 21612; and, Lift Station No. 3, WACS Testsite ID No. 21613) as shown on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**). Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C., for analysis of the following parameters:

Amended 09/15/2008.

a. **Annual** leachate sampling shall be conducted for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors and sheens
(by observation)

Laboratory parameters

Total ammonia - N	Iron
Bicarbonate	Mercury
Chlorides	Sodium
Nitrate	
Total dissolved solids (TDS)	
<u>Those parameters listed in</u>	
40 CFR Part 258, Appendix II	

b. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** leachate sampling and analysis of the parameters listed in SC #E.8.a., and shall notify the Department in writing. Results of the monthly leachate sampling shall be submitted **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional samples, sampling locations, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the criteria for each parameter established in Chapter 62-302, F.A.C., to demonstrate compliance with Class III (predominantly fresh water) surface water standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Surface water levels shall be measured using the electronic water level monitoring devices installed at the pump stations in the East Lake and South Lake pump stations shown on Figure M-1 received February 14, 2008 (**attached**) during all sampling events described in SC #E.9.b., #E.4.b., and #E.4.c., to a precision of 0.01 foot. Surface water body elevations (using a consistent, nationally recognized datum) recorded at these lake pump stations shall be noted on ground water surface contour maps prepared for each sampling event.

Amended 09/15/2008.

b. Surface water samples shall be collected at downstream and upstream locations in Cypress Strand at SW-1 (WACS Testsite ID No. 1663) and SW-2 (WACS Testsite ID No. 1665), respectively, as located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**). In accordance with Rule 62-701.510(4)(c), F.A.C., the monitoring stations shall be marked and their positions shall be determined by a registered Florida land surveyor in degrees, minutes and seconds of latitude and longitude.

Amended 09/15/2008.

c. **Semi-annual** surface water sampling shall be conducted at SW-1 and SW-2 in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Unionized ammonia	Copper
Total hardness	Iron
Biochemical oxygen demand (BOD ₅)	Mercury
Nitrate	Zinc
Total dissolved solids (TDS)	
Total organic carbon (TOC)	
Fecal coliform	
Total phosphates	
Chlorophyll A	
Total nitrogen	
Chemical oxygen demand (COD)	
Total suspended solids (TSS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. **Gradient Monitoring.** Horizontal hydraulic gradient across the slurry wall shall be measured **monthly** at the following monitoring points ("P" denotes a piezometer located inside the slurry wall and "GW" denotes a monitor well located outside the slurry wall). Monitoring points are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received February 14, 2008 (**attached**).

Amended 09/15/2008.

<u>Interior Monitoring Point</u>	<u>Exterior Monitoring Point</u>
P-1 *	GW-1
P-2 *	GW-2
P-3 *	GW-3
P-4 *	GW-4
P-5 *	GW-5
P-6 *	GW-6
P-7 *	GW-7
P-8 *	GW-8
P-9 *	GW-9
P-10 *	GW-10
P-11 *	GW-11
P-12 *	GW-12
P-13 *	GW-13
P-14 *	GW-14
P-15 *	GW-15
P-16 *	GW-16
P-17 *	GW-17

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**).

These points shall be monitored **monthly** for water levels to an accuracy of 0.01 feet. Results of the monthly monitoring shall be submitted by the **15th day of the following month**. An inward gradient shall be maintained across the slurry wall as described in Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref. SC #A.2.a]. If an outward gradient exists, steps for correcting the gradient shall be included with the related monthly data. Damaged gradient monitoring points shall be replaced within thirty (30) days to ensure continuous monthly monitoring at all points.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Water Quality and Leachate Reporting Requirements.** The permittee shall submit to the Department the results of the semi-annual ground water analyses (SC #E.4.c.) and surface water analyses (SC #E.9.c.) by **January 15th** and **July 15th** of each year for the semi-annual periods July-December and January-June, respectively. The permittee shall submit to the Department the results of the annual leachate analyses (SC #E.8.a.) by **January 15th** of each year. The submittals shall include the certified laboratory report of results, chain of custody sheets and field sampling logs. The reports that transmit the results of ground water analyses shall contain the information listed in Rule 62-701.510(9)(a), F.A.C., including a ground water contour map representing conditions at the time of ground water sampling and a summary of any water quality standards or criteria that are exceeded. The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. There are two options for reporting monitoring data:

Amended 07/10/2006.

a. Paper Reporting. If this option is selected, all ground water, leachate and surface water analytical results shall be reported on Department Form 62-522.900(2), Ground Water Monitoring Report (**attached**) to be consistent with the laboratory report of results. To facilitate entry into the Department's database (Water Assurance Compliance System [WACS]), this form, or an exact replica without change of content, shall be prepared for each sampling location for each sampling event.

b. Electronic Reporting. Alternatively, all ground water, leachate and surface water analytical results may be submitted as an electronic data deliverable (EDD) on floppy diskettes or compact disc media readable by Microsoft Windows. Software ("Validator") has been developed to evaluate and upload the monitoring data into the Department's database (WACS). A copy of this software can be downloaded from the Department's website at the following address: <http://www.dep.state.fl.us/labs/software/index.htm>. Electronic laboratory data must be submitted in a specific format called a tab delimited text file, with the first line of the file being the data field names (Microsoft Excel produces this file format when the "Save As" and "Text(Tab Delimited)" options are selected). Two copies of the EDD, one in tab delimited text format and one as an Adobe portable document format (PDF) must be submitted. A digitally "signed" PDF serves to maintain the integrity of the EDD. Examples of an acceptable text file and additional information are available at the web site listed above. The permittee is encouraged to download Validator and run all data sets to allow the necessary corrections to be completed prior to submittal of an EDD to the Department.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

12. **Monitoring Plan Evaluation.** By May 11, 2007 and November 11, 2009, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 11, 2007	Second half 2004	Second half 2006
November 11, 2009	First half 2006	First half 2009

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 07/10/2006.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NPs 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.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by Rule 62-701.530, F.A.C.

b. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C., (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

c. The results of quarterly monitoring required by Rule 62-701.530(2)(c), F.A.C., shall be submitted to the Department by the following dates:

Measured During

Quarter 1
Quarter 2
Quarter 3
Quarter 4

Report Submitted By

April 15th of each year
July 15th of each year
October 15th of each year
January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** The landfill gas management system is designed and constructed in accordance with Part O ("Gas Management System Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised December 8, 2004 [Ref. SC #A.2.a]. The ambient gas monitoring points and perimeter gas monitoring probes are located on Figure L-8A prepared by PBS&J ("Landfill Gas Migration Monitoring Locations") received June 20, 2008 (**attached**), and shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C.

Ambient Gas Monitoring

Points

GMP-1 *

GMP-2 *

GMP-3 *

GMP-4 *

GMP-5 *

GMP-6 *

GMP-8 *

Location Description

Gary Seeley office (former Litter Enforcement Office)

Shed by soda machine

Main office

Vehicle maintenance area

Hazardous waste area

Equipment trailer

~~Shed by weigh station~~

Perimeter Gas

Monitoring Probe

GMW-1

GMW-2

GMW-3

GMW-4

GMW-5

GMW-6

GMW-7

GMW-8

GMW-9A

GMW-10

GMW-11A

GMW-11B

GMW-11C

GMW-12 *

GMW-13 *

GMW-14 *

GMW-15 *

GMW-16 *

GMW-17 *

Location Description

Stage III landfill perimeter - west

Stage III landfill perimeter - south

Stage I landfill perimeter - west

Stage I landfill perimeter - south

Stage I landfill perimeter - southeast corner

Stage I landfill perimeter - east

Stage II landfill perimeter - east

Stage II landfill perimeter - north

Stage II landfill perimeter - west

Stage III landfill perimeter - north

Stage III landfill perimeter - north

Stage III landfill perimeter - north

Stage III landfill perimeter - north

Stage III landfill - administration facility

Stage III landfill - administration facility

Stage III landfill - administration facility

Stage III landfill - administration facility

Stage III landfill - administration facility

Stage III landfill - administration facility

* = to be monitored until the structures located within the Stage III landfill area are removed, prior to the initiation of fill Sequence 3.

The gas probes are to be clearly labeled and easily visible at all times.
Amended 09/15/2008.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

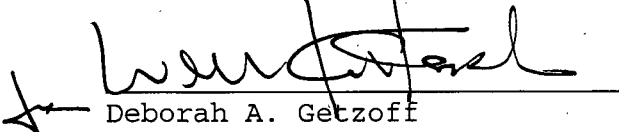
4. **Gas Remediation.** If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department. **Within 7 days** of detection, a gas remediation plan detailing the nature and extent of the problem and the proposed remedy shall be submitted to the Department for approval. 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 Permit Requirements.** 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.
2. **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.	November 11, 2009	Submit permit renewal application
A.9.b., C.10.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
B.1.b(3)	At least 30 days prior to initiation	Submit request to include sequenced construction and operation, and submit schedule
C.8.c(2)	180 days prior to permit expiration	Submit leachate collection system inspection report
C.8.d(2)	By the 15 th each month	Submit leachate generation reports
C.10.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.10.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.1.e.	Annually, by May 1 st each year	Submit topographic survey & capacity calculations, and certification
D.3.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.3.b.	Annually	Submit proof of funding
E.4.c.	Semi-annually	Sample all background and compliance wells
E.11.	By January 15 th and July 15 th each year	Submit sampling results
E.5.b.	Within 90 days of installation	Submit well construction information
E.5.c.	Within 1 week of well completion and development	Sample for parameters in Rule 62-701.510(8)(a) and 62-70.510(8)(d), F.A.C.
E.5.d.	Within 90 days of new or replacement well installation	Submit survey
E.6.a.	Within 90 days of permit issuance	Abandon existing monitoring wells and piezometers identified in E.6.a

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
E.6.b	Within 30 days of abandonment	Submit report of well abandonment
E.9.c	Semi-annually	Sample/analyze surface water
E.11	By January 15 th and July 15 th each year	Submit sampling results
E.10.	Monthly By the 15 th of the following month	Measure hydraulic gradient (horizontal and vertical) Submit gradient results
E.12.	By May 11, 2007 and November 11, 2009	Submit water quality monitoring evaluation report
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th	Submit gas monitoring results
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

LEGEND:

- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- SLURRY WALL
- PROPERTY BOUNDARY
- LOCATION OF ELECTRONIC WATER LEVEL MONITORING DEVICE IN PUMP STATION

PROPERTY LINE



0 500 1000
GRAPHIC SCALE
SCALE: 1" = 1000'

STAGE II
LANDFILL
(INACTIVE NO SOLID WASTE)

LIFT STATION
NO. 4

LIFT STATION
NO. 1

STAGE III
LANDFILL
(ACTIVE)

STAGE I LANDFILL
(INACTIVE WITH SOLID WASTE)

ZONE 1

EAST LAKE
ZONE 2

ZONE 3

SOUTH LAKE
#1

SOUTH LAKE
#2

STORM
WATER
POND

POND

Dept. Of Environmental Protection

FEB 14 2000

Southwest District

NOTE:

SEE M-2 FOR MONITORING
WELL AND PIEZOMETER
INSTALLATION DETAILS.

* ELIMINATED STAFF GAUGES
AND ADDED WATER LEVEL
MONITORING DEVICES

REV. 12/06/04
REV. 4/20/04
REV. 1/28/07*

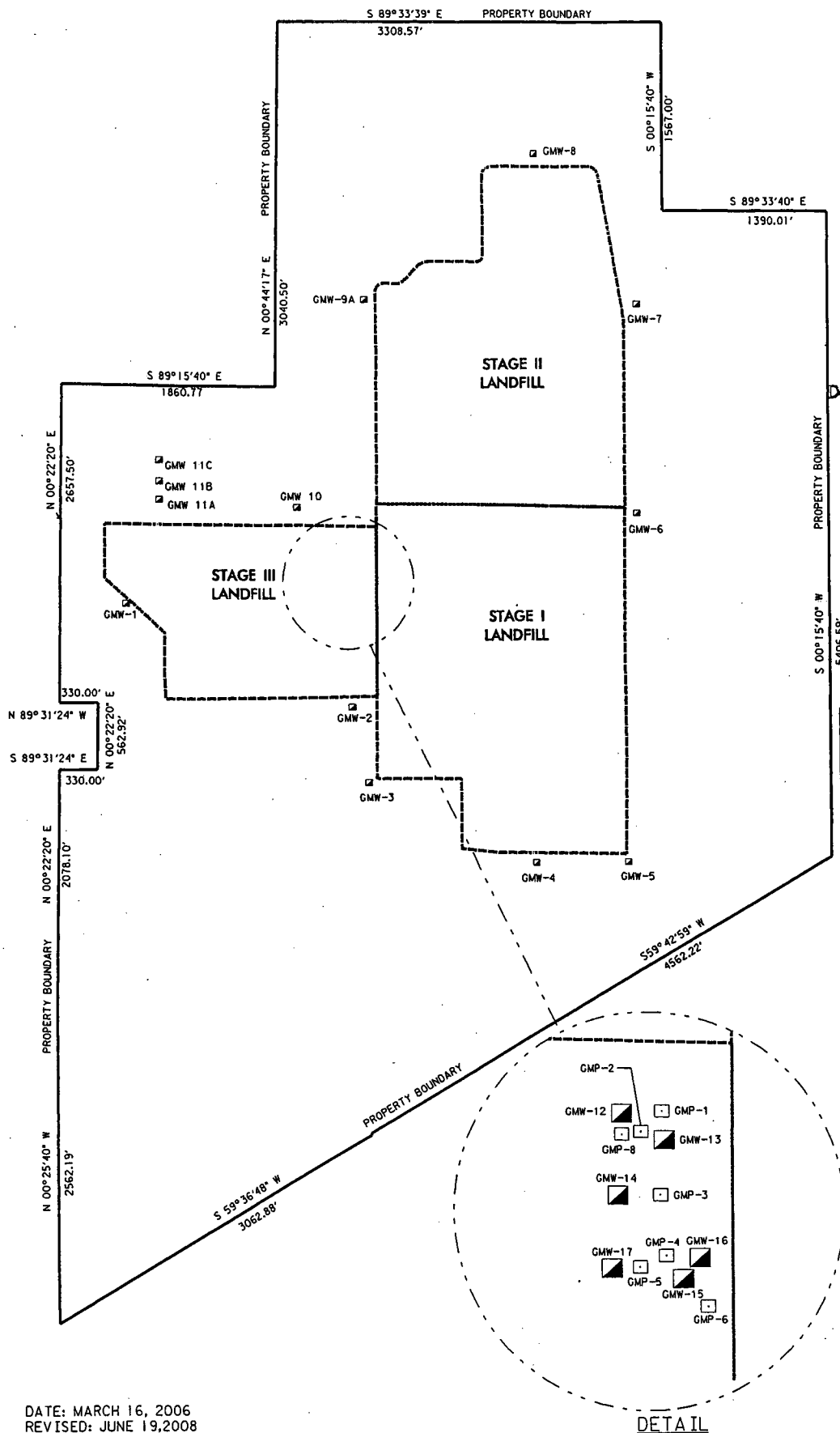
PBS&

LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY AND
ELEVATION MONITORING
NETWORK

FIG. M-1

\\NORLFS1\EC\$VOL\DH\S\ENV\CAD\WASTE\MAN\MANATEE\PERMIT-RENEWAL-2004\MLR.FIG-L-8A.DGN



Dept. Of Environmental Protection

JUN 20 2008

Southwest District

GAS POINT LOCATIONS DESCRIPTIONS

1. GARY SEELEY OFFICE (FORMER: LITTER ENFORCEMENT OFFICE) (BUILDING MOVED TO AREA NEAR EQUIPMENT TRAILER)
2. SHED BY SODA MACHINE
3. MAIN OFFICE
4. VEHICLE MAINTENANCE GARAGE
5. HAZ WASTE AREA
6. EQUIPMENT TRAILER

NOTES:

1. GMW-12 THROUGH GMW-18 AND GMP-1 THROUGH GMP-8 TO BE MONITORED UNTIL FILLING OF STAGE III LANDFILL REACHES THESE POINTS OR BUILDINGS ARE REMOVED

LEGEND:

- C OF SLURRY WALL
- PROPERTY BOUNDARY
- GMW-3 ■ GAS MONITORING WELL
- GMP-1 □ GAS MONITORING POINT

DETAIL

DATE: MARCH 16, 2006
REVISED: JUNE 19, 2008



LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

LANDFILL GAS MIGRATION
MONITORING LOCATIONS

FIG. L-8A

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

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

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

TOTAL DEPTH: _____ DEPTH OF SCREEN: _____ (bls)

(bls)

SCREEN LENGTH: _____ SCREEN SLOT SIZE: _____ SCREEN TYPE: _____

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

REMARKS: (soils information, stratigraphy, etc.): _____

REPORT PREPARED BY: _____

(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

Florida Department of Environmental Protection

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

DEP Form # 62-522.900(2)

Form Title Ground Water Monitoring Report

Effective Date _____

DEP Application No. _____

GROUND WATER MONITORING REPORT

Rule 62-522.600(11)

PART I GENERAL INFORMATION

- (1) Facility Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (2) The GMS Identification Number _____
- (3) DEP Permit Number _____
- (4) Authorized Representative Name _____
Address _____
City _____ Zip _____
Telephone Number () _____
- (5) Type of Discharge _____
- (6) Method of Discharge _____

Certification

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

Date: _____

Signature of Owner or Authorized Representative

PART II QUALITY ASSURANCE REQUIREMENTS

Sample Organization Comp QAP # _____

Analytical Lab Comp QAP # /HRS Certification # _____

 *Comp QAP # /HRS Certification # _____

Lab Name _____

Address _____

Phone Number () _____

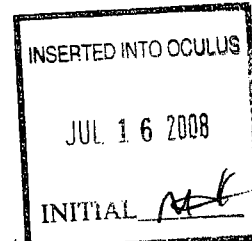


An employee-owned company

June 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
Pending Modification No.: 39884-015-SO/MM, Sequence of Filling to
Landfill Operation Permit No.: 39884-010-SO/01
Response to RFI #2 dated May 22, 2008



Dept. Of Environmental Protection

JUN 20 2008

Dear Ms. Pelz:

Southwest District

This letter is in response to your Request for Information dated May 22, 2008 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. **Section 2, Plan sheets titled, *Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013* (Rules 62-701.320(5) (b), 62-701.320(7)(f), F.A.C.)**
Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.
 - a. *No additional information requested.*
 - b. *Although Sheet C-11A was provided and included an additional N-S cross-section that shows filling Sequences 5 and later, it does not appear that Section D shown on Sheet C-11A is included in plan view sheets C-8, C-9 and C-10. Please provide revised plan view sheets that show the location of Section D.*

Response: Revised drawings C-8, C-9, C-10 and C-11A are included with this response.

- c. *No additional information requested.*
- d. *Sheet C-11. No additional information requested.*
- e. *Sheet C-12. No additional information requested.*

(see 3-ring binder)
FILE

Pelz, Susan

From: Pelz, Susan
Sent: Friday, May 23, 2008 8:19 AM
To: gus.difonzo@mymanatee.org
Cc: Joe Miller (jlmiller@pbsj.com); Morris, John R.; Zell, David; Hilton, Jeff; Gagne, Albert
Subject: Lena Rd LF, Manatee Co, Sequence of filling mod 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.

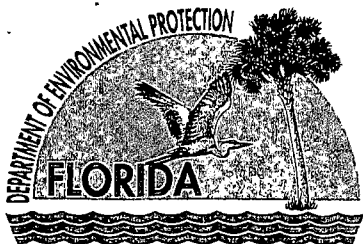
If you have any questions, please call or email (email is better).

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 Permit Mod ...



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

44795	inserted into
Date: 5/23/08	OCULUS
Initials: [signature]	

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

May 22, 2008

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-015-SO/MM, Sequence of Filling
to Operation Permit No. 39884-010-SO/01

Dear Mr. Gray:

This is to acknowledge receipt of the additional information dated April 16, 2008 (received April 23, 2008) submitted in support of your permit modification application, dated February 7, 2008 (received February 7 and 14, 2008), prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to modify the sequence of filling the operations plan 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. Changes to text that has been approved prior to the pending modification should be "accepted" to more clearly identify the changes proposed as part of the pending modification. 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. **Section 2, Plan sheets titled, *Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013*** (Rules 62-701.320(5)(b), 62-701.320(7)(f), F.A.C.) Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

- a. Current topographic survey. No additional information is requested for this item.
- b. Although Sheet C-11A was provided and includes an additional N-S cross-section that shows filling Sequences 5 and later, it does not appear that Section D shown on Sheet C-11A is included in plan view sheets C-8, C-9 and C-10. Please provide revised plan view sheets that show the location of Section D.
- c. Signed and sealed plans. No additional information is requested for this item.
- d. Sheet C-11. No additional information is requested for this item.
- e. Sheet C-12. No additional information is requested for this item.

2. **Section 3, Operations Plan, Rule 62-701.500, F.A.C.** Please be advised that the Operations Plan will be reviewed in its entirety after responses to this item are received.

- a. §2.b., Contingency Operations for Emergencies. Please confirm that the water that is sprayed on hot loads will be managed as leachate. Please provide revised operation plan pages as appropriate.
- b. §2.c., Control of Types of Materials Received.
 - 1) E-scrap. No additional information is requested for this item.
 - 2) Since Section 6.0, Load Checks, indicates that load checks may only be conducted a minimum of three times per week, please confirm if the load checking form will be used for documenting hazardous or other unauthorized wastes in all loads (since all loads must be spotted).
 - 3) Tires. Please revise this section to specify they types of tires that are disposed of in the landfill (e.g., large agricultural equipment tires and forklift tires).
- c. Figure L-4. No additional information is requested for this item.
- d. §8.b., Operation and Maintenance of the LCS. No additional information is requested for this item.

(Comment #2, cont'd)

e. Attachment L-2, Household Hazardous Waste Collection and Storage Facility

- 1) §3.0. No additional information is requested for this item.
- 2) §13.2, *Waste Bulking*. Please specify the disposition of absorbents used to clean up spills.
- 3) §13.4, *Electronic Waste*. No additional information is requested for this item.

f. Please address the comments in Mr. John Morris' memorandum dated May 22, 2008, attached.

3. **Section 4, Landfill Gas Recovery System, Rule 62-701.530(5), F.A.C.**

a. Appendix A, Drawings.

- 1) *Drawing PID-1*. Please clarify if the glycol mixture will be characterized prior to disposal, and specify the disposal location/facility. Please provide a drawing that shows the connection of the condensate drains, LFG knockout and leachate collections system.
- 2) *Drawing M-1*. No additional information is requested for this item.

b. Appendix B. No additional information is requested for this item.

4. **Section 5, Biosolids Dryer System.**

a. No additional information is requested for this item.

b. No additional information is requested for this item.

c. Sheet C-301 (rec'd 4/23/08) provides additional details of the solids drying project and references sections to other sheets.

- 1) *Sheets C-202, C-203, C-204*. These sheets indicate that the LFG piping slopes 0.4%. Please verify that only one condensate knockout is provided in this design (shown on Sheet C-201). Please provide a detail of the condensate knockout and specify where the condensate is discharged.

5. **Notice of Application, Rule 62-701.320(8), F.A.C.** No additional information is requested for this item.

The following comment is for information only at this time and does not require a response:

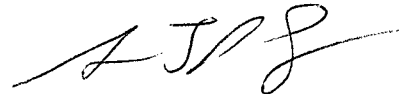
1. Operations Plan Section 10 provides a revised description of the site's stormwater management system. Please note that the Solid Waste Section has not reviewed this information for compliance with Department stormwater rules and issuance of the pending solid waste permit modification does not constitute an approval of any changes to the existing stormwater management system, which may require a permit or permit modification from the Department's ERP Section.

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

attachment

cc: ✓ Gus DiFonzo, Manatee County, 4410 66th Street West, Bradenton, Fl. 34210,
w/attachment (email)
✓ Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101,
w/attachment (email)
✓ John Morris, P.G., FDEP, SW (email)
✓ David Zell, FDEP, Air (email)
✓ Jeff Hilton, P.E., FDEP, DW (email)
✓ Al Gagne, FDEP ERP (email)

Memorandum

Florida Department of Environmental Protection

TO: Susan Pelz, P.E. *SP*
FROM: John R. Morris, P.G. *JRM*
DATE: May 22, 2008
SUBJECT: Lena Road Landfill, Application for Minor Permit Modification
Pending Modification #39884-015, Manatee County
Environmental Monitoring Review Comments (responses to RAI #1)

I have reviewed portions of the materials submitted in support of the referenced application for minor permit modification that were prepared by PBS&J on behalf of Manatee County Solid Waste Division, received April 23, 2008. These materials were prepared in response to the Department's letter dated March 6, 2008 that requested additional information regarding the application for the referenced permit and included the following:

- Letter prepared by PBS&J dated April 16, 2008, re: "Response 1 to RFI #1 dated March 6, 2008" [referred to as the "**PBS&J response letter**"], and transmitting the following:
 - Site Plans entitled "Permit Renewal Drawings for Manatee County – Lena Road Landfill, Fill Sequence Plan, Stage III Landfill, 2004 to 2013," revised March 2008, drawings #C-1 through #C-13, #C-2A, #C-7A, and #C-11A, prepared by PBS&J, signed/sealed April 15, 2008
 - Drawing #C-301 entitled "Utility Conflict Sections and Profiles," prepared by Andritz-Ruthner, Inc., revised June 1, 2007
 - DEP Form #62-701.900(1), Section L – Landfill Operation Requirements, revised April 16, 2008
 - Document entitled "Lena Road Landfill Operations Plan," replacement page #L-51, revised April 16, 2008
 - Document entitled "Household Hazardous Waste Collection & Storage Facility Operations Plan," replacement pages #L2-20 and #L2-21, revised April 16, 2008
 - Figure L-8A entitled "Landfill Gas Migration Monitoring Locations," prepared by PBS&J, dated March 16, 2008

My review focused on the environmental monitoring aspects of the permit modification application and related submittals. The comment numbers presented below are consistent with my memorandum dated March 6, 2008.

Please have the applicant address all of the review comments that do not contain the phrase: "**No additional information is requested.**" Please have the applicant provide revised submittals, or replacement pages to the submittals, that use a strike through and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised or replacement pages (text, figures, tables, appendices, site plans, etc.).

The information requests have been referenced to sections of the permit application and are also referenced to the sections of the supporting document where appropriate, as presented below:

PART L – LANDFILL OPERATION REQUIREMENTS

(Rule 62-701.500, F.A.C.)

1. **L.1., through L.13.d.:** The PBS&J response letter referred to Section L of DEP Form #62-701.900(1) that referenced the corresponding sections of the revised Operations Plan for items #L.1., through L.13.d. Please submit revised page L-34 of the Operations Plan that includes the heading "Section 10.0" to indicate that it is the beginning of the "Storm Water Management" section.

"Protect, Conserve and Manage Florida's Environment and Natural Resources"

2. **L.9.:** The PBS&J response letter referred to a copy of Figure L-8A entitled “Landfill Gas Migration Monitoring Locations,” dated March 16, 2006 [previously submitted as part of the Stage I closure permit] to more legibly present the boundaries of Stages I, II and III, the gas probe locations/identification numbers, and the ambient gas monitoring locations/identification numbers. Please submit revisions to this figure and/or Section 9.0 of the revised Operations Plan to address the following inconsistencies:

- a) Section 9.0a., ¶1 of the revised Operations Plan (page L-28) refers to Figure L-8, the referenced drawing dated March 16, 2006 is identified as Figure L-8A.
- b) Section 9.0a., ¶1 of the revised Operations Plan (page L-28) refers to six interior gas points, the inset table on Figure L-8A [“Gas Point Locations Descriptions”] refers to seven gas points.

3. **L.13.b.:** The PBS&J response letter referred to revised page L-51 of the revised Operations Plan to include preparation of the monthly monitoring report for the gas extraction system and of the quarterly monitoring report for the gas probes and ambient monitoring locations. **No additional information is requested.**

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 for further review.

I can be contacted at 813-632-7600, extension 336, to discuss these comments.

jrm

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 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

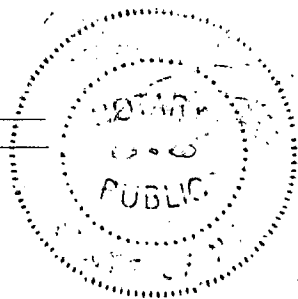
County of Erie

State of New York

Commission Expires 9 - 23 - 2010

Personally Known X or Produced Identification _____

Type of Identification Produced _____



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
MAY 19 2008
SOUTHWEST DISTRICT
TAMPA

**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.

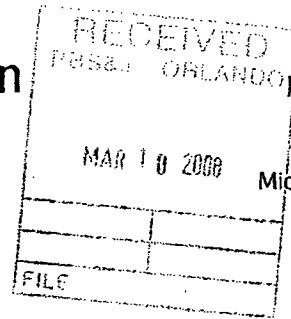
This application is being processed and is available for public inspection during normal business hours, 8:00 a.m. to 5:00 p.m. Monday through Friday, except legal holidays, at the Department of Environmental Protection, Southwest District Office, 13051 N. Telecom parkway, Temple Terrace, Fl. 33637-0926.

04/25/08



Florida Department of Environmental Protection

Southwest District Office
1308 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 66th Street West
Bradenton, Fl. 34210

March 6, 2008

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-0157/MM, Sequence of Filling
to Operation Permit No. 39884-010-SO/01

Dear Mr. Gray:

This is to acknowledge receipt of your permit modification application, dated February 7, 2008 (received February 7 and 14, 2008), prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to modify the sequence of filling the operations plan 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. Changes to text that has been approved prior to the pending modification should be "accepted" to more clearly identify the changes proposed as part of the pending modification. 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. **Section 2, Plan sheets titled, *Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013* (Rules 62-701.320(5)(b), 62-701.320(7)(f), F.A.C.)** Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

a. Please provide a recent topographic survey of the Stage III landfill area.

b. Please provide an additional N-S cross-section that shows filling Sequences 5 and later.

c. Please provide a complete set of reduced-size plan sheets that are signed and sealed. The sheets provided in April 2006 were not signed and sealed.

d. Sheet C-11. Please add direction of filling arrows on Sequence 4A in Section B.

e. Sheet C-12. Please add direction of filling arrows on Sequence 5 in Section C.

2. **Section 3, Operations Plan, Rule 62-701.500, F.A.C.** Please be advised that the Operations Plan will be reviewed in its entirety after responses to this item are received.

a. §2.b., Contingency Operations for Emergencies. Please clarify how the water that is sprayed on hot loads will be managed. Please clarify if the hot loads will be covered with soil after water is sprayed on them.

b. §2.c., Control of Types of Materials Received.

1) E-scrap. Please provide management procedures for the e-scrap, including maximum quantity stored, method of storage, maximum storage time, and disposition of the materials.

2) Please clarify how "events regarding receipt of non-household hazardous waste materials" are recorded and provide a sample of the form, if applicable.

3) Tires. Since disposal of whole waste tires in the landfill is prohibited by Rule 62-701.300(8)(e), F.A.C., please clarify the reference to an onsite tire disposal area.

c. Figure L-4. Please clarify if MH-19A was installed as part of the recent leachate collection system modifications, and provide the date that the construction was complete.

d. §8.b., Operation and Maintenance of the LCS. Please clarify how the flow rates are "checked and confirmed" semi-annually.

(Comment #2, cont'd)

e. Attachment L-2, Household Hazardous Waste Collection and Storage Facility

1) §3.0. Please clarify if the partial containers from the monthly collection events are stored in the hazardous waste building in Stage II or in the hazardous waste storage building near the administration building/Stage III.

2) §13.2, *Waste Bulking*. Please specify the disposition of absorbents used to clean up spills. Please clarify if paint will be "...bulked in a lined 40 yard rolloff" or will be "bulked into a 55-gallon drum."

3) §13.4, *Electronic Waste*. The procedures for management of broken glass from e-scrap was deleted. Please provide these procedures.

f. Please address the comments in Mr. John Morris' memorandum dated March 6, 2008, attached.

3. Section 4, Landfill Gas Recovery System, Rule 62-701.530(5), F.A.C.

a. Appendix A, Drawings.

1) *Drawing PID-1*. Please identify where the condensate drains and other drains shown on this drawing discharge.

2) *Drawing M-1*. Please specify the disposition of the "dirty oil" that is stored in the 700 gallon "dirty oil tank" shown on this drawing.

b. Appendix B. Please provide procedures for operation of the existing flare during construction of the proposed gas engines, i.e., describe how, at what stage of construction and for how long will the flare be taken out of service for the tie-in the newly constructed engines.

4. Section 5, Biosolids Dryer System.

a. Please specify how the larger trash and debris is disposed of "appropriately." (page 5) Please clarify how dust is captured from the "solids stream," and the disposition of the dust.

b. Please clarify where the solids from the process and product storage baghouses are discharged, and specify the disposition of this waste material. (page 7)

c. Please provide the drawing that includes Section C/Sheet C301.

5. 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.

The following comment is for information only at this time and does not require a response:


1. Operations Plan Section 10 provides a revised description of the site's stormwater management system. Please note that the Solid Waste Section has not reviewed this information for compliance with Department stormwater rules and issuance of the pending solid waste permit modification does not constitute an approval of any changes to the existing stormwater management system, which may require a permit or permit modification from the Department's ERP Section.

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 9, 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

attachments

cc: Gus DiFonzo, Manatee County, 4410 66th Street West, Bradenton, Fl. 34210, w/attachments
Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101, w/attachments
John Morris, P.G., FDEP, SW
David Zell, FDEP, Air
Jeff Hilton, P.E., FDEP, DW
Al Gagne, FDEP ERP

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.

From: Jeffrey E. Elick [JElick@kingengineering.com]
Sent: Tuesday, October 09, 2007 3:57 PM
To: JLMiller@pbsj.com]
Cc: Gary.Boeckenstedt@andritz.com
Subject: RE: Information about Manatee Pelletizer

Attachments: PER Partial.pdf; Drawings.pdf

Joe

Here is the information that you requested about the pelletizer project.

There are 6 drawings and the segments of the PER that apply to the landfill permit.

Let Gary know if you need anything else.

Memorandum

Florida Department of Environmental Protection

TO: Susan Pelz, P.E. *JP*
FROM: John R. Morris, P.G. *JRM*
DATE: March 6, 2008
SUBJECT: Lena Road Landfill, Application for Minor Permit Modification
Pending Modification #39884-015, Manatee County
Environmental Monitoring Review Comments (RAI #1)

I have reviewed portions of the materials submitted in support of the application for minor permit modification for the referenced facility prepared by PBS&J, received February 7, 2008 and February 14, 2008, as follow:

- Document entitled "Application and Engineering Report, Minor Modification, Landfill Operation Permit #39984-010-SO/01," dated January 23, 2008, including:
 - Transmittal letter prepared by PBS&J dated January 31, 2008;
 - Section 1 -- DEP Form #62-701.900(1), Application for Permit to Construct, Operate, Modify or Close a Solid Waste Management Facility, signed/sealed January 23, 2008 (Parts A, B and T); and
 - Section 3 -- Document entitled "Lena Road Landfill Operations Plan, Part L, Revision October 2007" [referred to as the "revised Operations Plan"], prepared by Manatee County Government, Utility Operations Department.
- Letter prepared by PBS&J dated February 13, 2008 transmitting revised Figure M-1 entitled "Water Quality and Elevation Monitoring Network," revised January 28, 2008.

My review focused on the environmental monitoring aspects of the permit modification application and related submittals. Additional information is needed to evaluate the adequacy of the monitoring plan. Please have the applicant address the following comments that refer to the permit application form and sections of the supporting documents. Please have the applicant provide revised submittals, or replacement pages to the submittals, that use a strike-through and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised or replacement pages (text, figures, tables, appendices, site plans, etc.).

The information requests have been referenced to sections of the permit application and are also referenced to the sections of the supporting document where appropriate, as presented below:

PART L -- LANDFILL OPERATION REQUIREMENTS

(Rule 62-701.500, F.A.C.)

1. **L.1., through L.13.d.:** Section 3 of the Engineering Report includes the "revised Operations Plan" for the Lena Road Landfill, however Part L of DEP Form #62-701.900(1) was not provided to reference this new document. Please submit Part L that includes these items of the form that reference the "revised Operations Plan."
2. **L.9.:** Please submit a revised Figure L-8 (entitled "Landfill Gas Migration Monitoring Locations") of the "revised Operations Plan" that more legibly presents the boundaries of Stages I, II and III, the gas probe locations/identification numbers, and the ambient gas monitoring locations/identification numbers. Please further revise Figure L-8 to delete note #1 as gas probes #GMW-11B and #GMW-11C have been installed.
3. **L.13.b.:** Please submit revisions to page L-51 of Section 13.0 ("Additional Record Keeping") of the "revised Operations Plan" that include the preparation of the monthly monitoring report for the gas extraction system and of the quarterly monitoring report for the gas probes and ambient monitoring locations.

I can be contacted at 813-632-7600, extension 336, to discuss these comments.
jrm

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



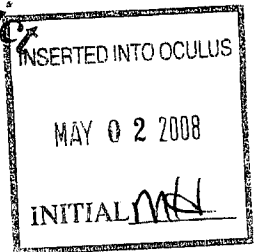
An employee-owned company

April 16, 2008

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

Dept. of Environmental
Protection
APR 23 2008
Southwest District

Re: Lena Road Landfill, Manatee County
GMS ID No.: 4041C02025
Pending Modification No.: 39884-015-SO/MM, Sequence of Filling to
Landfill Operation Permit No.: 39884-010-SO/01
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. ***Section 2, Plan sheets titled, Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013 (Rules 62-701.320(5) (b), 62-701.320(7)(f), F.A.C.)***
Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

- a. *Please provide a recent topographic survey of the Stage III Landfill area.*

Response: Drawing C-2A "Stage III Topographic Survey" was added to the Fill Sequence Plan. This drawing has the Stage III Landfill topography based on a February 10, 2008 aerial photograph.

- b. *Please provide an additional N-S cross-section that shows filling Sequence 5 and later.*

Response: An additional N-S cross section was included on new Drawing C-11A "Cross Sections" and added to the Fill Sequence Plan.

- c. *Please provide a complete set of reduced-size plan sheets that are signed and sealed. The sheets provided in April 2006 were not signed and sealed.*

Response: A complete set of the reduced-size Fill Sequence Plan drawings that are signed and sealed are included with this response.

(See 3-ring binder)
FILE



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 66th Street West
Bradenton, Fl. 34210

March 6, 2008

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-015-SO/MM, Sequence of Filling
to Operation Permit No. 39884-010-SO/01

Dear Mr. Gray:

This is to acknowledge receipt of your permit modification application, dated February 7, 2008 (received February 7 and 14, 2008), prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to modify the sequence of filling the operations plan 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. Changes to text that has been approved prior to the pending modification should be "accepted" to more clearly identify the changes proposed as part of the pending modification. 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.**

INSERTED INTO OCULUS

MAR 17 2008

INITIAL ML

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

1. **Section 2, Plan sheets titled, *Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013*** (Rules 62-701.320(5)(b), 62-701.320(7)(f), F.A.C.) Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

- a. Please provide a recent topographic survey of the Stage III landfill area.
- b. Please provide an additional N-S cross-section that shows filling Sequences 5 and later.
- c. Please provide a complete set of reduced-size plan sheets that are signed and sealed. The sheets provided in April 2006 were not signed and sealed.
- d. Sheet C-11. Please add direction of filling arrows on Sequence 4A in Section B.
- e. Sheet C-12. Please add direction of filling arrows on Sequence 5 in Section C.

2. **Section 3, Operations Plan, Rule 62-701.500, F.A.C.** Please be advised that the Operations Plan will be reviewed in its entirety after responses to this item are received.

- a. §2.b., Contingency Operations for Emergencies. Please clarify how the water that is sprayed on hot loads will be managed. Please clarify if the hot loads will be covered with soil after water is sprayed on them.
- b. §2.c., Control of Types of Materials Received.
 - 1) E-scrap. Please provide management procedures for the e-scrap, including maximum quantity stored, method of storage, maximum storage time, and disposition of the materials.
 - 2) Please clarify how "events regarding receipt of non-household hazardous waste materials" are recorded and provide a sample of the form, if applicable.
 - 3) Tires. Since disposal of whole waste tires in the landfill is prohibited by Rule 62-701.300(8)(e), F.A.C., please clarify the reference to an onsite tire disposal area.
- c. Figure L-4. Please clarify if MH-19A was installed as part of the recent leachate collection system modifications, and provide the date that the construction was complete.
- d. §8.b., Operation and Maintenance of the LCS. Please clarify how the flow rates are "checked and confirmed" semi-annually.

(Comment #2, cont'd)

e. Attachment L-2, Household Hazardous Waste Collection and Storage Facility

- 1) §3.0. Please clarify if the partial containers from the monthly collection events are stored in the hazardous waste building in Stage II or in the hazardous waste storage building near the administration building/Stage III.
- 2) §13.2, *Waste Bulking*. Please specify the disposition of absorbents used to clean up spills. Please clarify if paint will be "...bulked in a lined 40 yard rolloff" or will be "bulked into a 55-gallon drum."
- 3) §13.4, *Electronic Waste*. The procedures for management of broken glass from e-scrap was deleted. Please provide these procedures.

f. Please address the comments in Mr. John Morris' memorandum dated March 6, 2008, attached.

3. **Section 4, Landfill Gas Recovery System, Rule 62-701.530(5), F.A.C.**

a. Appendix A, Drawings.

- 1) *Drawing PID-1*. Please identify where the condensate drains and other drains shown on this drawing discharge.
- 2) *Drawing M-1*. Please specify the disposition of the "dirty oil" that is stored in the 700 gallon "dirty oil tank" shown on this drawing.

b. Appendix B. Please provide procedures for operation of the existing flare during construction of the proposed gas engines, i.e., describe how, at what stage of construction and for how long will the flare be taken out of service for the tie-in the newly constructed engines.

4. **Section 5, Biosolids Dryer System.**

a. Please specify how the larger trash and debris is disposed of "appropriately." (page 5) Please clarify how dust is captured from the "solids stream," and the disposition of the dust.

b. Please clarify where the solids from the process and product storage baghouses are discharged, and specify the disposition of this waste material. (page 7)

c. Please provide the drawing that includes Section C/Sheet C301.

5. **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.

The following comment is for information only at this time and does not require a response:

1. Operations Plan Section 10 provides a revised description of the site's stormwater management system. Please note that the Solid Waste Section has not reviewed this information for compliance with Department stormwater rules and issuance of the pending solid waste permit modification does not constitute an approval of any changes to the existing stormwater management system, which may require a permit or permit modification from the Department's ERP Section.

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 9, 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

attachments

cc: Gus DiFonzo, Manatee County, 4410 66th Street West, Bradenton, Fl. 34210, w/attachments
Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101, w/attachments
John Morris, P.G., FDEP, SW
David Zell, FDEP, Air
Jeff Hilton, P.E., FDEP, DW
Al Gagne, FDEP ERP

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

TO: Susan Pelz, P.E. *JP*
FROM: John R. Morris, P.G. *JRM*
DATE: March 6, 2008
SUBJECT: Lena Road Landfill, Application for Minor Permit Modification
Pending Modification #39884-015, Manatee County
Environmental Monitoring Review Comments (RAI #1)

I have reviewed portions of the materials submitted in support of the application for minor permit modification for the referenced facility prepared by PBS&J, received February 7, 2008 and February 14, 2008, as follow:

- Document entitled "Application and Engineering Report, Minor Modification, Landfill Operation Permit #39984-010-SO/01," dated January 23, 2008, including:
 - Transmittal letter prepared by PBS&J dated January 31, 2008;
 - Section 1 -- DEP Form #62-701.900(1), Application for Permit to Construct, Operate, Modify or Close a Solid Waste Management Facility, signed/sealed January 23, 2008 (Parts A, B and T); and
 - Section 3 -- Document entitled "Lena Road Landfill Operations Plan, Part L, Revision October 2007" [referred to as the "revised Operations Plan"], prepared by Manatee County Government, Utility Operations Department.
- Letter prepared by PBS&J dated February 13, 2008 transmitting revised Figure M-1 entitled "Water Quality and Elevation Monitoring Network," revised January 28, 2008.

My review focused on the environmental monitoring aspects of the permit modification application and related submittals. Additional information is needed to evaluate the adequacy of the monitoring plan. Please have the applicant address the following comments that refer to the permit application form and sections of the supporting documents. Please have the applicant provide revised submittals, or replacement pages to the submittals, that use a strike through and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised or replacement pages (text, figures, tables, appendices, site plans, etc.).

The information requests have been referenced to sections of the permit application and are also referenced to the sections of the supporting document where appropriate, as presented below:

PART L - LANDFILL OPERATION REQUIREMENTS

(Rule 62-701.500, F.A.C.)

1. **L.1., through L.13.d.:** Section 3 of the Engineering Report includes the "revised Operations Plan" for the Lena Road Landfill, however Part L of DEP Form #62-701.900(1) was not provided to reference this new document. Please submit Part L that includes these items of the form that reference the "revised Operations Plan."
2. **L.9.:** Please submit a revised Figure L-8 (entitled "Landfill Gas Migration Monitoring Locations") of the "revised Operations Plan" that more legibly presents the boundaries of Stages I, II and III, the gas probe locations/identification numbers, and the ambient gas monitoring locations/identification numbers. Please further revise Figure L-8 to delete note #1 as gas probes #GMW-11B and #GMW-11C have been installed.
3. **L.13.b.:** Please submit revisions to page L-51 of Section 13.0 ("Additional Record Keeping") of the "revised Operations Plan" that include the preparation of the monthly monitoring report for the gas extraction system and of the quarterly monitoring report for the gas probes and ambient monitoring locations.

I can be contacted at 813-632-7600, extension 336, to discuss these comments.
jrm

"Protect, Conserve and Manage Florida's Environment and Natural Resources"



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

Sequence #
gts op mod
015 2/7/08

Dept. of Environmental
Protection

FEB 07 2008

Southwest District

Re: Lena Road Landfill, Manatee County
GMS ID No.: 4041C02025
Application for a Minor Permit Modification to
Landfill Operation Permit No.: 39884-010-SO/01

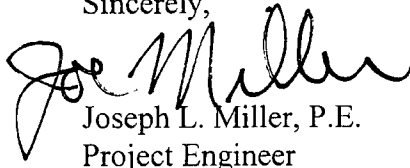
Dear Ms. Pelz:

Enclosed please find for the above referenced permit application a check for the application fee in the amount of \$250, and four complete applications. This application is for a minor modification to the Landfill Operation Permit to:

1. Update the Stage III Landfill Fill Sequence Plan which had to be revised due to the delay in completing the new administration facility. This prevented the removal of the existing administration facility that is located within the limits of the Stage III Landfill. The revised filling plan added another lift to the currently filled area prior to moving laterally in the Stage III Landfill.
2. Update the Landfill Operation Plan
3. Add to the Site Plan the Landfill Gas Engine Building for converting landfill gas to electricity, the Wastewater Plant Sludge Drier that will use landfill gas to dry sludge and the expanded yard waste processing area located within Stage II Landfill.
4. Correct typographic errors in the specific conditions of the Landfill Operation Permit
5. Apply for the Operation Permit for the Stage III Landfill Gas Collection System. Concurrent with this application we are submitting an application for the construction permit for the Stage III landfill Gas Collection System. We would like to add the landfill gas operation to the Landfill Operation Permit.

If you have any questions, please call me at 407-806-4153, or e-mail me at 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
SOLID WASTE MANAGEMENT FACILITY
GMS ID No: 4041C02025**

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

**APPLICATION AND ENGINEERING REPORT
MINOR MODIFICATION
LANDFILL OPERATION PERMIT
No.: 39884-010-SO/01**

January 23, 2008

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB 07 2008
SOUTHWEST DISTRICT
TAMPA

TABLE OF CONTENTS

Section 1	Permit Application
Section 2	Revised Fill Sequence Plan for the Stage III Landfill including the revised Site Plan
Section 3	Updated Lena Road Landfill Operation Plan Part L
Section 4	Copy of the Title V Air Permit Construction Application for the Landfill Gas to Electricity Facility
Section 5	Copy of Engineering Report and Drawings for the Biosolids Dryer System located at the Manatee County Wastewater Treatment Facility that will use landfill gas to dry the biosolids.
Section 6	Corrections of Specific Permit Conditions



An employee-owned company

February 13, 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 14 2008

Southwest District

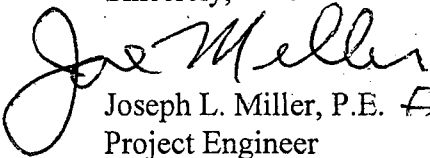
Re: Lena Road Landfill, Manatee County
GMS ID No.: 4041C02025
Application for a Minor Permit Modification to
Landfill Operation Permit No.: 39884-010-SO/01

Dear Ms. Pelz:

For the above referenced permit application we forgot to include a revised figure we want to include in the permit modification. Enclosed are four copies of revised Figure M-1 Water Quality and Elevation Monitoring Network. The figure was revised to delete the four staff gauges in the waste water plant's treated water lakes located south of the landfill. The gauges were replaced with electronic water level monitoring devices installed in the lake pump stations. The water elevation in the pump stations is the same as in the lakes.

If you have any questions, please call me at 407-806-4153, or e-mail me at jlmiller@pbsj.com.

Sincerely,

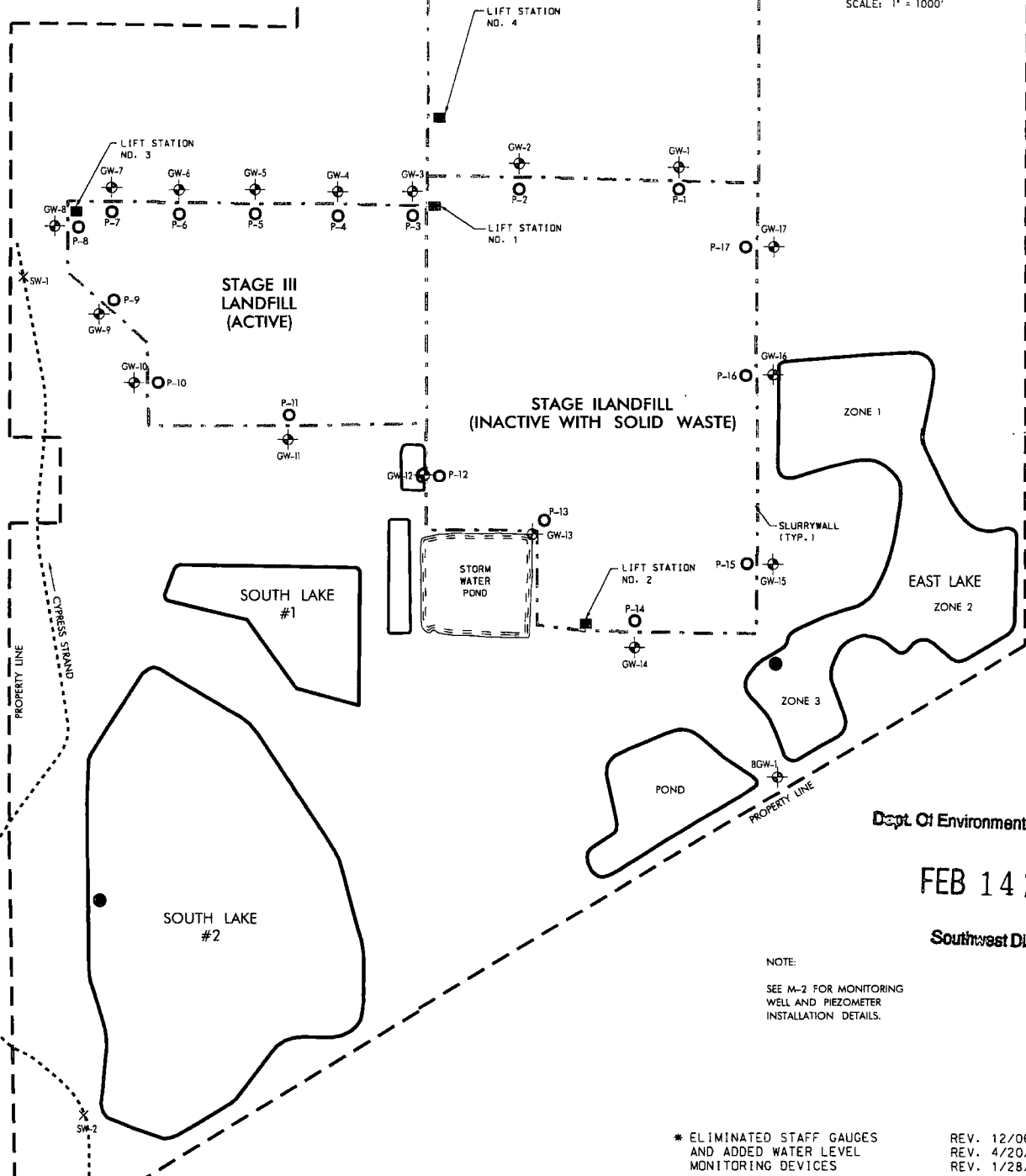
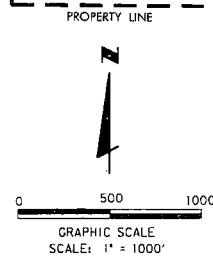

Joseph L. Miller, P.E. #39177
Project Engineer

Cc: Gus DiFonzo, Manatee County Solid Waste w/2 copies
John Morris, FDEP w/1 copy

U:\SO\Projects\Manatee County\Permit Mod 2008\Susan Pelz Ltr February 13 2008.doc

LEGEND:

- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- SLURRY WALL
- PROPERTY BOUNDARY
- LOCATION OF ELECTRONIC WATER LEVEL MONITORING DEVICE IN PUMP STATION



Dept. Of Environmental Protection

FEB 14 2008

Southwest District

NOTE:

SEE M-2 FOR MONITORING WELL AND PIEZOMETER INSTALLATION DETAILS.

* ELIMINATED STAFF GAUGES AND ADDED WATER LEVEL MONITORING DEVICES

REV. 12/06/04
REV. 4/20/04
REV. 1/28/07*



LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY AND
ELEVATION MONITORING
NETWORK

FIG. M-1

\\ORLFS1\EC\OLDH-S\ENV\CAD\WASTE\MAN\MANATEE\LENARD\PERMIT-RENEWAL-2004\SOUTH_POND-1.DGN

**Southwest District
Permitting Application**

New Site

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

39884-015 Existing Site

Site ID:	<u>126654-003</u>	<u>Modification</u>	Renewal
Project Name:	LENA Rd Sequence Mod		
Type/Subcode:	50 MM		
Fee submitted:	\$250	<input checked="" type="checkbox"/> correct	() incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____			

Applicant Information

Name:	Dan Gray		
Role:	Applicant		
Company:	Manatee Co		
Address:	ON file		
City:	ON file	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

1075512

CHECK DATE

January 24, 2008

PAY Two Hundred Fifty Dollars And 00 Cents*****

AMOUNT \$250.00

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

OPERATIONAL ACCOUNT

Dolly Van

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE

⑈1075512⑈ ⑆061112788⑆ 003299831588⑈



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

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

1075512

Invoice #	Date	Description	Discounts	Net Amount
Permit App	01/09/08	0007 Permit app fee for minor p	0.00	250.00

Dept. of Environment
Protection

FEB 07 2008

Southwest District

2/7/08
So

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

Tracking:

Recipient

Miller, Joseph L

gus.difonzo@mymanatee.org

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

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Richard W. Cantrell, Interim District Director

FROM/THROUGH:

William Kutash *For WLC*, ENVIRONMENTAL ADMINISTRATOR
Susan Pelz, P.E. *10/9/07*, SOLID WASTE MANAGER

DATE: October 9, 2007

Mod #39884-014-SO/MM

FILE NAME: Manatee County Lena Road LF

PERMIT #: 39884-010-SO/01

PROGRAM : Solid Waste

COUNTY : Manatee

TYPE OF PERMIT ACTION: X ISSUE

X MODIFY

PUBLIC NOTICE PERIOD CLOSED? N/A

PETITION FILED? N/A

PERMIT SUMMARY: This permit is to change submittal dates for financial assurance cost estimates and annual topographic survey and capacity calculations for the existing Lena Road Class I landfill.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The modification was originally submitted to relocate the yard trash processing facility at the landfill from within Stage II to outside the slurry wall. Two requests for information were sent to the county and the county subsequently decided to not relocate the yard trash processing facility and withdrew that modification request. Since the YTPF will continue to be located within the slurry wall (Stage II), arsenic impacts possibly related to the yard trash processing facility are continuing to be addressed separately.

The date changes were administrative in nature and were incorporated into this pending modification instead of requiring a separate modification.

To 10/09/07, TIH=294	TTP=145		TTP
Application received		12/19/06	
RAI #1 sent		01/18/07	30
Response received		02/23/07	
RAI #2 sent		03/22/07	30
Response received		07/17/07	
Application complete		07/17/07	
Final permit for routing		10/09/07	85

DAY 90/30 FOR THIS ACTION IS: ASAP- Day 90=10/14/07

7007 0710 0005 3635 5560

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 or PO Box No.

City, State, ZIP+4

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

PS Form 3800, August 2006

See Reverse for Instructions

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ISSUED Permit Mod #39884-014-50/MM

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b to posting Permit # 39884-014-50
- Print your name and address on the reverse of this form so that we can return this card to you. *Lena Road Ct 1, UF*
- 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):

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

7007 0710 0005 3635 5560

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

4b. Service Type

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

7. Date of Delivery

10-11-07

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)

X. Meyers

PS Form 3811, December 1994

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Florida Department of Environmental Protection
Southwest District
c/o Susan Pelz – Solid Waste
13051 North Telecom Parkway

Temple Terrace, FL 33637-0926 ~~Dept. of Environmental Protection~~

OCT 12 2007

Southwest District



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 10, 2007

CERTIFIED MAIL 7007 0710 0005 3635 5560
RETURN RECEIPT REQUESTED

NOTICE OF PERMIT

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

RE: Lena Road Class I Landfill
Submittal dates modification
Modification #39884-014-SO/MM to existing
Operation Permit 39884-010-SO/01

Dear Mr. Gray:

Attached is modified **Operation Permit 39884-010-SO/01**, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 39884-014-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
D.1.e.	Existing	Amended	Revised annual topographic survey & capacity submittal date to May 1 st each year
D.3.a.	Existing	Amended	Revised financial assurance cost estimates submittal date to September 1 st each year

This letter and its attachments constitute a **complete permit** and **replace** all previous permits and permit modifications for the above referenced facility.

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.

INSERTED INTO OCULUS

OCT 12 2007

INITIAL *ms*

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



Richard W. Cantrell
Interim District Director
Southwest District

RWC/sjp
Attachment

Copies furnished to:

Manatee County Board of County Commissioners
Manatee County Notification List
Gus DiFonzo, Manatee Co., 4410 66th St. West, Bradenton, Fl. 34210
Ronni Moore, OGC Tallahassee
Fred Wick, FDEP Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
(Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on October 10, 2007 to the listed persons.
(date stamp)

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 Blau 10/10/2007
Clerk Date



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 66th Street West
Bradenton, FL 34210

PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795
Permit No: 39884-010-SO/01
Date of Issue: **06/13/2005**
Expiration Date: **06/13/2010**
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
Landfill

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 on file with the Department and made a part hereof and specifically described as follows:

To operate, monitor and maintain a landfill and related facilities (approximately 316 acres), referred to as the Lena Road Class I Landfill, subject to the specific and general conditions attached, for disposal of solid waste, located 3333 Lena Road, Bradenton, Manatee County, Florida. The specific conditions attached are for the operation, monitoring and maintenance of:

1. Lena Road Class I Landfill Facility and related appurtenances

Replaces Permit No.: 39884-001-SO (as modified)

Includes modification #s: 39884-012-SO/MM, issued 10/11/05
39884-013-SO/MM, issued 07/10/06
39884-014-SO/MM, issued 10/10/2007.

General Information:	
Disposal acres	316 acres
Bottom liner design	Natural Soils (approx. el. +29 ft. NGVD-see Sheet C-3, ref.SC#A.2.a(10)) w/perimeter slurry wall
LCS design	Underdrains and lift stations, slurry wall keyed into the underlying natural clay unit
LDS design	none
Final elevation	+136 feet NGVD [ref.SC#A.2.a(2)]
Slopes	5H:1V, top slope 1%, intermediate cover 2%

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:

GENERAL CONDITIONS:

(General Condition #7, cont'd)

- (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.

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.

GENERAL CONDITIONS:

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

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. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation, monitoring and maintenance of the Class I landfill and related systems (including but not limited to: household hazardous waste collection and storage facility, community drop off center, yard waste processing area, gas management system and stormwater/leachate management system, etc.) in accordance with the reports, plans and other information prepared by PBS&J (unless otherwise specified) as follows:

a. Application and Engineering Report for Renewal of Landfill Operation Permit for Lena Road Landfill, (3-hole punched bound documents) dated April 30, 2004 (received May 14, 2004), as revised, replaced or amended (information inserted into original) dated September 9, 2004, October 6, 2004, December 14, 2004, February 7, 2005 and March 17, 2005 (received September 10, 2004, October 7, 2004, December 15, 2004, February 16, 2005 and March 18, 2005). This information includes, but is not limited to:

- 1) Lena Road Landfill Operations Plan, Part L;
- 2) Geotechnical Investigation Requirements, Part J;
- 3) Household Hazardous Waste Collection and Storage Facility Operation Plan, Attachment L-2;
- 4) Water Quality and Leachate Monitoring Requirements, Part M;
- 5) Gas Management System Requirements, Part O;
- 6) Landfill Closure Requirements, Part P;
- 7) Long Term Care Requirements, Part R;
- 8) Financial Responsibility Requirements, Part S;
- 9) Lena Road Landfill Leachate Collection System High Pressure Water Jetting and Video Pipeline Inspection, Appendix A.
- 10) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2014, dated September 2004 (received October 7, 2004) (replaced by drawings in SC#A.2.e(1), below); Amended 07/10/2006.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2., cont'd)

b. Response to DEP's First Request for Additional Information (permit file) dated September 9, 2004 and October 6, 2004 (received September 10, 2004 and October 7, 2004);

c. Response to DEP's Second Request for Additional Information (permit file) dated December 14, 2004 and February 7, 2005 (received December 15, 2004 and February 7, 2005);

d. Information regarding leachate collection system modifications, prepared by PBSJ (unless other wise noted) received June 22, 2005, August 15, 2005, September 20, 2005 (except plans, collated into spiral bound documents) including:

1) Application form and transmittal letter received June 22, 2005;

2) Progress Report Slurry Wall Construction, Lena Road Landfill, August 19, 1989 through September 22, 1989, prepared by Ardaman & Associates, received June 22, 2005;

3) Construction Quality Assurance Plan, revised August 12, 2005 (received August 15, 2005);

4) Manatee County Lena Road Landfill Pending Permit No. 39884-012-SO/MM Stage III Landfill Leachate Collection System Modification, August 5, 2005, Calculations,... (including revised calculations received September 20, 2005) received August 15, 2005; and

5) Construction plans for Lena Road Landfill Stormwater System Improvements, September 2005 (22 sheets), received September 20, 2005.

New 10/11/05.

e. Information regarding sequence of filling changes prepared by PBSJ dated February 2, 2006 (received February 8, 2006) and April 18, 2006 (received April 19, 2006), including:

1) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006 (received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(1), above);

New 07/10/2006.

and in accordance with Department rules.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

3. Permit Modifications.

a. 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.

b. Any significant changes to the operations 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.

c. Excavation plans for the proposed remaining portion of Stage III are included on Sheet C-3 of the Fill Sequence Plans [ref. SC#A.2.e.]. However, operation in this area shall not be initiated until the certification of construction completion requirements of Specific Condition #B.2 have been completed and approved by the Department.

Amended 07/10/2006.

4. Permit Renewal. No later than **November 11, 2009**, 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), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts.

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.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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.

9. **Prohibitions.**

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

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.10.b, below. 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 for incidents within or immediately adjacent to the slurry wall, a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Waste Burning. 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.10.b., below.

d. ~~Figure G-1 [ref. SC#A.2.a, Section G] indicates that portions of the western and southwestern part of Stage III are within areas subject to potential flooding. Pursuant to Rule 62-701.340(4)(a), F.A.C., a landfill shall not be located in the 100 year floodplain where it will reduce temporary water storage capacity of the floodplain unless compensating storage is provided. Therefore, disposal operations shall not be conducted in these areas unless documentation from the water management district (SWFWMD) or the Department's ERP Section indicates that compensating storage for the 100 year flood has been provided.~~
Deleted 10/11/05 [this condition satisfied per SWFWMD permit].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit **does not** authorize the construction of the final cover system for any portion of the landfill. Construction of the final cover and related systems shall require a separate permit or major modification of this permit in accordance with Specific Condition #A.3 above.

b. Stage III.

1) This permit authorizes construction (excavation) of the bottom of Stage III disposal area as shown on Sheet C-3 of the Permit Renewal drawings [ref. SC#A.2.a(10)].

2) **At least sixty (60) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a sufficient number of boring logs with supporting calculations to confirm the elevation of the bottom clay layer and demonstrate that the clay layer will not be adversely affected by hydrostatic uplift. The calculations shall demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer. In the event that the excavation activities reveal unexpected subsurface conditions (e.g., the absence of clay, the presence of sandy soils, etc.) additional borings with supporting calculations to demonstrate that the clay layer is adequately impervious and will not be adversely affected by hydrostatic uplift may be required.

3) **At least thirty (30) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a request for modification that includes scaled drawings showing the phased construction of the remaining portions of Stage III and the expected schedule for completion of each phase.
New 10/11/05.

c. **Leachate collection system modification.**

1) Leachate collection 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., the CQA Plan [ref. SC#A.2.d(3)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during leachate collection system construction (including manholes) to monitor construction activities. The leachate collection system modifications shall be constructed in accordance with the information listed in Specific Condition #A.2.d.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

- 2) This permit **does not authorize** the installation, repair, or replacement of geosynthetic liner material.
- 3) In the event that the slurry wall or the anchored edge of the closure liner in Stage I is impacted during construction, the Department shall be notified and corrective actions shall be detailed in accordance with Specific Condition #C.10.b. of this permit.
- 4) 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. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.
- 5) Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.
- 6) 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 onsite 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.1 and #B.2.
- 7) Construction activities such as QA/QC testing of the geosynthetics or soil materials, surveying, 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.
- 8) 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. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

- 9) The permeability of the clean granular material shall be at least 1×10^{-3} cm/sec. The frequency of testing shall be in accordance with Table 02220-A for "clean common fill." A minimum of three gradation tests on the "clean granular backfill" shall be conducted [ref. §4.2, CQAP].
- 10) In the event that the slurry wall is impacted by the construction activities, it shall be repaired in accordance with the Specifications and CQA Plan, Section 3.
- 11) The soils testing laboratory shall be independent of the contractor [see §02220-1.03.A].
- 12) Soils and other materials excavated from inside the slurry wall shall not be stockpiled or stored outside the slurry wall, or in areas that drain outside the slurry wall [see §02220-2.01.A.2., ref. §02220-3.02.A.8.].
- 13) Water generated from dewatering activities within the slurry are considered to be leachate and shall be managed appropriately [ref. §02220-3.01.B.1 & 3, §02220-3.03.B.].

New 10/11/05.

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. At the completion of construction, information listed below shall be provided to the Department as part of the Certification of Construction Completion.

a. **Within sixty (60) days** after any specified construction (e.g., excavation of the remaining portion of Stage III) has been completed, the following activities shall be completed and submitted by the permittee. This information shall be approved by the Department prior to operation in this area:

- 1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer responsible for the construction 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.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.2.a, cont'd)

3) The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations, and certification by the design engineer to the Department.

4) The engineer of record shall provide a report to verify conformance with the project specifications. The report including all related testing results shall be submitted to the Department along with the completion of construction documents.

5) In the event that the slurry wall was impacted by the construction activities, documentation demonstrating that the integrity of the slurry wall was not adversely affected shall be submitted with the Certification of Construction Completion.

b. The as-built cell floor elevations shall correlate with the calculations required by Specific Condition #B.1.c. and demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer at the as-built elevation.

3. Record Drawings/Documents.

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

- 1) Location of all anchor trenches (if appropriate);
- 2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts at the manholes) and ditch elevations;
- 3) Daily construction reports (CQA and/or general contractor);
- 6) Copies of photographs documenting all stages of the construction project;
- 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken.

New 10/11/05.

b. The as-built survey of the leachate collection system piping invert elevations shall demonstrate that the pipes were constructed at $\pm 5\%$ of the design slope.

New 10/11/05.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Fill Sequence Plans [ref.SC#A.2.e.] and the Operations Plan [ref.SC#A.2.a(1)], and any other applicable requirements. This permit authorizes disposal operations in **Stage III and western portion of Stage I only (i.e. Sequences 3-6)**.

Amended 10/11/05, 07/10/2006.

b. Waste shall not be disposed (unloaded, spread, or compacted) during non-daylight hours, unless sufficient lighting is provided to adequately assess the materials and remove unacceptable wastes.

c. Sufficient personnel and equipment shall be utilized to adequately operate the facility.

d. Ponded Water/Leachate. All surface water at Lena Road Landfill within the area surrounded by the slurry wall is considered as "stormwater/leachate." In the event of stormwater control problems which allow prolonged (greater than 72 hours) contact of ponded water with waste, the disposal of waste in the affected area shall cease until the leachate has been collected and appropriate drainage has been restored.

e. In the event of equipment breakdown or scheduled maintenance of essential equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence. In the event that sufficient reserve equipment is not obtained **within 24 hours**, the permittee shall notify the Department in accordance with Specific Condition #C.10.b., below and provide a schedule for corrective actions.

f. Unauthorized Wastes. A sufficient number of spotters and operators shall be utilized at the facility for removing unacceptable wastes (such as liquids, biomedical waste, hazardous and unknown wastes, etc.) from the working face. At a minimum, spotting shall occur at the working face from the ground (while off of the equipment) while waste is being disposed.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

g. Special Wastes. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operation Plan [ref. SC#A.2.a(1)] and with Rules 62-701.300(8) and 62-701.520, F.A.C., and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented.

1) Wastes which may include residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored and managed such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters.

2) Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in the Operations Plan. These wastes shall be removed from the site for proper recycling or disposal at the frequency described in the Operation Plan and this permit, unless another frequency for removal is approved in writing by the Department.

3) Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(4), F.A.C., the Operation Plan [ref. SC#A.2.a(1)], and all other applicable federal and Department rules. The location of asbestos disposal shall be recorded in accordance with 40 CFR Part 61.154.

4) Contaminated Soil. Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results demonstrate that the material is not hazardous and that the material has been adequately dewatered prior to delivery so that the material passes the paint filter test.

5) White Goods and other scrap metal. White goods and lawnmowers which may contain liquids (such as oil or gasoline), chlorofluorocarbons (CFCs such as freon), or other gases shall be stored and managed in a manner such that the liquids are contained, and CFCs or other gases are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed and lawn mowers which have had liquids removed shall be clearly marked. White goods shall be removed at least **semi-annually (every 6 months)**.

6) Yard Trash. Yard trash (including clean wood) shall be managed according to Rule 62-709.320, F.A.C., and as described in the Operation Plan [ref. SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.g., cont'd)

- 7) *Waste Tires.* Waste tires may be stored at the Citizen Drop-off Facility, designated waste tire container near the working face or the waste tire processing facility. The waste tire containers shall be emptied when full.
- h. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Household Hazardous Waste Collection and Storage Facility (HHWCSF) Operation Plan [ref. SC#A.2.a(3)], and stored at the HHWCSF.
 - 1) HHW shall be identified, and then segregated for storage within the containment area of the HHWCSF by the end of each collection day. Waste received at the HHWCSF shall be stored within containment areas at all times.
 - 2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.
 - 3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.
 - 4) Incompatible materials shall not be stored in the same area and shall not be bulked together.
 - 5) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.
 - 6) Miscellaneous household hazardous wastes (such as paint, fluorescent light bulbs, chemicals, etc.) shall be managed as described in the HHWCSF Operation Plan [ref. SC#A.2.a(3)].
 - 7) *Lead acid batteries.* Lead acid batteries are accepted at HHWCSF. Any incidental lead acid batteries that are discovered in waste delivered to the site shall be stored in a manner which prevents the discharge of contaminants to the environment. Lead acid batteries shall be removed for appropriate disposal or recycling when a maximum quantity of 80 batteries is stored on-site. [ref. Op. Plan, page L-8]
 - 8) *Used oil.* Used oil is accepted at the HHWCSF. Any used oil that is accepted shall be stored in a manner which prevents discharge to the environment. Used oil shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1000 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.h., cont'd)

9) *Paint.* Paint is accepted and bulked at the HHWCSF. Any paint that is accepted shall be managed and stored in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 500 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

10) *Electronics.* Electronics to be recycled shall be stored in an undamaged condition, and removed at least quarterly (every 3 months). Electronics that have been damaged (such as broken into pieces) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least quarterly (every 3 months). [ref. SC#A.2.a(1) and A.2.a(3)]

i. Site Inspections.

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) daily on operating days. Erosion and settlement shall be repaired in accordance with Specific Condition #C.10., below.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.9., below.

3) Litter fences shall be installed near the active face to capture wind-blown litter. In addition, the owner or operator shall inspect the normal traffic areas of the facility for litter **daily on operating days**. The accessible property boundaries shall be inspected for litter **at least weekly**. Litter shall be collected and disposed of in the Class I landfill **at least once per day on operating days**, or more often as necessary. In the event that the litter control program is ineffective, the operator shall notify the Department, and implement additional litter control measures **within 30 days**.

j. The top edge of the slurry wall shall be clearly marked in as many locations as required to prevent waste disposal and stormwater/leachate runoff outside the slurry wall. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal and leachate runoff outside the slurry wall.

SPECIFIC CONDITIONS: PART C - Operation Requirements

2. Operating Personnel.

a. The owner or operator shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. Sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. As required by Rule 62-701.500(1), F.A.C., at least one trained operator shall be at the site when either area receives waste. At least one trained spotter shall be at each working face when waste is received and unloaded, to inspect each load of waste from the ground (while off of the equipment), and to identify and properly manage prohibited materials.

c. The permittee shall notify the Department in writing of a change of the County's primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Training documentation shall be maintained at the landfill site, and copies shall be provided to the Department upon request.

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. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.

4. Monitoring of Waste.

a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads.

b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.10.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.4., cont'd)

c. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.

d. Sludges generated from stormwater/leachate system maintenance shall be dewatered and adequately characterized as non-hazardous prior to disposal.

5. **Waste Handling Requirements.** All disposed solid waste shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill area in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class I disposal area, must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired within three days of discovery.

2) The following alternate daily cover materials are acceptable for use at this facility: tarps, soil with up to 25% fines from the yard processing area, shredded tires, ground-up construction and demolition debris including asphalt roofing shingles, dredged soils that have been sufficiently dewatered, and street sweepings.
Amended 10/11/05.

3) Alternate daily cover materials not listed in this Specific Condition are required to be approved by the Department prior to use at the facility

b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.

1) An intermediate cover of 12 inches of compacted soil in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.5., cont'd)

c. Cover materials which have been previously used for intermediate or initial cover, and which contain solid waste shall not be re-used on areas which discharge outside the slurry wall.

6. Working Face.

a. As required by Rule 62-701.500(7)(d), F.A.C., the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area.

b. Waste shall be spread and compacted in accordance with the Operation Plan. Slopes shall be maintained in accordance with the Operations Drawings [ref.SC#A.2.a(10)]. All waste slopes (including the working face) shall be no greater (steeper) than 5H:1V [ref.SC#A.2.a(2), Part J].

7. Method and Sequence of Filling. The method and sequence of filling shall be in accordance with Fill Sequence Plans [ref.SC#A.2.e], and as described in the Operation Plan, or as otherwise approved in writing by the Department.

Amended 07/10/2006.

8. Leachate Management.

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the Operation Plan [ref.SC#A.2.a(1)], the Water Quality and Leachate Monitoring Requirements [ref.SC#A.2.a(4)], and other applicable Department rules.

b. Leachate which has accumulated on the surface in low areas shall be collected and removed, or redirected away from the active disposal areas within 72 hours.

**c. Leachate Collection and Removal System (LCRS)
Inspections/Maintenance.**

1) The Stormwater/Leachate Management System shall minimize stormwater from entering waste filled areas. All stormwater/leachate conveyances shall be inspected daily to verify adequate performance. Conveyances not performing adequately shall be repaired **within three days of discovery**. Documentation of all inspections and repairs shall be kept on file at the facility. [ref.SC#A.2.a(1)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c., cont'd)

2) The leachate collection and removal system underdrains and gravity pipelines shall be video inspected or water pressure cleaned to verify adequate performance at least once during this permit period. Force mains shall be video inspected or water pressure cleaned when the pump station performance indicates that the force mains may be obstructed. An inspection report shall be provided and shall include an evaluation of the effectiveness of the system, the locations of cleaning and video inspections (indicated on a Site Plan drawn to scale) with the locations and the cause of all obstructions encountered, proposed corrective actions, and schedule for implementation of corrective actions as appropriate. If the pipes are water-jet cleaned, the report shall include a description of the method of cleaning. Components not performing adequately shall be repaired as necessary. **No later than one hundred and eighty (180) days prior to permit expiration**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) when required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be signed and sealed by a professional engineer, and shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The permittee shall retain a copy of the final report, each inspection report, and each inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

3) Each pump and pump station and related sensors and controller mechanisms shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Operations Plan [ref. SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c, cont'd)

5) Upon the discovery of any defective (obstructed, separated, deformed) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored. Construction of improvements to any part of the LCRS, including significant repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for the construction of improvements shall be substantially equivalent to those required for new construction.

d. Leachate quantities.

1) In the event of a failure of leachate metering or pumping equipment which is not corrected **within 24 hours of detection**, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.10.

2) Leachate generation reports shall be compiled and submitted to the Department **monthly, by the 15th of the following month**. Leachate generation reports shall include the number of open, intermediate and closed acres, the quantities of stormwater/leachate collected, stored, recirculated and disposed off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

9. **Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the 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.

b. In the event that the odor control measures performed at the facility do not sufficiently abate objectionable odors offsite, the permittee shall submit an odor abatement plan to the Department **within sixty (60) days** of initial detection. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.

SPECIFIC CONDITIONS: PART C - Operation Requirements

10. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater/leachate management systems, cover systems and berms, gas monitoring system, 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 stormwater/leachate discharge outside the slurry wall, 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.

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the leachate management systems are damaged or are not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department.

e. Erosion. Intermediately covered disposal areas, or other disposal areas which exhibit significant erosion, shall be repaired according to the following schedule:

1) If the cover materials have eroded such that greater than 50% of the cover in that location has been eroded, then initiate repair of the affected area within three (3) days of discovery; and

2) If waste is exposed, then repair the affected area by the end of the next working day, or within 24 hours after the event that caused the waste to be exposed has ceased.
Amended 10/11/05.

f. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days.**

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Operation Plan and Operating Record.

a. 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.

b. Proposed changes to the current Department-approved **Operation Plan** [ref.SC#A.2.a(1)] shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operation Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.

c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006.

d. The following reports, documents and other information shall be maintained at the facility for reference, and copies shall be provided to the Department upon request:

- 1) Waste quantity reports required by Rule 62-701.500(4), F.A.C.;
- 2) A log of the facility operator's daily inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) A list of incidents of disposal of unacceptable or prohibited wastes. This list should include the generator's name and address, and a description of the waste disposed;
- 5) Operator and spotter training certificates and other documentation;
- 6) Log of odor complaints and corrective action; and
- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.

SPECIFIC CONDITIONS: PART D - Recordkeeping

(Specific Condition #D.1., cont'd)

e. Capacity Report. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than May 1st each year,** a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the waste sideslopes are no greater than the design (5H:1V), that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved Permit Renewal Drawings [ref.SC#A.2.a(10)] and other supporting information [ref.SC#A.2.a(2)].

Amended 10/10/2007.

2. Waste Records.

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15th, April 15th, July 15th and October 15th of each year.** Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.

b. Records shall be kept for all recycled electronics, including the quantities sent to each recycler, and related receipts with the name and address of each recycler.

3. Financial Assurance. The permittee shall provide 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 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006, 10/10/2007.

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.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (February 1, 2004), as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

b. The field testing, sample collection and preservation and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this landfill shall extend horizontally 100 feet from the limits of the landfill slurry wall (designated as Stage I, II and III landfill areas) or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground water will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C., and that the minimum criteria listed in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill slurry wall (designated as Stage I, II and III landfill areas).

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

3. **Ground Water Monitor Well Locations.** The ground water monitoring system is designed and constructed in accordance with Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref. SC #A.2.a]. The ground water monitor wells are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**), as follows:

<u>Well Number</u>	<u>WACS Testsite ID No.</u>	<u>Aquifer</u>	<u>Designation</u>
GW-1 *	21593	Surficial	Detection
GW-2 *	21594	Surficial	Detection
GW-3 *	21595	Surficial	Detection
GW-4 *	21596	Surficial	Detection
GW-5 *	21597	Surficial	Detection
GW-6 *	21598	Surficial	Detection
GW-7 *	21599	Surficial	Detection
GW-8 *	21600	Surficial	Detection
GW-9 *	21601	Surficial	Detection
GW-10 *	21602	Surficial	Detection
GW-11 *	21603	Surficial	Detection
GW-12 *	21604	Surficial	Detection
GW-13 *	21605	Surficial	Detection
GW-14 *	21606	Surficial	Detection
GW-15 *	21607	Surficial	Detection
GW-16 *	21608	Surficial	Detection
GW-17 *	21609	Surficial	Detection
BGW-1 *	21610	Surficial	Background

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**); documentation of well construction shall be provided **within 30 days of installation** in accordance with SC #E.5.b., and #E.5.d.; initial sampling shall be conducted **within 7 days of well installation and development** in accordance with SC #E.4.b.; results of initial sampling shall be submitted **within 30 days of receipt from the analytical laboratory**.

All wells are to be clearly labeled and easily visible at all times. The permittee should keep all wells locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards referenced in Chapter 62-522, F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells listed in SC #E.3., and all piezometers listed in SC #E.10., during all sampling events described in SC #E.4.b., #E.4.c., and #E.9.c., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall also include ground water elevations (feet NGVD) calculated for each well and the staff gauges described in SC #E.9.a.

b. An initial sampling event shall be conducted at wells GW-1 through GW-17 and BGW-1 **within 7 days of installation and development** for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix II</u>	

c. Wells GW-1 through GW-17 and BGW-1 shall be sampled **semi-annually**. In accordance with Rule 62-701.510(6)(d), F.A.C., samples collected from these wells shall be analyzed for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

5. **Ground Water Monitor Well Construction.** The following information shall be submitted **within 90 days of installation** of all new or replacement wells, or as stated below:

a. Prior to construction of all new or replacement wells and piezometers (excluding the locations listed in SC #E.3., and #E.10., respectively) the permittee shall request and receive Department approval of a minor permit modification.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (**attached**).

c. **Within one week of well completion and development**, each new or replacement well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and (8)(d), F.A.C

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned) horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

6. **Well Abandonment.**

a. Existing monitor wells and piezometers shall be abandoned **within 90 days of permit issuance**, as follow:

- Surficial aquifer monitor wells - MW-1, MW-2, MW-3, MW-5, MW-6, LR11-1, LR11-2, LR11-3, LR11-4, LR11-5, CW-4, CW-5A, GC-1A, GC-2, GC-3, GC-4A, GC-5, GC-6 and SWR-1
- Confined aquifer monitor wells - SA-2, SA-3, SA-4, SA-5, SA-6, SA-7, SA-8 and SMR-2
- Piezometers - PZ-1, PZ-2, PZ-3A, PZ-4A, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, PZ-11, PZ-12A, PZ-13, PZ-14A, PZ-15A, PZ-15C, PZ-16A, PZ-16B, PZ-17, PZ-18 and PZ-19

b. All wells and piezometers listed in SC #E.6.a., and wells and piezometers not a part of the approved Water Quality Monitoring Plan (not listed in SC #E.3., and #E.10.), are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring, prevention measures and corrective action as described in Rule 62-701.510(7), F.A.C.

8. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from the each of the existing leachate pump stations in landfill Stages I and III (designated as Lift Station No. 1, WACS Testsite ID No. 21611; Lift Station No. 2, WACS Testsite ID No. 21612; and, Lift Station No. 3, WACS Testsite ID No. 21613) as shown on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**). Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C., for analysis of the following parameters:

a. **Annual** leachate sampling shall be conducted for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Colors and sheens
(by observation)

Laboratory parameters

Total ammonia - N	Iron
Bicarbonate	Mercury
Chlorides	Sodium
Nitrate	
Total dissolved solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix II</u>	

b. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** leachate sampling and analysis of the parameters listed in SC #E.8.a., and shall notify the Department in writing. Results of the monthly leachate sampling shall be submitted **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional samples, sampling locations, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the criteria for each parameter established in Chapter 62-302, F.A.C., to demonstrate compliance with Class III (predominantly fresh water) surface water standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Staff gauges SG-1, SG-2 and SG-3 shall be installed **within 90 days of permit issuance** at the locations shown on Figure M-1 (**attached**). Surface water levels shall be measured at these staff gauges during all sampling events described in SC #E.9.b., #E.4.b., and #E.4.c., to a precision of 0.01 foot. Surface water body elevations (feet NGVD) recorded at these staff gauges shall be noted on ground water surface contour maps prepared for each sampling event.

b. Surface water samples shall be collected at downstream and upstream locations in Cypress Strand at SW-1 (WACS Testsite ID No. 1663) and SW-2 (WACS Testsite ID No. 1665), respectively, as located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**). In accordance with Rule 62-701.510(4)(c), F.A.C., the monitoring stations shall be marked and their positions shall be determined by a registered Florida land surveyor in degrees, minutes and seconds of latitude and longitude.

c. **Semi-annual** surface water sampling shall be conducted at SW-1 and SW-2 in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Unionized ammonia	Copper
Total hardness	Iron
Biochemical oxygen demand (BOD ₅)	Mercury
Nitrate	Zinc
Total dissolved solids (TDS)	
Total organic carbon (TOC)	
Fecal coliform	
Total phosphates	
Chlorophyll A	
Total nitrogen	
Chemical oxygen demand (COD)	
Total suspended solids (TSS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. **Gradient Monitoring.** Horizontal hydraulic gradient across the slurry wall shall be measured **monthly** at the following monitoring points ("P" denotes a piezometer located inside the slurry wall and "GW" denotes a monitor well located outside the slurry wall). Monitoring points are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**).

<u>Interior Monitoring Point</u>	<u>Exterior Monitoring Point</u>
P-1 *	GW-1
P-2 *	GW-2
P-3 *	GW-3
P-4 *	GW-4
P-5 *	GW-5
P-6 *	GW-6
P-7 *	GW-7
P-8 *	GW-8
P-9 *	GW-9
P-10 *	GW-10
P-11 *	GW-11
P-12 *	GW-12
P-13 *	GW-13
P-14 *	GW-14
P-15 *	GW-15
P-16 *	GW-16
P-17 *	GW-17

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**).

These points shall be monitored **monthly** for water levels to an accuracy of 0.01 feet. Results of the monthly monitoring shall be submitted by the **15th day of the following month**. An inward gradient shall be maintained across the slurry wall as described in Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref. SC #A.2.a]. If an outward gradient exists, steps for correcting the gradient shall be included with the related monthly data. Damaged gradient monitoring points shall be replaced within thirty (30) days to ensure continuous monthly monitoring at all points.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Water Quality and Leachate Reporting Requirements.** The permittee shall submit to the Department the results of the semi-annual ground water analyses (SC #E.4.c.) and surface water analyses (SC #E.9.c.) by **January 15th** and **July 15th of each year** for the semi-annual periods July-December and January-June, respectively. The permittee shall submit to the Department the results of the annual leachate analyses (SC #E.8.a.) by **January 15th of each year**. The submittals shall include the certified laboratory report of results, chain of custody sheets and field sampling logs. The reports that transmit the results of ground water analyses shall contain the information listed in Rule 62-701.510(9)(a), F.A.C., including a ground water contour map representing conditions at the time of ground water sampling and a summary of any water quality standards or criteria that are exceeded. The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. There are two options for reporting monitoring data:

Amended 07/10/2006.

a. Paper Reporting. If this option is selected, all ground water, leachate and surface water analytical results shall be reported on Department Form 62-522.900(2), Ground Water Monitoring Report (**attached**) to be consistent with the laboratory report of results. To facilitate entry into the Department's database (Water Assurance Compliance System [WACS]), this form, or an exact replica without change of content, shall be prepared for each sampling location for each sampling event.

b. Electronic Reporting. Alternatively, all ground water, leachate and surface water analytical results may be submitted as an electronic data deliverable (EDD) on floppy diskettes or compact disc media readable by Microsoft Windows. Software ("Validator") has been developed to evaluate and upload the monitoring data into the Department's database (WACS). A copy of this software can be downloaded from the Department's website at the following address: <http://www.dep.state.fl.us/labs/software/index.htm>. Electronic laboratory data must be submitted in a specific format called a tab delimited text file, with the first line of the file being the data field names (Microsoft Excel produces this file format when the "Save As" and "Text(Tab Delimited)" options are selected). Two copies of the EDD, one in tab delimited text format and one as an Adobe portable document format (PDF) must be submitted. A digitally "signed" PDF serves to maintain the integrity of the EDD. Examples of an acceptable text file and additional information are available at the web site listed above. The permittee is encouraged to download Validator and run all data sets to allow the necessary corrections to be completed prior to submittal of an EDD to the Department.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

12. **Monitoring Plan Evaluation.** By May 11, 2007 and November 11, 2009, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 11, 2007	Second half 2004	Second half 2006
November 11, 2009	First half 2006	First half 2009

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 07/10/2006.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NPs 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.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by Rule 62-701.530, F.A.C.

b. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C., (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

c. The results of quarterly monitoring required by Rule 62-701.530(2)(c), F.A.C., shall be submitted to the Department by the following dates:

Measured During

Quarter 1
Quarter 2
Quarter 3
Quarter 4

Report Submitted By

April 15th of each year
July 15th of each year
October 15th of each year
January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** The landfill gas management system is designed and constructed in accordance with Part O ("Gas Management System Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised December 8, 2004 [Ref. SC #A.2.a]. The ambient gas monitoring points and perimeter gas monitoring probes are located on Figure L-8 prepared by PBS&J ("Landfill Gas Migration Monitoring Locations") received September 10, 2004 (**attached**), and shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C.

Ambient Gas Monitoring

Points

GMP-1 *
GMP-2 *
GMP-3 *
GMP-4 *
GMP-5 *
GMP-6 *
GMP-8 *

Location Description

Gary Seeley office (former Litter Enforcement Office)
Shed by soda machine
Main office
Vehicle maintenance area
Hazardous waste area
Equipment trailer
Shed by weigh station

Perimeter Gas

Monitoring Probe

GMW-1
GMW-2
GMW-3
GMW-4
GMW-5
GMW-6
GMW-7
GMW-8
GMW-9A
GMW-10
GMW-11A
GMW-11B
GMW-11C
GMW-12 *
GMW-13 *
GMW-14 *
GMW-15 *
GMW-16 *
GMW-17 *

Location Description

Stage III landfill perimeter - west
Stage III landfill perimeter - south
Stage I landfill perimeter - west
Stage I landfill perimeter - south
Stage I landfill perimeter - southeast corner
Stage I landfill perimeter - east
Stage II landfill perimeter - east
Stage II landfill perimeter - north
Stage II landfill perimeter - west
Stage III landfill perimeter - north
Stage III landfill perimeter - north
Stage III landfill perimeter - north
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility

* = to be monitored until the structures located within the Stage III landfill area are removed, prior to the initiation of fill Sequence 3.

The gas probes are to be clearly labeled and easily visible at all times.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

4. **Gas Remediation.** If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department. **Within 7 days** of detection, a gas remediation plan detailing the nature and extent of the problem and the proposed remedy shall be submitted to the Department for approval. 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 Permit Requirements.** 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.
2. **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



Richard W. Cantrell
Interim District Director
Southwest District

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
E.6.b	Within 30 days of abandonment	Submit report of well abandonment
E.9.c	Semi-annually	Sample/analyze surface water
E.11	By January 15 th and July 15 th each year	Submit sampling results
E.10.	Monthly By the 15 th of the following month	Measure hydraulic gradient (horizontal and vertical) Submit gradient results
E.12.	By May 11, 2007 and November 11, 2009	Submit water quality monitoring evaluation report
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th	Submit gas monitoring results
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

LEGEND:

- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- SLURRY WALL
- PROPERTY BOUNDARY

PROPERTY LINE



0 500 1000
GRAPHIC SCALE
SCALE: 1" = 1000'

STAGE II
LANDFILL
(INACTIVE NO SOLID WASTE)

STAGE III
LANDFILL
(ACTIVE)

STAGE I LANDFILL
(INACTIVE WITH SOLID WASTE)

STORM
WATER
POND

POND

POND

POND

POND

NOTE:

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

DEC 15 2004

SOUTHWEST DISTRICT
TAMPA

SEE M-2 FOR MONITORING
WELL AND PIEZOMETER
INSTALLATION DETAILS.

REV. 12/06/04
APRIL 30, 2004

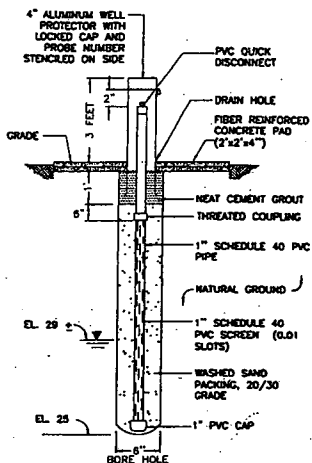
PBS&J

LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

WATER QUALITY AND
ELEVATION MONITORING
NETWORK

FIG. M-1

U:\OLD\DL\ENV\CAD\WASTE\MAN\MANATEE\LENAR\PERMIT-RENEWAL-2004\MONITORING\WALLLOCATION-FIG-M-1.DGN



LANDFILL GAS MONITORING PROBE (GMW#)

NTS

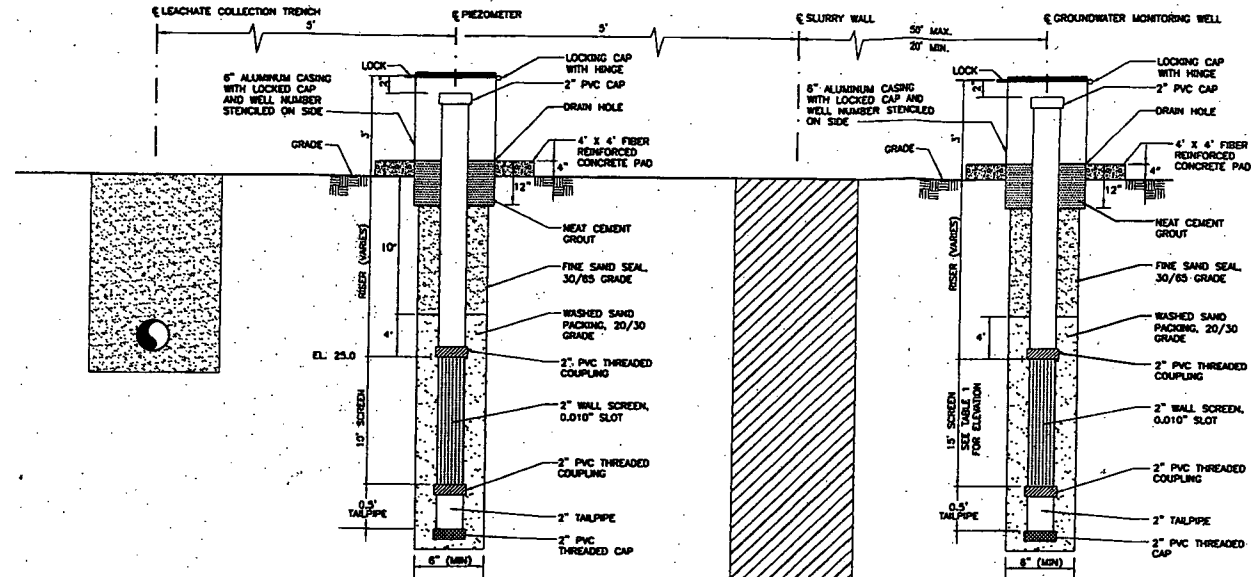
CONSTRUCTION NOTES:

1. ALL WORK RELATED TO ABANDONMENT OR INSTALLATION OF MONITORING WELLS, GAS PROBES AND PIEZOMETERS SHALL BE DONE BY A FLORIDA CERTIFIED WATER WELL DRILLER.
2. ALL MONITORING WELLS, GAS PROBES AND PIEZOMETERS INDICATED ON THE DRAWINGS SHALL BE PLUGGED AND ABANDONED IN ACCORDANCE WITH F.A.C. RULE 62-532.440, AND THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD). THE DRILLER SHALL SUBMIT A WRITTEN REPORT TO THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, WITH COPIES TO THE OWNER AND ENGINEER, DOCUMENTING VERIFICATION OF THE WELL ABANDONMENT WITHIN 90 DAYS OF ABANDONMENT. DOCUMENTATION OF ABANDONMENT SHALL INCLUDE A MAP SHOWING LOCATIONS AND SWFWMD ABANDONMENT RECORDS.
3. NEW MONITORING WELLS AND PIEZOMETERS SHALL BE INSTALLED PER ASTM D-5092 (1995) ET-STANDARD PRACTICE FOR DESIGN AND INSTALLATION OF GROUND WATER MONITORING WELLS IN GRANULAR AQUIFERS, AND THE FOLLOWING DOCUMENTATION SUBMITTED TO FDEP WITH COPIES TO THE OWNER AND ENGINEER.

A. FDEP FORM 62-522.900(3) MONITORING WELL COMPLETION REPORT

B. A SURVEY DRAWING SHALL BE SUBMITTED IN ACCORDANCE WITH F.A.C. RULE 62-701.510(3) (D) (1), SHOWING THE LOCATION OF ALL MONITORING WELLS (ACTIVE AND ABANDONED) HORIZONTALLY LOCATED IN DEGREES, MINUTES AND SECONDS OF LATITUDE AND LONGITUDE, AND THE ELEVATION OF THE TOP OF THE WELL CASING TO THE NEAREST 0.01 FOOT. NATIONAL GEODETIC VERTICAL DATUM. THE SURVEYED DRAWING SHALL INCLUDE THE MONITOR WELL IDENTIFICATION NUMBERS, LOCATIONS AND ELEVATIONS OF ALL PERMANENT BENCHMARKS AND FOR CORNER MONUMENT MARKER AT THE SITE. THE SURVEY SHALL BE CONDUCTED BY A FLORIDA REGISTERED SURVEYOR.

4. ALL REPORTS SHALL BE SENT TO: JOHN MORRIS, P.G. SOLID WASTE SECTION, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SOUTHWEST DISTRICT OFFICE, 3804 COCONUT PALM DRIVE, TAMPA, FLORIDA 33618-1352; AND ALSO TO: SOLID WASTE SECTION, DEPARTMENT OF ENVIRONMENTAL PROTECTION, 3900 COMMONWEALTH BOULEVARD, N.E. 4565, TALLAHASSEE, FL 32399-3000.



PIEZOMETER DETAIL

NTS

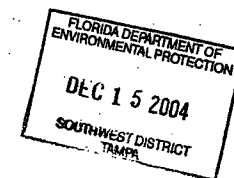
GROUNDWATER MONITORING WELL DETAIL

NTS

TABLE 1

WELL	ELEVATION OF SCREEN INTERVAL (FEET-MVD)
GW-1	25-40
GW-2	25-40
GW-3	25-40
GW-4	25-40
GW-5	25-40
GW-6	25-40
GW-7	25-40
GW-8	20-35
GW-9	19-34
GW-10	20-35
GW-11	23-38
GW-12	28-41
GW-13	27-42
GW-14	26-41
GW-15	29-44
GW-16	28-43
GW-17	28-41
BCW-1	30-45*

* ELEVATION MAY CHANGE DEPENDING UPON WATER TABLE ELEVATION AT THAT LOCATION AT THE TIME OF WELL INSTALLATION.



M-2



330 SOUTH PINEAPPLE AVE.
SUITE 113
SARASOTA, FLORIDA 34236
PH: (941) 554-4038
FDEP CERTIFICATE OF
AUTHORIZATION NO. 24
KEVIN E. SATAG, P.E. #48192

CLIENT
**MANATEE COUNTY
PROJECT MANAGEMENT
DEPARTMENT**
4410 66TH STREET WEST
BRADENTON, FLORIDA 34210



PROJECT

LENA ROAD LANDFILL

TASK

MONITORING WELL, GAS PROBE
AND PIEZOMETER INSTALLATION DETAILS

ORIGINAL: 12/04/04

REVISIONS:

1

2

3

4

5

JOB NO. 24-2004

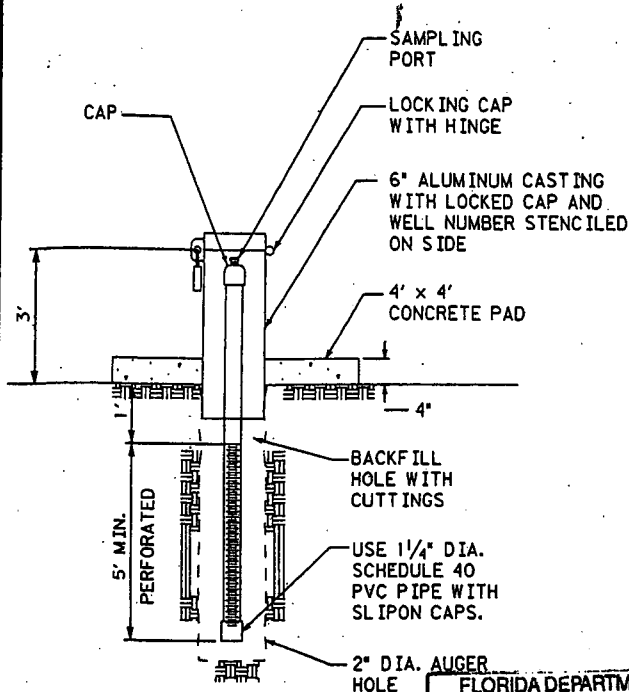
DRAWN: RGC

DESIGNED: RGC

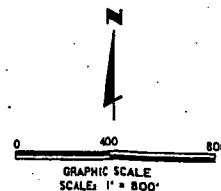
CHECKED: J.M.

DATE: 12/15/04

SHEET



GAS POINT LOCATIONS DESCRIPTIONS	
1.	GARY SEELEY OFFICE (FORMER: LITTER ENFORCEMENT OFFICE) (BUILDING MOVED TO AREA NEAR EQUIPMENT TRAILER)
2.	SHED BY SODA MACHINE
3.	MAIN OFFICE
4.	VEHICLE MAINTENANCE GARAGE
5.	HAZ WASTE AREA
5.	EQUIPMENT TRAILER
7.	NO LONGER EXISTING
8.	SHED BY WEIGH STATION (GENERATION HOUSE)



LANDFILL GAS MONITORING PROBE

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

SEP 10 2004

SOUTHWEST DISTRICT
TAMPA

GMW 11C

GMW 11B

GMW 11A

GMW 10

GMP-2
GMW-12 GMP-1
GMP-8 GMP-3
GMW-14 GMP-3
GMW-17 GMP-16
GMP-5 GMW-15
GMP-4 GMP-6

STAGE III
LANDFILL

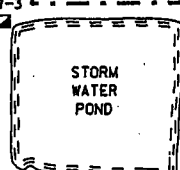
STAGE I
LANDFILL

NOTES:

1. GMW-12 THROUGH GMW-18 AND GMP-1 THROUGH GMP-8 TO BE MONITORED UNTIL FILLING OF STAGE III LANDFILL REACHES THESE POINTS, OR BUILDINGS ARE REMOVED

LEGEND:

- GMW-3 GAS MONITORING WELL
- GMW-6 GAS MONITORING POINT
- SLURRY WALL



REVISED 09/09/04
APRIL 30, 2004

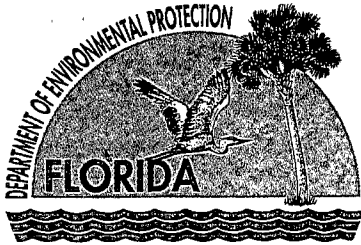


LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

LANDFILL GAS MIGRATION
MONITORING LOCATIONS

FIG. L-8

U:\OLDH\S\ENV\CAD\WASTE\MAN\MANATEE\PERMIT-RENEWAL-2004\MLR\FIG-L-8_PERMIT-RENEWAL.DGN



Florida Department of Environmental Protection

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

Charlie Crist
Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Lena Road Landfill
c/o Anthony D. Russo
PBS&J
2803 Fruitville Road, Suite 103
Sarasota, FL 34237

AUG 15 2007

File No.: 41-01777559-009
Applicant: Manatee County

Dear Mr. Russo:

This letter is in reference to the continued processing of your application, File No. 41-01777559-009. The Department has not received the additional information requested by the Department in the completeness summary sent to you on December 29, 2006.

Therefore, the staff will proceed with a recommendation of denial pursuant to Section 120.60, Florida Statutes, and Florida Administrative Code Rule 62-343.090(2)(f), if the application is not withdrawn or completed within **21 days** of the date of this letter. Rule 62-343.090(2)(f), provides that "failure of an applicant to provide the timely requested information by the applicable deadline shall result in denial of the application". If the application is withdrawn or denied pursuant to Section 120.60, F. S. and Florida Administrative Code Rule 62-343.090(2)(f), a new application may be submitted at any time and will be reviewed without prejudice. It should be noted that the information requested in the previous completeness summaries would provide a good guide for preparing a new application.

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.

Sincerely,

Allyson Minick
Environmental Specialist II
Environmental Resource Management

cc: Susan Pelz, FDEP, Solid Waste
Tim Hochuli, Project Management Director, Manatee County, 1022 26th Avenue East, Bradenton, FL
34208



An employee-owned company

July 11, 2007

Dept. of Environmental
Protection

JUL 17 2007

Ms. Susan J. Pelz, P.E.
Solid Waste Manager
Southwest District
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33667-0926

Southwest District

**Re: Report of Arsenic Source Evaluation
Lena Road Landfill, Manatee County
GMS ID No. 4041M02025
Pending Modification #39884-014-SO/MM to existing FDEP Permit No. 39884-010-SO/01**

Dear Ms. Pelz:

On behalf of the Manatee County Utility Operations Department, PBS&J is pleased to submit two copies of the report referenced above. The arsenic source evaluation was performed in response to your letter to Mr. Daniel Gray of the Manatee County Utility Operations department dated January 18, 2007, and in accordance with the work plan presented by PBS&J in a letter addressed to you dated February 15, 2007.

The County has decided to postpone indefinitely the relocation of the yard waste handling facility outside of the slurry wall at this landfill because of the current legislative property tax issues and the recent increase in construction costs.

If you have any questions regarding this report or need any additional information then please call me at (407) 806-4339.

Very truly yours,

Greg Mudd, PG
Senior Geologist

C: Mr. Gus Difonzo, Manatee County Solid Waste Division
Mr. Mike Gore, Manatee County Solid Waste Division
Ms. Jeanne Detweiler, Manatee County Solid Waste Division
Mr. David Deans, P.E., PBS&J
File, 100931.01 0700

U:\SO\OldG\HAZARD\Manatee\LenaRoadLandfill\Arsenic Issue\Arsenic Source Evaluation Report Transmittal Letter.doc

Pelz, Susan

From: mike.gore@mymanatee.org
Sent: Thursday, September 06, 2007 7:18 AM
To: Pelz, Susan
Cc: Morgan, Steve; gus.difonzo@mymanatee.org; jeanne.detweiler@mymanatee.org; jlmiller@pbsj.com
Subject: Re: Annual topo submittal date

Thanks Susan, I wanted to touch base with Joe Miller and Gus Difonzo before I replied. We are going to shoot for February as our aerial photo month, the weather seems more acceptable for photography in Feb.. Joe feels May 1st would suffice as a date to have the capacity estimates and photo to submitted to your offices. Have a great day.

Mike Gore, Landfill Superintendent
3333 Lena Road
Bradenton, Florida 34211
Phone: 941-748-5543
Fax: 941-708-5668
mike.gore@mymanatee.org

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

09/04/2007 01:33 PM

To <mike.gore@co.manatee.fl.us>

CC "Morgan, Steve" <Steve.Morgan@dep.state.fl.us>

Subject Annual topo submittal date

Mike,

As we discussed at the last inspection, the Department understands that the County would like to change the submittal date for the annual topographic survey & capacity calculations. I can include this change with the correction for the financial assurance submittal date in the pending modification (formerly the yard trash relocation mod).

Please let me know what date the County would prefer to submit the annual topo & capacity estimates, and I will revise the permit accordingly. The pending modification will not include relocation of the YTPF, but will include the corrected financial assurance submittal date (September 1st) and whatever date you need for the annual topo & capacity estimates.

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

9/6/2007

Lena Rd LF
CI op**Pelz, Susan**

From: Lynch, Sandra
Sent: Friday, July 13, 2007 10:28 AM
To: Cantrell, Richard; Vazquez, Pamala; Kutash, William; Pelz, Susan
Subject: News Article - Wares Creek/Lena Road Landfill

FYI

New plan sends Wares Creek muck to Lena Road landfillPosted on Fri, Jul. 13, 2007 [Back to web version](#)

By NICHOLAS AZZARA
nazzara@bradenton.com

Officials have all but abandoned an idea to move mucky material dredged from Wares Creek into holes beneath the Manatee River.

Instead, Manatee Conservation Lands Director Charlie Hunsicker said the idea now is to dredge the creek, dry the material and truck it about 10 miles east to the Lena Road landfill. Several agencies and governing bodies will have to sign off on the plan, but indications are that this will be the path of least resistance to a project that has been decades on the drawing board.

"Over the long term, this disposal option is best for the environment, it's best for the public, and it allows the project to move relatively quickly," Hunsicker said. "It's not a walk in the park, but it's a far better decision in the interest of our local taxpayers than the alternatives."

Over the years, pollution, silt and heavy metals have settled at the bottom of the creek, possibly making it a dangerous mixture in the water for humans.

Under the previous plan, the dredge dirt would have been capped with sand beneath the river, but the future responsibility - including the monitoring of the river bottom and for the removal of the material if toxic leaks were detected - was too much for Manatee County to bear.

Florida Department of Environmental Protection authorities were reluctant to sign off on the plan and insisted that the county be responsible for any future mishaps. Army Corps of Engineers representatives have said chemical levels are minimal in the dredge material.

Residents along Wares Creek, who have lived through years of flooded yards along the banks, say they're ready for the work to begin, even if it means an estimated 10,000 truckloads of material being carted off over more than a year.

Jay Burnell, president of the Wares Creek South Neighborhood Association, said homeowners along the creek just want to see the project completed.

"We just want to see it done to alleviate any potential flooding," Burnell said. "If it takes trucking the materials, we'll agree to that. We're just really happy they're moving forward. I'd much rather see it done now."

Bradenton City Council member Patrick Roff earlier this week estimated that trucking the material to the landfill would cost an extra \$7 million. The total project cost is about \$40 million, down several million from earlier estimates because land acquisition and construction costs have dropped, Hunsicker said.

He did not know how many additional trucks would travel Manatee Avenue - the most direct route to the landfill - when the project begins, but said it would be a negligible amount on one of the county's the busiest roads.

Coincidentally, U.S. Rep. Vern Buchanan's office Thursday announced that \$6 million has been earmarked for Wares Creek in next year's Energy and Water Appropriations funding. Another \$1.5 million will go toward maintenance dredging at Port Manatee.

Roff, who advocated the dredge-and-cover plan to save money, was pleased with the federal funding, and that the project is moving forward. He said he was convinced progress was being made after sitting in on a conference call

between DEP and Corps representatives this week.

"The good news is we're getting the money," said Roff, who represents the Wares Creek area. "If we're going back to DEP's method from the beginning, I'm OK with it. We'll just have to figure out a way to cover it. I've got some ideas I'll discuss with the county."

Nicholas Azzara, county reporter, can be reached at 745-7081.

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Thank you,
Sandra Lynch

Op Permit
(YT mod)

Pelz, Susan

From: Pelz, Susan
Sent: Monday, June 18, 2007 4:09 PM
To: pgmudd@pbsj.com
Cc: Gus Difonzo (gus.difonzo@co.manatee.fl.us); Morris, John R.; Dave Deans (dedeans@pbsj.com); Gagne, Albert
Subject: Lena Road LF, arsenic study

Greg,

The Department received your letter dated May 20, 2007 (rec'd May 23, 2007) regarding the ongoing arsenic investigation and pending yard trash area relocation modification.

The Department does not object to the requested extension of time to provide information for the permit modification. The Department anticipates receiving the information by July 15, 2007.

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



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May 20, 2007

ok
Dept. of Environmental
Protection

MAY 23 2007

Southwest District

Ms. Susan J. Pelz, P.E. *5/23*
Solid Waste Manager
Southwest District
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33667-0926

Re: Proposed Arsenic Source Evaluation Plan Schedule
Lena Road Landfill, Manatee County
GMS ID No. 4041M02025
Pending Modification #39884-014-SO/MM to existing FDEP Permit No. 39884-010-SO/01

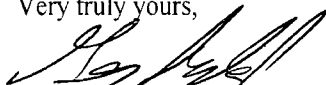
Dear Ms. Pelz:

PBS&J has begun implementation of the soil sampling plan approved in your March 22, 2007 letter. The first part this plan was to evaluate the arsenic data from the facility's water quality monitoring network for any trends that may indicate the source for the detections. This evaluation has been performed within the framework of the data evaluation process of a biennial water quality evaluation report which PBS&J is now completed and submitted to the Department. PBS&J has also been reviewing readily available technical literature regarding the issue. The results of the data evaluation do not indicate an obvious source of the arsenic detections, and therefore PBS&J will now proceed with the proposed fieldwork presented in the plan. The field work will be performed during the week of May 29, 2007. The report of the findings will be available to the Department by July 15, 2007.

Your letter requests our response to all of the information requests in your letter within 60 days of receipt of the letter or a specific timetable for the submission of the requested information for Department review and consideration. Therefore, in accordance with the discussion presented above, we request your consideration of an extension of time to file all of the requested information until July 15, 2007.

If you have any questions regarding this report or need any additional information then please call me at (407) 806-4339.

Very truly yours,


Greg Mudd, PG
Senior Geologist

C: Mr. Gus Defense, Manatee County Solid Waste Division
Mr. Mike Gore, Manatee County Solid Waste Division
Ms. Jeanne Dewier, Manatee County Solid Waste Division
Mr. David Deans, P.E., PBS&J
File, 100931.01 0700

U:\SO\Oldg\HAZARD\Manatee\LenaRoadlandfill\Arsenic Issue\Proposed Arsenic Source Evaluation Plan Schdule 052107.Doc

Lena Rd
of Permit

Pelz, Susan

From: Pelz, Susan
Sent: Tuesday, March 27, 2007 3:40 PM
To: 'eastmanceo@aol.com'
Cc: Black, Anna
Subject: Lena Road LF, Manatee County

Attachments: LenaRd-capacity-2006.pdf

Mr. Eastman,

As we discussed this morning, please find attached to this email the annual capacity report that Manatee County provided to the Department. If you are interested in reviewing the associated topographic survey, please contact Anna Black at (813) 632-7600 x 377 to schedule a file review.

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



LenaRd-capacit
2006.pdf (59 K)



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 66th Street West
Bradenton, Fl. 34210

March 22, 2007

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-014-SO/MM, to
Operation Permit No. 39884-010-SO/01
Relocation of yard trash area

Dear Mr. Gray:

This is to acknowledge receipt of the additional information dated February 23, 2007 (received February 26, 2007) submitted in support of your permit modification application, dated December 18, 2006 (received December 19, 2006) prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to relocate the onsite yard trash processing area 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 permit application [Chapter 62-701, Florida Administrative Code (F.A.C.)].

1. **Rule 62-701.300(1)(b), F.A.C.** Based on groundwater analytical results provided to the Department for monitoring well GW-2, from August 2005 through August 2006 it appears that GW-2 has exceeded Department groundwater standards for arsenic. Please provide information that demonstrates that the arsenic impacts at GW-2 are not related to operation of the yard trash processing facility.

The February 23, 2007 submittal proposed a soil and sampling plan to address this comment. The Department does not object to the statistical evaluation proposed in step 1 of the plan, but does not believe that the results will definitively address the issue.

The Department cannot complete its review of the YTPF relocation request until the results of the soil and groundwater sampling are received. Therefore, the proposed soil and groundwater sampling plan is **approved** subject to the following conditions:

- a. The temporary wells shall be adequately developed prior to sampling.
- b. The temporary wells shall have no greater than 10 ft. of screen.
- c. The soil samples shall be tested for arsenic using EPA Method 1312 (SPLP).
- d. The soil samples in the yard trash area shall be from 1-2 feet below land surface (similar to other soil samples proposed).
- e. One soil sample shall be taken (1-2 ft. bls) from the proposed new YTPF location and tested (SPLP) for arsenic. This sample is intended to provide a baseline analysis for the proposed new location.

Please conduct the soil and groundwater sampling proposed in step 2 of the plan and provide the results and evaluation to the Department.

Please respond **within 60 days** after you received this letter, 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 **60 days** to develop, you should develop a 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 66th Street West, Bradenton, Fl. 34210
David Deans, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101
John Morris, P.G., FDEP Tampa (email)
Bill Vorstadt/Allyson Minick, FDEP Tampa- ERP (email)
Francine Joyal, FDEP Tallahassee (email)



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February 23, 2007

Dept. of Environmental
Protection

FEB 23 2007

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

Southwest District

**Re: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-014-SO/MM, to
Operation Permit No. 39884-010-SO/01
Relocation of yard trash area**

Dear Ms. Pelz:

PBS&J is in receipt of your first request for information, dated January 18, 2007, regarding the above referenced permit modification. Attached are our responses to your requests for information.

1. **Rule 62-701.300(1) (b), F.A.C.** Based on groundwater analytical results provided to the Department for monitoring well GW-2, from August 2005 through August 2006 it appears that GW-2 has exceeded Department groundwater standards for arsenic. Please provide information that demonstrates that the arsenic impacts at GW-2 are not related to operation of the yard trash processing facility. This information may include soil sampling results (total arsenic and SPLP for arsenic) and groundwater samples from additional temporary monitoring wells in the current yard trash processing area. Please provide a figure showing the proposed sampling locations, a schedule for providing the sampling results, and if temporary groundwater monitoring wells are proposed, the locations and construction details of those wells.

Response: See attached Soil and Groundwater Sampling Plan

2. **Rule 62-701.320(5) (b), 62-701.320 (7) (f), F.A.C.** Plan sheets titled, Manatee County Lena Road Landfill Yard Waste Facility Construction Plans, dated May 15, 2006, signed and sealed December 1, 2006. Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

a. Please provide plan sheets that identify each sheet that is referenced to a "match line".

Response: All "match line" sheets have been referenced to a plan sheet.

b. Please provide plan sheets that accurately note that the monitoring wells that are existing, previously abandoned, and proposed to be abandoned (e.g., see Sheet C-5).

FILE

Response: In the summer of 2005 the current groundwater monitoring network was installed and the (then) existing wells no longer in the program were properly abandoned. At this time there are no existing groundwater monitoring wells in the proposed location for the yard trash processing facility. Sheet C-5 has been modified to delete the reference to the old monitoring wells that were previously in that location, but which have since been abandoned.

- c. Sheet C-8. Please clarify if the forcemain is for sanitary wastes from the office at the yard trash processing facility (YTPF) only. Please specify the size of the diesel tank. Please clarify if the diesel tank has containment.

Response: The proposed forcemain is for sanitary wastes from the office only. See Plan Sheet C-18. The diesel tank is 1500 gallons and contains secondary containment. See Plan Sheet C-8.

- d. Sheet C-10. Please reference the locations of the cross sections to an appropriate sheet. Please provide elevations for the concrete pad that show the drainage. Please reference the location of the "proposed dumpster (typ) detail."

Response: The locations of the cross sections have been referenced to an appropriate sheet. Elevations for the concrete pad that shows the drainage have been provided. See Plan Sheets C-10 and C-11. The location of the "proposed dumpster (typ) detail" has been referenced. See Plan Sheet C-10.

- e. Sheet C-15. Please clarify the location of the "compactor and dumpster pad details" on a plan view. Please provide details of which of these configurations is used. Please clarify where the grit trap and drain discharges.

Response: The site is a non-food service location. This detail is modified accordingly. See Sheet C-10 for the plan location and Sheet C-15. for the modified detail relating to the dumpster.

- f. Sheet C-18. Please reference the sheet that includes the grinder pump station and wetwell details. Please provide elevations for all gravity drains.

Response: The grinder pump station and wetwell have been referenced to the detail sheet. Elevations have been providing to all gravity drains. See Plan Sheet C-18.

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

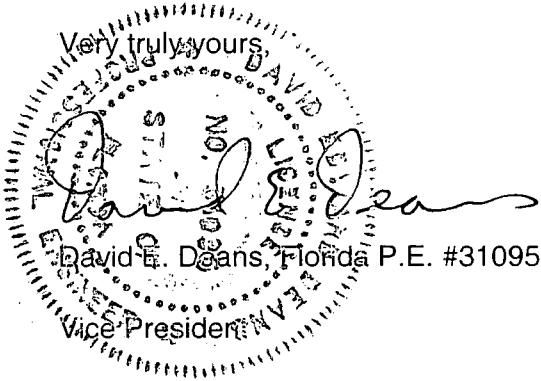
Response: The Notice of Application was published in the Bradenton Herald on February 1, 2007. Attached is the certification of publication for that notice.

Susan J. Pelz, P.E

Page #3

If you should have any questions regarding the above responses, please call me at 407/806-4104 or you may email me at DEDeans@pbsj.com.

Very truly yours,



David E. Deans, Florida P.E. #31095
Vice President

Dept. of Environmental
Protection

FEB 23 2007

DD/rb

Attachments

Southwest District

cc: Daniel T. Gray, director, Utility Operations Department
Gus DiFonzo, Solid Waste Manager
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division
Sal Bordonaro, Manatee County Project Management
File: 12-0498.41

PROPOSED SOIL AND GROUNDWATER SAMPLING PLAN

February 23, 2007

Southwest District

Proposed Plan

PBS&J is proposing a two-step approach to demonstrating that the arsenic impacts at GW-2 are not related to the operation of the yard trash processing facility. The first step in this demonstration will be to perform a limited statistical analysis of the semi-annual groundwater quality monitoring data from this site for the period between 2002 and 2006. PBS&J will compare the arsenic concentrations at each well location to the turbidity, dissolved oxygen (DO), and groundwater elevations to see if there are any patterns or trends which may indicate potential sources of the arsenic.

If the results of the first step are inconclusive, then the second step will be performed. The second step will consist of the collection of soil and groundwater samples from the areas of the site where the highest arsenic concentrations have been detected in the former and current groundwater monitoring network, as well as from temporary monitoring wells installed at the yard trash processing area. The analytical data from this effort will be evaluated to determine whether the source of the arsenic can be determined.

A detailed description of our proposed approach is presented below.

Temporary Well Installation and Sampling

PBS&J is proposing to install four temporary monitoring wells at the current yard trash processing area in order to access the groundwater in the surficial aquifer for sample collection. The wells will spaced evenly across the area, at the approximate locations shown in the Figure 1. The well boreholes will be created with a 3-inch diameter, stainless steel hand auger. The boreholes will be progressed as far into the water table as possible. 1.25-inch diameter, PVC screen and casing will be used as well materials. The well screen will be pushed as deep into the groundwater as possible. 0.01-inch screen will be used for the wells. A 20/30-size filter pack will be placed around the well screen. Each well will be provided a slip cap, and the wells will be left sticking above grade. A diagram depicting the construction of the temporary wells is enclosed in Attachment A. The wells will be left in place in case they are needed for a resampling event.

PBS&J personnel will collect groundwater samples from the newly-installed temporary monitoring wells. Prior to collecting a groundwater sample, the well will be purged with a peristaltic pump using the "low-flow" method. The samples will not be collected until every effort is made to lower the turbidity as much as possible. One groundwater sample will collected from each well and submitted to Southern Research Laboratory for analysis of arsenic by EPA test method 6010. One soil sample will be collected from each soil type encountered in each well borehole. The soil samples will also be submitted to SRL for arsenic analysis by EPA method 6010.

Sampling of Existing Wells

PBS&J will collect a sample from the six monitoring wells (GW-1, GW-2, GW-4, GW-10, GW-12, and GW-14) in the existing network which are located in areas where arsenic has been consistently detected in the groundwater at concentrations in excess of the State standard. These wells are highlighted with a box around them in Figure 1. The samples collected from these wells will be submitted to SRL for arsenic

analysis by EPA method 6010. PBS&J will also collect one soil sample from within a 10-foot radius of each of these wells. The soil samples will be collected from a depth of 1 to 2 feet BLS. The samples will be submitted to SRL for analysis of arsenic by EPA method 6010.

All of the proposed field activities for this plan will be performed in general accordance with the Florida Department of Environmental Protections (FDEPs) Standard Operating Procedures for Field Activities (SOP 001/01).

PBS&J can begin performing the first step of the proposed plan immediately upon receiving a notice to proceed. The field activities can be performed within 7 days of notice. PBS&J will prepare a letter report of the findings of the investigation. The report will be signed and sealed by a Florida registered professional geologist or engineer. PBS&J will have a draft version of the letter ready within 30 days of receiving notice.

FIGURES

LEGEND:

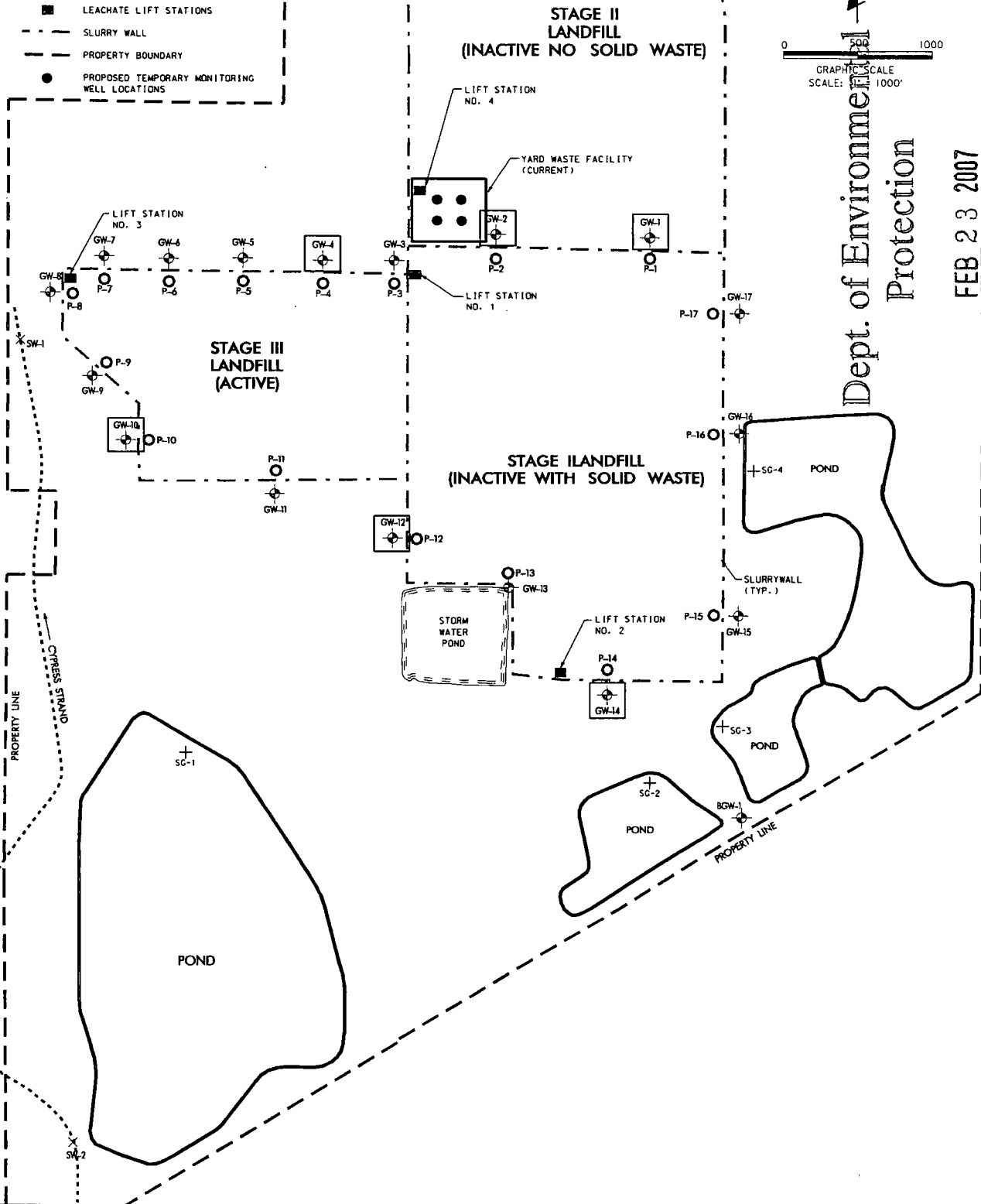
- GW-2 MONITORING WELL LOCATIONS
- SW-1 SURFACE WATER SAMPLING POINT
- P-10 PIEZOMETER LOCATIONS
- SG-3 STAFF GAUGE LOCATION
- LEACHATE LIFT STATIONS
- SLURRY WALL
- PROPERTY BOUNDARY
- PROPOSED TEMPORARY MONITORING WELL LOCATIONS

0 500 1000
GRAPHIC SCALE
SCALE: 1"=1000'

Dept. of Environmental
Protection

FEB 23 2007

Southwest District



PBS &

LENA ROAD LANDFILL
MANATEE COUNTY, FLORIDA

PROPOSED
SAMPLING LOCATIONS

FIG. 1

ATTACHMENT A

Temporary Well Construction Diagram,

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB 26 2007
SOUTHWEST DISTRICT
TAMPA

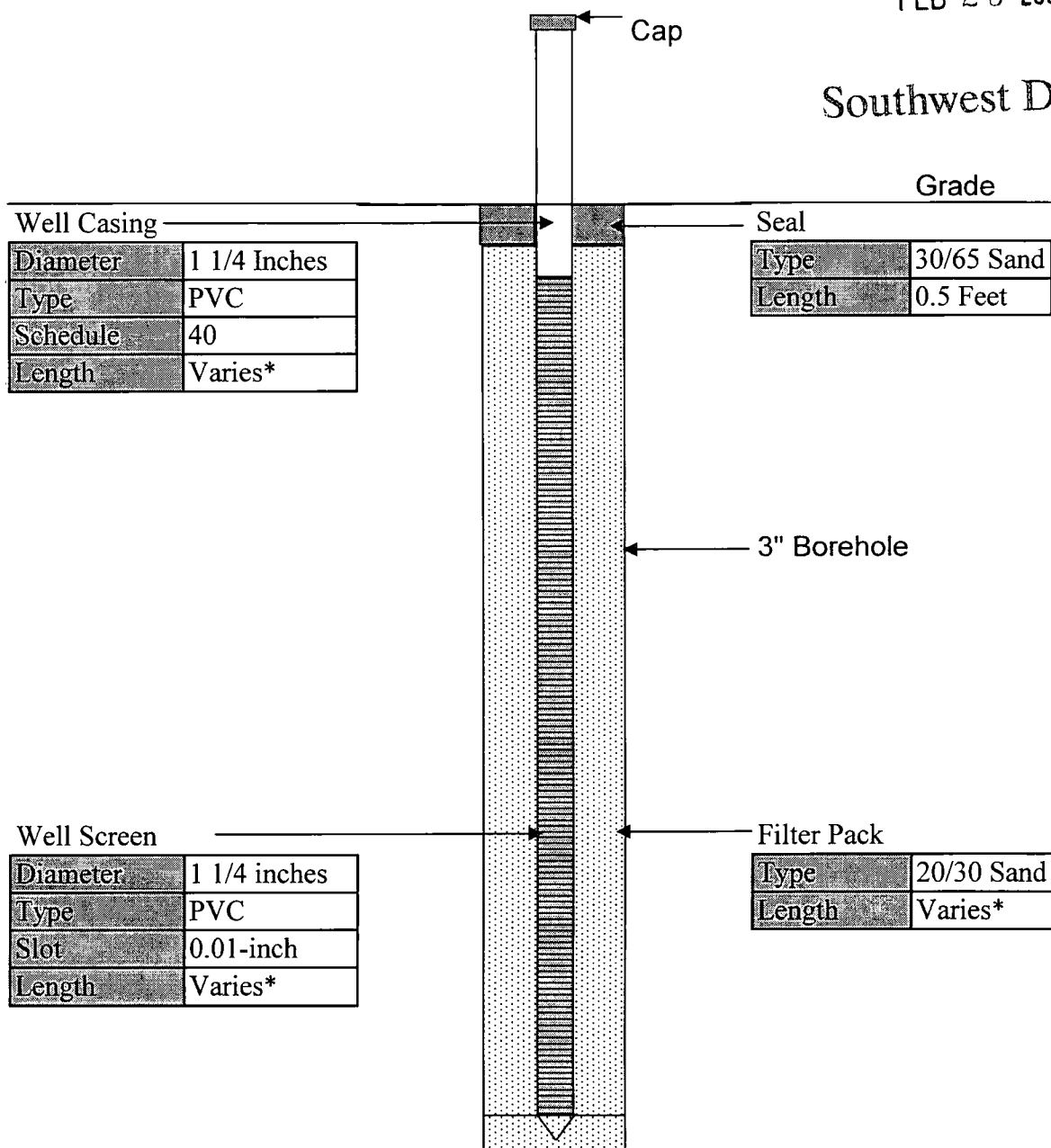
TEMPORARY MONITORING WELL CONSTRUCTION

DIAGRAM

Dept. of Environmental
Protection

FEB 23 2007

Southwest District



* Length of screen, riser, and sand pack will depend on the depth to groundwater.

PBS&J

Note: Not to scale.

Certification of Notice Publication

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB 26 2007
SOUTHWEST DISTRICT
TAMPA

BRADENTON HERALD

WWW.HERALDTODAY.COM
P.O. Box 921
Bradenton, FL 34206-0921
102 Manatee Avenue West
Bradenton, FL 34205-8894
941/748-0411 ext. 7065

Bradenton Herald
Published Daily
Bradenton, Manatee County, Florida

Dept. of Environmental
Protection

FEB 23 2007

Southwest District

STATE OF FLORIDA
COUNTY OF MANATEE;

Before the undersigned authority personally appeared Sandy Riley, 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, being a Legal Advertisement in the matter of **State of Florida** in the Court, was published in said newspaper in the issues of, **2/1,'07**

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.

Sandy Riley
(Signature of Affiant)

Sworn to and subscribed before me this
2nd Day of February 2007

DIANE S. BACRO
Notary Public
State of Florida
My comm. exp. 08-15-2007
Comm. No. DD 206531

Diane S. Bacro

SEAL & Notary Public

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 an application for permit modification from **Manatee County Utilities Operations Department, Mr. Daniel Gray, Director** for relocation of the yard trash processing facility 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 8:00a.m. to 5:00p.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. 2/1/07



Florida Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926
Telephone: 813-632-7600

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary - Designee

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

January 18, 2007

RE: Lena Road Landfill, Manatee County
Pending Modification No.: 39884-014-S0/MM, to
Operation Permit No. 39884-010-SO/01
Relocation of yard trash area

Dear Mr. Gray:

This is to acknowledge receipt of your permit modification application, dated December 18, 2006 (received December 19, 2006) prepared by Post, Buckley, Schuh & Jernigan (PBSJ), to relocate the onsite yard trash processing area 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.)]:

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

1. **Rule 62-701.300(1)(b), F.A.C.** Based on groundwater analytical results provided to the Department for monitoring well GW-2, from August 2005 through August 2006 it appears that GW-2 has exceeded Department groundwater standards for arsenic. Please provide information that demonstrates that the arsenic impacts at GW-2 are not related to operation of the yard trash processing facility. This information may include soil sampling results (total arsenic and SPLP for arsenic) and groundwater samples from additional temporary monitoring wells in the current yard trash processing area. Please provide a figure showing the proposed sampling locations, a schedule for providing the sampling results, and if temporary groundwater monitoring wells are proposed, the locations and construction details of those wells.

2. **Rules 62-701.320(5)(b), 62-701.320(7)(f), F.A.C.** Plan sheets titled, Manatee County Lena Road Landfill Yard Waste Facility Construction Plans, dated May 15, 2006, signed and sealed December 1, 2006. Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.

a. Please provide plan sheets that identify each sheet that is referenced to a "match line."

(Comment #2, cont'd)

b. Please provide plan sheets that accurately note the monitoring wells that are existing, previously abandoned, and proposed to be abandoned (e.g., see Sheet C-5).

c. Sheet C-8. Please clarify if the forcemain is for sanitary wastes from the office at the yard trash processing facility (YTPF) only. Please specify the size of the diesel tank. Please clarify if the diesel tank has containment.

d. Sheet C-10. Please reference the locations of the cross-sections to an appropriate sheet. Please provide elevations for the concrete pad that show the drainage. Please reference the location of the "proposed dumpster (typ) detail."

e. Sheet C-15. Please clarify the location of the "compactor and dumpster pad details" on a plan view. Please provide details of which of these configurations is used. Please clarify where the grit trap and drain discharges.

f. Sheet C-18. Please reference the sheet that includes the grinder pump station and wetwell details. Please provide elevations for all gravity drains.

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

Please respond **within 30 days** after you received this letter, 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 30 days to develop, you should develop a 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 66th Street West, Bradenton, Fl. 34210
Joseph Miller, P.E., PBSJ, 482 S. Keller Road, Orlando, Fl. 32810-6101
John Morris, P.G., FDEP Tampa
Ted Murray, FDEP Tampa- ERP

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 an application for permit modification from Manatee County Utilities Operations Department, Mr. Daniel Gray, Director for relocation of the yard trash processing facility 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.



An employee-owned company

December 18, 2006

Ms. Susan J. Pelz, P.E.
Solid Waste Manager
Florida Department of Environmental Protection
Southwest District Office - Solid Waste Section
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

YT relocation
mod #014
12/19/06

Dept. of Environmental
Protection

DEC 19 2006

Southwest District

**Re: Manatee County Lena Road Class I Landfill
FDEP Operation Permit 39884-010-SO/01
Minor Permit Modification for
Relocation of the Yard Waste Facility**

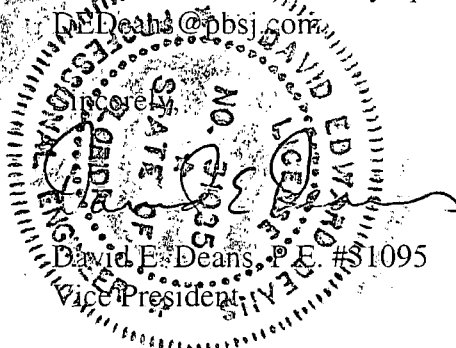
Dear Ms. Pelz:

On behalf of Manatee County, PBS&J is submitting an application for a minor permit modification to relocate the Yard Waste Facility from within the footprint of the Stage II Landfill. The processing of the yard waste will not change. Please find enclosed:

- Four copies of the application on pages 1 - 8 and page 40 of FDEP Form 62-701.900(1)
- Four copies of Fig. E-5A with the existing and proposed location for the Yard Waste Facility
- Four copies of the construction drawings for the proposed facility
- A check for \$250 as the permit application fee.

If you should have any questions, please call me at 407/806-4104, or send an email to:

DEDeans@pbsj.com

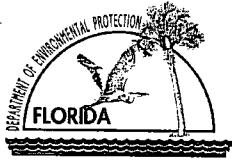


Attachments

cc: Daniel T. Gray, Director, Utility Operations Department
Gus DiFonzo, Solid Waste Manager
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division
File - 120498.41

U:\SO\Projects\Manatee County\SW-41 Yard Waste Facility\Permit Mod\FDEP transmittal Ltr.doc

FILE



Florida Department of Environmental Protection

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

DEP Form # 62-701.900(1)
Form Title Solid Waste Management Facility Permit
Effective Date 05-27-01

DEP Application No.

(Filled by DEP)

Dept. of Environmental
Protection

DEC 19 2006

Southwest District

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR A PERMIT TO CONSTRUCT,
OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

APPLICATION INSTRUCTIONS AND FORMS

Manatee County Solid Waste Management Facility
Lena Road Class I Landfill
WACS ID No: SWD-41-44795

Minor Permit Modification

RELOCATION OF THE YARD WASTE FACILITY

November 20, 2006

U:\SO\Projects\Manatee County\SW-41 Yard Waste Facility\Permit Mod\62-701.900.1.DOC

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

Central District
3319 Maguire Blvd., Ste. 232
Orlando, FL 32803-3767
407-894-7555

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes, (FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. -A minimum of four copies of the application shall be submitted to the Department's District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

- A. Landfills and Ash Monofills - Submit parts A,B, D through T
- B. Asbestos Monofills - Submit parts A,B,D,E,F,G,J,L,N, P through S, and T
- C. Industrial Solid Waste Facilities - Submit parts A,B, D through T
- D. Non-Disposal Facilities - Submit parts A,C,D,E,J,N,S and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A,B,C and D type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

- A. Landfills and Ash Monofills - Submit parts A,B,M, O through T
- B. Asbestos Monofills - Submit parts A,B,N, P through T
- C. Industrial Solid Waste Facilities - Submit parts A,B, M through T
- D. Non-Disposal Facilities - Submit parts A,C,N,S and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

S	-	Submitted
LOCATION'	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

VI. LISTING OF APPLICATION PARTS

PART A:	GENERAL INFORMATION - Submitted
PART B:	DISPOSAL FACILITY GENERAL INFORMATION - Submitted
PART C:	NON-DISPOSAL FACILITY GENERAL INFORMATION - Not Applicable
PART D:	PROHIBITIONS - Not Applicable
PART E:	SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL - Not Applicable
PART F:	LANDFILL PERMIT REQUIREMENTS - Not Applicable
PART G:	GENERAL CRITERIA FOR LANDFILLS - Not Applicable
PART H:	LANDFILL CONSTRUCTION REQUIREMENTS - Not Applicable
PART I:	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS - Not Applicable
PART J:	GEOTECHNICAL INVESTIGATION REQUIREMENTS - Not Applicable
PART K:	VERTICAL EXPANSION OF LANDFILLS - Not Applicable
PART L:	LANDFILL OPERATION REQUIREMENTS - Not Applicable
PART M:	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS - Not Applicable
PART N:	SPECIAL WASTE HANDLING REQUIREMENTS - Not Applicable
PART O:	GAS MANAGEMENT SYSTEM REQUIREMENTS - Not Applicable
PART P:	LANDFILL CLOSURE REQUIREMENTS - Not Applicable
PART Q:	CLOSURE PROCEDURES - Not Applicable
PART R:	LONG TERM CARE REQUIREMENTS - Not Applicable
PART S:	FINANCIAL RESPONSIBILITY REQUIREMENTS - Not Applicable
PART T:	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER - Submitted

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

☒ Disposal

☒ Class I Landfill

☐ Ash Monofill

☐ Class II Landfill

☐ Asbestos Monofill

☐ Class III Landfill

☐ Industrial Solid Waste

☐ Other Describe: _____

☐ Non-Disposal

☐ Incinerator For Non-biomedical Waste

☐ Waste to Energy Without Power Plant Certification

☐ Other Describe: _____

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC;
Land Clearing Disposal Facilities should notify on Form 62-701.900(3), FAC;
Compost Facilities should apply on Form 62-701.900(10), FAC; and
C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:

☐ Construction

☒ Operation

☐ Construction/Operation

☐ Closure

3. Classification of application:

☐ New

☐ Substantial Modification

☐ Renewal

☐ Intermediate Modification

☒ Minor Modification

4. Facility name: Lena Road Class I Landfill

5. DEP ID number: SWD-41-44795 County: Manatee

6. Facility location (main entrance): 3333 Lena Road, Bradenton, FL 34202

7. Location coordinates:

Section: 1 Township: 35S Range: 18E and Section: 31 Township: 34S Range: 19E
Section: 6 & 7 Township: 35S Range: 19E

Latitude: 27 ° 28 ' 10 " Longitude: 82 ° 26 ' 35 "

8. Applicant name (operating authority): Manatee County Government
Mailing address: 4410 66th Street West Bradenton, FL 34210
Street or P.O. Box City State Zip
Contact person: Daniel T. Gray Telephone: (941) 792-8811
Title: Utility Operations Director
E-Mail address (if available): dan.gray@co.manatee.fl.us
9. Authorized agent/Consultant: PBS&J
Mailing address: 482 South Keller Road Orlando, Florida 32810-6101
Street or P.O. Box City State Zip
Contact person: Joseph L. Miller, P.E. Telephone: (407) 647-7275
Title: Project Manager
E-Mail address (if available): jlmiller@pbsj.com
10. Landowner (if different than applicant): N/A
Mailing address: _____
Street or P.O. Box City State Zip
Contact person: _____ Telephone: (____) _____
E-Mail address (if available): _____
11. Cities, towns and areas to be served: All of Manatee County, both incorporated and unincorporated, Long Boat Key and small portions of neighboring counties.
12. Population to be served:
Current: 292,000 Five-Year Projection: 328,000
13. Date site will be ready to be inspected for completion: N/A
14. Expected life of the facility: Landfill Stages I, II and III - 65 years
15. Estimated costs:
Total Construction: \$ N/A Closing Costs: \$ N/A
16. Anticipated construction starting and completion dates:
From: N/A To: N/A
17. Expected volume or weight of waste to be received:
N/A yds³/day Received 1280 tons/day N/A gallons/day
Landfilled 1100 tons/day

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned under this application:

This application is for a minor modification to the Operation Permit to relocate the Yard Waste Facility from within the foot print of the Stage II landfill. The existing and proposed location for the Yard Waste Facility is shown on Figure E-5A included with this application. There will be no change in the operation of the Yard Waste Facility.

2. Facility site supervisor: Mike Gore

Title: Superintendent - Landfill Division Telephone: (941) 708-8562

mike.gore@co.manatee.fl.us

E-Mail address (if available)

3. Disposal area: Total 316 acres; Used 206 acres; Available 110 acres.

4. Weighing scales used: ☒ Yes ☐ No

5. Security to prevent unauthorized use: ☒ Yes ☐ No

6. Charge for waste received: N/A \$/yds³ 28 \$/ton

7. Surrounding land use, zoning:

☒ Residential

☐ Industrial

☒ Agricultural

☐ None

☐ Commercial

☒ Other Describe: Transportation & Utilities

8. Types of waste received:

☒ Residential

☒ C & D debris

☒ Commercial

☒ Shredded/cut tires

☐ Incinerator/WTE ash

☒ Yard trash

☐ Treated biomedical

☐ Septic tank

☒ Water treatment sludge

☐ Industrial

☐ Air treatment sludge

☐ Industrial sludge

☒ Agricultural

☒ Domestic sludge

☒ Asbestos

☐ Other Describe:

9. Salvaging permitted: ☐ Yes ☒ No

10. Attendant: ☒ Yes ☐ No Trained operator: ☒ Yes ☐ No

11. Spotters: Yes ☒ No ☐ Number of spotters used: 16

12. Site located in: ☐ Floodplain ☐ Wetlands ☒ Other Uplands

13. Property recorded as a Disposal Site in County Land Records: ☐ Yes ☒ No
14. Days of operation: Monday through Saturday
15. Hours of operation: 8:00 a.m. to 5:00 p.m.
16. Days Working Face covered: Monday through Saturday
17. Elevation of water table: 29 Ft. (NGVD 1929)
18. Number of monitoring wells: 18
19. Number of surface monitoring points: 2
20. Gas controls used: ☒ Yes ☐ No Type controls: ☒ Active ☐ Passive
Gas flaring: ☒ Yes ☐ No Gas recovery: ☐ Yes ☒ No
21. Landfill unit liner type:
- | | |
|---|--|
| <input checked="" type="checkbox"/> Natural soils | <input type="checkbox"/> Double geomembrane |
| <input type="checkbox"/> Single clay liner | <input type="checkbox"/> Geomembrane & composite |
| <input type="checkbox"/> Single geomembrane | <input type="checkbox"/> Double composite |
| <input type="checkbox"/> Single composite | <input type="checkbox"/> None |
| <input checked="" type="checkbox"/> Slurry wall | |
| <input type="checkbox"/> Other Describe: _____ | |
22. Leachate collection method:
- | | |
|--|---|
| <input checked="" type="checkbox"/> Collection pipes | <input type="checkbox"/> Sand layer |
| <input type="checkbox"/> Geonets | <input type="checkbox"/> Gravel layer |
| <input type="checkbox"/> Well points | <input type="checkbox"/> Interceptor trench |
| <input type="checkbox"/> Perimeter ditch | <input type="checkbox"/> None |
| <input type="checkbox"/> Other Describe: _____ | |
23. Leachate storage method:
- ☐ Tanks
- ☐ Surface impoundments
- ☒ Other Describe: None
24. Leachate treatment method:
- | | |
|--|---|
| <input type="checkbox"/> Oxidation | <input type="checkbox"/> Chemical treatment |
| <input type="checkbox"/> Secondary | <input type="checkbox"/> Settling |
| <input type="checkbox"/> Advanced | |
| <input checked="" type="checkbox"/> None | |
| <input type="checkbox"/> Other _____ | |

25. Leachate disposal method:

<input type="checkbox"/> Recirculated	<input checked="" type="checkbox"/> Pumped to WWTP
<input type="checkbox"/> Transported to WWTP	<input type="checkbox"/> Discharged to surface water
<input type="checkbox"/> Injection well	<input type="checkbox"/> Percolation ponds
<input type="checkbox"/> Evaporation	
<input type="checkbox"/> Other _____	

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: ☒ Yes ☐ No

Type of treatment: Sand filter

Name and Class of receiving water: Cypress Strand, Gates Creek via on-site wetlands
Class III.

28. Environmental Resources Permit (ERP) number or status: MSSW Permit #403143.01

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Manatee County Government
Utility Operations Department is aware that statements made in this form and attached
information are an application for a minor modification Permit from the Florida
Department of Environmental Protection and certifies that the information in this
application is true, correct and complete to the best of his/her knowledge and
belief. Further, the undersigned agrees to comply with the provisions of Chapter
403, Florida Statutes, and all rules and regulations of the Department. It is
understood that the Permit is not transferable, and the Department will be notified
prior to the sale or legal transfer of the permitted facility.

Dan T. Gray
Signature of Applicant or Agent
Daniel T. Gray
Utility Operations Director
Name and Title (please type)
dan.gray@co.manatee.fl.us
E-Mail address (if available)

4410 66th Street West
Mailing Address
Bradenton, FL 34210
City, State, Zip Code
(941) 792-8811
Telephone Number

Date: 12/12/06

Attach letter of authorization if agent is not a governmental official, owner, or
corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under
Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this solid waste management
facility have been designed/examined by me and found to conform to engineering
principles applicable to such facilities. In my professional judgment, this
facility, when properly maintained and operated, will comply with all applicable
statutes of the State of Florida and rules of the Department. It is agreed that the
undersigned will provide the applicant with a set of instructions of proper
maintenance and operation of the facility.

David E. Deans
Signature
David E. Deans, P.E., Vice President
~~Project Manager~~
Name and Title (please type)
80177
Florida Registration Number
(please affix seal)

482 South Keller Road
Mailing Address
Orlando, Florida 32810-6101
City, State, Zip Code

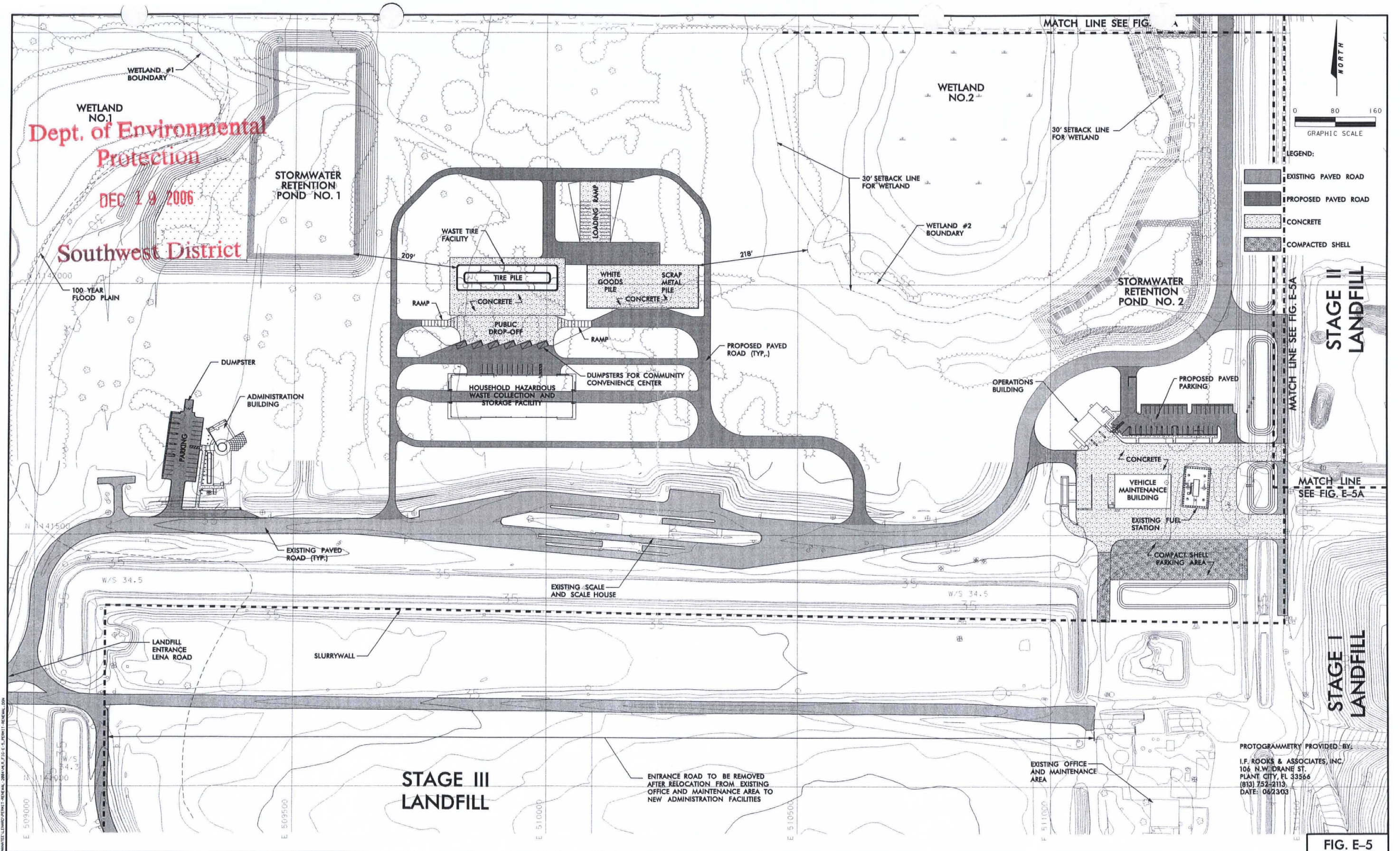
dedeans@pbsj.com
E-Mail address (if available)

407) 806-4153
Telephone Number

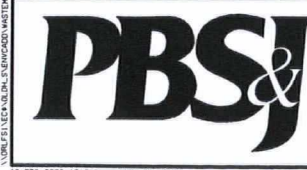
Date: December 18, 2006
~~December 11, 2006~~

Dept. of Environmental
Protection

DEC 19 2006



PROTOGRAMMETRY PROVIDED BY:
I.F. ROOKS & ASSOCIATES, INC.
104 N.W. DRANE ST.
PLANT CITY, FL 33566
(813) 752-2113
DATE: 06/23/03

 <p>482 South Keller Road Orlando, FL 32810-6101 Tel. (407) 647-7275 Fax: (407) 647-0824 www.pbsj.com</p> <p>PORT: BUCKLEY, SCHULZ & JERNIGAN, Inc. dba: PBS&J 3001 N.W. 107th Ave, Miami, FL 33178-2607 FDB's Certificate of Authorization No. 34</p>	<p>CLIENT</p> <p>MANATEE COUNTY</p> <p>BOARD OF COUNTY COMMISSIONERS</p>	<p>PROJECT</p> <p>SOLID WASTE MANAGEMENT FACILITY</p> <p>LENA ROAD</p>	<p>TASK</p> <p>PROPOSED ADMINISTRATION</p> <p>FACILITIES</p> <p>SITE PLAN</p>	<p>ORIGINAL MAY 2004</p> <p>REVISIONS:</p> <p>1. AUG. 2006</p> <p>2.</p> <p>3.</p> <p>4.</p> <p>5.</p>	<p>Name: JOSEPH L. MILLER</p> <p>Florida P.E. No.: 89177</p> <p>Address: PBS&J 482 S. Keller Road Orlando, FL 32810-6101</p> <p>Signature _____ Date _____</p>	<p>JOB NO. 00-000.00</p> <p>DRAWN: RGC</p> <p>DESIGN: JLM/RGC</p> <p>CHECKED: JLM</p> <p>Q.C.: DED</p> <p>SHEET /</p>
---	--	--	--	--	--	--

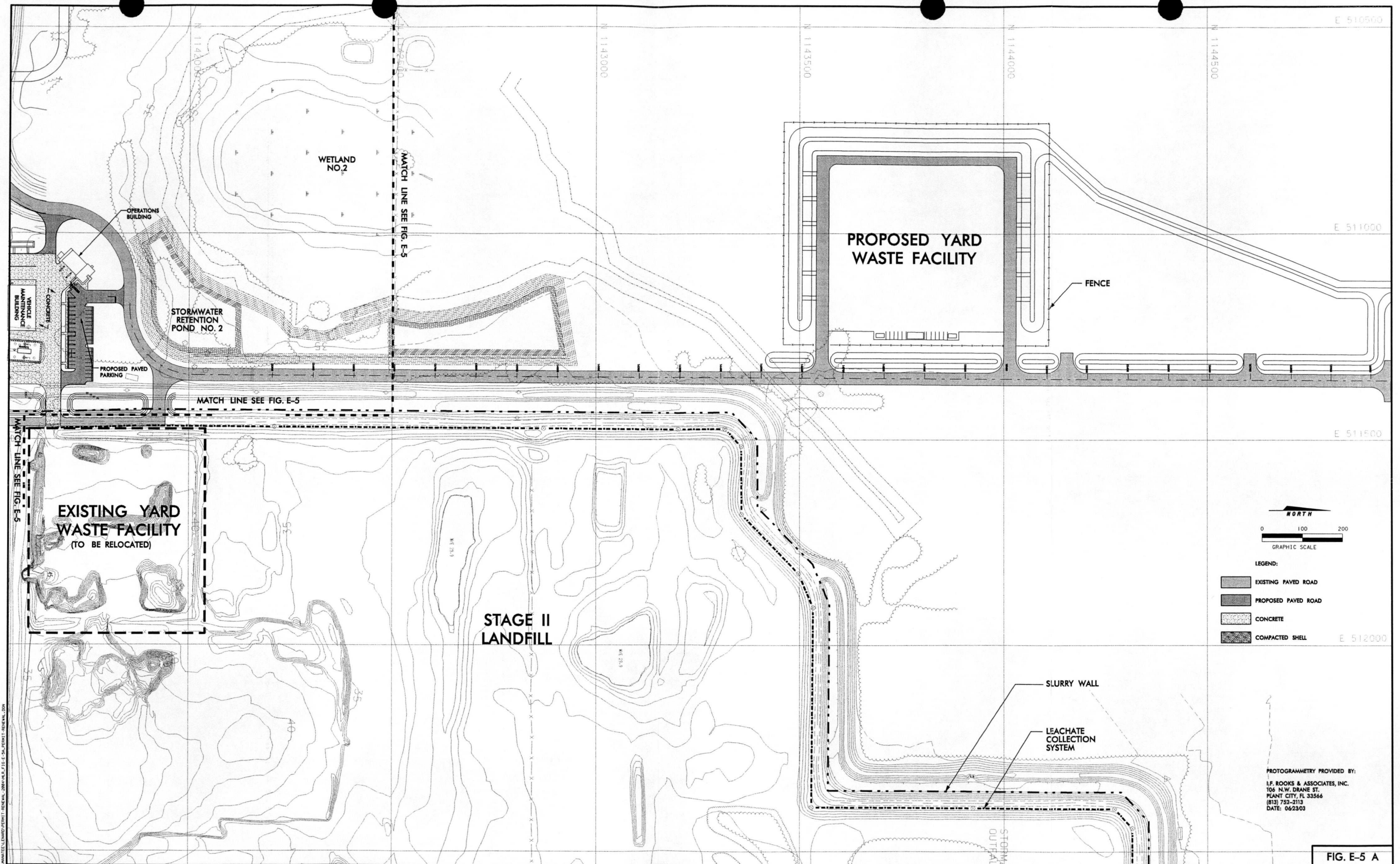



FIG. E-5 A

 <p>488 South Keller Road Orlando, FL 32810-6101 Tel. (407) 647-7275 Fax. (407) 647-0824 www.pbsj.com</p> <p>PORT BUCKLEY, SCHUH & JERNIGAN, Inc. aka PBS&J 3001 N.W. 107th Ave., Miami, FL 33178-3507 FBI# Certificate of Authorization No.: 84</p>	CLIENT	PROJECT	TASK	ORIGINAL NOV. 2006 REVISIONS: 1. _____ 2. _____ 3. _____ 4. _____ 5. _____	Name: JOSEPH L. MILLER Florida P.E. No.: 90177 Address: PBS&J 488 S. Keller Road Orlando, FL 32810-6101 Signature _____ Date _____	JOB NO. 00-000.00 DRAWN <u>RGC</u> DESIGN <u>JLM/RGC</u> CHECKED <u>JLM</u> O.C. <u>DED</u> SHEET /
	MANATEE COUNTY	SOLID WASTE MANAGEMENT FACILITY	YARD WASTE FACILITY			
	BOARD OF COUNTY COMMISSIONERS	LENA ROAD	RELOCATION			
			SITE PLAN			

**Southwest District
Permitting Application**

New Site

fyg

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

Existing Site

Site ID:	39884 -014
Project Name:	LENA ROAD LANDFILL
Type/Subcode:	\$0/MM
Fee submitted:	\$ 250.00 (X) correct () incorrect
Total Fee Required \$	250.00
Need \$	0
Refund \$	0

Applicant Information

Name:	DANIEL T. GRAY
Role:	APPLICANT
Company:	MANATEE COUNTY UTILITY OPERATIONS DEPT.
Address:	4410 66 TH ST WEST
City:	BRADENTON
Zip Code:	34210
Phone:	941-792-8811

Fee verified by: J. R. MORAN

Application Assigned To: SJ PERZ Date: 12/21/06



482 South Keller Road
Orlando, Florida 32810

An employee-owned company

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

0745736

CHECK DATE
November 17, 2006

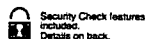
PAY Two Hundred Fifty and 00/100 Dollars

AMOUNT \$250.00

TO FLORIDA DEPT. OF ENVIRONMENTAL
PROTECTION

PBS

OPERATIONAL ACCOUNT



⑈0745736⑈ ⑆061112788⑆ 003299831588⑈

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE



482 South Keller Road Orlando, Florida 32810

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

0745736

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
PERMIT APP FEE	11/16/06	0784374	250.00			250.00
FLORIDA DEPT. OF ENVIR. PR 099 1		Totals	250.00			250.00

Dept. of Environmental
Protection

DEC 19 2006

Southwest District

12/19
50
D. J. J.

**Southwest District
Permitting Application**

leg

New Site

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

Existing Site

Site ID:	39884	
Project Name:	LENA ROAD LANDFILL	
Type/Subcode:	SO/MM	
Fee submitted:	\$ 250.00 (X) correct	() incorrect
Total Fee Required \$ 250.00 Need \$ ϕ Refund \$ ϕ		

Applicant Information

Name:	DANIEL T. GRAY	
Role:	APPLICANT	
Company:	MANATEE COUNTY UTILITY OPERATIONS DEPT.	
Address:	4410 66 TH ST WEST	
City:	BRADENTON	Zip Code: 34210
Phone:	941- 792- 8811	

Fee verified by: J.R. Morris

Application Assigned To: SJPEZ Date: 12/21/06



482 South Keller Road
Orlando, Florida 32810

An employee-owned company

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

0745736

CHECK DATE
November 17, 2006

PAY Two Hundred Fifty and 00/100 Dollars

AMOUNT \$250.00

TO FLORIDA DEPT. OF ENVIRONMENTAL
PROTECTION

PBS&J

OPERATIONAL ACCOUNT



⑈0745736⑈ ⑆061112788⑆ 003299831588⑈

VOID AFTER 90 DAYS

AUTHORIZED SIGNATURE



482 South Keller Road Orlando, Florida 32810

EMILY BUSINESS FORMS 800.392.6018 ADVANTAGE

0745736

Invoice Number	Date	Voucher	Amount	Discounts	Previous Pay	Net Amount
PERMIT APP FEE	11/16/06	0784374	250.00			250.00
FLORIDA DEPT. OF ENVIR. PR 099 1		Totals	250.00			250.00

Dept. of Environmental
Protection

DEC 19 2006

Southwest District

12/19
50
D. J. J.



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Colleen M. Castille
Secretary

Lena Rd 4F

NOV - 8 2006

Lena Road Landfill
c/o Anthony D. Russo
PBS&J
2803 Fruitville Road, Suite 103
Sarasota, FL 34237

File No.: 41-0177559-009
Applicant: Lena Road Landfill- Yard Waste Facility

Dear Mr. Russo:

This is to acknowledge receipt of your application on October 9, 2006 for a permit modification, pursuant to Part IV, Chapter 373, Florida Statutes, and an authorization to use state-owned submerged lands, pursuant to Chapters 253 and 258, Florida Statutes, to perform the expansion of an existing 30 foot wide roadway and corresponding potable water, reuse water, and sanitary utility lines to a proposed 215,600 square foot concrete slab to be used for collecting and mulching yard waste. The project is located at 3333 Lena Road, Bradenton, Section 31, Township 34 South, Range 19 East, Manatee County.

In order to review your application, we need 3 copies of the items listed in **Part I** of the enclosed request for additional information (RAI) within 90 days from the date of this letter. If necessary, you may request an extension up to 90 additional days. If neither the information nor a request for an extension is received within 90 days from the date of this letter, your application may be denied without prejudice. If you revise your project after submitting the initial joint application, please contact us as soon as possible.

Your project may also require authorization to use sovereignty submerged lands, pursuant to Chapter 253.77, Florida Statutes. The Department's Title and Land Records Section is reviewing your application to determine if state-owned submerged lands will be affected. If state-owned submerged lands will be affected by your project, we will notify you in writing, and the items in **Part II** of the enclosed RAI will also be required. For expediency, if you acknowledge or believe that your project affects sovereign submerged lands you may respond to Part II of the RAI, prior to receiving written confirmation of state ownership. This will not jeopardize any future claim of ownership.

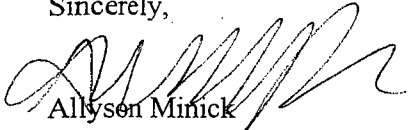
This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.

"More Protection, Less Process"

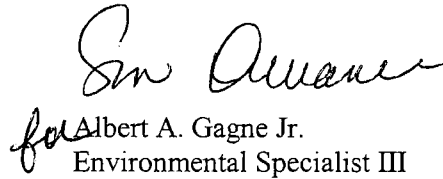
Printed on recycled paper.

We appreciate your cooperation. If you have questions, please contact Allyson Minick at (813)-632-7600, extension 430.

Sincerely,



Allyson Minick
Environmental Specialist II
Environmental Resource Management
Southwest District



Albert A. Gagne Jr.
Environmental Specialist III

Enclosure: RAI Response Cover Sheet
Part I – Fill, Stormwater
Part II – Consent of Use
62-345 F.A.C. (UMAM)
SLER 0960, SLER 0915

cc: Susan Pelz, FDEP, Solid Waste
Tim Hochuli, Project Management Director, Manatee County, 1022 26th Avenue East,
Bradenton, FL 34208

FILL
(62-343 Florida Administrative Code)
Part I

1. In addition to the 8 ½ by 11 project drawings submitted with the application please provide the Department with large (24" x 36") engineered drawings to facilitate project review.
2. Please provide the Department with a letter of authorization from the Florida Fish and Wildlife Conservation Commission for the onsite relocation of the Gopher Tortoises expected to be within the project area. Please include a location map of the thirteen burrows and a detailed description of construction procedures and methods that will be utilized to protect the Gopher Tortoises and other listed threatened or endangered species. Also, please provide any correspondence from the Florida Fish and Wildlife Conservation Commission and the U.S. Fish and Wildlife Services pertaining to the proposed project. Please refer Section E, Part II, A, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1)F.A.C.
3. Please be advised that your response Section E, Part II, B, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1)F.A.C, indicates that an erosion and sediment control plan will be implemented during construction of the project therefore, please provide the Department a copy of this plan for review.
4. Please provide the Department with the existing topography extending at least 100 feet off the project area, and including adjacent wetlands and other surface waters. All topography should include the location and description of known benchmarks referenced to NGVD. Please refer to Section E, Part III, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1) F.A.C.
5. Please be advised that your response Section E, Part II, C, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1) F.A.C, indicates that mitigation is not proposed due to the large amount of Brazilian Pepper. However, the environmental reports submitted as Attachment 3 indicate that there is very little undesirable vegetation both in the uplands and wetlands at the project site. Please provide the Department with clarification.
6. Pursuant to Chapter 62-343.900(1)F.A.C, Section E, Part IV, please provide a construction schedule and a description of construction techniques sequencing and equipment for the proposed project in its entirety. Please include the roadway extension, utility line installation, the yard waste facility, etc.
7. Please be advised that your response Section E, Part IV, C, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1)F.A.C, indicates that clean fill soils and riprap will be placed in the wetland areas. Please provide the Department with the location of the proposed riprap, the type and size of material to be utilized as riprap, and the method of installation. Please revise your application submittal to include the riprap in the project description as well as the project drawings.

8. Please be advised that your response Section E, Part IV, E, of the Joint Application for an Environmental Resource Permit, Chapter 62-343.900(1)F.A.C, indicates that the contractor will be responsible for implementing a dewatering plan, if necessary. Please provide the Department will require complete dewatering details for the project site including, the methods proposed to contain discharge, methods of isolating dewatering areas, etc. In addition, please provide the period of time the dewatering structures will be in place.

STORMWATER

The Departments Stormwater Evaluation section offers the following comments and questions. Please contact Douglas Hyman at (813) 632-7600, extension 393 for further information or clarification.

Please be advised that several responses provided to Section E, Part IV of the joint application refer to the SWPPP and Drainage Report. Please note that these items were not recieved as part of this application package. Therefore, please proceed in answering the following questions.'

1.
 - a. In conformance with Basis of Review sub-section 2.8, the Department requires a complete construction surface water management plan with the permit application. Best management practices for erosion and sediment control will be utilized to prevent violations of state water quality standards. These shall be shown on P.E. signed and sealed drainage plans around all proposed activity areas including the proposed spreader swale, yard waste pad, wet detention pond and the road construction as well as at construction entrances and exits, in order to prevent the deposition of sediment or turbidity into on or off-site wetlands, and to prevent flooding or violations of state water quality standards.
 - b. Please locate the contractor staging/lay-down area, and describe what erosion and sediment control measures will be installed and maintained around that area during construction, and future operational activities (if that area will be permanently utilized). Please clarify how this area will be restored to natural and pristine or to pre-development conditions when abandoned.
 - c. Please locate the temporary/permanent construction entrances and exits. Show appropriate BMPs such as anti tracking devices for trucks and equipment to prevent sediments from being tracked.
2.
 - a. Please provide construction drawings signed and sealed by a Florida Registered Professional Engineer showing the location and details of the surface water treatment system including the stabilized swales or pipes by which runoff from the yard waste facility will be directed to the proposed wet pond.
 - b. Please provide engineering plan and section views of the proposed wet detention pond including NWL and how it was obtained, BOT, DLW, DHW, and TOB level pool areas and elevations, volume vs. stage table, side slopes and side slope stabilization, sediment sump(s) with calculations as required by Basis of Review sub-section 6.8, littoral zone locations and area, inlets into pond, etc.
 - c. The wet detention pond engineering calculations were missing from the application. Show pre vs post, etc., in conformance with the Basis of Review and please ensure that the design partakes of one of the three designs referenced in SWFWMD TP SWP/-022.

- d. Is the project in an open or closed drainage basin?
 - e. The proposed control structure shall be outfitted with a properly fitted sediment-oil-grease skimmer or baffle.
 - f. Please provide TW time stage table and provide explanation of its derivation.
3. Please provide a detailed and comprehensive Facility SWMS O & M Plan.
4. The proposed road(s) shall have runoff collected, pre-treated and attenuated. Please show the treatment BMP(s) and stormwater calculations.
5. a. Please demonstrate that the culverts can one, pass the normal high water stages of the water body being crossed without upstream flooding impacts, and two, that the hydroperiod of the wetland shall be maintained and not be adversely affected.
- b. Clean fill used for the crossing must be obtained from uplands or from a dredge site which is in compliance with the permitting requirements of Part IV of Chapter 373, F.S., as applicable;
- c. Please provide erosion control where the three proposed 36" ADS culverts outfall into the wetland.
6. Have all roads internal to site including the yard waste pad been referenced on the plans?
7. a. Please clarify whether any existing roads shall be utilized to access the proposed project. Water quality BMPs should be incorporated for runoff from those road surfaces.
- b. Please clarify whether runoff from the permitted entrance road to the general facility, particularly the area around the intersection of the permitted entrance road with any roadway under a different owner such as the County, is collected, pre-treated and attenuated under an existing ERP? If not, provisions may have to be in the works to pre-treat the runoff since Chapter 40D-4.041 stipulates this requirement since there may be an increase in pollutant loading.
8. Please provide NWL and seasonal high elevations for wetlands associated with any proposed impacts.
9. Please provide adequate assurances that the clearance distances between the proposed culverts and the utility pipes meet or exceed the requirements of the applicable regulations, eg., 62-555 for potable water piping, etc.).
10. Please clarify whether the proposed swale 120 is trans-located in drawings 1, 2, 3. That is, it appears to be too far south in sheet 2.
11. If dewatering is required, please contact Yanisa Angulo, P.E., FDEP Industrial Wastewater 813-744-6100).
13. Any potable water wells nearby?

14. a. Please clarify what type of solid waste permit is being applied for from the Department's solid waste section. Please precisely describe the components of the yard waste. Is there any hazardous waste? Will leachate or hazardous waste in the runoff be produced? Please describe the vehicular, truck and equipment access points into the facility and the parking facility. The Department recommends low impact development BMPS wherever practicable such as in the parking areas. Is the applicant willing to go with some pervious pavement?
- b. Please locate any temporary or permanent fueling or equipment wash or maintenance facilities for the project.
- c. Storm water management facilities shall be avoided in excessively drained sandy soils and karst areas.
- d. Please provide adequate assurances that stormwater runoff from the delivery area(s) shall not flow into storage/curing or processing areas, which could reintroduce pathogens, insects, and weed seeds. Swales and berms are the most common methods of detaining and retaining water.

Below are staff comments and / or recommendations. Your project will not be held incomplete if you do not respond to the following:

1. Please be advised, the applicant must provide evidence of attempts to eliminate or reduce adverse impacts to biological resources. Be advised that design modifications to reduce or eliminate adverse impacts must be explored as outlined in the Basis of Review, section 3.2.1.1. Any adverse impacts remaining after practicable design modifications have been implemented may be offset by mitigation as described in subsection 3.3 through 3.8. In order to receive approval, a project cannot cause a net adverse impact on wetland functions or surface water functions, which are not offset by mitigation. Has the applicant considered installing a clear span bridge to cross the natural creek? Has the applicant considered directionally drilling the necessary utilities beneath the natural creek to avoid impacts?
2. The Department will require you to submit a mitigation proposal that will adequately offset the proposed impacts associated with your project. Pursuant to Section 373.414 (18), Florida Statute and Chapter 62-345.300, Florida Administrative Code the applicant or the applicant's agent must use the Uniform Mitigation Assessment Method in determining the appropriate type and amount of mitigation required for the proposed impacts. Attached are Chapter 62-345, F.A.C. and the applicable forms for your use. The proposal could include wetland creation, restoration or preservation.

FOR YOUR INFORMATION

Your project is in Class III Waters. **According to 373.414(1), F.S., you must provide reasonable assurance that state water quality standards applicable to waters, as defined in 403.031(13), F.S., will not be violated.** The specific state water quality standards for Class Waters are contained in F.A.C. Rules 62-302.500, 510, and 530. The specific state water quality standards for Outstanding Florida Waters are contained in F.A.C. Rule 62-4.242.

Your project may be located within or adjacent to threatened or endangered species habitat and may be affected by comments from those entities having special interest in the project. Modifications to your project may be necessary upon receipt of the requested comments.

An inspection of the project site may be conducted to determine and evaluate the resources expected to be impacted. Project modifications may be required following the inspection.

In addition, you must provide reasonable assurance that this activity is not contrary to the public interest. However, if an activity significantly degrades or is within an Outstanding Florida Water (OFW), that project must be shown to be clearly in the public interest. Your project is not within an OFW. In determining whether a project is not contrary to the public interest, the Department will consider and balance the following criteria:

1. Whether the project will adversely affect the public health, safety, or welfare or the property of others;
2. Whether the project will adversely affect the conservation of fish and wildlife, including endangered or threatened species, or their habitats;
3. Whether the project will adversely affect navigation or the flow of water or cause harmful erosion or shoaling;
4. Whether the project will adversely affect the fishing or recreational values or marine productivity in the vicinity of the project;
5. Whether the project will be of temporary or permanent nature;
6. Whether the project will adversely affect or will enhance significant historical and archeological resources under the provisions of section 267.061; and
7. The current condition and relative value of functions being performed by areas affected by the proposed activity. [See 373.414, F.S.]

The Department, in deciding to grant or deny a permit, shall consider measures proposed by or acceptable to the applicant to mitigate adverse effects which may be caused by the project. If the applicant is unable to meet water quality standards because existing ambient water quality does not meet standards, the Department shall consider mitigation measures proposed or acceptable to the applicant that cause net improvement of the water quality in the receiving body of water for those parameters which do not meet standards. Before considering mitigation, all practicable measures must first be taken to reduce the adverse effects which otherwise render the project unpermittable. [373.414(b), F.S.]

PUBLIC EASEMENT

(Chapters 18-18, 18-20 or 18-21, Florida Administrative Code)

Part II

Please be advised that if your proposed activity is determined to affect State Owned Sovereign Submerged Lands the following information will be required.

1. Please be advised that Pursuant to 18-21.004(2)(i) F.A.C. activities on sovereignty lands shall be designed to minimize or eliminate adverse impacts on fish and wildlife habitat, and other natural or cultural resources. Please provide the Department with attempts to minimize or avoid impacts to surface waters and wetlands. Has the applicant considered constructing the a clear span bridge to minimize impacts at the project site?
2. Please be advised that Pursuant to 18-21.004(2)(i) F.A.C. activities involving the placement of fill material below the ordinary high water line or mean high water line shall not be approved unless it is necessary to provide shoreline stabilization, access to navigable water, or for public water management projects. Therefore, please revise your application accordingly.

PUBLIC EASEMENT

1. Provide a \$512 processing fee payable to the Department of Environmental Protection. If you are requesting to construct outside your riparian property lines, the adjacent affected riparian owner must enter into the lease as a co-lessee.
2. Provide evidence of title to the subject riparian upland property in the form of a recorded deed, title insurance, legal opinion of title, or a long-term lease which includes riparian rights. Evidence submitted must demonstrate that the applicant has sufficient title interest in the riparian upland property. An Affidavit of Ownership or Control may suffice as satisfactory evidence of title for federal, state and local government entities and those that qualify as Public Utilities.
3. An acceptable sketch and description of the proposed easement area will be required. Refer to the enclosed package (SLER 0960 or 0961) for specific requirements and information.
4. Complete and return the enclosed Certification of Authorized Entity (SLER 0915). Refer to the enclosed information sheet detailing who is considered to be the individual authorized to execute easements.
5. Provide either a copy of your local government permit, a copy of an intent to issue a permit from your local government, or a statement from local government which explicitly indicates that the proposed project is consistent with the local government's comprehensive plan.
6. Requests for public easements must be noticed. Provide a list of names and addresses of all property owners within a 500 foot radius of the proposed easement area. This list must be verified by the County Property Appraiser's Office as coming from the latest tax

assessment rolls. Specific written instructions and a notice to proceed (SLER 0905) with noticing will be provided to you at the appropriate time during the application process. Do not proceed with advertising until you are specifically notified by staff to do so.

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x J.M. Farley, Interim District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

DATE: July 7, 2006

FILE NAME: Manatee County Lena Road LF

PROGRAM : Solid Waste

Mod #39884-013-SO/MM

PERMIT #: 39884-010-SO/01

COUNTY : Manatee

TYPE OF PERMIT ACTION: x ISSUE DENY x MODIFY
 TRANSFER OWNER NOD
 PUBLIC NOTICE INTENT TO ISSUE

PUBLIC NOTICE PERIOD CLOSED?

PETITION FILED?

PERMIT SUMMARY: This permit is to allow a change in the sequence of filling for the existing Lena Road Class I landfill.

PROFESSIONAL RECOMMENDATION: x APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department Rules.

To 07/07/06, TIH=149	TTP=108		TTP
Application received		02/08/06	
RAI #1 sent		03/07/06	28
Response received		04/19/06	
Application complete		04/19/06	
Final permit for routing		07/07/06	80

DAY 90/30 FOR THIS ACTION IS: ASAP- Day 90=07/17/06

7004 0750 0003 0516 7531

U.S. Postal Service™
CERTIFIED MAIL™ RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	

Marked
7-10-06
Postmark Here **AB**

Total Postage

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

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

PS Form 3800, June 2002

See Reverse for Instructions

ISSUED PERMIT # 39884-013-SO/MM

SENDER: LENA ROAD LIFE MOD TO

Complete items 1 and/or 2 for additional services.
Complete items 3, 4a, and 4b. #39884-010-SO/01
At 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:

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

As Article Number
7004 0750 0003 0516 7531

4b. Service Type

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

7. Date of Delivery

7-11-06

5. Received By: (Print Name)

KATHRYN Meyers

6. Signature: (Addressee or Agent)

Kathryn Meyers

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

Dept. of Environmental
Protection

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

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

Jul 10 2005

Southwest District

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



Jeb Bush
Governor

Department of Environmental Protection

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Colleen M. Castille
Secretary

CERTIFIED MAIL 7004 0750 0003 0516 7531
RETURN RECEIPT REQUESTED

July 10, 2006

NOTICE OF PERMIT

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

RE: Lena Road Class I Landfill
Sequence of filling modification
Modification #39884-013-SO/MM to existing
Operation Permit 39884-010-SO/01

Dear Mr. Gray:

Attached is modified Operation Permit 39884-010-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 39884-013-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
A.2.a(10)	Existing	Amended	Drawings replaced by new permit documentation
A.2.e.	N/A	New	New permit documentation
A.3.c., C.1.a., C.7.	Existing	Amended	References new drawings
D.1.c., D.3.a., E.11., E.12.	Existing	Amended	References new SWD office address

This letter and its attachments constitute a **complete permit** and **replace** all previous permits and permit modifications for the above referenced facility.

"More Protection, Less Process"

Printed on recycled paper.

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.

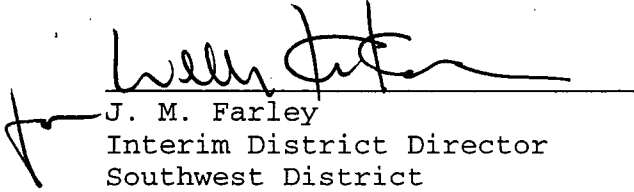
A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

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



J. M. Farley
Interim District Director
Southwest District

JMF/sjp
Attachment

Copies furnished to:

Manatee County Board of County Commissioners
Manatee County Notification List
Gus DiFonzo, Manatee Co., 4410 66th St. West, Bradenton, Fl. 34210
Joseph L. Miller, P.E., PBSJ, 482 South Keller Rd., Orlando, Fl. 32810
Chris McGuire, OGC Tallahassee
Fred Wick, FDEP Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
(Permit Notebook)

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on July 10, 2006 to the listed persons.
(date stamp)

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 Blah
Clerk

7/10/2006
Date



Department of Environmental Protection

Jeb Bush
Governor

Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Telephone: 813-632-7600

Colleen M. Castille
Secretary

PERMITTEE

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

PERMIT/CERTIFICATION

WACS ID No: SWD-41-44795
Permit No: 39884-010-SO/01
Date of Issue: 06/13/2005
Expiration Date: 06/13/2010
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
Landfill

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 on file with the Department and made a part hereof and specifically described as follows:

To operate, monitor and maintain a landfill and related facilities (approximately 316 acres), referred to as the Lena Road Class I Landfill, subject to the specific and general conditions attached, for disposal of solid waste, located 3333 Lena Road, Bradenton, Manatee County, Florida. The specific conditions attached are for the operation, monitoring and maintenance of:

1. Lena Road Class I Landfill Facility and related appurtenances

Replaces Permit No.: 39884-001-SO (as modified)

Includes modification #s: 39884-012-SO/MM, issued 10/11/05
39884-013-SO/MM, Issued 07/10/2006.

General Information:	
Disposal acres	316 acres
Bottom liner design	Natural Soils (approx. el. +29 ft. NGVD-see Sheet C-3, ref. SC#A.2.a(10)) w/perimeter slurry wall
LCS design	Underdrains and lift stations, slurry wall keyed into the underlying natural clay unit
LDS design	none
Final elevation	+136 feet NGVD [ref. SC#A.2.a(2)]
Slopes	5H:1V, top slope 1%, intermediate cover 2%

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.

"More Protection, Less Process"

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:

GENERAL CONDITIONS:

(General Condition #7, cont'd)

- (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.

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.

GENERAL CONDITIONS:

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

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. **Landfill Designation.** This site shall be classified as a Class I landfill and shall be operated in accordance with all applicable requirements of Chapters 62-4, 62-302, 62-330, 62-520, 62-522, 62-550, 62-701 and 62-703, Florida Administrative Code (F.A.C.) and all applicable requirements of Department rules.

2. **Permit Application Documentation.** This permit is valid for operation, monitoring and maintenance of the Class I landfill and related systems (including but not limited to: household hazardous waste collection and storage facility, community drop off center, yard waste processing area, gas management system and stormwater/leachate management system, etc.) in accordance with the reports, plans and other information prepared by PBS&J (unless otherwise specified) as follows:

a. Application and Engineering Report for Renewal of Landfill Operation Permit for Lena Road Landfill, (3-hole punched bound documents) dated April 30, 2004 (received May 14, 2004), as revised, replaced or amended (information inserted into original) dated September 9, 2004, October 6, 2004, December 14, 2004, February 7, 2005 and March 17, 2005 (received September 10, 2004, October 7, 2004, December 15, 2004, February 16, 2005 and March 18, 2005). This information includes, but is not limited to:

- 1) Lena Road Landfill Operations Plan, Part L;
- 2) Geotechnical Investigation Requirements, Part J;
- 3) Household Hazardous Waste Collection and Storage Facility Operation Plan, Attachment L-2;
- 4) Water Quality and Leachate Monitoring Requirements, Part M;
- 5) Gas Management System Requirements, Part O;
- 6) Landfill Closure Requirements, Part P;
- 7) Long Term Care Requirements, Part R;
- 8) Financial Responsibility Requirements, Part S;
- 9) Lena Road Landfill Leachate Collection System High Pressure Water Jetting and Video Pipeline Inspection, Appendix A.
- 10) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2014, dated September 2004 (received October 7, 2004) (replaced by drawings in SC#A.2.e(1), below);
Amended 07/10/2006.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

(Specific Condition #A.2., cont'd)

- b. Response to DEP's First Request for Additional Information (permit file) dated September 9, 2004 and October 6, 2004 (received September 10, 2004 and October 7, 2004);
- c. Response to DEP's Second Request for Additional Information (permit file) dated December 14, 2004 and February 7, 2005 (received December 15, 2004 and February 7, 2005);
- d. Information regarding leachate collection system modifications, prepared by PBSJ (unless other wise noted) received June 22, 2005, August 15, 2005, September 20, 2005 (except plans, collated into spiral bound documents) including:
 - 1) Application form and transmittal letter received June 22, 2005;
 - 2) Progress Report Slurry Wall Construction, Lena Road Landfill, August 19, 1989 through September 22, 1989, prepared by Ardaman & Associates, received June 22, 2005;
 - 3) Construction Quality Assurance Plan, revised August 12, 2005 (received August 15, 2005);
 - 4) Manatee County Lena Road Landfill Pending Permit No. 39884-012-SO/MM Stage III Landfill Leachate Collection System Modification, August 5, 2005, Calculations,... (including revised calculations received September 20, 2005) received August 15, 2005; and
 - 5) Construction plans for Lena Road Landfill Stormwater System Improvements, September 2005 (22 sheets), received September 20, 2005.

New 10/11/05.

- e. Information regarding sequence of filling changes prepared by PBSJ dated February 2, 2006 (received February 8, 2006) and April 18, 2006 (received April 19, 2006), including:
 - 1) revised (reduced-size) Permit Renewal Drawings for Manatee County Lena Road Landfill Fill Sequence Plan Stage III Landfill from 2004 to 2013, revised January 2006 (received April 19, 2006) (these drawings replace the drawings listed in SC#A.2.a(1), above);

New 07/10/2006.

and in accordance with Department rules.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

3. Permit Modifications.

a. 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.

b. Any significant changes to the operations 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.

c. Excavation plans for the proposed remaining portion of Stage III are included on Sheet C-3 of the Fill Sequence Plans [ref. SC#A.2.e.]. However, operation in this area shall not be initiated until the certification of construction completion requirements of Specific Condition #B.2 have been completed and approved by the Department.

Amended 07/10/2006.

4. Permit Renewal. No later than **November 11, 2009**, 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), F.A.C. Operation permit renewal shall include, but not be limited to, an updated Operations Plan and Site Plans for sequence of filling with cross-sections of lifts.

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.

SPECIFIC CONDITIONS: PART A, Solid Waste Facility General Requirements

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.

9. **Prohibitions.**

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

b. In the event that surface depressions or other occurrences which may be indicative of sinkhole activity or subsurface instability, are discovered onsite, or within 500 feet of the site, the Department shall be notified in accordance with Specific Condition #C.10.b, below. 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 for incidents within or immediately adjacent to the slurry wall, a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. Waste Burning. 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.10.b., below.

d. ~~Figure G-1 [ref. SC#A.2.a, Section G] indicates that portions of the western and southwestern part of Stage III are within areas subject to potential flooding. Pursuant to Rule 62-701.340(4)(a), F.A.C., a landfill shall not be located in the 100 year floodplain where it will reduce temporary water storage capacity of the floodplain unless compensating storage is provided. Therefore, disposal operations shall not be conducted in these areas unless documentation from the water management district (SWFWMD) or the Department's ERP Section indicates that compensating storage for the 100 year flood has been provided.~~
Deleted 10/11/05 [this condition satisfied per SWFWMD permit].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit **does not** authorize the construction of the final cover system for any portion of the landfill. Construction of the final cover and related systems shall require a separate permit or major modification of this permit in accordance with Specific Condition #A.3 above.

b. Stage III.

1) This permit authorizes construction (excavation) of the bottom of Stage III disposal area as shown on Sheet C-3 of the Permit Renewal drawings [ref. SC#A.2.a(10)].

2) **At least sixty (60) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a sufficient number of boring logs with supporting calculations to confirm the elevation of the bottom clay layer and demonstrate that the clay layer will not be adversely affected by hydrostatic uplift. The calculations shall demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer. In the event that the excavation activities reveal unexpected subsurface conditions (e.g., the absence of clay, the presence of sandy soils, etc.) additional borings with supporting calculations to demonstrate that the clay layer is adequately impervious and will not be adversely affected by hydrostatic uplift may be required.

3) **At least thirty (30) days prior to initiation** of any below grade excavation work (e.g., remaining Stage III disposal area), the permittee shall submit a request for modification that includes scaled drawings showing the phased construction of the remaining portions of Stage III and the expected schedule for completion of each phase.
New 10/11/05.

c. **Leachate collection system modification.**

1) Leachate collection 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., the CQA Plan [ref. SC#A.2.d(3)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during leachate collection system construction (including manholes) to monitor construction activities. The leachate collection system modifications shall be constructed in accordance with the information listed in Specific Condition #A.2.d.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

- 2) This permit **does not authorize** the installation, repair, or replacement of geosynthetic liner material.
- 3) In the event that the slurry wall or the anchored edge of the closure liner in Stage I is impacted during construction, the Department shall be notified and corrective actions shall be detailed in accordance with Specific Condition #C.10.b. of this permit.
- 4) 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. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference.
- 5) Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.
- 6) 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 onsite 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.1 and #B.2.
- 7) Construction activities such as QA/QC testing of the geosynthetics or soil materials, surveying, 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.
- 8) 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. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.1.c., cont'd)

9) The permeability of the clean granular material shall be at least 1×10^{-3} cm/sec. The frequency of testing shall be in accordance with Table 02220-A for "clean common fill." A minimum of three gradation tests on the "clean granular backfill" shall be conducted [ref. §4.2, CQAP].

10) In the event that the slurry wall is impacted by the construction activities, it shall be repaired in accordance with the Specifications and CQA Plan, Section 3.

11) The soils testing laboratory shall be independent of the contractor [see §02220-1.03.A].

12) Soils and other materials excavated from inside the slurry wall shall not be stockpiled or stored outside the slurry wall, or in areas that drain outside the slurry wall [see §02220-2.01.A.2., ref. §02220-3.02.A.8.].

13) Water generated from dewatering activities within the slurry are considered to be leachate and shall be managed appropriately [ref. §02220-3.01.B.1 & 3, §02220-3.03.B.].

New 10/11/05.

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. At the completion of construction, information listed below shall be provided to the Department as part of the Certification of Construction Completion.

a. **Within sixty (60) days** after any specified construction (e.g., excavation of the remaining portion of Stage III) has been completed, the following activities shall be completed and submitted by the permittee. This information shall be approved by the Department prior to operation in this area:

1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer responsible for the construction 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.

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.2.a, cont'd)

3) The owner or operator shall submit a narrative indicating all changes in plans and the cause of the deviations, and certification by the design engineer to the Department.

4) The engineer of record shall provide a report to verify conformance with the project specifications. The report including all related testing results shall be submitted to the Department along with the completion of construction documents.

5) In the event that the slurry wall was impacted by the construction activities, documentation demonstrating that the integrity of the slurry wall was not adversely affected shall be submitted with the Certification of Construction Completion.

b. The as-built cell floor elevations shall correlate with the calculations required by Specific Condition #B.1.c. and demonstrate a minimum safety factor of 1.5 against hydrostatic uplift of the bottom clay layer at the as-built elevation.

3. **Record Drawings/Documents.**

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

1) Location of all anchor trenches (if appropriate);

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts at the manholes) and ditch elevations;

3) Daily construction reports (CQA and/or general contractor);

6) Copies of photographs documenting all stages of the construction project;

8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken.

New 10/11/05.

b. The as-built survey of the leachate collection system piping invert elevations shall demonstrate that the pipes were constructed at $\pm 5\%$ of the design slope.

New 10/11/05.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Rule 62-701.500, F.A.C., the Fill Sequence Plans [ref.SC#A.2.e.] and the Operations Plan [ref.SC#A.2.a(1)], and any other applicable requirements. This permit authorizes disposal operations in **Stage III and western portion of Stage I only (i.e. Sequences 3-6).**

Amended 10/11/05, 07/10/2006.

b. Waste shall not be disposed (unloaded, spread, or compacted) during non-daylight hours, unless sufficient lighting is provided to adequately assess the materials and remove unacceptable wastes.

c. Sufficient personnel and equipment shall be utilized to adequately operate the facility.

d. Ponded Water/Leachate. All surface water at Lena Road Landfill within the area surrounded by the slurry wall is considered as "stormwater/leachate." In the event of stormwater control problems which allow prolonged (greater than 72 hours) contact of ponded water with waste, the disposal of waste in the affected area shall cease until the leachate has been collected and appropriate drainage has been restored.

e. In the event of equipment breakdown or scheduled maintenance of essential equipment (such as equipment required for spreading, compacting and covering waste), the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence. In the event that sufficient reserve equipment is not obtained **within 24 hours**, the permittee shall notify the Department in accordance with Specific Condition #C.10.b., below and provide a schedule for corrective actions.

f. Unauthorized Wastes. A sufficient number of spotters and operators shall be utilized at the facility for removing unacceptable wastes (such as liquids, biomedical waste, hazardous and unknown wastes, etc.) from the working face. At a minimum, spotting shall occur at the working face from the ground (while off of the equipment) while waste is being disposed.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1., cont'd)

g. Special Wastes. The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operation Plan [ref.SC#A.2.a(1)] and with Rules 62-701.300(8) and 62-701.520, F.A.C., and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented.

- 1) Wastes which may include residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored and managed such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters.
- 2) Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in the Operations Plan. These wastes shall be removed from the site for proper recycling or disposal at the frequency described in the Operation Plan and this permit, unless another frequency for removal is approved in writing by the Department.
- 3) Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(4), F.A.C., the Operation Plan [ref. SC#A.2.a(1)], and all other applicable federal and Department rules. The location of asbestos disposal shall be recorded in accordance with 40 CFR Part 61.154.
- 4) Contaminated Soil. Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results demonstrate that the material is not hazardous and that the material has been adequately dewatered prior to delivery so that the material passes the paint filter test.
- 5) White Goods and other scrap metal. White goods and lawnmowers which may contain liquids (such as oil or gasoline), chlorofluorocarbons (CFCs such as freon), or other gases shall be stored and managed in a manner such that the liquids are contained, and CFCs or other gases are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed and lawn mowers which have had liquids removed shall be clearly marked. White goods shall be removed at least **semi-annually (every 6 months)**.
- 6) Yard Trash. Yard trash (including clean wood) shall be managed according to Rule 62-709.320, F.A.C., and as described in the Operation Plan [ref.SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.g., cont'd)

7) *Waste Tires.* Waste tires may be stored at the Citizen Drop-off Facility, designated waste tire container near the working face or the waste tire processing facility. The waste tire containers shall be emptied when full.

h. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Household Hazardous Waste Collection and Storage Facility (HHWCSF) Operation Plan [ref. SC#A.2.a(3)], and stored at the HHWCSF.

1) HHW shall be identified, and then segregated for storage within the containment area of the HHWCSF by the end of each collection day. Waste received at the HHWCSF shall be stored within containment areas at all times.

2) Spillage shall be removed and properly packaged for disposal. Soils which have been contaminated by spills shall be removed and packaged for proper disposal on the same day as the spill occurred.

3) Liquids, including contaminated rainwater, shall not be discharged outside of the containment structures.

4) Incompatible materials shall not be stored in the same area and shall not be bulked together.

5) Records on the quantities of HHW collected and removed for disposal shall be compiled monthly and maintained at the facility for Department review upon request.

6) Miscellaneous household hazardous wastes (such as paint, fluorescent light bulbs, chemicals, etc.) shall be managed as described in the HHWCSF Operation Plan [ref. SC#A.2.a(3)].

7) *Lead acid batteries.* Lead acid batteries are accepted at HHWCSF. Any incidental lead acid batteries that are discovered in waste delivered to the site shall be stored in a manner which prevents the discharge of contaminants to the environment. Lead acid batteries shall be removed for appropriate disposal or recycling when a maximum quantity of 80 batteries is stored on-site. [ref. Op. Plan, page L-8]

8) *Used oil.* Used oil is accepted at the HHWCSF. Any used oil that is accepted shall be stored in a manner which prevents discharge to the environment. Used oil shall be removed at least quarterly (every 3 months) or when a maximum quantity of 1000 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.1.h., cont'd)

9) *Paint.* Paint is accepted and bulked at the HHWCSF. Any paint that is accepted shall be managed and stored in a manner which prevents discharge to the environment, and shall be removed at least quarterly (every 3 months) or when a maximum quantity of 500 gallons is stored onsite, whichever occurs sooner. [ref. SC#A.2.a(1) and A.2.a(3)]

10) *Electronics.* Electronics to be recycled shall be stored in an undamaged condition, and removed at least quarterly (every 3 months). Electronics that have been damaged (such as broken into pieces) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least quarterly (every 3 months). [ref. SC#A.2.a(1) and A.2.a(3)]

i. Site Inspections.

1) The owner or operator shall inspect the site for erosion and settlement (low spots and improperly graded areas) daily on operating days. Erosion and settlement shall be repaired in accordance with Specific Condition #C.10., below.

2) The owner or operator shall inspect the landfill facility for the presence of objectionable odors at the property boundary **daily on operating days**. In the event that objectionable odors are detected at the property boundary, the owner or operator shall abate the odors in accordance with Specific Condition #C.9., below.

3) Litter fences shall be installed near the active face to capture wind-blown litter. In addition, the owner or operator shall inspect the normal traffic areas of the facility for litter **daily on operating days**. The accessible property boundaries shall be inspected for litter **at least weekly**. Litter shall be collected and disposed of in the Class I landfill **at least once per day on operating days**, or more often as necessary. In the event that the litter control program is ineffective, the operator shall notify the Department, and implement additional litter control measures **within 30 days**.

j. The top edge of the slurry wall shall be clearly marked in as many locations as required to prevent waste disposal and stormwater/leachate runoff outside the slurry wall. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The markers shall be maintained at all times throughout the operation of the facility to prevent waste disposal and leachate runoff outside the slurry wall.

SPECIFIC CONDITIONS: PART C - Operation Requirements

2. Operating Personnel.

a. The owner or operator shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. Sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. As required by Rule 62-701.500(1), F.A.C., at least one trained operator shall be at the site when either area receives waste. At least one trained spotter shall be at each working face when waste is received and unloaded, to inspect each load of waste from the ground (while off of the equipment), and to identify and properly manage prohibited materials.

c. The permittee shall notify the Department in writing of a change of the County's primary on-site supervisor within 7 days of the effective start date of this new responsible individual. Training documentation shall be maintained at the landfill site, and copies shall be provided to the Department upon request.

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. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal.

4. Monitoring of Waste.

a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads.

b. The permittee shall not accept hazardous waste or any hazardous substance at this site. Hazardous wastes are wastes listed in 40 CFR 261 Subpart D as hazardous or are wastes characterized in 40 CFR 261 Subpart C as hazardous. Hazardous substances are those defined in Section 403.703, Florida Statute or in any other applicable state or federal law or administrative rule. Sludges or other wastes which may be hazardous should be disposed of in accordance with Rules 62-701.300(4) and 62-701.500(6)(b), F.A.C. In the event that hazardous wastes are discovered, the Department shall be notified in accordance with Specific Condition #C.10.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.4., cont'd)

c. The permittee shall maintain a program which prohibits the disposal of bulk industrial wastes which operating personnel reasonably believe to either be or contain hazardous waste, without first obtaining a chemical analysis of the material showing the waste to be non-hazardous. The chemical analysis of any such material so placed in the landfill, along with the customer's name and date of disposal, shall be kept on file by the operating authority on-site.

d. Sludges generated from stormwater/leachate system maintenance shall be dewatered and adequately characterized as non-hazardous prior to disposal.

5. **Waste Handling Requirements.** All disposed solid waste shall be covered as required by Rule 62-701.500(7), F.A.C.

a. Initial Cover. Initial cover shall be applied and maintained at the end of each working day in the Class I landfill area in accordance with Rule 62-701.500(7)(e), F.A.C., so as to protect the public health and welfare.

1) All solid waste disposed of in the Class I disposal area, must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired within three days of discovery.

2) The following alternate daily cover materials are acceptable for use at this facility: tarps, soil with up to 25% fines from the yard processing area, shredded tires, ground-up construction and demolition debris including asphalt roofing shingles, dredged soils that have been sufficiently dewatered, and street sweepings.
Amended 10/11/05.

3) Alternate daily cover materials not listed in this Specific Condition are required to be approved by the Department prior to use at the facility

b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.

1) An intermediate cover of 12 inches of compacted soil in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion.

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.5., cont'd)

- c. Cover materials which have been previously used for intermediate or initial cover, and which contain solid waste shall not be re-used on areas which discharge outside the slurry wall.
6. **Working Face.**
 - a. As required by Rule 62-701.500(7)(d), F.A.C., the permittee shall minimize the size of the working face to minimize leachate, and unnecessary use of cover material. The permittee shall maintain the working face of a cell only wide enough to efficiently accommodate the maximum quantity of vehicles discharging waste simultaneously and to minimize the exposed area.
 - b. Waste shall be spread and compacted in accordance with the Operation Plan. Slopes shall be maintained in accordance with the Operations Drawings [ref.SC#A.2.a(10)]. All waste slopes (including the working face) shall be no greater (steeper) than 5H:1V [ref.SC#A.2.a(2), Part J].
7. **Method and Sequence of Filling.** The method and sequence of filling shall be in accordance with Fill Sequence Plans [ref.SC#A.2.e], and as described in the Operation Plan, or as otherwise approved in writing by the Department.
Amended 07/10/2006.
8. **Leachate Management.**
 - a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the Operation Plan [ref.SC#A.2.a(1)], the Water Quality and Leachate Monitoring Requirements [ref.SC#A.2.a(4)], and other applicable Department rules.
 - b. Leachate which has accumulated on the surface in low areas shall be collected and removed, or redirected away from the active disposal areas within 72 hours.
 - c. Leachate Collection and Removal System (LCRS) Inspections/Maintenance.
 - 1) The Stormwater/Leachate Management System shall minimize stormwater from entering waste filled areas. All stormwater/leachate conveyances shall be inspected daily to verify adequate performance. Conveyances not performing adequately shall be repaired **within three days of discovery**. Documentation of all inspections and repairs shall be kept on file at the facility. [ref.SC#A.2.a(1)]

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c., cont'd)

2) The leachate collection and removal system underdrains and gravity pipelines shall be video inspected or water pressure cleaned to verify adequate performance at least once during this permit period. Force mains shall be video inspected or water pressure cleaned when the pump station performance indicates that the force mains may be obstructed. An inspection report shall be provided and shall include an evaluation of the effectiveness of the system, the locations of cleaning and video inspections (indicated on a Site Plan drawn to scale) with the locations and the cause of all obstructions encountered, proposed corrective actions, and schedule for implementation of corrective actions as appropriate. If the pipes are water-jet cleaned, the report shall include a description of the method of cleaning. Components not performing adequately shall be repaired as necessary. **No later than one hundred and eighty (180) days prior to permit expiration**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) when required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be signed and sealed by a professional engineer, and shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The permittee shall retain a copy of the final report, each inspection report, and each inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

3) Each pump and pump station and related sensors and controller mechanisms shall be inspected on a semi-annual basis. Pump performance shall be verified and current draw recorded. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

4) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in the Operations Plan [ref. SC#A.2.a(1)].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.8.c, cont'd)

5) Upon the discovery of any defective (obstructed, separated, deformed) portion of the leachate collection system, the disposal of waste in the affected area shall cease in the affected area until the leachate collection system performance has been restored. Construction of improvements to any part of the LCRS, including significant repairs to the leachate collection system, may require a permit modification pursuant to Specific Condition #A.3. The design and related supporting documents for the construction of improvements shall be substantially equivalent to those required for new construction.

d. Leachate quantities.

1) In the event of a failure of leachate metering or pumping equipment which is not corrected **within 24 hours of detection**, the Department shall be notified, and corrective actions implemented in accordance with Specific Condition #C.10.

2) Leachate generation reports shall be compiled and submitted to the Department **monthly, by the 15th of the following month**. Leachate generation reports shall include the number of open, intermediate and closed acres, the quantities of stormwater/leachate collected, stored, recirculated and disposed off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch.

9. **Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the 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.

b. In the event that the odor control measures performed at the facility do not sufficiently abate objectionable odors offsite, the permittee shall submit an odor abatement plan to the Department **within sixty (60) days** of initial detection. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation.

SPECIFIC CONDITIONS: PART C - Operation Requirements

10. Facility Maintenance and Repair.

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater/leachate management systems, cover systems and berms, gas monitoring system, 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 stormwater/leachate discharge outside the slurry wall, 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.

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the leachate management systems are damaged or are not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.10.b., unless otherwise approved by the Department.

e. Erosion. Intermediately covered disposal areas, or other disposal areas which exhibit significant erosion, shall be repaired according to the following schedule:

1) If the cover materials have eroded such that greater than 50% of the cover in that location has been eroded, then initiate repair of the affected area within three (3) days of discovery; and

2) If waste is exposed, then repair the affected area by the end of the next working day, or within 24 hours after the event that caused the waste to be exposed has ceased.
Amended 10/11/05.

f. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, seeded and/or sodded) **within seven (7) days.**

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. Operation Plan and Operating Record.

a. 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.

b. Proposed changes to the current Department-approved **Operation Plan** [ref.SC#A.2.a(1)] shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The **Operation Plan** shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough ~~(struckthrough)~~ and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.

c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 07/10/2006.

d. The following reports, documents and other information shall be maintained at the facility for reference, and copies shall be provided to the Department upon request:

- 1) Waste quantity reports required by Rule 62-701.500(4), F.A.C.;
- 2) A log of the facility operator's daily inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) A list of incidents of disposal of unacceptable or prohibited wastes. This list should include the generator's name and address, and a description of the waste disposed;
- 5) Operator and spotter training certificates and other documentation;
- 6) Log of odor complaints and corrective action; and
- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.

SPECIFIC CONDITIONS: PART D - Recordkeeping

(Specific Condition #D.1., cont'd)

e. **Capacity Report.** The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than March 1st each year,** a copy of this survey, supporting capacity calculations, signed and sealed by a registered professional engineer and/or licensed professional land surveyor as appropriate shall be submitted to the Department. The survey shall demonstrate that the waste sideslopes are no greater than the design (5H:1V), that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved Permit Renewal Drawings [ref.SC#A.2.a(10)] and other supporting information [ref.SC#A.2.a(2)].

2. Waste Records.

a. Waste records shall be maintained as required by Rule 62-701.500(4), F.A.C. The owner or operator of the facility shall weigh each load of waste as it is received (with scales at the facility) and record, in tons per day, the amount of waste debris and material received. This information shall be compiled **monthly** and submitted to the Department (Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, M.S. 4565, Tallahassee, Florida 32399-2400) **quarterly, by January 15th, April 15th, July 15th and October 15th of each year.** Waste shall not be accepted for disposal at the landfill unless weight scales are available at the facility and are in proper working condition.

b. Records shall be kept for all recycled electronics, including the quantities sent to each recycler, and related receipts with the name and address of each recycler.

3. Financial Assurance. The permittee shall provide 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 March 1st each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
Amended 07/10/2006.

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.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Water Quality Monitoring Quality Assurance.

a. All field work done in connection with the facility's Water Quality Monitoring Plan shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (February 1, 2004), as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.

b. The field testing, sample collection and preservation and laboratory testing, including the collection of quality control samples, shall be in accordance with methods approved by the Department in accordance with Rule 62-4.246 and Chapter 62-160, F.A.C. Approved methods published by the Department or as published in Standard Methods, A.S.T.M., or EPA methods shall be used.

2. Zone of Discharge.

a. The zone of discharge for this landfill shall extend horizontally 100 feet from the limits of the landfill slurry wall (designated as Stage I, II and III landfill areas) or to the property boundary, whichever is less, and shall extend vertically to the bottom of the surficial aquifer.

b. The permittee shall ensure that the water quality standards and minimum criteria for Class G-II ground water will not be exceeded at the boundary of the zone of discharge according to Rule 62-520.420, F.A.C., and that the minimum criteria listed in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the landfill slurry wall (designated as Stage I, II and III landfill areas).

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

3. **Ground Water Monitor Well Locations.** The ground water monitoring system is designed and constructed in accordance with Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref. SC #A.2.a]. The ground water monitor wells are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**), as follows:

<u>Well Number</u>	<u>WACS Testsite ID No.</u>	<u>Aquifer</u>	<u>Designation</u>
GW-1 *	21593	Surficial	Detection
GW-2 *	21594	Surficial	Detection
GW-3 *	21595	Surficial	Detection
GW-4 *	21596	Surficial	Detection
GW-5 *	21597	Surficial	Detection
GW-6 *	21598	Surficial	Detection
GW-7 *	21599	Surficial	Detection
GW-8 *	21600	Surficial	Detection
GW-9 *	21601	Surficial	Detection
GW-10 *	21602	Surficial	Detection
GW-11 *	21603	Surficial	Detection
GW-12 *	21604	Surficial	Detection
GW-13 *	21605	Surficial	Detection
GW-14 *	21606	Surficial	Detection
GW-15 *	21607	Surficial	Detection
GW-16 *	21608	Surficial	Detection
GW-17 *	21609	Surficial	Detection
BGW-1 *	21610	Surficial	Background

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**); documentation of well construction shall be provided **within 30 days of installation** in accordance with SC #E.5.b., and #E.5.d.; initial sampling shall be conducted **within 7 days of well installation and development** in accordance with SC #E.4.b.; results of initial sampling shall be submitted **within 30 days of receipt from the analytical laboratory**.

All wells are to be clearly labeled and easily visible at all times. The permittee should keep all wells locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with Class G-II ground water standards referenced in Chapter 62-522, F.A.C. Compliance with ground water standards shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells listed in SC #E.3., and all piezometers listed in SC #E.10., during all sampling events described in SC #E.4.b., #E.4.c., and #E.9.c., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall also include ground water elevations (feet NGVD) calculated for each well and the staff gauges described in SC #E.9.a.

b. An initial sampling event shall be conducted at wells GW-1 through GW-17 and BGW-1 **within 7 days of installation and development** for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix II</u>	

c. Wells GW-1 through GW-17 and BGW-1 shall be sampled **semi-annually**. In accordance with Rule 62-701.510(6)(d), F.A.C., samples collected from these wells shall be analyzed for the following parameters:

Field parameters

Static Water Level
before purging
Specific Conductivity
pH
Dissolved Oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Total Ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total Dissolved Solids (TDS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

5. **Ground Water Monitor Well Construction.** The following information shall be submitted **within 90 days of installation** of all new or replacement wells, or as stated below:

a. Prior to construction of all new or replacement wells and piezometers (excluding the locations listed in SC #E.3., and #E.10., respectively) the permittee shall request and receive Department approval of a minor permit modification.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Form (**attached**).

c. **Within one week of well completion and development**, each new or replacement well shall be sampled for the parameters listed in Rules 62-701.510(8)(a) and (8)(d), F.A.C

d. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitor wells and piezometers (active and abandoned) horizontally located in degrees, minutes and seconds of latitude and longitude, and the elevation of the top of the well casing and ground surface by the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor.

6. **Well Abandonment.**

a. Existing monitor wells and piezometers shall be abandoned **within 90 days of permit issuance**, as follow:

- Surficial aquifer monitor wells - MW-1, MW-2, MW-3, MW-5, MW-6, LR11-1, LR11-2, LR11-3, LR11-4, LR11-5, CW-4, CW-5A, GC-1A, GC-2, GC-3, GC-4A, GC-5, GC-6 and SWR-1
- Confined aquifer monitor wells - SA-2, SA-3, SA-4, SA-5, SA-6, SA-7, SA-8 and SMR-2
- Piezometers - PZ-1, PZ-2, PZ-3A, PZ-4A, PZ-5, PZ-6, PZ-7, PZ-8, PZ-9, PZ-10, PZ-11, PZ-12A, PZ-13, PZ-14A, PZ-15A, PZ-15C, PZ-16A, PZ-16B, PZ-17, PZ-18 and PZ-19

b. All wells and piezometers listed in SC #E.6.a., and wells and piezometers not a part of the approved Water Quality Monitoring Plan (not listed in SC #E.3., and #E.10.), are to be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's water quality standards or criteria at the edge of the zone of discharge, the permittee has 30 days from receipt of the sampling results to resample the monitor well(s) to verify the original analysis. Should the permittee choose not to resample, the Department will consider the water quality analysis to be representative of current ground water conditions at the facility. If the data is confirmed, or if the permittee chooses not to resample, the permittee shall notify the Department within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring, prevention measures and corrective action as described in Rule 62-701.510(7), F.A.C.

8. **Leachate Sampling.** Individual grab samples of leachate (unfiltered) shall be collected from the each of the existing leachate pump stations in landfill Stages I and III (designated as Lift Station No. 1, WACS Testsite ID No. 21611; Lift Station No. 2, WACS Testsite ID No. 21612; and, Lift Station No. 3, WACS Testsite ID No. 21613) as shown on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**). Leachate sampling shall be conducted in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(5) and 62-701.510(6)(c), F.A.C., for analysis of the following parameters:

a. **Annual** leachate sampling shall be conducted for analysis of the following parameters:

Field parameters
Specific conductivity
pH
Dissolved oxygen
Colors and sheens
(by observation)

Laboratory parameters	
Total ammonia - N	Iron
Bicarbonate	Mercury
Chlorides	Sodium
Nitrate	
Total dissolved solids (TDS)	
Those parameters listed in	
<u>40 CFR Part 258, Appendix II</u>	

b. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** leachate sampling and analysis of the parameters listed in SC #E.8.a., and shall notify the Department in writing. Results of the monthly leachate sampling shall be submitted **within 30 days of receipt from the analytical laboratory**. If in any three consecutive months no listed contaminant is found to exceed the regulatory level, the permittee may discontinue the monthly sampling and analysis and return to a routine sampling schedule.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

9. **Surface Water Sampling.** All surface water bodies that may be affected by a contaminant release at the facility shall be monitored, except bodies of water contained completely within the property boundaries of the site which do not discharge from the site to surface waters (Rule 62-701.510(4), F.A.C.). The locations, parameters, and frequencies specified herein represent the minimum requirements for surface water monitoring. Additional samples, sampling locations, and parameters may be required based upon subsequent analysis. Method Detection Limits must be less than or equal to the criteria for each parameter established in Chapter 62-302, F.A.C., to demonstrate compliance with Class III (predominantly fresh water) surface water standards. Compliance with surface water criteria will be based on analysis of unfiltered samples.

a. Staff gauges SG-1, SG-2 and SG-3 shall be installed **within 90 days of permit issuance** at the locations shown on Figure M-1 (**attached**). Surface water levels shall be measured at these staff gauges during all sampling events described in SC #E.9.b., #E.4.b., and #E.4.c., to a precision of 0.01 foot. Surface water body elevations (feet NGVD) recorded at these staff gauges shall be noted on ground water surface contour maps prepared for each sampling event.

b. Surface water samples shall be collected at downstream and upstream locations in Cypress Strand at SW-1 (WACS Testsite ID No. 1663) and SW-2 (WACS Testsite ID No. 1665), respectively, as located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**). In accordance with Rule 62-701.510(4)(c), F.A.C., the monitoring stations shall be marked and their positions shall be determined by a registered Florida land surveyor in degrees, minutes and seconds of latitude and longitude.

c. **Semi-annual** surface water sampling shall be conducted at SW-1 and SW-2 in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the following parameters:

Field parameters

Specific conductivity
pH
Dissolved oxygen
Turbidity
Temperature
Colors and sheens
(by observation)

Laboratory parameters

Unionized ammonia	Copper
Total hardness	Iron
Biochemical oxygen demand (BOD ₅)	Mercury
Nitrate	Zinc
Total dissolved solids (TDS)	
Total organic carbon (TOC)	
Fecal coliform	
Total phosphates	
Chlorophyll A	
Total nitrogen	
Chemical oxygen demand (COD)	
Total suspended solids (TSS)	
<u>Those parameters listed in</u>	
<u>40 CFR Part 258, Appendix I</u>	

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

10. **Gradient Monitoring.** Horizontal hydraulic gradient across the slurry wall shall be measured **monthly** at the following monitoring points ("P" denotes a piezometer located inside the slurry wall and "GW" denotes a monitor well located outside the slurry wall). Monitoring points are located on Figure M-1 prepared by PBS&J ("Water Quality and Elevation Monitoring Network") received December 15, 2004 (**attached**).

<u>Interior Monitoring Point</u>	<u>Exterior Monitoring Point</u>
P-1 *	GW-1
P-2 *	GW-2
P-3 *	GW-3
P-4 *	GW-4
P-5 *	GW-5
P-6 *	GW-6
P-7 *	GW-7
P-8 *	GW-8
P-9 *	GW-9
P-10 *	GW-10
P-11 *	GW-11
P-12 *	GW-12
P-13 *	GW-13
P-14 *	GW-14
P-15 *	GW-15
P-16 *	GW-16
P-17 *	GW-17

* = to be installed **within 90 days of permit issuance** in accordance with construction details presented in Figure M-2 of Part M of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 2004, revised September 7, 2004 and December 6, 2004 (**attached**).

These points shall be monitored **monthly** for water levels to an accuracy of 0.01 feet. Results of the monthly monitoring shall be submitted by the **15th day of the following month**. An inward gradient shall be maintained across the slurry wall as described in Part M ("Water Quality and Leachate Monitoring Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised September 7, 2004 and December 6, 2004 [ref. SC #A.2.a]. If an outward gradient exists, steps for correcting the gradient shall be included with the related monthly data. Damaged gradient monitoring points shall be replaced within thirty (30) days to ensure continuous monthly monitoring at all points.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Water Quality and Leachate Reporting Requirements.** The permittee shall submit to the Department the results of the semi-annual ground water analyses (SC #E.4.c.) and surface water analyses (SC #E.9.c.) by **January 15th** and **July 15th of each year** for the semi-annual periods July-December and January-June, respectively. The permittee shall submit to the Department the results of the annual leachate analyses (SC #E.8.a.) by **January 15th of each year**. The submittals shall include the certified laboratory report of results, chain of custody sheets and field sampling logs. The reports that transmit the results of ground water analyses shall contain the information listed in Rule 62-701.510(9)(a), F.A.C., including a ground water contour map representing conditions at the time of ground water sampling and a summary of any water quality standards or criteria that are exceeded. The results shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926. There are two options for reporting monitoring data:

Amended 07/10/2006.

- a. Paper Reporting. If this option is selected, all ground water, leachate and surface water analytical results shall be reported on Department Form 62-522.900(2), Ground Water Monitoring Report (**attached**) to be consistent with the laboratory report of results. To facilitate entry into the Department's database (Water Assurance Compliance System [WACS]), this form, or an exact replica without change of content, shall be prepared for each sampling location for each sampling event.
- b. Electronic Reporting. Alternatively, all ground water, leachate and surface water analytical results may be submitted as an electronic data deliverable (EDD) on floppy diskettes or compact disc media readable by Microsoft Windows. Software ("Validator") has been developed to evaluate and upload the monitoring data into the Department's database (WACS). A copy of this software can be downloaded from the Department's website at the following address: <http://www.dep.state.fl.us/labs/software/index.htm>. Electronic laboratory data must be submitted in a specific format called a tab delimited text file, with the first line of the file being the data field names (Microsoft Excel produces this file format when the "Save As" and "Text(Tab Delimited)" options are selected). Two copies of the EDD, one in tab delimited text format and one as an Adobe portable document format (PDF) must be submitted. A digitally "signed" PDF serves to maintain the integrity of the EDD. Examples of an acceptable text file and additional information are available at the web site listed above. The permittee is encouraged to download Validator and run all data sets to allow the necessary corrections to be completed prior to submittal of an EDD to the Department.

Manatee County
Mr. Daniel Gray, Utility Operations Director

Lena Road Class I Facility
Permit No. 39884-010-SO/01

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

12. **Monitoring Plan Evaluation.** By May 11, 2007 and November 11, 2009, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 11, 2007	Second half 2004	Second half 2006
November 11, 2009	First half 2006	First half 2009

The evaluations shall include the applicable information as listed in Rule 62-701.510(9)(b), F.A.C., and shall include assessment of the effectiveness of the existing facility design and operation as related to the prevention of ground water and surface water contamination. Any contamination that may exist shall be addressed as part of evaluation monitoring conducted at the facility in accordance with Rule 62-701.510(7), F.A.C. The evaluations shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

Amended 07/10/2006.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

1. Landfill Gas - NPs 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.

a. Landfills that receive degradable wastes shall have a gas management and control system designed to prevent explosions and fires, and to minimize off-site odors, lateral migration of gases and damage to vegetation. Landfill gas shall be monitored and controlled as required by Rule 62-701.530, F.A.C.

b. Landfill gas shall be monitored to demonstrate compliance with the criteria established in Rule 62-701.530(1)(a), F.A.C., (less than 25% of the lower explosive limit (LEL) for combustible gases in structures and less than 100% of the LEL for combustible gases at or beyond the property boundary).

c. The results of quarterly monitoring required by Rule 62-701.530(2)(c), F.A.C., shall be submitted to the Department by the following dates:

Measured During

Quarter 1
Quarter 2
Quarter 3
Quarter 4

Report Submitted By

April 15th of each year
July 15th of each year
October 15th of each year
January 15th of each year

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

3. **Gas Monitoring Locations.** The landfill gas management system is designed and constructed in accordance with Part O ("Gas Management System Requirements") of the document entitled "Application and Engineering Report for Renewal of Landfill Operation Permit", prepared by PBS&J, dated April 30, 2004, revised December 8, 2004 [Ref. SC #A.2.a]. The ambient gas monitoring points and perimeter gas monitoring probes are located on Figure L-8 prepared by PBS&J ("Landfill Gas Migration Monitoring Locations") received September 10, 2004 (**attached**), and shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C.

Ambient Gas Monitoring

Points

GMP-1 *
GMP-2 *
GMP-3 *
GMP-4 *
GMP-5 *
GMP-6 *
GMP-8 *

Location Description

Gary Seeley office (former Litter Enforcement Office)
Shed by soda machine
Main office
Vehicle maintenance area
Hazardous waste area
Equipment trailer
Shed by weigh station

Perimeter Gas

Monitoring Probe

GMW-1
GMW-2
GMW-3
GMW-4
GMW-5
GMW-6
GMW-7
GMW-8
GMW-9A
GMW-10
GMW-11A
GMW-11B
GMW-11C
GMW-12 *
GMW-13 *
GMW-14 *
GMW-15 *
GMW-16 *
GMW-17 *

Location Description

Stage III landfill perimeter - west
Stage III landfill perimeter - south
Stage I landfill perimeter - west
Stage I landfill perimeter - south
Stage I landfill perimeter - southeast corner
Stage I landfill perimeter - east
Stage II landfill perimeter - east
Stage II landfill perimeter - north
Stage II landfill perimeter - west
Stage III landfill perimeter - north
Stage III landfill perimeter - north
Stage III landfill perimeter - north
Stage III landfill perimeter - north
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility
Stage III landfill - administration facility

* = to be monitored until the structures located within the Stage III landfill area are removed, prior to the initiation of fill Sequence 3.

The gas probes are to be clearly labeled and easily visible at all times.

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

4. **Gas Remediation.** If the results of gas monitoring show that combustible gas concentrations exceed 25% of the LEL calibrated to methane in structures or 100% of the LEL calibrated to methane at the property boundary, the permittee shall immediately take all necessary steps to ensure protection of human health and notify the Department. **Within 7 days** of detection, a gas remediation plan detailing the nature and extent of the problem and the proposed remedy shall be submitted to the Department for approval. The remedy shall be completed **within 60 days** of detection unless otherwise approved by the Department.

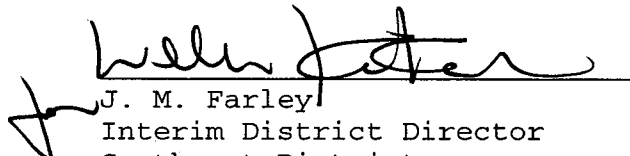
SPECIFIC CONDITIONS: PART G - Closure and Long-Term Care Requirements

1. **Closure Permit Requirements.** 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.

2. **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.

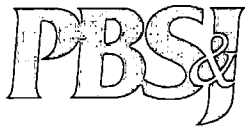
Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


J. M. Farley
Interim District Director
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	November 11, 2009	Submit permit renewal application
A.9.b., C.10.b.	Within 24 hours of discovery	Notification of: sinkholes, hazardous waste receipt, failure of landfill systems or equipment
	Within 7 days of verbal notification	Written notification & corrective action plan
B.1.b(3)	At least 30 days prior to initiation	Submit request to include sequenced construction and operation, and submit schedule
C.8.c(2)	180 days prior to permit expiration	Submit leachate collection system inspection report
C.8.d(2)	By the 15 th each month	Submit leachate generation reports
C.10.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.10.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.1.e.	Annually, by March 1 st each year	Submit topographic survey & capacity calculations, and certification
D.3.a.	Annually, by March 1 st each year	Submit revised cost estimates
D.3.b.	Annually	Submit proof of funding
E.4.c.	Semi-annually	Sample all background and compliance wells
E.11.	By January 15 th and July 15 th each year	Submit sampling results
E.5.b.	Within 90 days of installation	Submit well construction information
E.5.c.	Within 1 week of well completion and development	Sample for parameters in Rule 62-701.510(8)(a) and 62-70.510(8)(d), F.A.C.
E.5.d.	Within 90 days of new or replacement well installation	Submit survey
E.6.a.	Within 90 days of permit issuance	Abandon existing monitoring wells and piezometers identified in E.6.a

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
E.6.b	Within 30 days of abandonment	Submit report of well abandonment
E.9.c	Semi-annually	Sample/analyze surface water
E.11	By January 15 th and July 15 th each year	Submit sampling results
E.10.	Monthly By the 15 th of the following month	Measure hydraulic gradient (horizontal and vertical) Submit gradient results
E.12.	By May 11, 2007 and November 11, 2009	Submit water quality monitoring evaluation report
F.2.c.	Quarterly, by January 15 th , April 15 th , July 15 th and October 15 th	Submit gas monitoring results
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application



An employee-owned company

Dept. of Environmental
Protection

APR 19 2006

April 18, 2006

Southwest District

Ms. Susan J. Pelz, P.E.
Solid Waste Manager
Florida Department of Environmental Protection
Southwest District Office - Solid Waste Section
13051 N. Telecom Parkway
Temple Terrace, Florida 33637-0926

**Re: Manatee County Lena Road Class I Landfill
FDEP Operation Permit 39884-010-SO/01
Pending Modification No.: 39884-013-SO/MM,
Sequence of Filling**

Dear Ms. Pelz:

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

1. *Operation Plan, Rule 62-701.500, F.A.C. Please provide revised reduced size (11x17) sheets for Attachment L-1, "Landfill Sequence Plan" referenced in the current Operation Permit. (Response: Included with this response are four complete 11x17 sets of the drawings entitled "Manatee County - Lena Road Landfill - Fill Sequence Plan - Stage III Landfill - From 2004 to 2013." The fill sequence plan was revised per your requests.)*
2. *Plan sheets titled, Lena Road Landfill Fill Sequence Plan, Stage III Landfill from 2004 to 2013 (Rules 62-701.320(5)(b), 62-701.320(7)(f), F.A.C.). Please be advised that the drawings will be reviewed in their entirety after responses to this item are received.*
 - a. *Sheet C-4. Please provide a revised sheet that notes the changes made in January 2006 (Section E appears to have been formerly referenced as "Temporary Berm, Detail E/C-10"). (Response: The revision was noted on the drawing. Detail E/C-10 was a section and not a detail. The reference to Detail E/C-10 was corrected to Section E/C-10. Sections are not named. A note on the drawing references the perimeter stormwater diversion berm at the top of the slope.)*
 - b. *Sheet C-5. It appears that the berm near the top of slope has been deleted from the plan views, but is still shown in Section E (Sheet C-13). (Response: At a scale of 1"=200' the additional contours required in the plan view to show the berm were difficult to separate. The berm is clearly shown on the section and called for by a note. We left the berm contours off of the plan view revisions since we did not think it was necessary to show them for the County to understand how to build it.) Notes #1 and #4 indicates that filling will provide northward at a slope of 5H:1V. However, it appears that the north slope shown on this sheet is 4H:1V.*

FILE

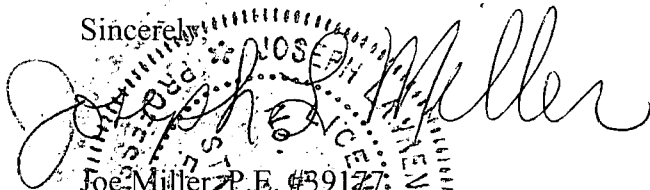
Ms. Susan Pelz, P.E.
April 18, 2006
Page 2

Please clarify or provide revised notes/sheet as appropriate. (Response: The 5H:1V slope is for the typical working face. The 4H:1V slope on the north side of the fill sequence is a temporary interior landfill slope.)

- c. *Sheets C-5 through C-10. Please provide the invert elevations of all stormwater structures, inlets, downcomer pipes, discharge elevations, and ditch/terrace high and low point elevations. (Response: The drawings were revised to add the elevations.)*

If you should have any questions, please contact me in our Orlando office at 407/647-7275, Ext. 4153.

Sincerely,



Joe Miller, P.E. #39127
Senior Project Manager

Attachment

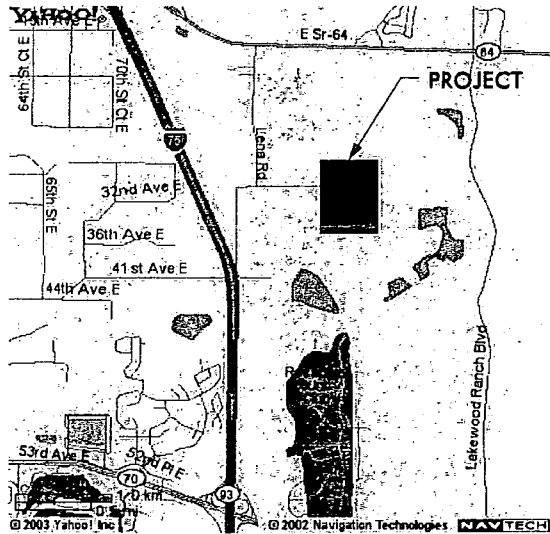
Manatee County - Lena Road Landfill - Fill Sequence Plan - Stage III Landfill - From 2004 to 2013

cc: Daniel T. Gray, Director, Utility Operations Department
Gus DiFonzo, Solid Waste Manager
Mike Gore/Jeanne Detweiler, Manatee County Landfill Division
File - 120498.94 0100

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PERMIT RENEWAL DRAWINGS FOR
MANATEE COUNTY – LENA ROAD LANDFILL
FILL SEQUENCE PLAN
STAGE III LANDFILL
FROM 2004 TO 2013

SEQUENCE	AIR SPACE (CY)	DURATION (MONTHS)	STARTING DATE	ENDING DATE
1	472,497	11.4	JAN-04	JAN-05
2	623,302	15.2	JAN-05	APR-06
3	185,072	4.5	APR-06	SEPT-06
4	835,669	20.4	SEPT-06	MAY-08
5	1,191,000	29.0	MAY-08	OCT-10
6	961,920	23.2	OCT-10	SEPT-12
7	585,719	14.1	SEPT-12	NOV-13
TOTAL	4,855,179	117.8		



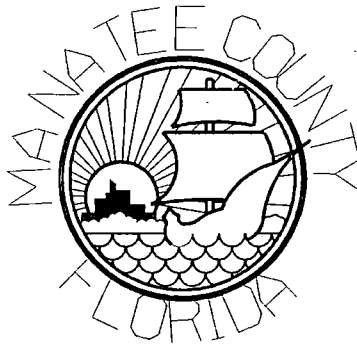
LENA ROAD LANDFILL
3333 LENA ROAD
BRADENTON, FLORIDA 34202

Dept. of Environmental
Protection

APR 19 2006

Southwest District

MANATEE COUNTY



MANATEE COUNTY
UTILITY OPERATIONS
DEPARTMENT

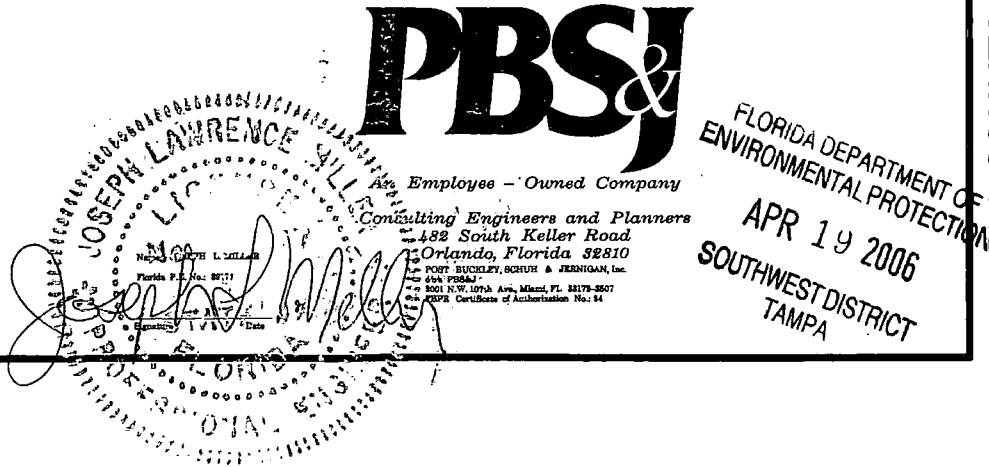
4410 66th STREET WEST
BRADENTON, FLORIDA 34210

SEPTEMBER 2004
(REVISED JANUARY 2006)

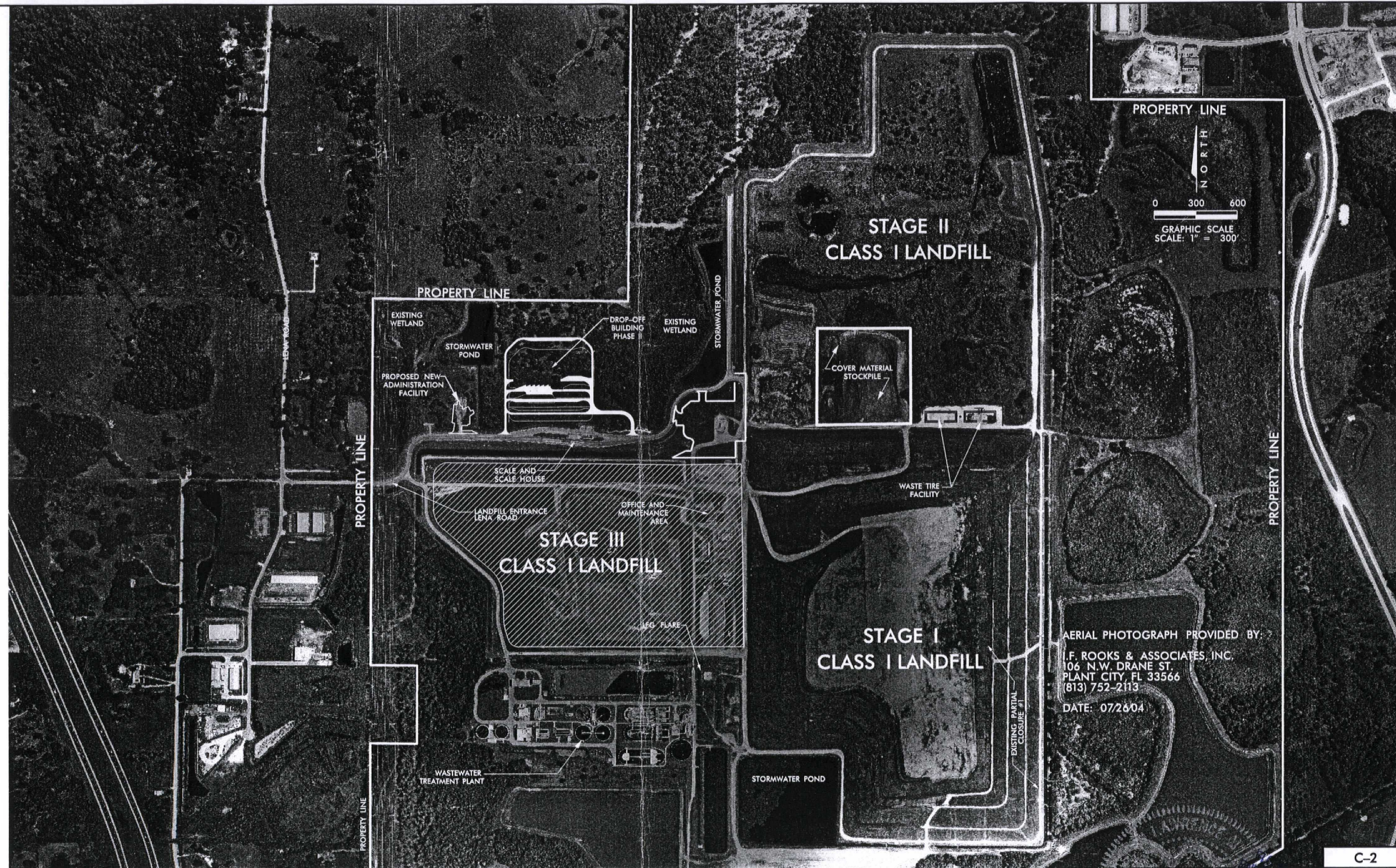
ENGINEER'S PROJECT NO. 120498

LIST OF DRAWINGS

- C-1 COVER
- C-2 GENERAL SITE PLAN
- C-3 STAGE III EXCAVATION PLAN
- C-4 SEQUENCE 1 (JAN. 2004 – JAN. 2005)
- C-5 SEQUENCE 2 (JAN. 2005 – APR. 2006)
- C-6 SEQUENCE 3 (APR. 2006 – SEPT. 2006)
- C-7 SEQUENCE 4 (SEPT. 2006 – MAY. 2008)
- C-8 SEQUENCE 5 (MAY. 2008 – OCT. 2010)
- C-9 SEQUENCE 6 (OCT. 2010 – SEPT. 2012)
- C-10 SEQUENCE 7 (SEPT. 2012 – NOV. 2013)
- C-11 CROSS SECTIONS
- C-12 CROSS SECTION & TYPICAL WORKING
FACE DETAIL
- C-13 DETAILS



MANATEE COUNTY – LENA ROAD LANDFILL– STAGE III LANDFILL SEQUENCE PLAN (REV. 2006)



18-APR-2006 16:25 EMP. NO. 9327



488 South Keller Road
Orlando, FL 32810-6101
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Fax (407) 647-0624
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404 PRS&J
300 N.W. 107th Ave., Miami, FL 33173-3507
FPA's Certificate of Authorization No. 54

CLIENT	MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS
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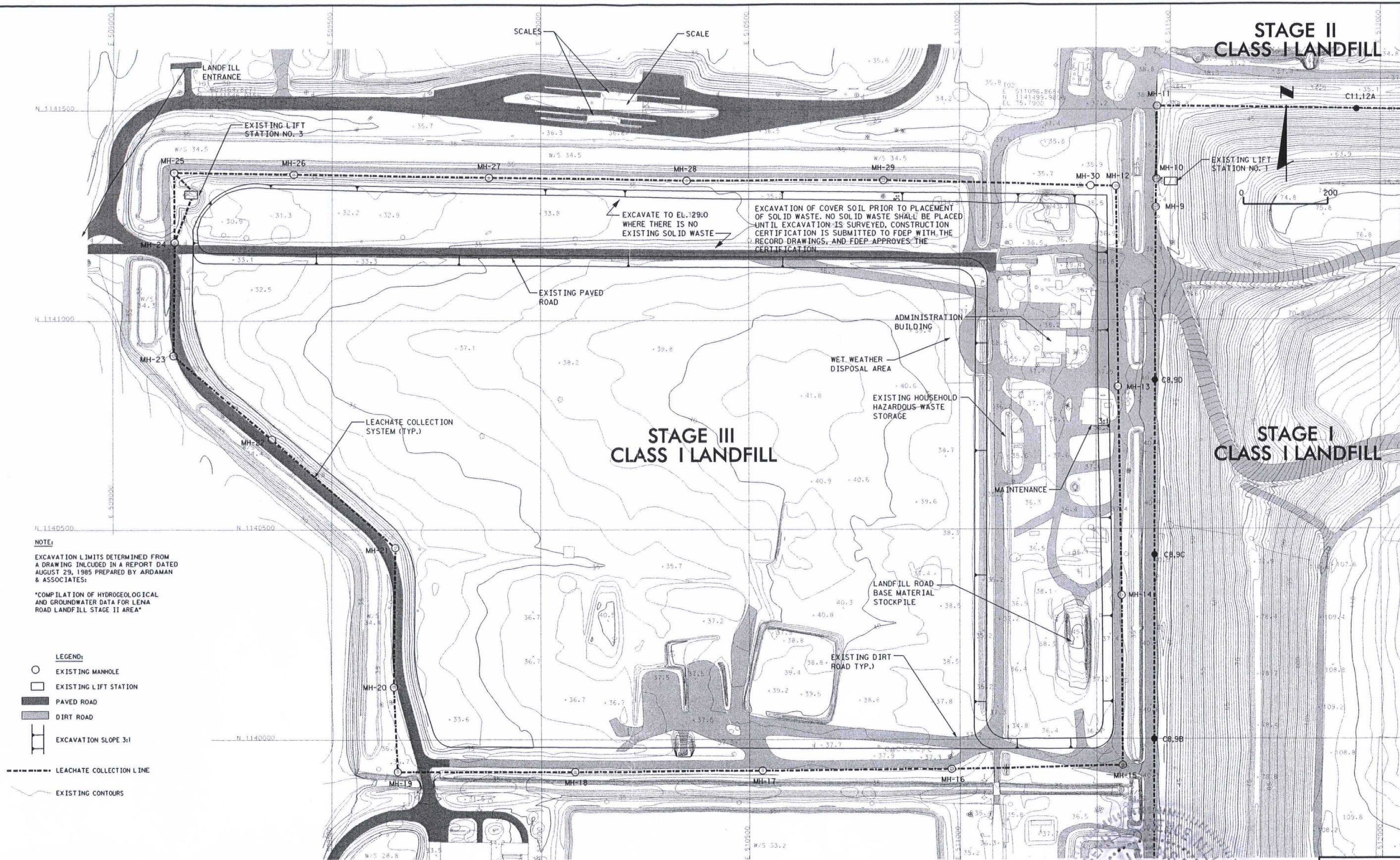
PROJECT	LENA ROAD LANDFILL FILL SEQUENCE PLAN STAGE III LANDFILL
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TASK	GENERAL SITE PLAN
------	-------------------

ORIGINAL MAY 2004
REVISIONS:
1.
2.
3.
4.
5.

No. 39177
Name: JOSEPH L. MILLER
Florida P.E. No.: 88174
Address: 1400 S. Orange Ave. Orlando, FL 32806-4101
Signature: [Signature]
Date: 4/18/06

ENVIRONMENTAL DEPARTMENT APR 19 2006 SOUTHWEST DISTRICT TAMPA	JOB NO. 00-000.00 DRAWN: RGC DESIGN: JLM/RGC CHECKED: JLM O.C.: DED SHEET 2/13
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PBS&J

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Orlando, FL 32810-6101
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Fax. (407) 647-0624
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dba PBS&J
900 N.W. 107th Ave., Miami, FL 33176-5507
FDEP Certificate of Authorization No. 84

CLIENT	MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS
--------	---

PROJECT	LENA ROAD LANDFILL FILL SEQUENCE PLAN STAGE III LANDFILL
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TASK	STAGE III LANDFILL EXCAVATION PLAN
------	---------------------------------------

ORIGINAL MAY 2004
REVISIONS:
1. _____
2. _____
3. _____
4. _____
5. _____

FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

APR 19 2006

SOUTHWEST DISTRICT

TAMPA

4/18/06

JOB NO. 00-000.00

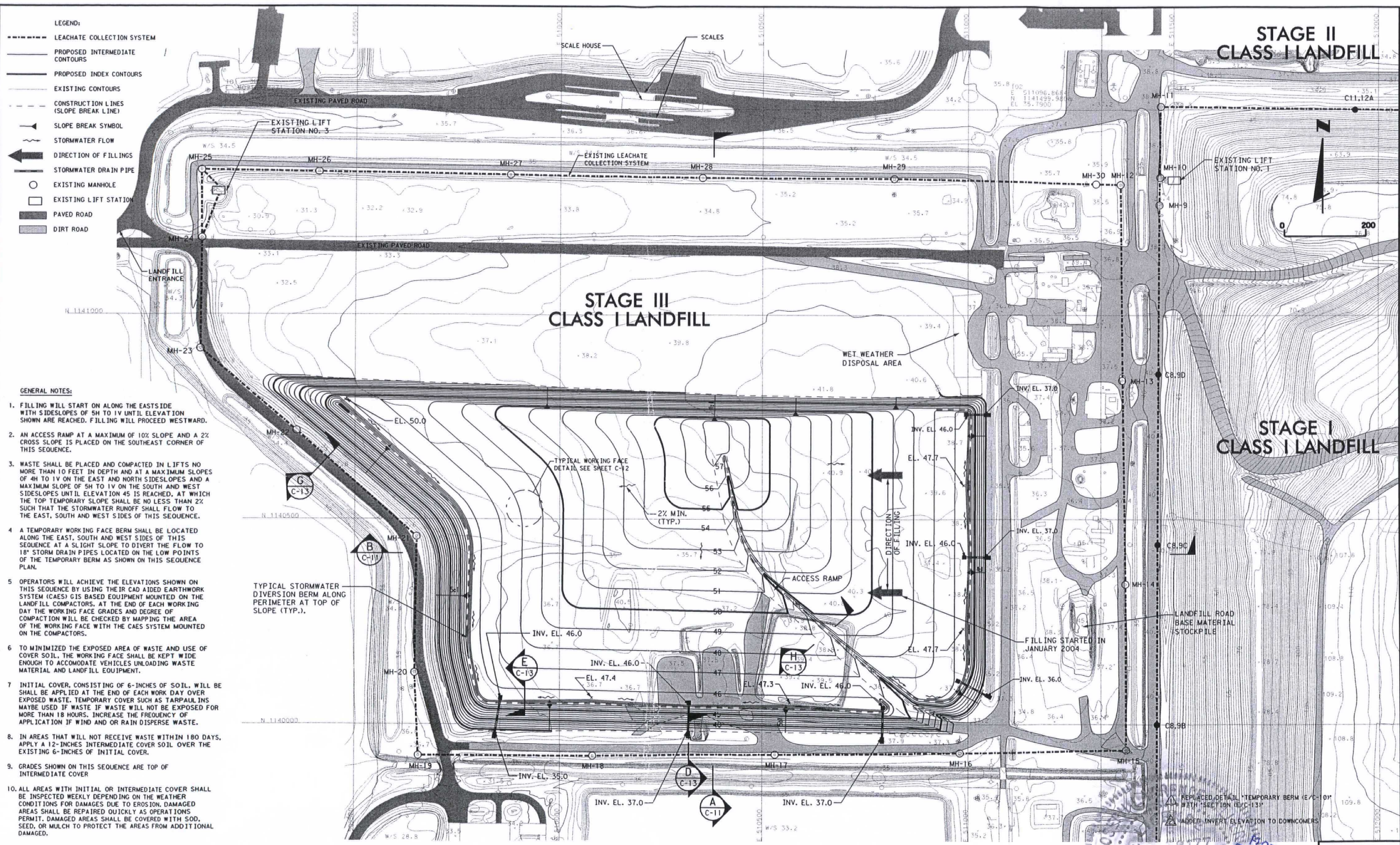
DRAWN RGC

DESIGN JLM/RGC

CHECKED JLM

Q.C. DED

SHEET 3/13



- LEGEND:**
- LEACHATE COLLECTION SYSTEM
 - PROPOSED INTERMEDIATE CONTOURS
 - PROPOSED INDEX CONTOURS
 - EXISTING CONTOURS
 - CONSTRUCTION LINES (SLOPE BREAK LINE)
 - SLOPE BREAK SYMBOL
 - STORMWATER FLOW
 - DIRECTION OF FILLINGS
 - STORMWATER DRAIN PIPE
 - EXISTING MANHOLE
 - EXISTING LIFT STATION
 - PAVED ROAD
 - DIRT ROAD
- GENERAL NOTES:**
- FILLING WILL START ON ALONG THE EASTSIDE WITH SIDESLOPES OF 5H TO 1V UNTIL ELEVATION SHOWN ARE REACHED. FILLING WILL PROCEED WESTWARD.
 - AN ACCESS RAMP AT A MAXIMUM OF 10% SLOPE AND A 2% CROSS SLOPE IS PLACED ON THE SOUTHEAST CORNER OF THIS SEQUENCE.
 - WASTE SHALL BE PLACED AND COMPACTED IN LIFTS NO MORE THAN 10 FEET IN DEPTH AND AT A MAXIMUM SLOPES OF 4H TO 1V ON THE EAST AND NORTH SIDESLOPES AND A MAXIMUM SLOPE OF 5H TO 1V ON THE SOUTH AND WEST SIDESLOPES UNTIL ELEVATION 45 IS REACHED, AT WHICH THE TOP TEMPORARY SLOPE SHALL BE NO LESS THAN 2% SUCH THAT THE STORMWATER RUNOFF SHALL FLOW TO THE EAST, SOUTH AND WEST SIDES OF THIS SEQUENCE.
 - A TEMPORARY WORKING FACE BERM SHALL BE LOCATED ALONG THE EAST, SOUTH AND WEST SIDES OF THIS SEQUENCE AT A SLIGHT SLOPE TO DIVERT THE FLOW TO 18" STORM DRAIN PIPES LOCATED ON THE LOW POINTS OF THE TEMPORARY BERM AS SHOWN ON THIS SEQUENCE PLAN.
 - OPERATORS WILL ACHIEVE THE ELEVATIONS SHOWN ON THIS SEQUENCE BY USING THE IR CAD AIDED EARTHWORK SYSTEM (CAES) GIS BASED EQUIPMENT MOUNTED ON THE LANDFILL COMPACTORS. AT THE END OF EACH WORKING DAY THE WORKING FACE GRADES AND DEGREE OF COMPACTION WILL BE CHECKED BY MAPPING THE AREA OF THE WORKING FACE WITH THE CAES SYSTEM MOUNTED ON THE COMPACTORS.
 - TO MINIMIZED THE EXPOSED AREA OF WASTE AND USE OF COVER SOIL, THE WORKING FACE SHALL BE KEPT WIDE ENOUGH TO ACCOMODATE VEHICLES UNLOADING WASTE MATERIAL AND LANDFILL EQUIPMENT.
 - INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE SHALL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE. TEMPORARY COVER SUCH AS TARPULAINS MAYBE USED IF WASTE IF WASTE WILL NOT BE EXPOSED FOR MORE THAN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND AND OR RAIN DISPERSE WASTE.
 - IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY A 12-INCHES INTERMEDIATE COVER SOIL OVER THE EXISTING 6-INCHES OF INITIAL COVER.
 - GRADES SHOWN ON THIS SEQUENCE ARE TOP OF INTERMEDIATE COVER
 - ALL AREAS WITH INITIAL OR INTERMEDIATE COVER SHALL BE INSPECTED WEEKLY DEPENDING ON THE WEATHER CONDITIONS FOR DAMAGES DUE TO EROSION, DAMAGED AREAS SHALL BE REPAIRED QUICKLY AS OPERATIONS PERMIT. DAMAGED AREAS SHALL BE COVERED WITH SOD, SEED, OR MULCH TO PROTECT THE AREAS FROM ADDITIONAL DAMAGED.



482 South Keller Road
Orlando, FL 32810-6101
Tel. (407) 647-7275
Fax. (407) 647-0824
www.pbsj.com
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4th Floor
3001 N.W. 107th Ave., Miami, FL 33178-8501
PBB Certificate of Authorization No. 94

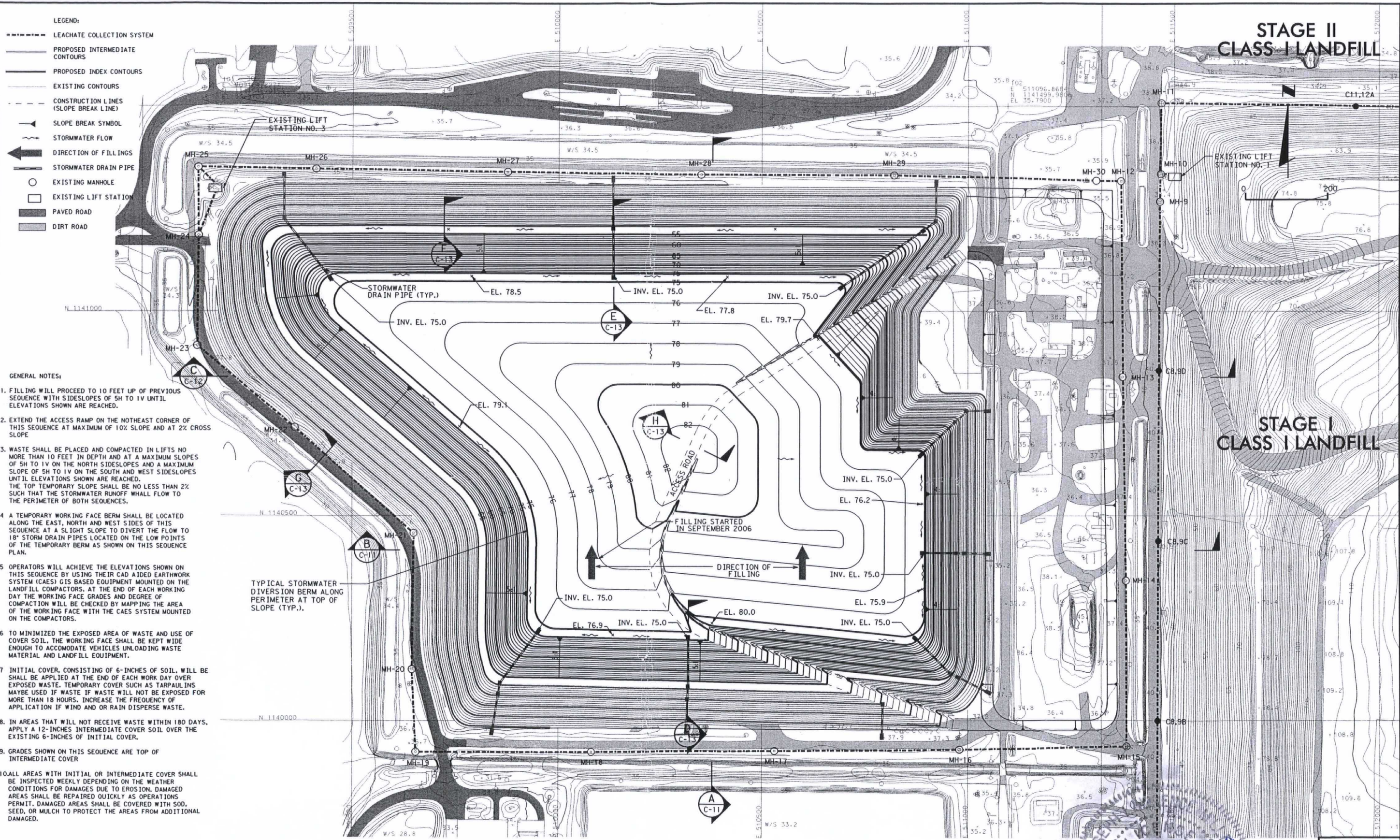
CLIENT	PROJECT
MANATEE COUNTY	LENA ROAD LANDFILL
BOARD OF COUNTY COMMISSIONERS	FILL SEQUENCE PLAN
	STAGE III LANDFILL

TASK
SEQUENCE 1
(JAN. 2004 - JAN. 2005)

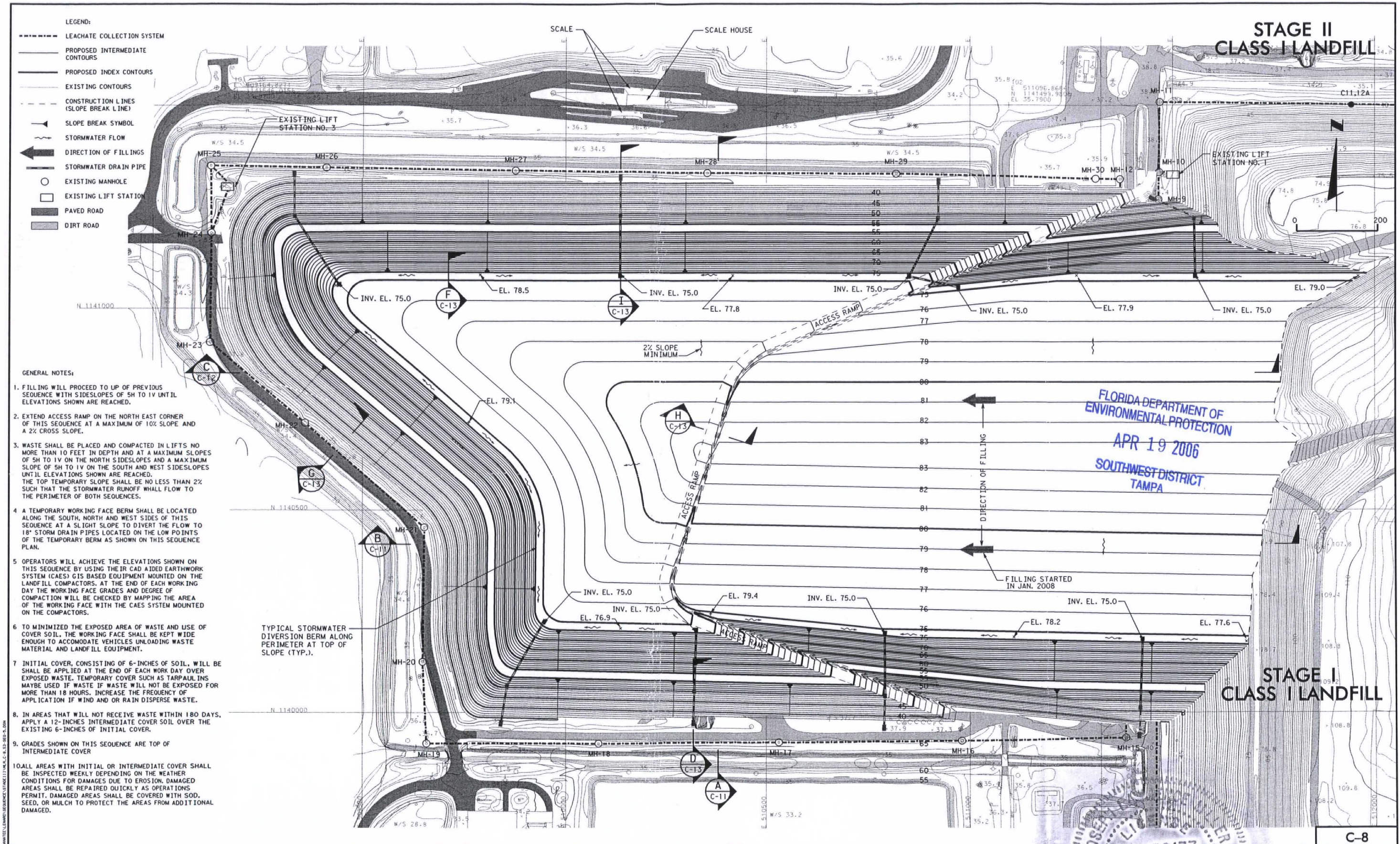
ORIGINAL MAY 2004
REVISIONS:
1. JANUARY 2006
2. APRIL 2006
3.
4.
5.

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
SOUTHWEST DISTRICT
TAMPA

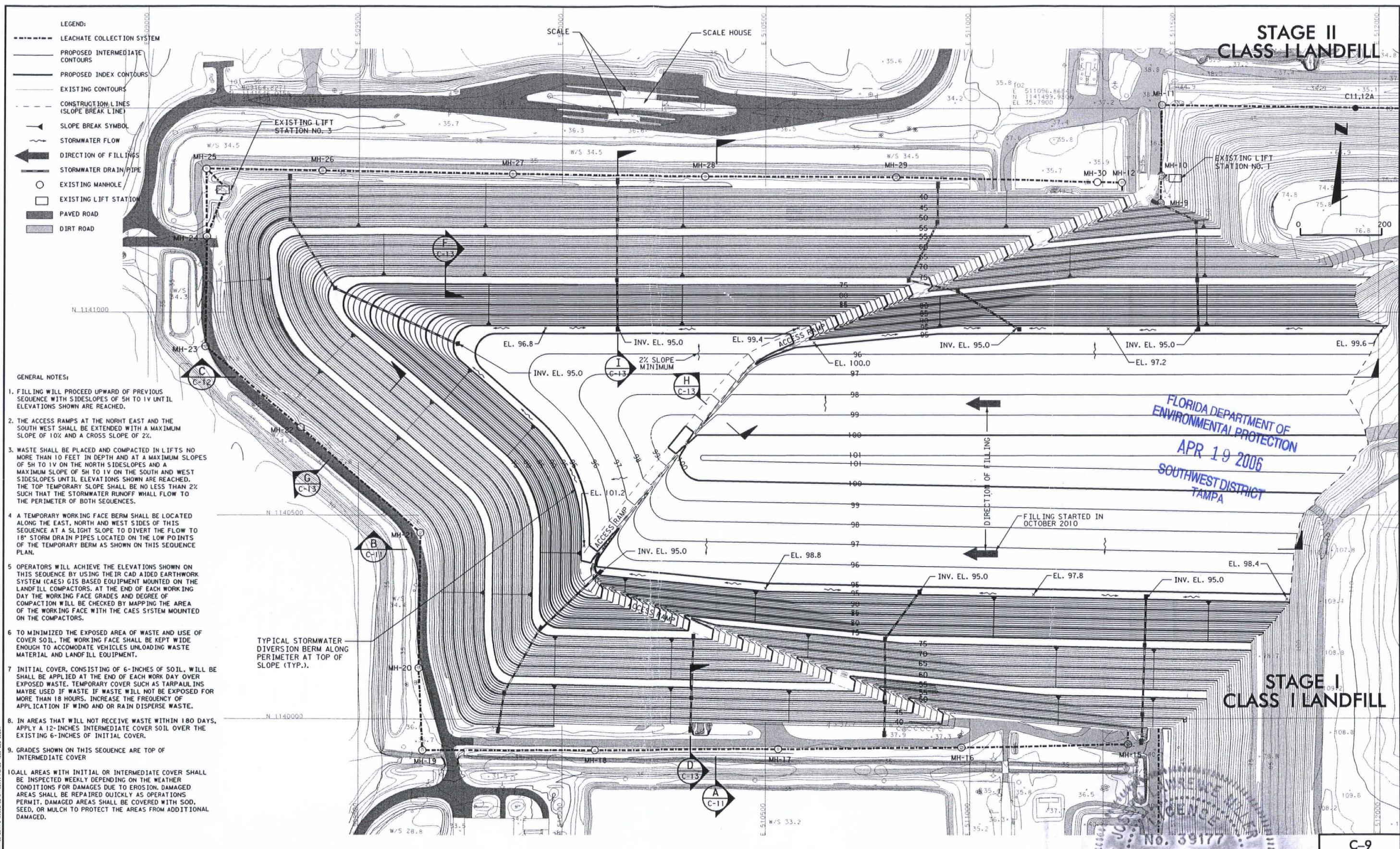
NO. 39177	C-4
FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION	JOB NO. 00-000.00
DESIGNED BY JLM/RGC	DRAWN BY JLM/RGC
CHECKED BY JLM	DED
SHEET 4/13	




<p>PBS&J</p> <p>482 South Keller Road Orlando, FL 32810-6101 Tel. (407) 647-7275 Fax. (407) 647-0824 www.pbsj.com</p> <p>PORT BUCKLEY, SCHULTZ & JERNIGAN, Inc. 400 W. 17th Ave., Suite 100 Miami, FL 33135-3607 FBI Certificate of Authorization No. 94</p>	<p>CLIENT</p> <p>MANATEE COUNTY</p> <p>BOARD OF COUNTY COMMISSIONERS</p>	<p>PROJECT</p> <p>LENA ROAD LANDFILL</p> <p>FILL SEQUENCE PLAN</p> <p>STAGE III LANDFILL</p>	<p>TASK</p> <p>SEQUENCE 4</p> <p>(SEPT. 2006 - MAY. 2008)</p>	<p>ORIGINAL MAY 2004</p> <p>REVISIONS:</p> <p>1. FEB. 2005</p> <p>2. JAN. 2006</p> <p>3. APRIL 2006</p> <p>4.</p> <p>5.</p>	<p>JOSEPH L. MILLER FILLING SUPERVISOR</p> <p>482 S. Keller Road Orlando, FL 32810-6101</p> <p>Signature: [Signature] Date: 4/18/06</p> <p>FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION DISTRICT 19 TAMPA</p> <p>HOB NO. 00-000.00 DRAWN RGC DESIGN JLM/RGC CHECKED JLM A.C. DED</p> <p>SHEET 7/13</p>
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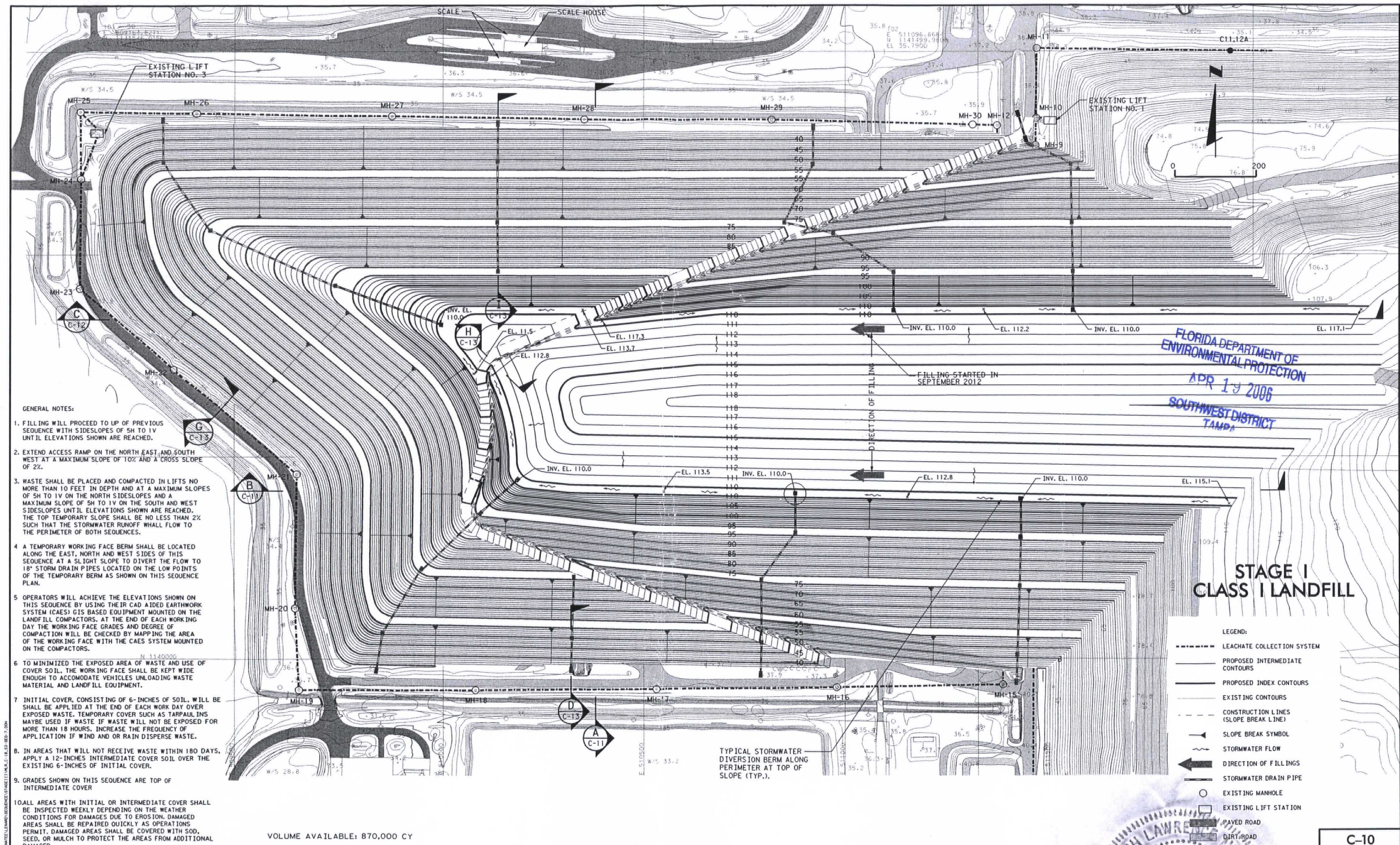


<p>482 South Keller Road Orlando, FL 32810-6101 Tel (407) 647-7275 Fax (407) 647-0824 www.pbsj.com</p> <p>PORT BUCKLEY, BOEHM & JERNIGAN, Inc. 401 N.W. 107th Ave, Miami, FL 33178-8507 FPR Certificate of Authorization No. 94</p>	<p>CLIENT</p> <p>MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS</p>	<p>PROJECT</p> <p>LENA ROAD LANDFILL FILL SEQUENCE PLAN STAGE III LANDFILL</p>	<p>TASK</p> <p>SEQUENCE 5 (MAY. 2008 - OCT. 2010)</p>	<p>ORIGINAL MAY 2004 REVISIONS: 1. FEB. 2005 2. APRIL 2006 3. 4. 5.</p>	<p>Name: JOSEPH L. MILLER Florida P.E. No. 1001 Address: 482 S. Keller Rd. Orlando, FL 32810-6101 Phone: (407) 647-7275 Fax: (407) 647-0824 Email: jlmiller@pbsj.com</p>	<p>JOB NO. 00-000.00 DRAWN: RGC DESIGN: JLM/RGC CHECKED: JLM Q.C.: DED</p> <p>SHEET 8/13</p>
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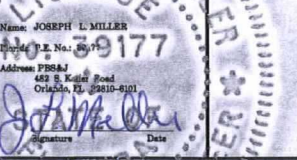
 <p>482 South Keller Road Orlando, FL 32810-6101 Tel. (407) 647-7875 Fax. (407) 647-0824 www.pbs&j.com</p> <p>PORT BUCKLEY, SCHUH & JERNIGAN, Inc. 404 TRICK 8001 N.W. 107th Ave., Miami, FL 33178-3507 FPA Certificate of Authorization No. 94</p>	<p>CLIENT</p> <p>MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS</p>	<p>PROJECT</p> <p>LENA ROAD LANDFILL FILL SEQUENCE PLAN STAGE III LANDFILL</p>	<p>TASK</p> <p>SEQUENCE 6 (OCT. 2010 - SEPT. 2012)</p>	<p>ORIGINAL MAY 2004 REVISIONS: 1. FEB. 2005 2. APRIL 2006 3. 4. 5.</p>	<p>STATE OF FLORIDA Professional Engineer No. 39177</p>	<p>JOB NO. 00-000.00 DRAWN RGC DESIGN JLM/RGC CHECKED JLM O.C. DED</p> <p>SHEET 9/13</p>
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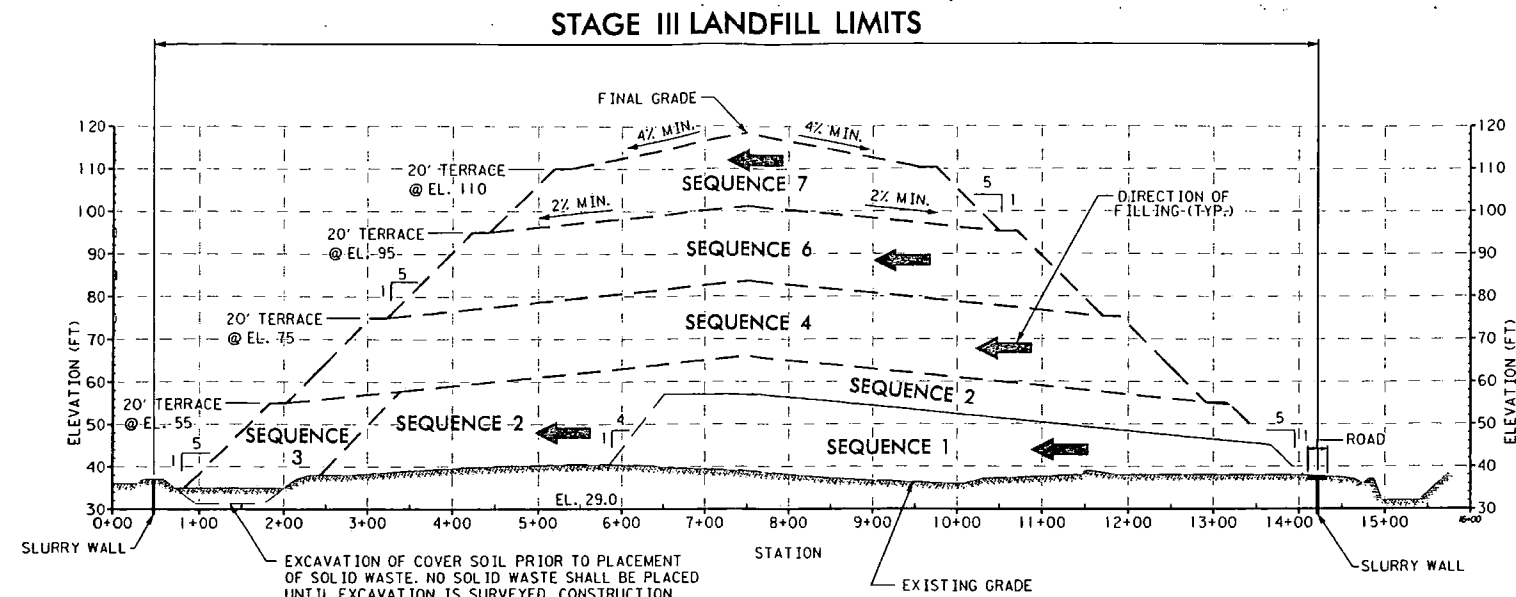
4/18/06



- GENERAL NOTES:
1. FILLING WILL PROCEED TO TOP OF PREVIOUS SEQUENCE WITH SIDESLOPES OF 5H TO 1V UNTIL ELEVATIONS SHOWN ARE REACHED.
 2. EXTEND ACCESS RAMP ON THE NORTH EAST AND SOUTH WEST AT A MAXIMUM SLOPE OF 10% AND A CROSS SLOPE OF 2%.
 3. WASTE SHALL BE PLACED AND COMPACTED IN LIFTS NO MORE THAN 10 FEET IN DEPTH AND AT A MAXIMUM SLOPES OF 5H TO 1V ON THE NORTH SIDESLOPES AND A MAXIMUM SLOPE OF 5H TO 1V ON THE SOUTH AND WEST SIDESLOPES UNTIL ELEVATIONS SHOWN ARE REACHED. THE TOP TEMPORARY SLOPE SHALL BE NO LESS THAN 2% SUCH THAT THE STORMWATER RUNOFF SHALL FLOW TO THE PERIMETER OF BOTH SEQUENCES.
 4. A TEMPORARY WORKING FACE BERM SHALL BE LOCATED ALONG THE EAST, NORTH AND WEST SIDES OF THIS SEQUENCE AT A SLIGHT SLOPE TO DIVERT THE FLOW TO 18" STORM DRAIN PIPES LOCATED ON THE LOW POINTS OF THE TEMPORARY BERM AS SHOWN ON THIS SEQUENCE PLAN.
 5. OPERATORS WILL ACHIEVE THE ELEVATIONS SHOWN ON THIS SEQUENCE BY USING THE IR CAD AIDED EARTHWORK SYSTEM (CAES) GIS BASED EQUIPMENT MOUNTED ON THE LANDFILL COMPACTORS. AT THE END OF EACH WORKING DAY THE WORKING FACE GRADES AND DEGREE OF COMPACTION WILL BE CHECKED BY MAPPING THE AREA OF THE WORKING FACE WITH THE CAES SYSTEM MOUNTED ON THE COMPACTORS.
 6. TO MINIMIZE THE EXPOSED AREA OF WASTE AND USE OF COVER SOIL, THE WORKING FACE SHALL BE KEPT WIDE ENOUGH TO ACCOMMODATE VEHICLES UNLOADING WASTE MATERIAL AND LANDFILL EQUIPMENT.
 7. INITIAL COVER, CONSISTING OF 6-INCHES OF SOIL, WILL BE APPLIED AT THE END OF EACH WORK DAY OVER EXPOSED WASTE. TEMPORARY COVER SUCH AS TARPULINS MAYBE USED IF WASTE IF WASTE WILL NOT BE EXPOSED FOR MORE THAN 18 HOURS. INCREASE THE FREQUENCY OF APPLICATION IF WIND AND OR RAIN DISPERSE WASTE.
 8. IN AREAS THAT WILL NOT RECEIVE WASTE WITHIN 180 DAYS, APPLY A 12-INCHES INTERMEDIATE COVER SOIL OVER THE EXISTING 6-INCHES OF INITIAL COVER.
 9. GRADES SHOWN ON THIS SEQUENCE ARE TOP OF INTERMEDIATE COVER
 10. ALL AREAS WITH INITIAL OR INTERMEDIATE COVER SHALL BE INSPECTED WEEKLY DEPENDING ON THE WEATHER CONDITIONS FOR DAMAGES DUE TO EROSION. DAMAGED AREAS SHALL BE REPAIRED QUICKLY AS OPERATIONS PERMIT. DAMAGED AREAS SHALL BE COVERED WITH SOD, SEED, OR MULCH TO PROTECT THE AREAS FROM ADDITIONAL DAMAGED.

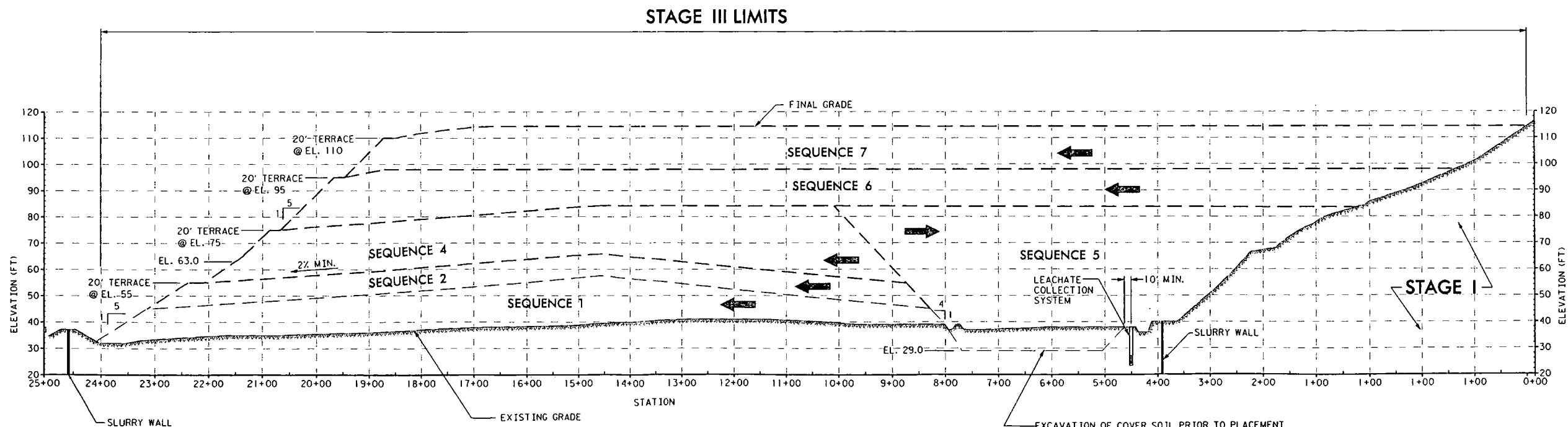
VOLUME AVAILABLE: 870,000 CY

 <p>482 South Keller Road Orlando, FL 32810-6101 Tel (407) 647-7275 Fax (407) 647-0824 www.pbsj.com</p> <p>PORT BUCKLEY, BOEHM & JERNIGAN, Inc. 404 PDAJ 3001 N.W. 107th Ave., Miami, FL 33175-3507 FIDPA Certificate of Authorization No. 54</p>	CLIENT MANATEE COUNTY BOARD OF COUNTY COMMISSIONERS	PROJECT LENA ROAD LANDFILL FILL SEQUENCE PLAN STAGE III LANDFILL	TASK SEQUENCE 7 (SEPT. 2012 - NOV. 2013)	ORIGINAL MAY 2008 REVISIONS: 1. SEPT. 2009 2. APRIL 2006 3. 4. 5.	 <p>JOSEPH L. MILLER Professional Engineer No. 19177 State of Florida 482 S Keller Road Orlando, FL 32810-6101</p>	JOB NO. 00-000.00 DRAWN RGC DESIGN JLM/RGC CHECKED JLM Q.C. DED SHEET 10/13
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SECTION A A A A A A A
 SCALE: N.T.S. C-4 C-5 C-6 C-7 C-8 C-9 C-10

FLORIDA DEPARTMENT OF
 ENVIRONMENTAL PROTECTION
 APR 19 2006
 SOUTHWEST DISTRICT
 TAMPA



SECTION B B B B B B B
 SCALE: N.T.S. C-4 C-5 C-6 C-7 C-8 C-9 C-10

C-11



488 South Keller Road
 Orlando, FL 32810-6101
 Tel. (407) 647-7875
 Fax. (407) 647-0824
 www.pbsj.com
 PORT BUCKLEY, BOHLEN & JERNIGAN, Inc.
 404 P.O. Box
 2001 N.W. 107th Ave., Miami, FL 33178-8807
 FDOT Certificate of Authorization No. 34

CLIENT
MANATEE COUNTY
BOARD OF COUNTY COMMISSIONERS

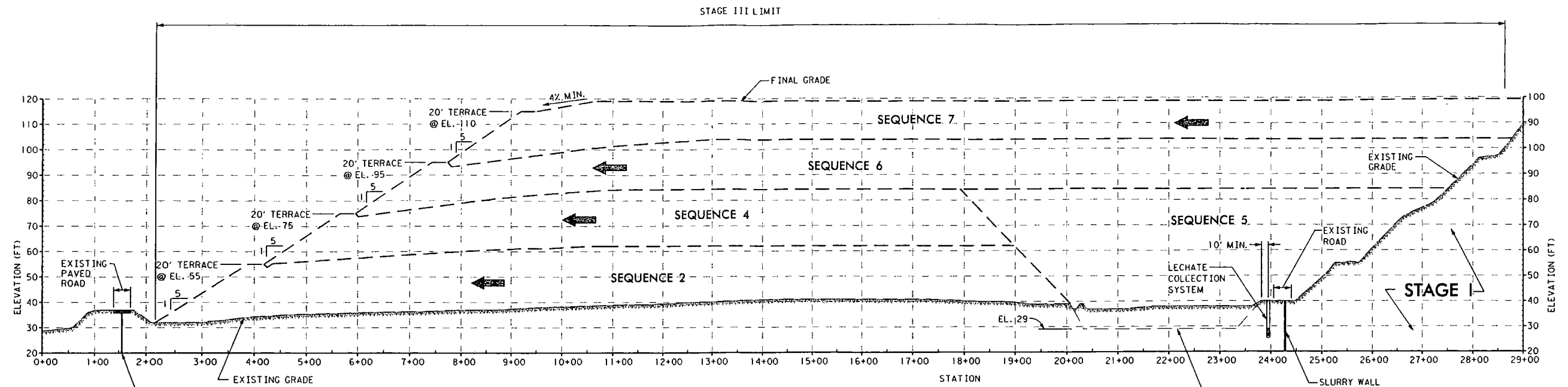
PROJECT
LENA ROAD LANDFILL
FILL SEQUENCE PLAN
STAGE III LANDFILL

TASK
CROSS SECTIONS

ORIGINAL MAY 2002
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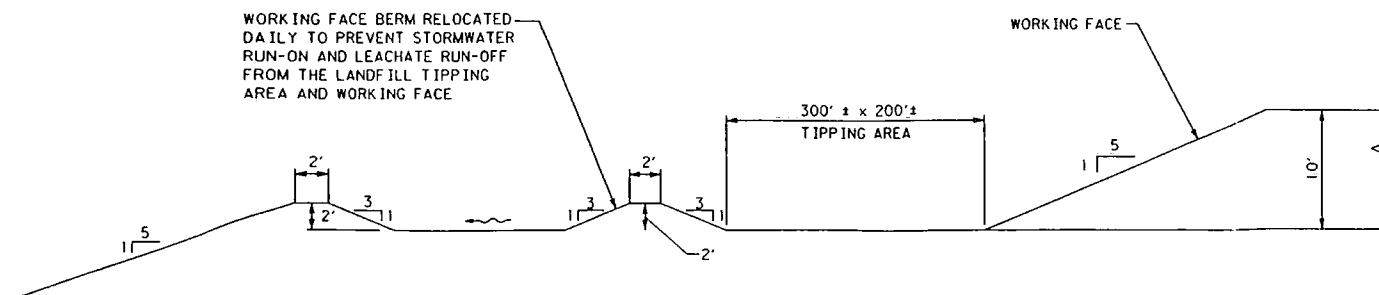
JOSEPH LAWRENCE
 LICENSED PROFESSIONAL ENGINEER
 No. 20177
 State of Florida
 Address: 10000
 (305) 400-1000

JOB NO. 00-000.00
 DRAWN RGC
 DESIGN JLM/RGC
 CHECKED JLM
 Q.C. DED
 SHEET 11/11



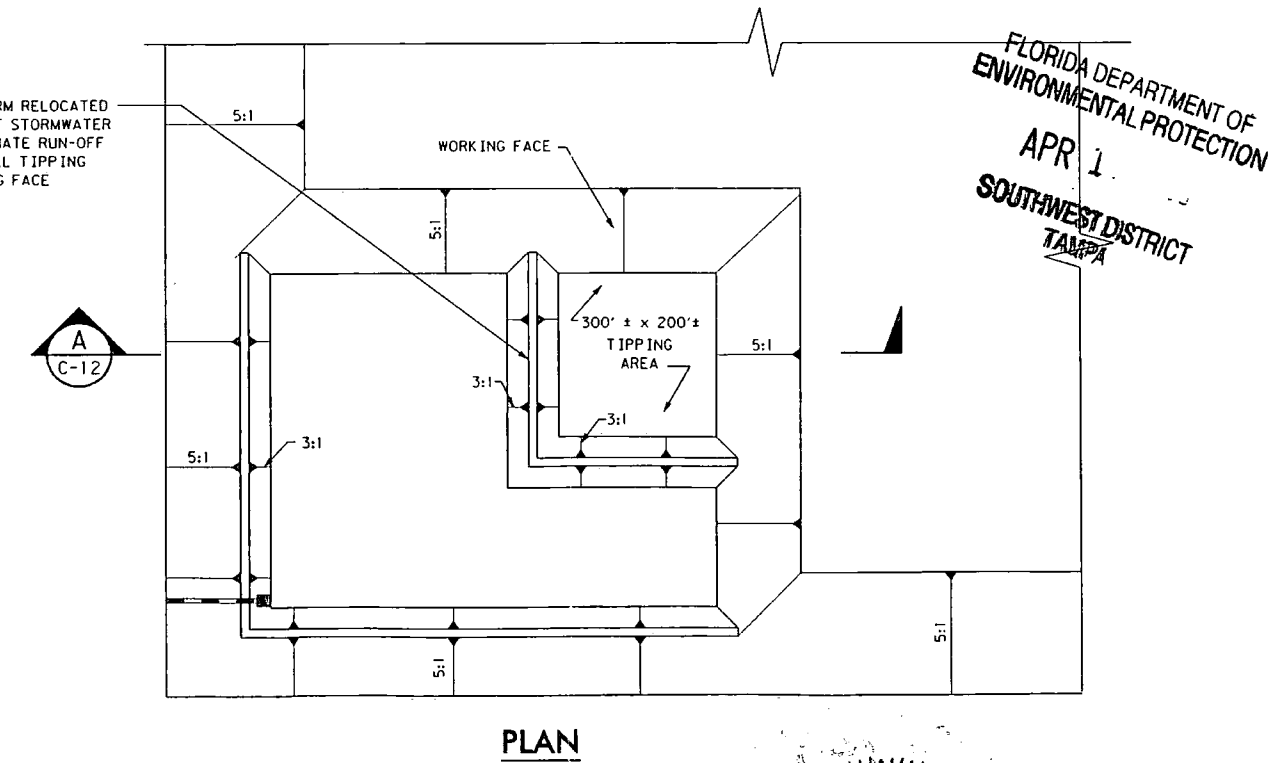
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EXCAVATION OF COVER SOIL PRIOR TO PLACEMENT OF SOLID WASTE. NO SOLID WASTE SHALL BE PLACED UNTIL EXCAVATION IS SURVEYED. CONSTRUCTION CERTIFICATION IS SUBMITTED TO FDEP WITH THE RECORD DRAWINGS, AND FDEP APPROVES THE CERTIFICATION.



SECTION A
C-12

WORKING FACE BERM RELOCATED DAILY TO PREVENT STORMWATER RUN-ON AND LEACHATE RUN-OFF FROM THE LANDFILL TIPPING AREA AND WORKING FACE



TYPICAL WORKING FACE DETAIL
SCALE: N.T.S.

PBS&J

488 South Keller Road
Orlando, FL 32810-6101
Tel. (407) 647-7875
Fax. (407) 647-0684
www.pbsj.com

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2001 N.W. 107th Ave., Miami, FL 33178-2507
FDEP Certificate of Authorization No. 24

CLIENT

MANATEE COUNTY

BOARD OF COUNTY COMMISSIONERS

PROJECT

LENA ROAD LANDFILL

FILL SEQUENCE PLAN

STAGE III LANDFILL

TASK

CROSS SECTION

AND TYPICAL WORKING

FACE DETAIL

ORIGINAL MAY 2004

REVISIONS:

1. FEB. 2005

2. JAN. 2006

3.

4.

5.

JOSEPH LAWRENCE

LICENSED PROFESSIONAL ENGINEER

No. 39177

STATE OF FLORIDA

2/2/06

C-12

JOB NO. 00-000.00

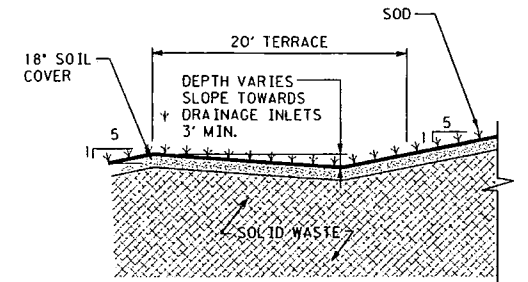
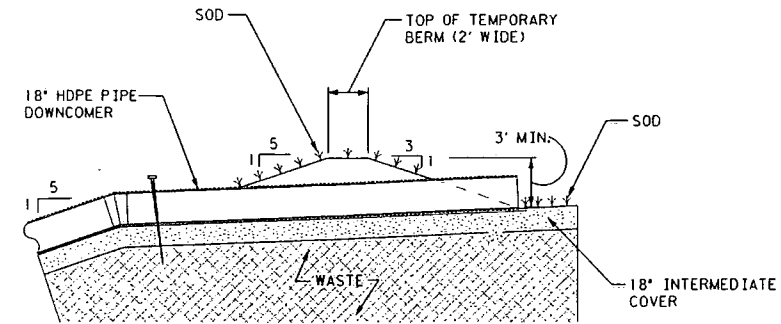
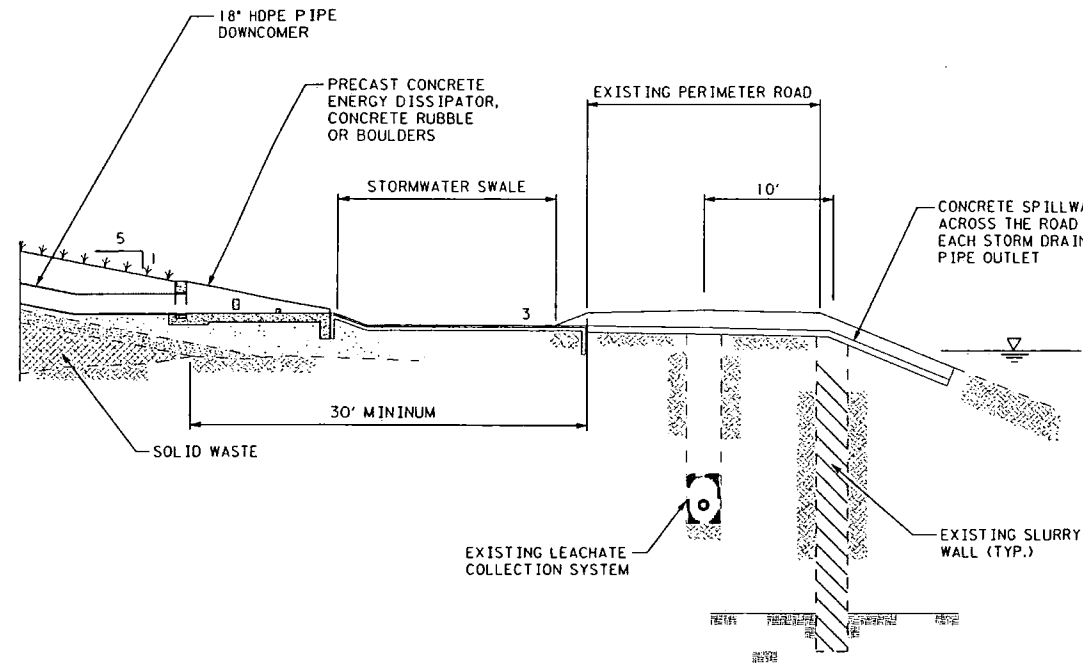
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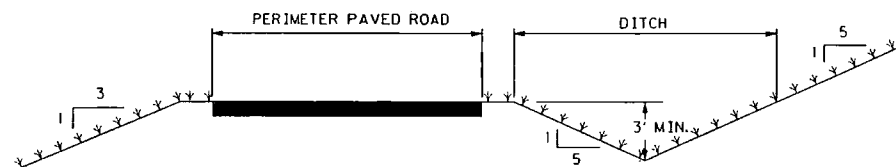
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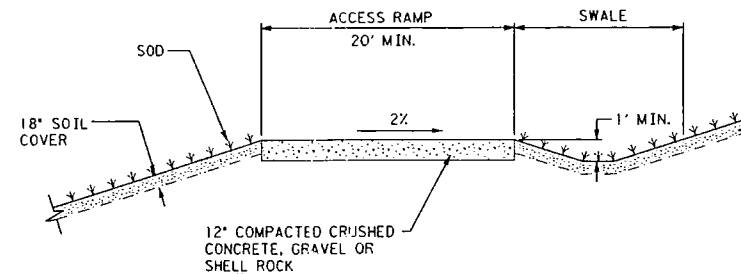
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SECTION F F F F
SCALE: N.T.S. C-7 C-8 C-9 C-10

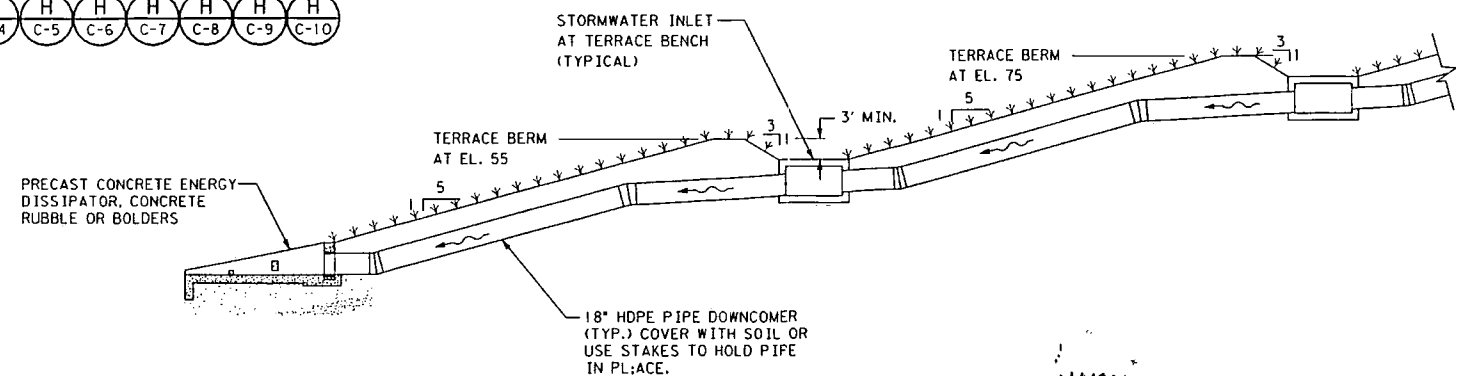
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SCALE: N.T.S. C-4 C-5 C-6 C-7 C-8 C-9 C-10



ACCESS RAMP H H H H H H H
SCALE: N.T.S. C-4 C-5 C-6 C-7 C-8 C-9 C-10



SECTION I I I I
SCALE: N.T.S. C-8 C-9 C-10 C-11

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
APR 19 2006
SOUTHWEST DISTRICT
TAMPA

JOSEPH LAWRENCE MILLER
LICENSED PROFESSIONAL ENGINEER
No. 59177

C-13

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488 South Keller Road
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Tel. (407) 647-7875
Fax. (407) 647-0824
www.pbsj.com
PORT BUCKLEY, SCHUEH & JERNIGAN, Inc.
3001 N.W. 107th Ave., Miami, FL 33178-8507
FEPB Certificate of Authorization No. 84

CLIENT
MANATEE COUNTY
BOARD OF COUNTY COMMISSIONERS

PROJECT
LENA ROAD LANDFILL
FILL SEQUENCE PLAN
STAGE III LANDFILL

TASK
DETAILS

ORIGINAL MAY 2004
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1. FEB. 2005
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JOSEPH LAWRENCE MILLER
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