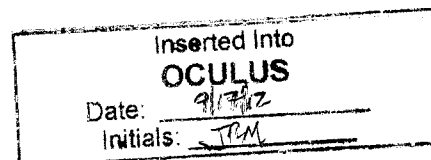


**Morris, John R.**

**From:** Lois Rose [lerose@scgov.net]  
**Sent:** Friday, September 14, 2012 11:04 PM  
**To:** Morris, John R.  
**Subject:** Re: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

Document received. Thanks

*Sent from my Motorola Smartphone on the Now Network from Sprint!*



-----Original message-----

**From:** "Morris, John R." <John.R.Morris@dep.state.fl.us>  
**To:** Lois Rose <lerose@scgov.net>  
**Cc:** Gary Bennett <gbennett@scgov.net>, Alison Eggleston <aeggles@scgov.net>, "Bradley.Bayne@atkinsglobal.com" <Bradley.Bayne@atkinsglobal.com>, "dave.deans@atkinsglobal.com" <dave.deans@atkinsglobal.com>, "Tedder, Richard" <Richard.Tedder@dep.state.fl.us>, "McGuire, Chris" <Chris.McGuire@dep.state.fl.us>, Solid Waste Financial Coordinator <Solid.Waste.Financial.Coordinator@dep.state.fl.us>, "Pelz, Susan" <Susan.Pelz@dep.state.fl.us>, "Morgan, Steve" <Steve.Morgan@dep.state.fl.us>, "Madden, Melissa" <Melissa.Madden@dep.state.fl.us>, Carolyn Mason <cmason@scgov.net>, Christine Robinson <crobinso@scgov.net>, Joseph Barbetta <jbarbett@scgov.net>, Jon Thaxton <jthaxton@scgov.net>, Nora Patterson <npatters@scgov.net>, County Administrator <countyadministrator@scgov.net>, "Representative Darryl E. Rouson" <darryl.rouson@myfloridahouse.gov>, Representative Doug Holder <doug.holder@myfloridahouse.gov>, Representative Greg Steube <greg.steube@myfloridahouse.gov>, Representative Kenneth Roberson <ken.roberson@myfloridahouse.gov>, Representative Ray Pilon <ray.pilon@myfloridahouse.gov>, Senator Michael Bennett <bennett.mike.web@flsenate.gov>, Senator Nancy Detert <detert.nancy.web@flsenate.gov>  
**Sent:** Fri, Sep 14, 2012 18:42:43 EST  
**Subject:** Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

Dear Ms. Rose:

Attached is the official Notice of Permit Modification for the project referenced below. This is the only copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>. Please open and review the document as soon as possible, and verify that it is accessible. Please send a "reply" message verifying receipt of the document.

**Note: We must receive verification that you are able to access the document. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).**

**OCULUS Information:**  
Facility County: Sarasota  
Facility ID: 51614  
Catalog: Solid Waste  
Profile: Permitting-Authorization  
Document type: Permit Issued-Denied Related

Facility Name: Central County Solid Waste Disposal Complex  
Owner/Company/Permittee Name: Sarasota County Solid Waste Operations  
Project/Permit Number: 130542-007-SO/01, modification #130542-019-SO/MM  
Permit Activity: Issue

The Southwest District Waste Management Program is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal Service, to provide greater service to the applicant and the regulated community. You may access this document and others in the Department's OCULUS document

management system by clicking on the link <http://dwmedms.dep.state.fl.us/Oculus/servlet/login> and use the public log-in button. Under the search feature, you may look through various documents including permitting, compliance, fiscal, cleanup and enforcement documents.

Documents addressed in this email may require immediate action within a specified time frame. Please advise this office of any changes to your e-mail address. If you have any questions concerning the content of this document, please contact John Morris at [John.R.Morris@dep.state.fl.us](mailto:John.R.Morris@dep.state.fl.us) and/or 813-632-7600, ext. 336, Florida Department of Environmental Protection, Southwest District Office. If you have any difficulty reading and/or printing the document, please contact Anna Brantley at ext. 377.

\*\*\*\*\*

John R. Morris, P.G.  
FDEP SW District Office, Solid Waste Section  
13051 N. Telecom Pkwy.  
Temple Terrace, FL 33637-0926.



**Morris, John R.**

---

**From:** Microsoft Exchange  
**To:** Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube; Representative Kenneth Roberson; Representative Ray Pilon  
**Sent:** Friday, September 14, 2012 6:43 PM  
**Subject:** Relayed: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

Representative Darryl E. Rouson

Representative Doug Holder

Representative Greg Steube

Representative Kenneth Roberson

Representative Ray Pilon

Subject: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

---

Sent by Microsoft Exchange Server 2007

**Morris, John R.**

---

**From:** Microsoft Exchange  
**To:** 'Bradley.Bayne@atkinsglobal.com'; 'dave.deans@atkinsglobal.com'  
**Sent:** Friday, September 14, 2012 6:43 PM  
**Subject:** Relayed: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'Bradley.Bayne@atkinsglobal.com'

'dave.deans@atkinsglobal.com'

**Subject:** Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

---

Sent by Microsoft Exchange Server 2007

**Morris, John R.**

---

**From:** Microsoft Exchange  
**To:** Tedder, Richard; Solid Waste Financial Coordinator; Pelz, Susan; Madden, Melissa; Morgan, Steve  
**Sent:** Friday, September 14, 2012 6:43 PM  
**Subject:** Delivered: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

**Your message has been delivered to the following recipients:**

Tedder, Richard

Solid Waste Financial Coordinator

Pelz, Susan

Madden, Melissa

Morgan, Steve

**Subject:** Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

---

Sent by Microsoft Exchange Server 2007

**Morris, John R.**

---

**From:** Microsoft Exchange  
**To:** McGuire, Chris  
**Sent:** Friday, September 14, 2012 6:43 PM  
**Subject:** Delivered: Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

**Your message has been delivered to the following recipients:**

McGuire, Chris

**Subject:** Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614

---

Sent by Microsoft Exchange Server 2007

**Morris, John R.**

---

**From:** Morris, John R.  
**Sent:** Friday, September 14, 2012 6:43 PM  
**To:** Lois Rose (LEROSE@scgov.net)  
**Cc:** 'gbennett@scgov.net'; 'aeggles@scgov.net'; 'Bradley.Bayne@atkinsglobal.com'; 'dave.deans@atkinsglobal.com'; Tedder, Richard; McGuire, Chris; Solid Waste Financial Coordinator; Pelz, Susan; Morgan, Steve; Madden, Melissa; Commissioner Carolyn Mason; Commissioner Christine Robinson; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; County Administrator Jim Ley; Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube; Representative Kenneth Roberson; Representative Ray Pilon; Senator Michael Bennett; Senator Nancy Detert  
**Subject:** Notice of Permit Modification - Sarasota Central (CCSWDC), WACS facility #51614  
**Attachments:** NOP\_Sarasota CCSWDC Phase I\_II Operation 130542-007-SO\_mod\_130542-019-MM [WACS 51614]9-14-2012\_opt.pdf  
**Categories:** OCULUS inserted

Dear Ms. Rose:

Attached is the official Notice of Permit Modification for the project referenced below. This is the only copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>. Please open and review the document as soon as possible, and verify that it is accessible. Please send a "reply" message verifying receipt of the document.

**Note: We must receive verification that you are able to access the document. Your immediate reply will preclude subsequent e-mail transmissions to verify accessibility of the document(s).**

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**OCULUS Information:**

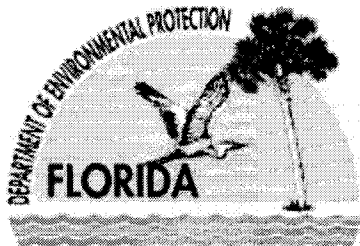
Facility County: Sarasota  
Facility ID: 51614  
Catalog: Solid Waste  
Profile: Permitting-Authorization  
Document type: Permit Issued-Denied Related

Facility Name: Central County Solid Waste Disposal Complex  
Owner/Company/Permittee Name: Sarasota County Solid Waste Operations  
Project/Permit Number: 130542-007-SO/01, modification #130542-019-SO/MM  
Permit Activity: Issue

The Southwest District Waste Management Program is issuing electronic documents for permits, notices and other correspondence in lieu of hard copies through the United States Postal Service, to provide greater service to the applicant and the regulated community. You may access this document and others in the Department's OCULUS document management system by clicking on the link <http://dwmedms.dep.state.fl.us/Oculus/servlet/login> and use the public log-in button. Under the search feature, you may look through various documents including permitting, compliance, fiscal, cleanup and enforcement documents.

Documents addressed in this email may require immediate action within a specified time frame. Please advise this office of any changes to your e-mail address. If you have any questions concerning the content of this document, please contact John Morris at [John.R.Morris@dep.state.fl.us](mailto:John.R.Morris@dep.state.fl.us) and/or 813-632-7600, ext. 336, Florida Department of Environmental Protection, Southwest District Office. If you have any difficulty reading and/or printing the document, please contact Anna Brantley at ext. 377.

\*\*\*\*\*  
John R. Morris, P.G.



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

Transmitted electronically only:  
[LEROSE@scgov.net](mailto:LEROSE@scgov.net)

September 14, 2012

## NOTICE OF PERMIT MODIFICATION

Sarasota County Environmental Services, Solid Waste Operations  
4000 Knights Trail Road  
Nokomis, FL 34275  
Attn: Ms. Lois Rose, Manager

Re: Central County solid Waste Disposal Complex, Class I Landfill  
Modification #130542-019 to permit #130542-007-SO/01  
WACS Facility #51614, Sarasota County

Dear Ms. Rose:

Attached is modified permit #130542-007-SO/01, issued pursuant to Section 403.087(1), Florida Statutes (F.S.), to conduct operate, monitor and maintain the subject facility. The following revisions have been provided in modification #130542-019-SO/MM:

Specific Condition	Type of Modification
Cover page (amended)	Refers to modification #130542-019-SO/MM.
#A.2.f.(2) (amended), and #A.2.h. (new)	Lists materials submitted in support of the applications for permit modification and refers to the revised "Water Quality Monitoring Plan" document.
#A.8. (amended)	Refers to Chapter 62-701, F.A.C., amended August 12, 2012.
#E.1.a., #E.9., #E.10., #E.10.a., #E.10.b., #E.11., and #G.3.b. (amended)	Deletes requirements to collect and analyze leachate samples, and to report the leachate results.
#E.3., #E.4., #E.8.a., #E.8.b., #E.8.c., #F.3., and #F.5.b. (amended)	Refers to the revised "Water Quality Monitoring Plan" document and/or to the new site map that depicts the locations of monitor wells, piezometers, surface water sampling locations, landfill gas probes, and condensate sampling location.
#E.5.c., #E.7., #E.8.c., #E.10.a., #E.11., #G.2., and #G.4.b. (amended)	Lists revised rule citations in Chapter 62-701, F.A.C., amended August 12, 2012.
#E.8.b. (amended)	Lists test site identification numbers for new surface water sampling locations.
#F.5.b. (amended)	Lists analytical parameters for condensate samples.

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

s\_w/sarasota/pmt/130542-019-so.mod.noticeofpermit

Inserted Into  
**OCULUS**  
Date: 9/14/12  
Initials: JRM

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, 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 this modification of permit 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 and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's 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



Mary E. Yeargan, P.G.  
Southwest District Director

MEY/jrm

Attachment



PERMITTEE: Sarasota County Solid Waste Operations  
Central County Solid Waste Disposal Complex, Class I Landfill  
Attn: Ms. Lois Rose, Manager

PERMIT #130542-007-SO/01  
MODIFICATION #130542-019  
Page 4 of 4

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed to the addressee before the close of business on September 14, 2012.

Other copies were transmitted electronically to the listed persons.

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



Clerk

09/14/2012  
Date

Copies furnished to:

Sarasota County Board of County Commissioners, Christine Robinson, Chair, [crobinson@scgov.net](mailto:crobinson@scgov.net)  
Sarasota County Notification List  
Gary Bennett, Sarasota County, [gbennett@scgov.net](mailto:gbennett@scgov.net)  
Alison Eggleston, Sarasota County, [aeggles@scgov.net](mailto:aeggles@scgov.net)  
Bradley J. Bayne, P.G., Atkins North America, Inc., [Bradley.Bayne@atkinsglobal.com](mailto:Bradley.Bayne@atkinsglobal.com)  
David E. Deans, P.E., Atkins North America, Inc., [dave.deans@atkinsglobal.com](mailto:dave.deans@atkinsglobal.com)  
Richard Tedder, P.E., FDEP Tallahassee  
Chris McGuire, FDEP OGC Tallahassee  
Solid Waste Financial Coordinator, FDEP Tallahassee, [Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)  
Susan Pelz, P.E., FDEP Southwest District  
Steve Morgan, FDEP Southwest District  
Melissa Madden, FDEP, Southwest District  
Permit Notebook



# Florida Department of Environmental Protection

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: 130542-007-SO/01  
Date of Issue: 11/18/2008  
Expiration Date: 11/18/2013  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System
4. Temporary Stormwater Management System in Cells 2-4

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010, 130542-015-SO/MM, dated 03/15/2011, 130542-018-SO/MM, dated 05/04/2012, and 130542-019-SO/MM, dated 09/14/2012.

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

GENERAL CONDITIONS:

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

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

GENERAL CONDITIONS:

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

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

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

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

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

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

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

13. This permit also constitutes:

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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]. Amended 03/15/2011.

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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above; replaced by Op. Plan referenced in SC #A.2.g.1. below]; Amended 05/04/2012.

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above; replaced by Water Quality Monitoring Plan referenced in SC #A.2.h.(1), below]; Amended 09/14/2012.

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above; and included in Op. Plan referenced in SC #A.2.g.1. below]. Amended 05/04/2012.

New 03/15/2011.

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

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

g. Application for Construction/Minor Modification to Class I Operation Permit - Central County Solid Waste Disposal Complex (CCSWDC)... (one 3-ring binder and plan set) dated January 19, 2012 (received January 23, 2012), as revised, replaced or amended (replacement pages inserted into original\*) dated March 2, 2012 (received March 5, 2012), prepared by SCS Engineers. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.f.(1), above];

2) Plan Set titled, Sarasota County Central County Solid Waste Disposal Complex Stormwater Management System Improvements (7 Sheets) dated February 2012 (received March 5, 2012).

New 05/04/2012.

h. Application for a Minor Permit Modification, Sarasota County Central County Solid Waste Disposal Complex, dated June 15, 2012 (received June 18, 2012), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above), and received via e-mail August 2, 2012. This information includes, but is not limited to:

1) Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan, prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised Section 3.1 received August 2, 2012 [replaces Water Quality Monitoring Plan, Central County solid Waste Disposal Complex referenced in SC #A.2.f.(2), above].

New 09/14/2012.

\* see OCULUS for uncollated submittals

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.



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

(Specific Condition #A.3., cont'd)

c. This permit does not authorize the **operation** of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.
- 2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,
- 3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.
- 4) Construction of the stormwater management system,
- 5) Financial assurance requirements of Specific Condition #D.4.b.,

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

e. This permit authorizes the **operation** of the temporary stormwater management system in Cells 2-4 of Phase II upon completion of the following requirements and submittal by the Permittee to and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.a. of Construction Permit No. 130542-017-SC/08 or its successors.

New 05/04/2012.

f. Upon completion of construction and approval by the Department of the temporary stormwater management system in Cells 2-4 in accordance with Specific Condition A.3.e. above, this permit does not authorize the **operation** of the Phase II, Cells 2-4 portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.b. of Construction Permit No. 130542-017-SC/08 or its successors, for the removal of the temporary stormwater management system and restoration of the leachate collection system for each cell in Cell 2-4 of Phase II.

New 05/04/2012.

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.  
Amended 03/15/2011.

**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 August 12, 2012, 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.

Amended 04/08/2010 and 09/14/2012.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. 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.6.b., below.

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

**1. Construction.**

- a. All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.
- b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors. New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:
  - 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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.g.(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f.(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010; 03/15/2011; and 05/04/2012.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f.]. Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
Amended 03/15/2011.

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec.K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec. K.5]. 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 [ref. Op. Plan, Sec. K.6]. 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 [ref. SC#D.3.b(3)].

b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
New 03/15/2011.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
Amended 06/24/2009.

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

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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. 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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.



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

(Specific Condition #C.7., cont'd)

c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.

d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

e. The permittee shall operate to temporary stormwater management system in Cells 2-4 of Phase II in accordance with the procedures described in Section K.2.h. of the Operations Plan.  
New 05/04/2012.

**8. Leachate Management.**

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref. SC#A.2.g.(1)], and other applicable Department rules.  
Amended 03/15/2011; 05/04/2012.

b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
Amended 03/15/2011.

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

1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

3) 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.g.(1)].  
Amended 03/15/2011; 05/04/2012.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

- 4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].
- 5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.
- 6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.
- 7) 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.
- 8) Leachate tank inspections.
  - a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.
  - b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.
  - c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.
  - d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year**. Leachate generation reports shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
Amended 03/15/2011.

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

SPECIFIC CONDITIONS: PART C - Operation Requirements

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.g.(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:  
Amended 03/15/2011; 05/04/2012.

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

Amended 03/15/2011.

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. Contaminated Soil. Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. Used Oil. Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements. All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; OR
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, AND
- c) has no evidence of leachate seepage, AND
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].



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

**12. 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 Operations Plan [ref. Op. Plan, Sec. K.2.g.]. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

**b. Initial Waste Placement.**

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

SPECIFIC CONDITIONS: PART D - Recordkeeping

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.g.(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 Operations 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.

Amended 03/15/2011; 05/04/2012.

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

Amended 06/24/2009 and 03/15/2011.

SPECIFIC CONDITIONS: PART D - Recordkeeping

3. **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) annually, by January 15<sup>th</sup> 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.  
Amended 03/15/2011.

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.

4. **Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.  
Amended 03/15/2011.

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, 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 regarding the collection of ground water, surface water, ~~leachate~~, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009, 03/15/2011 and 09/14/2012.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan" prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h.(1)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), as follow:

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

(Specific Condition #E.3., continued)

WACS					
Well #	Testsite ID #	Scheduling Notes	Aquifer	Designation	Location
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
<del>MW-11R</del>	<del>20588</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>See Figure 1</del>
<del>MW-12R</del>	<del>20589</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>↓</del>
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed **at least 30 days prior to initiation of debris disposal in Phase II, Cell 1**

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted **within 30 days of installation** in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted **within 7 days of well installation and development** for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010, 03/15/2011, and 09/14/2012.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.2 and Section 2.3, respectively, of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan," prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h.(1)]. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011 and 09/14/2012.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix II</b>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

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 #62-701.900(30) [attached].  
Amended 04/08/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of Rules 62-701.510(7)(a) and (7)(c), F.A.C.  
Amended 09/14/2012.

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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.  
Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(6)(a) and 62-701.510(6)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(6)(c), F.A.C.  
Amended 04/08/2010 and 09/14/2012.

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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009, 03/15/2011 and 09/14/2012.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), as follow:

Surface Water ID #	WACS Testsite ID #	Location
E2	4519	Old Cow Pen Slough, upstream location
E4R	20060	Old Cow Pen Slough, downstream location
Pond 1	28824	Adjacent to staff gauge STW-1
Pond 2	28825	Adjacent to staff gauge STW-2

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 06/24/2009, 03/15/2011, and 09/14/2012.

c. **Semi-annual** surface water sampling shall be conducted at the locations described in SC#E.8.b., in accordance with Rule 62-701.510(5)(d), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan," prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h.(1)], including:

<u>Field parameters</u>	<u>Laboratory parameters</u>	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens	Magnesium	Chemical oxygen demand (COD)
(by observation)	Mercury	Total organic carbon (TOC)
Surface water	Potassium	Total dissolved solids (TDS)
elevation	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate

Those parameters listed in 40 CFR Part 258, Appendix I

Amended 04/08/2010, 03/15/2011, and 09/14/2012.



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

9. **Leachate Sampling.** In accordance with the amendments to Chapter 62-701, F.A.C., that were effective on August 12, 2012, the collection of leachate samples for laboratory analyses is not required. Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)]+ Amended 03/15/2011.

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (attached), as follow:

Leachate		WACS Testsite
Sample ID #	Landfill Cell	ID #
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the **inorganic parameters only** presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited. Amended 06/24/2009 and 03/15/2011.

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

Field Parameters	Laboratory Parameters	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	

Amended 04/08/2010 and 03/15/2011.

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 256, Appendix II.

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

(Specific Condition #E.9., continued)

~~d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.2.a., for analysis of the parameters listed in Specific Condition #E.2.b. Results of the monthly leachate sampling shall be submitted to the Department 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.~~

Amended 09/14/2012.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, ~~leachate~~, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
Amended 03/15/2011 and 09/14/2012.

a. Required water quality, ~~leachate~~, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, ~~leachate~~, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, ~~leachate~~, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, ~~leachate~~, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(8)(a)1 through 62-701.510(8)(a)10, F.A.C., including:

Amended 09/14/2012.

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
Amended 04/08/2010.
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01);  
and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**

2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

~~4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;~~

~~5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;~~

~~6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted within 30 days from completion of laboratory analyses; and,~~

7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the period July 1 to December 31.

Amended 06/24/2009, 03/15/2011, and 09/14/2012.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009, 03/15/2011, and 09/14/2012.

**Water Quality Monitoring  
Data Evaluation Due Date  
May 18, 2011**

**Starting  
Sampling Event  
First half 2007**

**Ending  
Sampling Event  
Second half 2010**

**September 18, 2013**

**First half 2011**

**Second half 2012**

The evaluations shall include the applicable information as listed in Rule 62-701.510(8)(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(6), 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, FL 33637-0926.  
Amended 09/14/2012.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref.SC#A.2.g.(1)], at the following locations:

<u>Monitoring Point</u>	<u>Scheduling Notes</u>	<u>Location</u>	<u>Location Description</u>
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref.SC#A.2.a.(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009, 03/15/2011, 05/04/2012, and 09/14/2012.

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 F - Landfill Gas Management**

5. Gas Collection and Control System.

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref. SC #A.2.f.(3)] any other applicable requirements.  
Amended 03/15/2011.

b. **Annual** condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] [ref. SC #A.2.d.(3), Sheet C-05] for analysis of the leachate parameters listed in ~~Specific Conditions #E.9.b. and #E.9.c. [ref. SC #A.2.f.(3), Sec 8.2 & ref. SC #A.2.d.(3), Sheet C-05]~~ Section 5.1 of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan" prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h.(1)], including:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	
	<u>Those parameters listed in 40 CFR Part 258, Appendix II</u>	

Amended 03/15/2011 and 09/14/2012.

New 06/24/2009

**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, 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)(h), F.A.C. and all applicable requirements of Department rules.  
Amended 09/14/2012.
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, ~~leachate~~ and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.  
Amended 09/14/2012.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(1), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
Amended 03/15/2011 and 09/14/2012.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Mary E. Yeargan*

Mary E. Yeargan, P.G.  
Southwest District Director

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of sinkholes or subsurface instability  Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment  Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding



ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
<del>E.9.b.</del>	<del>Semi-annually</del>	<del>Conduct leachate sampling</del>
<del>E.9.c.</del>	<del>Annually</del>	<del>Conduct leachate sampling</del>
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of <del>annual leachate sampling events</del> and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application





# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

Transmitted electronically only:  
[LEROSE@scgov.net](mailto:LEROSE@scgov.net)

September 14, 2012

## NOTICE OF PERMIT MODIFICATION

Sarasota County Environmental Services, Solid Waste Operations  
4000 Knights Trail Road  
Nokomis, FL 34275  
Attn: Ms. Lois Rose, Manager

Re: Central County solid Waste Disposal Complex, Class I Landfill  
Modification #130542-019 to permit #130542-007-SO/01  
WACS Facility #51614, Sarasota County

Dear Ms. Rose:

Attached is modified permit #130542-007-SO/01, issued pursuant to Section 403.087(1), Florida Statutes (F.S.), to conduct operate, monitor and maintain the subject facility. The following revisions have been provided in modification #130542-019-SO/MM:

Specific Condition	Type of Modification
Cover page (amended)	Refers to modification #130542-019-SO/MM.
#A.2.f.(2) (amended), and #A.2.h. (new)	Lists materials submitted in support of the applications for permit modification and refers to the revised "Water Quality Monitoring Plan" document.
#A.8. (amended)	Refers to Chapter 62-701, F.A.C., amended August 12, 2012.
#E.1.a., #E.9., #E.10., #E.10.a., #E.10.b., #E.11., and #G.3.b. (amended)	Deletes requirements to collect and analyze leachate samples, and to report the leachate results.
#E.3., #E.4., #E.8.a., #E.8.b., #E.8.c., #F.3., and #F.5.b. (amended)	Refers to the revised "Water Quality Monitoring Plan" document and/or to the new site map that depicts the locations of monitor wells, piezometers, surface water sampling locations, landfill gas probes, and condensate sampling location.
#E.5.c., #E.7., #E.8.c., #E.10.a., #E.11., #G.2., and #G.4.b. (amended)	Lists revised rule citations in Chapter 62-701, F.A.C., amended August 12, 2012.
#E.8.b. (amended)	Lists test site identification numbers for new surface water sampling locations.
#F.5.b. (amended)	Lists analytical parameters for condensate samples.

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

s\_w/sarasota/pmt/130542-019-so.mod.noticeofpermit

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, 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 this modification of permit 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 and address of each agency affected and each agency's file or identification number, if known;
- (b) The name, address, and telephone number of the petitioner; the name, address, and telephone number of the petitioner's representative, if any, which shall be the address for service purposes during the course of the proceeding; and an explanation of how the petitioner's substantial interests will be affected by the agency determination;
- (c) A statement of when and how the petitioner received notice of the agency decision;
- (d) A statement of all disputed issues of material fact. If there are none, the petition must so indicate;
- (e) A concise statement of the ultimate facts alleged, including the specific facts the petitioner contends warrant reversal or modification of the agency's proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the agency's proposed action, including an explanation of how the alleged facts relate to the specific rules or statutes; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action petitioner wishes the agency to take with respect to the agency's proposed action.

PERMITTEE: Sarasota County Solid Waste Operations  
Central County Solid Waste Disposal Complex, Class I Landfill  
Attn: Ms. Lois Rose, Manager

PERMIT #130542-007-SO/01  
MODIFICATION #130542-019  
Page 3 of 4

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



Mary E. Yeargan, P.G.  
Southwest District Director

MEY/jrm

Attachment

PERMITTEE: Sarasota County Solid Waste Operations  
Central County Solid Waste Disposal Complex, Class I Landfill  
Attn: Ms. Lois Rose, Manager

PERMIT #130542-007-SO/01  
MODIFICATION #130542-019  
Page 4 of 4

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this NOTICE OF PERMIT MODIFICATION was mailed to the addressee before the close of business on September 14, 2012.

Other copies were transmitted electronically to the listed persons.

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



Clerk

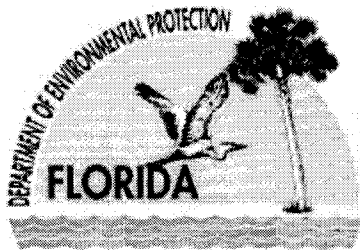
09/14/2012

Date

Copies furnished to:

Sarasota County Board of County Commissioners, Christine Robinson, Chair, [crobinson@scgov.net](mailto:crobinson@scgov.net)  
Sarasota County Notification List  
Gary Bennett, Sarasota County, [gbennett@scgov.net](mailto:gbennett@scgov.net)  
Alison Eggleston, Sarasota County, [aeggles@scgov.net](mailto:aeggles@scgov.net)  
Bradley J. Bayne, P.G., Atkins North America, Inc., [Bradley.Bayne@atkinsglobal.com](mailto:Bradley.Bayne@atkinsglobal.com)  
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Richard Tedder, P.E., FDEP Tallahassee  
Chris McGuire, FDEP OGC Tallahassee  
Solid Waste Financial Coordinator, FDEP Tallahassee, [Solid.Waste.Financial.Coordinator@dep.state.fl.us](mailto:Solid.Waste.Financial.Coordinator@dep.state.fl.us)  
Susan Pelz, P.E., FDEP Southwest District  
Steve Morgan, FDEP Southwest District  
Melissa Madden, FDEP, Southwest District  
Permit Notebook





# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: 130542-007-SO/01  
Date of Issue: 11/18/2008  
Expiration Date: 11/18/2013  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System
4. Temporary Stormwater Management System in Cells 2-4

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010, 130542-015-SO/MM, dated 03/15/2011, 130542-018-SO/MM, dated 05/04/2012, and 130542-019-SO/MM, dated 09/14/2012.

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

GENERAL CONDITIONS:

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

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

GENERAL CONDITIONS:

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

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

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

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

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

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

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

13. This permit also constitutes:

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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]. Amended 03/15/2011.

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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above; replaced by Op. Plan referenced in SC #A.2.g.1. below]; Amended 05/04/2012.

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above; replaced by Water Quality Monitoring Plan referenced in SC #A.2.h.(1). below]; Amended 09/14/2012.

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above; and included in Op. Plan referenced in SC #A.2.g.1. below]. Amended 05/04/2012.

New 03/15/2011.

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

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

g. Application for Construction/Minor Modification to Class I Operation Permit - Central County Solid Waste Disposal Complex (CCSWDC)... (one 3-ring binder and plan set) dated January 19, 2012 (received January 23, 2012), as revised, replaced or amended (replacement pages inserted into original\*) dated March 2, 2012 (received March 5, 2012), prepared by SCS Engineers. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.f.(1), above];

2) Plan Set titled, Sarasota County Central County Solid Waste Disposal Complex Stormwater Management System Improvements (7 Sheets) dated February 2012 (received March 5, 2012).

New 05/04/2012.

h. Application for a Minor Permit Modification, Sarasota County Central County Solid Waste Disposal Complex, dated June 15, 2012 (received June 18, 2012), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above), and received via e-mail August 2, 2012. This information includes, but is not limited to:

1) Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan, prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised Section 3.1 received August 2, 2012 [replaces Water Quality Monitoring Plan, Central County solid Waste Disposal Complex referenced in SC #A.2.f.(2), above].

New 09/14/2012.

\* see OCULUS for uncollated submittals

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

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

(Specific Condition #A.3., cont'd)

c. This permit does not authorize the **operation** of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.
- 2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,
- 3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.
- 4) Construction of the stormwater management system,
- 5) Financial assurance requirements of Specific Condition #D.4.b.,

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

e. This permit authorizes the **operation** of the temporary stormwater management system in Cells 2-4 of Phase II upon completion of the following requirements and submittal by the Permittee to and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.a. of Construction Permit No. 130542-017-SC/08 or its successors.

New 05/04/2012.

f. Upon completion of construction and approval by the Department of the temporary stormwater management system in Cells 2-4 in accordance with Specific Condition A.3.e. above, this permit does not authorize the **operation** of the Phase II, Cells 2-4 portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.b. of Construction Permit No. 130542-017-SC/08 or its successors, for the removal of the temporary stormwater management system and restoration of the leachate collection system for each cell in Cell 2-4 of Phase II.

New 05/04/2012.

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.  
Amended 03/15/2011.



**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 August 12, 2012, 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.

Amended 04/08/2010 and 09/14/2012.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. 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.6.b., below.

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

**1. Construction.**

- a. All significant construction activities shall be approved by the Department prior to initiating work, unless specifically authorized otherwise.
- b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors. New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

- 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.

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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.g.(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f.(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010; 03/15/2011; and 05/04/2012.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f.]. Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
Amended 03/15/2011.

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec.K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec.K.5]. 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 [ref. Op. Plan, Sec.K.6]. 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 [ref.SC#D.3.b(3)].

b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
New 03/15/2011.

**6. Facility Maintenance and Repair.**

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

Amended 06/24/2009.

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

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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

- 1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or
- 2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. 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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.

d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

e. The permittee shall operate to temporary stormwater management system in Cells 2-4 of Phase II in accordance with the procedures described in Section K.2.h. of the Operations Plan.  
New 05/04/2012.

**8. Leachate Management.**

a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref. SC#A.2.g.(1)], and other applicable Department rules.  
Amended 03/15/2011; 05/04/2012.

b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
Amended 03/15/2011.

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

1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.6.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

3) 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.g.(1)].  
Amended 03/15/2011; 05/04/2012.



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

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

4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].

5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.

6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

7) 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.

8) Leachate tank inspections.

a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.

b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.

c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.

d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year**. Leachate generation reports shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
Amended 03/15/2011.

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.g.(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:  
Amended 03/15/2011; 05/04/2012.

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

Amended 03/15/2011.

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. Contaminated Soil. Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. Used Oil. Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

- 1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.
- 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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements. All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].

SPECIFIC CONDITIONS: PART C - Operation Requirements

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; OR
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, AND
- c) has no evidence of leachate seepage, AND
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 Operations Plan [ref. Op. Plan, Sec. K.2.g.]. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

**b. Initial Waste Placement.**

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.



**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.g.(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 Operations 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.

Amended 03/15/2011; 05/04/2012.

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

Amended 06/24/2009 and 03/15/2011.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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) annually, by January 15<sup>th</sup> 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.  
Amended 03/15/2011.

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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.  
Amended 03/15/2011.

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, 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 regarding the collection of ground water, surface water, ~~leachate~~, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009, 03/15/2011 and 09/14/2012.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan" prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h.(1)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), as follow:

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

(Specific Condition #E.3., continued)

WACS					
Well #	Testsite ID #	Scheduling Notes	Aquifer	Designation	Location
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
<del>MW-11R</del>	<del>20588</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>See Figure 1</del>
<del>MW-12R</del>	<del>20589</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>↓</del>
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed **at least 30 days prior to initiation of debris disposal in Phase II, Cell 1**

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted **within 30 days of installation** in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted **within 7 days of well installation and development** for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010, 03/15/2011, and 09/14/2012.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.2 and Section 2.3, respectively, of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan," prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref.SC#A.2.h.(1)]. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011 and 09/14/2012.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
	Bicarbonate	Iron
Specific conductivity	Carbonate	Magnesium
pH	Chlorides	Mercury
Dissolved oxygen	Nitrate	Potassium
Temperature	Sulfate	Sodium
Turbidity	Total dissolved solids (TDS)	
Colors & sheen (by obs.)	Those parameters listed in 40 CFR Part 258, <b>Appendix II</b>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
	Bicarbonate	Iron
Specific conductivity	Carbonate	Magnesium
pH	Chlorides	Mercury
Dissolved oxygen	Nitrate	Potassium
Temperature	Sulfate	Sodium
Turbidity	Total dissolved solids (TDS)	
Colors & sheen (by obs.)	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

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 #62-701.900(30) **[attached]**.  
Amended 04/08/2010.

c. **Within one week of well completion and development**, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of Rules 62-701.510(7)(a) and (7)(c), F.A.C.  
Amended 09/14/2012.

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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.  
Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(6)(a) and 62-701.510(6)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(6)(c), F.A.C.  
Amended 04/08/2010 and 09/14/2012.

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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009, 03/15/2011 and 09/14/2012.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), as follow:

Surface Water ID #	WACS Testsite ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location
Pond 1	28824	Adjacent to staff gauge STW-1
Pond 2	28825	Adjacent to staff gauge STW-2

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 06/24/2009, 03/15/2011, and 09/14/2012.

c. **Semi-annual** surface water sampling shall be conducted at the locations described in SC#E.8.b., in accordance with Rule 62-701.510(5)(d), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan," prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref.SC#A.2.h.(1)], including:

Field parameters	Laboratory parameters
Specific conductivity	Chlorophyll A
pH	Nitrate
Dissolved oxygen	Total hardness (as mg/L of CaCO <sub>3</sub> )
Turbidity	Total phosphorus
Temperature	Calcium
Colors and sheens	Iron
(by observation)	Magnesium
Surface water	Mercury
elevation	Potassium
	Sodium
	Sulfate
	Bicarbonate
	Carbonate

Those parameters listed in 40 CFR Part 258, **Appendix I**

Amended 04/08/2010, 03/15/2011, and 09/14/2012.

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

9. **Leachate Sampling.** In accordance with the amendments to Chapter 62-701, F.A.C., that were effective on August 12, 2012, the collection of leachate samples for laboratory analyses is not required. Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)]:

~~Amended 03/15/2011.~~

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (~~attached~~), as follow:

<del>Leachate</del>		<del>WAGE Testsite</del>
<del>Sample ID #</del>	<del>Landfill Cell</del>	<del>ID #</del>
<del>C-1</del>	<del>Phase I, Cell #1</del>	<del>20580</del>
<del>C-2</del>	<del>Phase I, Cell #2</del>	<del>20581</del>
<del>C-3</del>	<del>Phase I, Cell #3</del>	<del>20582</del>
<del>C-4</del>	<del>Phase I, Cell #4</del>	<del>20583</del>
<del>C-5</del>	<del>Phase I, Cell #5</del>	<del>20584</del>
<del>P2-1</del>	<del>Phase II, Cells #1-#4</del>	<del>23037</del>

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the ~~inorganic parameters~~ **only** presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.

~~Amended 06/24/2009 and 03/15/2011.~~

b. ~~Semi-annual~~ leachate sampling shall be conducted for analysis of the following parameters:

<del>Field Parameters</del>	<del>Laboratory Parameters</del>	
<del>Specific conductivity</del>	<del>Total ammonia - N</del>	<del>Calcium</del>
<del>pH</del>	<del>Total alkalinity (as mg/L CaCO<sub>3</sub>)</del>	<del>Iron</del>
<del>Dissolved oxygen</del>	<del>Carbonate</del>	<del>Magnesium</del>
<del>Colors &amp; sheens</del>	<del>Chlorides</del>	<del>Mercury</del>
<del>(by observation)</del>	<del>Nitrate</del>	<del>Potassium</del>
	<del>Sulfate</del>	<del>Sodium</del>
	<del>Total dissolved solids (TDS)</del>	
	<del>Biochemical oxygen demand (BOD<sub>5</sub>)</del>	
	<del>Chemical oxygen demand (COD)</del>	

~~Amended 04/08/2010 and 03/15/2011.~~

c. ~~Annual~~ leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.



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

(Specific Condition #E.9., continued)

~~d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.~~

Amended 09/14/2012.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
Amended 03/15/2011 and 09/14/2012.

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(8)(a)1 through 62-701.510(8)(a)10, F.A.C., including:  
Amended 09/14/2012.

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
Amended 04/08/2010.
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01);  
and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**

2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

~~4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;~~

~~5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;~~

~~6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted within 30 days from completion of laboratory analyses; and,~~

7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the period July 1 to December 31.

Amended 06/24/2009, 03/15/2011, and 09/14/2012.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009, 03/15/2011, and 09/14/2012.

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 18, 2011	First half 2007	Second half 2010
September 18, 2013	First half 2011	Second half 2012

The evaluations shall include the applicable information as listed in Rule 62-701.510(8)(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(6), 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, FL 33637-0926.

Amended 09/14/2012.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by Atkins, received August 2, 2012 (**attached**), 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref. SC#A.2.g.(1)], at the following locations:

<u>Monitoring Point</u>	<u>Scheduling Notes</u>	<u>Location</u>	<u>Location Description</u>
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a.(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009, 03/15/2011, 05/04/2012, and 09/14/2012.

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 F - Landfill Gas Management**

5. Gas Collection and Control System.  
a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref. SC #A.2.f(3)] any other applicable requirements.  
Amended 03/15/2011.

b. **Annual** condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] [ref. SC #A.2.d(3), Sheet C-05] for analysis of the ~~leachate~~ parameters listed in ~~Specific Conditions #E.9.b. and #E.9.c. [ref. SC #A.2.f(3), Sec 8.2 & ref. SC #A.2.d(3), Sheet C-05]~~ Section 5.1 of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan" prepared by Sarasota County Solid Waste Operations, dated June 15, 2012, revised August 2, 2012 [ref. SC#A.2.h(1)], including:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	
	<u>Those parameters listed in 40 CFR Part 258, Appendix II</u>	

Amended 03/15/2011 and 09/14/2012.  
New 06/24/2009

**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, 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)(h), F.A.C. and all applicable requirements of Department rules.  
Amended 09/14/2012.
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality-~~leachate~~ and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.  
Amended 09/14/2012.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(1), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
Amended 03/15/2011 and 09/14/2012.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

*Mary E. Yeargan*

Mary E. Yeargan, P.G.  
Southwest District Director

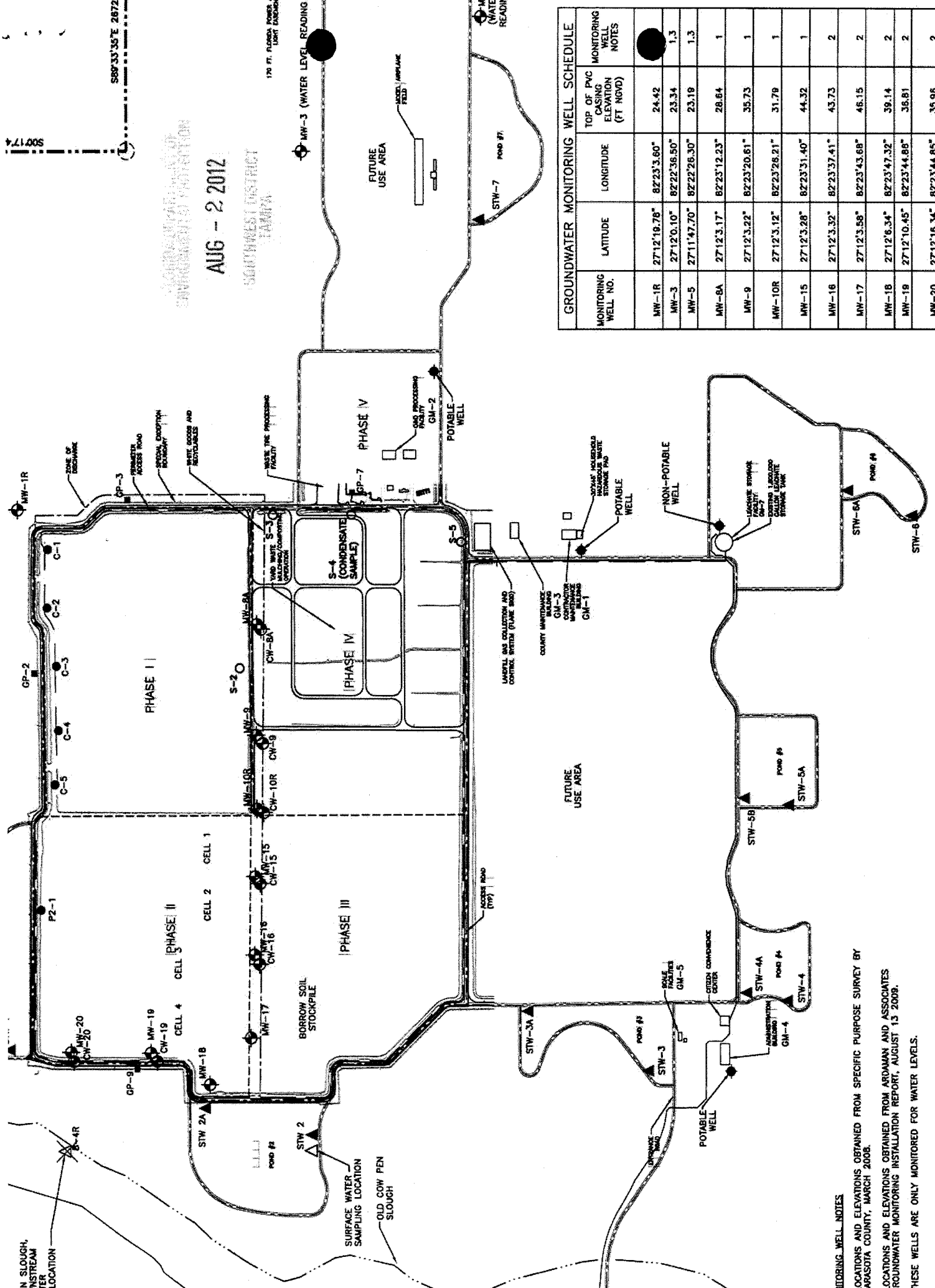
ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
<del>E.9.b.</del>	<del>Semi-annually</del>	<del>Conduct leachate sampling</del>
<del>E.9.c.</del>	<del>Annually</del>	<del>Conduct leachate sampling</del>
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application





GROUNDWATER MONITORING WELL SCHEDULE			
MONITORING WELL NO.	LATITUDE	LONGITUDE	TOP OF PVC CASING ELEVATION (FT NGVD)
MW-1R	27°12'18.78"	82°23'3.80"	24.42
MW-3	27°12'0.10"	82°22'36.50"	23.34
MW-5	27°11'47.70"	82°22'26.30"	23.19
MW-8A	27°12'3.17"	82°23'12.23"	28.84
MW-9	27°12'3.22"	82°23'20.61"	35.73
MW-10R	27°12'3.12"	82°23'28.21"	31.79
MW-15	27°12'3.28"	82°23'31.40"	44.32
MW-16	27°12'3.32"	82°23'37.41"	43.73
MW-17	27°12'3.58"	82°23'43.68"	46.15
MW-18	27°12'6.34"	82°23'47.32"	39.14
MW-19	27°12'10.45"	82°23'44.86"	36.81
MW-20	27°12'16.34"	82°23'44.85"	35.96



# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

Permitting Application - Permit Detail and Log Permit

### SITE Permit

Site Name **SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)** Site # **0130542**  
 County **SARASOTA** Comments ☐ RPA's ☐ # Cases **0**

### Project

Permit # **0130542** - **019** - **SO** Project # **019** Received **06/18/2012** CRA # **388764**  
 Permit Office **SWD (DISTRICT)** Agency Action **Issued**  
 Project Name **SARASOT CENTRAL OPS MOD** Desc **mod to #130542-007-SO/01; surface water monitoring changes**  
 Type/Sub/Des **SO** / **MM** **MINOR MODIFICATION** WACS/ME ID **51814** Pre-App ☐  
 Logged **06/19/2012** Issued **09/14/2012** Expires **11/18/2013** Application Action **MODIFICATION**  
 Fee **250.00** Fee Recd **250.00** Delc ☐ COE # ☐ Override **NONE**

### Related Party

Role **APPLICANT** Begin **06/19/2012** End   
 Name **ROSE, LOISE** Company **SARASOTA CO BD OF CO COMM**  
 Address **4000 KNIGHTS TRAIL ROAD**  
 City **NOKOMIS** State **FL** Zip **34275** -  Country **U.S.A.**  
 Phone **941-861-1589** Fax **941-486-2620** Email **lerose@scgov.net**

### Processors

Processor **MORRIS JR** ☒ Active **06/19/2012** Inactive ☐ Events

Permitting Application - Events

### Events Scheduled

3 of 90

Site # **0130542** Site Name **SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)**  
 Permit # **0130542-019-SO** Type/Subtype **SO** / **MM** Received **06/18/2012**  
 Project # **019** Project Name **SARASOT CENTRAL OPS MOD**

> ISSUE PERMIT: Issued

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	06/18/2012	1	06/19/2012		Done	06/18/2012
Fee Verification	06/18/2012	2	06/20/2012		Sufficient Fee	06/19/2012
Completeness Review	06/18/2012	30	07/18/2012		Complete	07/17/2012
Determine Agency Action	06/18/2012	90	09/16/2012		Issue	09/14/2012
Issue Final Permit	09/14/2012	14	09/28/2012		Issued	09/14/2012
STOP CLOCK	09/14/2012	1	09/15/2012		Done	09/14/2012
ISSUE PERMIT	09/14/2012	1	09/15/2012		Issued	09/14/2012



Florida Department of Environmental Protection - Enterprise Applications

Query Coll Rpts Rfnd Exit CRA Window

ORACLE

Cash Receiving Application - Collection Point Log Remittance

CL AREA **SWD** Logged Total **CRAF006A** \$1,250.00

**Collection Point Log Remittance**

Remittance ID **967967** Type \* **CP** Received Date \* **01/23/2012** Status **RECEIVED**  
 System Receipt **768712** PNR  Check # \* **1703** Amount \* **1,250.00**  
 SSN/FEID  Name \* **STEARNS CONRAD AND SCHMIDT**  
 First  Middle  Title  Suffix   
 Address1 **4041 PARK OAKS BLVS, SUITE 100**  
 Address2   
 City **TAMPA** ST **FL** Zip **33610** **9501**  
 Country  Short Comments **SO 130542-017 & 018**

**PAYMENT(S)**

Payment ID	CL Area	Code/Description	Payment Amount	Reference#	Appl	Fund *	Grant *	Status
1131665	SWD	002245 SOLID WASTE-CON	250.00	130542-017	PA	PFTF		COMPLETE
1131665	SWD	002245 SOLID WASTE-OPE	250.00	130542-018	PA	PFTF		COMPLETE

COMMIT FREQUENTLY **1,250.00** Payment Total

Press <TAB> to accept Collection Point or enter F&A

start

Florida Department of Environmental Protection - Enterprise Applications

Permits Events Payment FIESTA PA Data Entry Site Facility Permitted EU ME Party Affiliation Lct

ORACLE

Permitting Application - Permit Detail and Log Permit

**SITE Permit**

Site Name **SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)** Site # **0130542**  
 County **SARASOTA** Comments **N** RPAs **N** # Cases **0**

**Project**

Permit #  -  -  Project # **018** Received **01/23/2012** CRA # **381247**  
 Permit Office **SWD** Agency Action **Pending**  
 Project Name **SARASOTA CCSWDC CCI OP MOD** Desc   
 Type/Sub/Des **SO** / **MM** **MINOR MODIFICATION** WACS/ME ID **51614** Pre-App **I**  
 Logged **01/24/2012** Issued  Expires  Application Action **MODIFICATION**  
 Fee **250.00** Fee Recd **250.00** Delc  COE #  Override **NONE**

**Related Party**

Role **APPLICANT** Begin **01/24/2012** End   
 Name **ROSE, LOIS E** Company **SARASOTA CO BD OF CO COMM**  
 Address **4000 KNIGHTS TRAIL ROAD**  
 City **NOKOMIS** State **FL** Zip **34275** -  Country **U.S.A.**  
 Phone **941-861-1589** Fax **941-486-2620** Email **lerose@scgov.net**

**Processors**

Processor **MORGAN S** **Y** Active **01/24/2012** Inactive  **Events**

Enter date application was received MM/DD/YYYY

start



CL AREA **SWD** CRAF006A  
Logged Total **\$3,050.00**

**Collection Point Log Remittance**

Remittance ID **895993** Type **CP** Received Date **08/24/2010** Status **RECEIVED**

System Receipt **713463** PNR  Check # **1019638** Amount **250.00**

SSN/FEID  Name **HDR ENGINEERING**

First  Middle  Title  Suffix

Address1 **8404 INDIAN HILLS DRIVE**

Address2

City **OMAHA** ST **NE** Zip **68114 4040**

Country  Short Comments **SO 130542-015**

**PAYMENT(S)**

Payment ID	CL Area	Code/Description	Payment Amount	Reference#	Appl	Fund*	Grant*	Status
<b>1072205</b>	<b>SWD</b>	<b>802-06 SOLID WASTE-OPF</b>	<b>250.00</b>		<b>PA</b>	<b>FFJF</b>		<b>COMPLETE</b>

COMMIT FREQUENTLY

**250.00** Payment Total

Press <TAB> to accept Collection Point or enter F&A

**SITE Permit**

Site Name **SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF1** Site # **0130542**

County **SARASOTA** Comments **N** RPAs **N** # Cases **0**

**Project**

Permit#  Project# **015** Received **07/02/2010** CRA# **365374**

Permit Office **SWD (DISTRICT)** Agency Action **Pending**

Project Name **CCSWDC CL I 62-701 UPDATE MOD** Desc **no fee modification**

Type/Sub/Des **SO MM MINOR MODIFICATION** WACS/ME ID **51614** OGC

Logged **07/07/2010** Issued  Expires  Application Action **MODIFICATION**

Fee **250.00** Fee Recd **250.00** Delc  COE #  Override **NONE**

**Related Party**

Role **APPLICANT** Begin **07/07/2010** End

Name **ROSE, LOIS** Company **SARASOTA COUNTY SOLID WASTE OPERATIONS**

Address **3000 KNIGHTS TRAIL RD**

City **MOROMIS** State **FL** Zip **34275** Country

Phone **941-861-1500** Fax **941-460-2620** Email **lerose@scgov.net**

**Processors**

Processor **MORGAN S** Y Active **07/07/2010** Inactive  Events

Press [LIST] for valid Roles for a Party

Permitting Application - Permit Detail and Log Permit									
<b>SITE Permit</b>									
Site Name <b>SARASOTA CO CENTRAL COUNTY COMPLEX CLASS I LF (LF1)</b>						Site # <b>0130542</b>			
County <b>SARASOTA</b>		Comments <b>N</b>		RPAs <b>N</b>		# Cases <b>0</b>			
<b>Project</b>									
Permit # <b></b>		Project # <b>015</b>		Received <b>07/02/2010</b>		CRA # <b></b>			
Permit Office <b>SWD (DISTRICT)</b>				Agency Action <b>Pending</b>					
Project Name <b>CCSWDC CL I 62-701 UPDATE MOD</b>				Desc <b>no-fee modification</b>					
Type/Sub/Des <b>S0 / MM</b>		<b>MINOR MODIFICATION</b>				WACSME ID <b>51614</b>		OGC <b></b>	
Logged <b>07/07/2010</b>		Issued <b></b>		Expires <b></b>		Application Action <b>MODIFICATION</b>			
Fee <b>0.00</b>		Fee Recd <b></b>		Dele <b></b>		COE # <b></b>		Override <b>CORRECTION</b>	
<b>Related Party</b>									
Role <b>APPLICANT</b>		Begin <b>07/07/2010</b>		End <b></b>					
Name <b>ROSE, LOIS</b>		Company <b>SARASOTA COUNTY SOLID WASTE OPERATIONS</b>							
Address <b>4000 KNIGHTS TRAIL RD</b>									
City <b>NOKOMIS</b>		State <b>FL</b>		Zip <b>34275</b>		Country <b></b>			
Phone <b>941-861-1589</b>		Fax <b>941-486-2620</b>		Email <b>lerose@scgov.net</b>					
<b>Processors</b>									
Processor <b>MORGAN S</b>		<b>Y</b>		Active <b>07/07/2010</b>		Inactive <b></b>		Events <b></b>	



# Memorandum

# Florida Department of Environmental Protection

## PERMIT COVER MEMO

TO: Mary Yeargan, Southwest District Director, MEY

FROM/THROUGH:

[Signature] Susan Pelz, Waste Program Administrator  
JRM John Morris, Professional Geologist

DATE: September 13, 2012

FILE NAME: Sarasota Central Class I Landfill, operations permit modification

PERMIT No.: 130542-019-SO/MM PROGRAM: Solid Waste COUNTY: Polk

TYPE OF PERMIT ACTION: **ISSUE FINAL PERMIT**

PUBLIC NOTICE PERIOD CLOSED? N/A PETITION FILED? N/A

**PERMIT SUMMARY:** Minor modification #130542-019 to permit #130542-007-SO/01 was requested by Sarasota County Solid Waste Operations to authorize revisions to the approved monitoring plan regarding surface water monitoring locations. Upstream and downstream sampling locations had been established in Old Cow Pen Slough as appropriate points to characterize potential impacts to surface water quality. The seasonal nature of flow in Old Cow Pen Slough in proximity to the facility has limited the ability to collect the semi-annual surface water samples required by Specific Condition #E.8., of the referenced permit. The application for permit modification included a "Justification Letter" that summarized the times when surface water samples could not be collected at the facility during the sampling events conducted during the period from 2005 through 2011. In addition to the inability to collect a surface water sample during dry season conditions, the County was also concerned that the collection of surface water samples from isolated pools of water in Cow Pen Slough was not representative of flowing conditions in the surface water body.

Additionally, since waste disposal has been initiated in the Phase II cells, the current downstream sampling location [#B-4R] is not adequate to characterize discharges from the on-site stormwater management system. Pond #2 in the stormwater management system receives runoff primarily from the Phase II cells, and the outfall from Pond #2 is located downstream from location #B-4R.

The County has proposed alternate sampling locations in the two ponds in the existing stormwater management system [Pond #1 and Pond #2] to better characterize surface water quality that discharges from the facility. As these ponds only receive runoff from locations within the facility, they represent conservative locations to characterize potential impacts to the receiving waters in Old Cow Pen Slough.

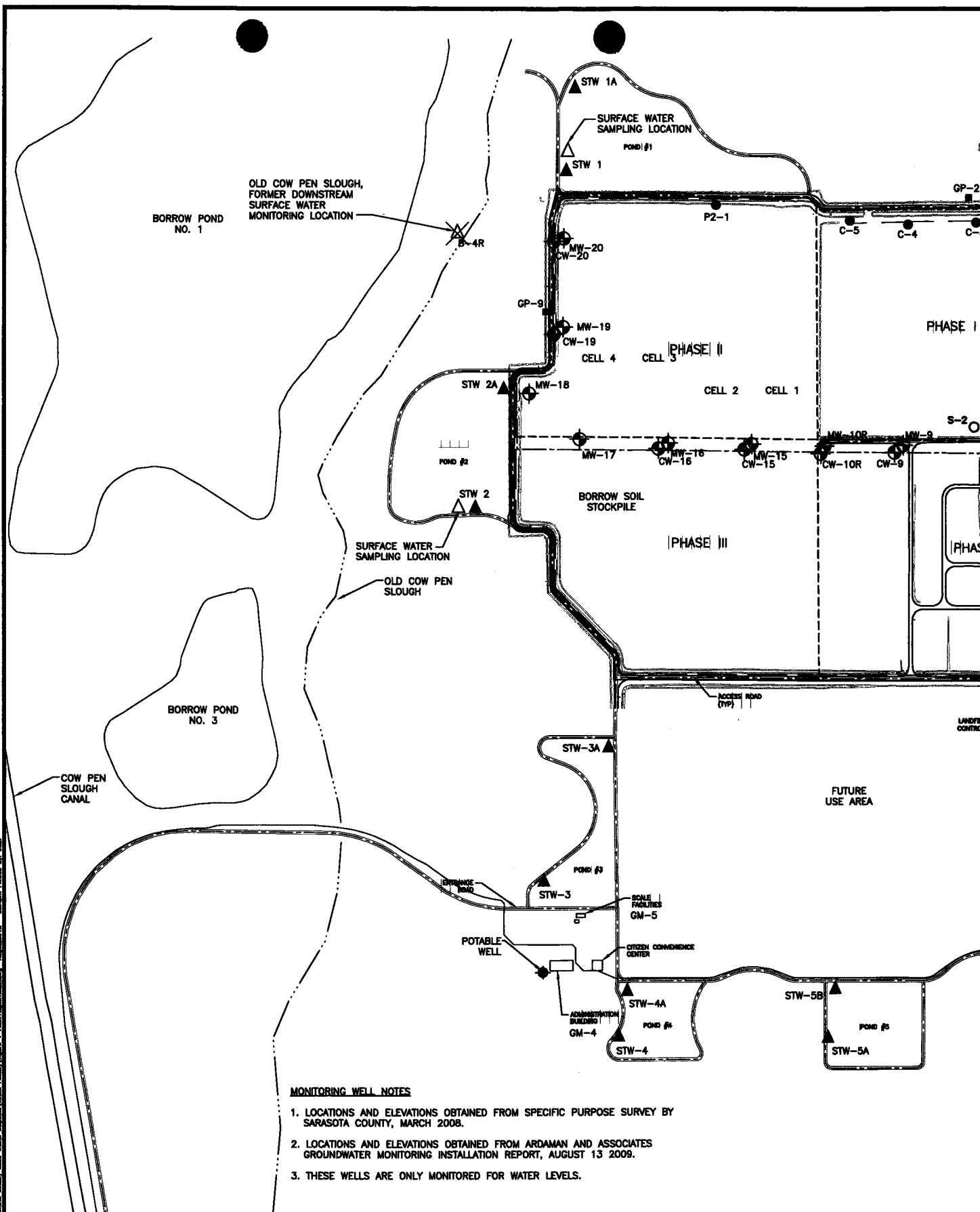
As of September 13, 2012: TIH – 87 days; TTP – 87 days

	Date	TTP
Supporting information for minor permit modification rec'd	6-18-12	
Comments e-mail sent to applicant/ consultant	7-18-12	30
Application for permit modification deemed complete	7-18-12	
Supplemental information rec'd	8-2-12	
Amended permit routed for signature	9-13-12	57

PROFESSIONAL RECOMMENDATION: X Approve      Deny

**EVALUATION SUMMARY:** Supplemental information was submitted to address the Department's review comments regarding the designation of the sampling points in Pond #1 and Pond #2 as downgradient locations and the submittal of a revised site plan showing the existing and proposed monitoring locations for use as a permit attachment. The amended permit deleted the requirement to collect, analyze and report leachate samples in accordance with the revisions to Chapter 62-701, F.A.C., that were effective on August 12, 2012.

Day 90 is September 16, 2012.



# ATKINS

482 SOUTH KELLER ROAD  
Orlando, FL 32810-6101  
TEL. (407) 647-7275  
FAX. (407) 647-0624  
www.atkinsglobal.com

5300 W. BOY SCOUT BOULEVARD  
TAMPA, FLORIDA 33607  
FBPR CERTIFICATE OF AUTHORIZATION NO.24

CLIENT

**SARASOTA COUNTY**

PROJECT

**CENTRAL COUNTY SOLID  
DISPOSAL COMPLEX  
CLASS I LANDFILL**

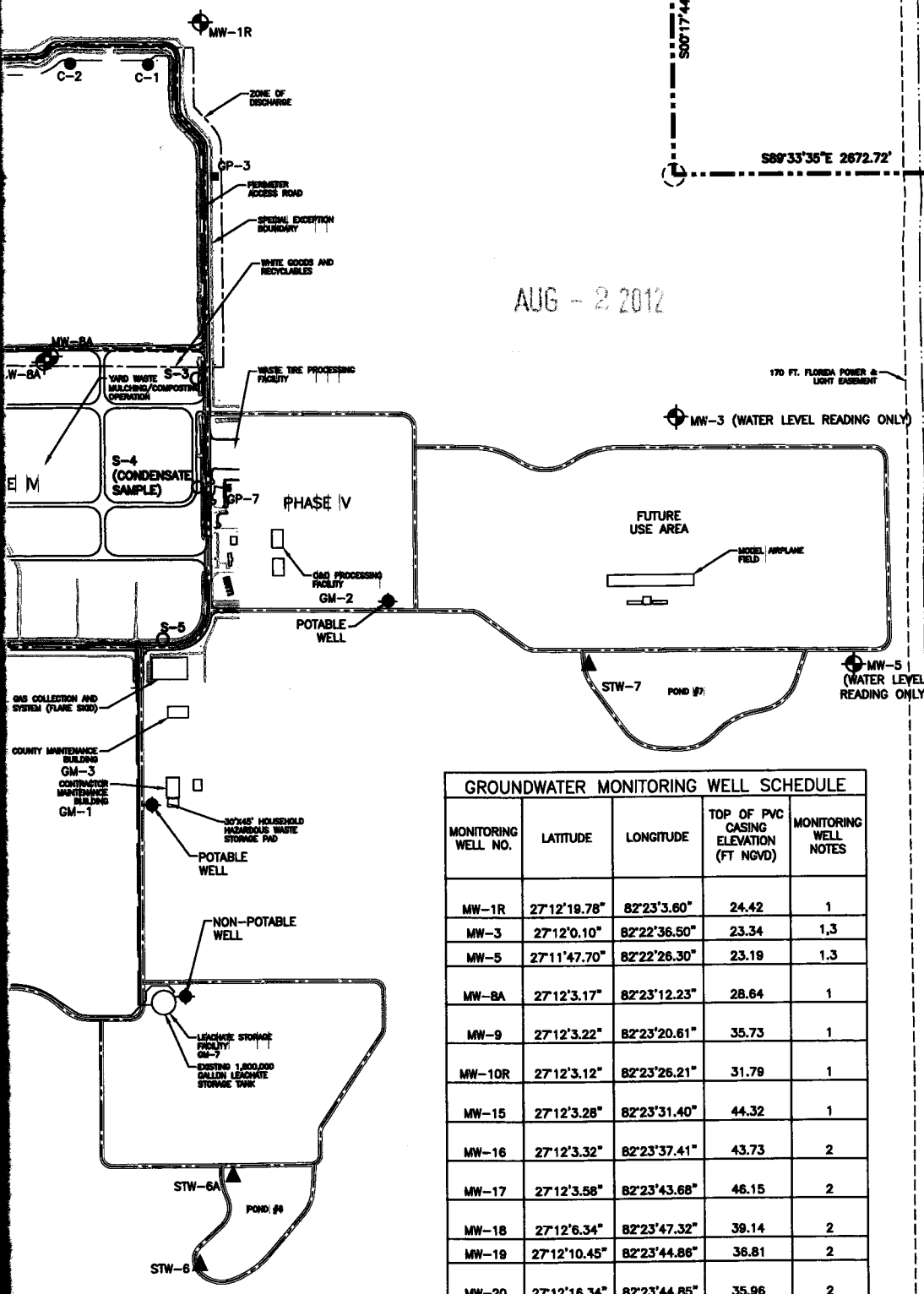
B-2  
OLD COW PEN SLOUGH,  
FORMER UPSTREAM  
SURFACE WATER  
MONITORING LOCATION



# SITE PLAN NOTES

1. LOCATIONS OF EXISTING PIEZOMETERS, MONITORING WELLS AND STAFF GAUGES OBTAINED FROM SPECIFIC PURPOSE SURVEY BY SARASOTA COUNTY, MARCH 2008.
2. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & McKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
3. APPROXIMATE LOCATION OF LEACHATE FORCEMAIN TO OFFSITE WWTP OBTAINED FROM CONFORMED DRAWINGS BY PBS&J DATED JULY 2005. VERIFY LOCATION IN FIELD.
4. LOCATION OF CONDENSATE SUMPS OBTAINED FROM PHASE I LFCCS AS-BUILT DRAWINGS DATED AUGUST 2010.

AUG - 2 2012



GROUNDWATER MONITORING WELL SCHEDULE				
MONITORING WELL NO.	LATITUDE	LONGITUDE	TOP OF PVC CASING ELEVATION (FT NGVD)	MONITORING WELL NOTES
MW-1R	27°12'18.78"	82°23'3.60"	24.42	1
MW-3	27°12'0.10"	82°22'36.50"	23.34	1,3
MW-5	27°11'47.70"	82°22'26.30"	23.19	1,3
MW-BA	27°12'3.17"	82°23'12.23"	28.64	1
MW-9	27°12'3.22"	82°23'20.61"	35.73	1
MW-10R	27°12'3.12"	82°23'26.21"	31.79	1
MW-15	27°12'3.28"	82°23'31.40"	44.32	1
MW-16	27°12'3.32"	82°23'37.41"	43.73	2
MW-17	27°12'3.58"	82°23'43.68"	46.15	2
MW-18	27°12'6.34"	82°23'47.32"	39.14	2
MW-19	27°12'10.45"	82°23'44.86"	36.81	2
MW-20	27°12'16.34"	82°23'44.85"	35.96	2

## LEGEND

- S-2 LANDFILL GAS CONDENSATE SUMP
- GP-1 GAS PROBE
- ⊕ MW-10R GROUNDWATER MONITORING WELL
- ⊕ GM-1 GAS MONITORING LOCATION
- ⊕ WATER SUPPLY WELL
- ⊕ P-S-1 PHASE II BORING/PIEZOMETER LOCATION
- ▲ STW-1 STORMWATER MONITORING STATION
- C-1 LEACHATE MONITORING LOCATION
- △ POND 1 SURFACE WATER MONITORING LOCATION

- ZONE OF DISCHARGE
- WATERWAY
- LIMITS OF EASEMENT
- EASEMENT CENTERLINE
- EXISTING ROADWAY
- PHASE BOUNDARY
- PROPERTY BOUNDARY

PERMIT ATTACHMENT  
ORIGINAL

FIGURE 1

TASK

WASTE WATER QUALITY MONITORING PLAN

ORIGINAL 8/01/2012

REVISIONS:

- 1.
- 2.
- 3.
- 4.
- 5.

6.

7.

8.

9.

10.

11.

12.

Name:

Florida P.E. No.:

Address: ATKINS

482 S. Keller Road

Orlando, FL 32810-6101

Signature

Date

JOB NO. 00-000.00

DRAWN **GG**

DESIGN **RS**

CHECKED

Q.C.

SHEET 1/1



# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

**Morris, John R.**

**From:** Bayne, Bradley J [Bradley.Bayne@atkinsglobal.com]  
**Sent:** Thursday, August 02, 2012 3:53 PM  
**To:** Morris, John R.  
**Cc:** Pelz, Susan; Alison Eggleston; Lois Rose (LEROSE@scgov.net)  
**Subject:** RE: Central County Solid Waste Disposal Complex, Sarasota County, pending modification #130542-019-SO/MM [WACS facility #51614]  
**Attachments:** Revised\_pg7\_WQMP.pdf; CCSWDC\_Figure1\_rv2\_8-2-12.pdf

John,

Attached are the requested revisions/changes to Page 7 of the Water Quality Monitoring Plan and to the Figure (Figure 1). The figure may not look that great on the PC screen but it prints out fine.

Thanks,

**Brad Bayne, PG**

Atkins-Tampa  
813-281-8377

**From:** Morris, John R. [mailto:John.R.Morris@dep.state.fl.us]  
**Sent:** Friday, July 20, 2012 9:35 AM  
**To:** Bayne, Bradley J  
**Cc:** Pelz, Susan; Alison Eggleston; Lois Rose (LEROSE@scgov.net)  
**Subject:** RE: Central County Solid Waste Disposal Complex, Sarasota County, pending modification #130542-019-SO/MM [WACS facility #51614]

Brad:

Good morning. When attachments to the permit are prepared as an Adobe file it is easier to view the pages if they are all the same size. That's the reason for requesting an 8.5x11-sized site map if possible. I checked with Anna and she can work with a figure up to 11x17 inches.

I agree with your comment regarding the legibility of the monitoring location "dots" and identification numbers. To simplify the site map, could the topography information that is presented on the HDR drawing could be "turned off?" That would make the figure much less busy and allow the sampling locations and associated labels to stand out more. Similarly, preparing the site map without using an aerial photograph in the background generally makes it more legible for the purposes of preparing a permit attachment. We do not need to duplicate the same level of detail on this figure as presented in the Site Plans, but provide enough information so someone could locate the monitoring points around the disposal areas.

Thanks.

John

\*\*\*\*\*

John R. Morris, P.G.  
FDEP SW District Office, Solid Waste Section  
13051 N. Telecom Pkwy.  
Temple Terrace, FL 33637-0926.

Telephone: 813-632-7600, ext. 336  
E-mail: [john.r.morris@dep.state.fl.us](mailto:john.r.morris@dep.state.fl.us)

Inserted Into
<b>OCULUS</b>
Date: <u>9/13/12</u>
Initials: <u>JRM</u>

**From:** Bayne, Bradley J [mailto:Bradley.Bayne@atkinsglobal.com]  
**Sent:** Friday, July 20, 2012 8:00 AM  
**To:** Morris, John R.; LEROSE@scgov.net

**Cc:** Pelz, Susan; Alison Eggleston

**Subject:** RE: Central County Solid Waste Disposal Complex, Sarasota County, pending modification #130542-019-SO/MM [WACS facility #51614]

John,

I think we will be able to modify the figure you attached (originally done by HDR) by scanning it into Autocad. However, due to the site layout/configuration and density of site features (especially all the closely spaced MWs and CWs), I do not think that we can create a readable/legible 8 X 11 figure. Will a modified version of the HDR 11X17 black-and-white Figure 1 suffice?

Thanks,

**Brad Bayne, PG**

Atkins-Tampa  
813-281-8377

**From:** Morris, John R. [mailto:John.R.Morris@dep.state.fl.us]

**Sent:** Wednesday, July 18, 2012 7:42 AM

**To:** LEROSE@scgov.net; Bayne, Bradley J

**Cc:** Pelz, Susan

**Subject:** Central County Solid Waste Disposal Complex, Sarasota County, pending modification #130542-019-SO/MM [WACS facility #51614]

Lois and Brad:

Good morning. I've completed my review of the application for minor modification of the operations permit for the Sarasota Central facility that was received June 18, 2012. The following comments summarize my understanding of the rationale used in the development of this application:

1. The "Justification Letter" [Attachment 1 of the submittal] identified the sampling events conducted between the 2<sup>nd</sup> half 2005 and the 2<sup>nd</sup> half 2011 when insufficient water was available at existing surface water monitoring locations #B-2 [upstream] and/or #B-4R [downstream] to allow surface water sample collection.
2. Figure 1 provided in Attachment 1 showed the discharge point from Pond 2 at a location downstream from the existing, downstream surface water monitoring location #B-4R. Now that the Phase II disposal area is in operation, the potential impacts related to discharge from Pond 2 are not adequately characterized by existing surface water monitoring location #B-4R.
3. The "Justification Letter" indicated that both Pond 1 and Pond 2 were designed to discharge to Old Cow Pen Slough under conditions of a 25-year, 24-hour storm event.

Based on the information submitted, the application for permit modification is considered to be complete. The Department does not object to the revised "Water Quality Monitoring Plan" presented in the submittal that replaces the existing surface water sampling locations in Old Cow Pen Slough [#B-2 and #B-4R] with proposed sampling from Pond 1 and Pond 2. However, it is not considered appropriate to designate Pond 1 as an upgradient [or upstream] surface water sampling location. As the "Justification Letter" indicates both Pond 1 and Pond 2 receive storm water runoff from within the facility, both ponds would be designated as downgradient [or downstream] surface water monitoring locations. Please submit a replacement page 7 of the "Water Quality Monitoring Plan" that is revised to address the following:

- Section 3.1 ["Surface Water Monitoring Locations"]: please revise the text in ¶1 to designate Pond 1 as a downgradient [or downstream] surface water sampling location.
- Table 3-1 ["Surface Water Monitoring Locations at CCSWDC"]: please revise the "Purpose" column that designates Pond 1 as a downgradient [or downstream] surface water sampling location.

The oversized drawing entitled "Specific Purpose Survey, Central County Solid Waste Disposal Complex" prepared by Sarasota County Survey-Mapping that was included in the submittal does not provide all the monitoring locations for the facility that are listed in permit #130542-007-SO/01 [including previous modifications]. I'm looking for a figure that will provide legible locations and identification numbers for monitor wells, piezometers, leachate sampling locations, the condensate sampling location, and landfill gas probe locations to replace Figure 1 [entitled "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010] that is referenced in modification #130542-018-SO/MM [see attached file]. Can a replacement site map be developed to replace surface water sampling locations #B-2 and #B-4R with Pond 1 and Pond 2, and to also show the other monitoring locations at the facility?

Ideally, the replacement site map would be in a black-and-white format, and 8.5 x 11 inches in size.

Please contact me if you have questions about this message. Thanks for your assistance.

John

\*\*\*\*\*

John R. Morris, P.G.  
FDEP SW District Office, Solid Waste Section  
13051 N. Telecom Pkwy.  
Temple Terrace, FL 33637-0926.

Telephone: 813-632-7600, ext. 336  
E-mail: [john.r.morris@dep.state.fl.us](mailto:john.r.morris@dep.state.fl.us)

*Please take a few minutes to share your comments on the service you received from the department by clicking on this link [DEP Customer Survey](#).*

This electronic mail communication may contain privileged, confidential, and/or proprietary information which is the property of The Atkins North America Corporation, WS Atkins plc or one of its affiliates. If you are not the intended recipient or an authorized agent of the intended recipient please delete this communication and notify the sender that you have received it in error. A list of wholly owned Atkins Group companies can be found at <http://www.atkinsglobal.com/site-services/group-company-registration-details>

Consider the environment. Please don't print this email unless you really need to.



**TABLE 2-2. STAFF GAUGE LOCATIONS AT CCSWDC**

Gauge Name	Location
STW-1	Storm Pond 1
STW-2	Storm Pond 2
STW-3	Storm Pond 3
STW-4	Storm Pond 4
STW-5A	Storm Pond 5, west side
STW-5B	Storm Pond 5, east side
STW-6	Storm Pond 6
STW-7	Storm Pond 7

### SECTION 3.0

#### SURFACE WATER

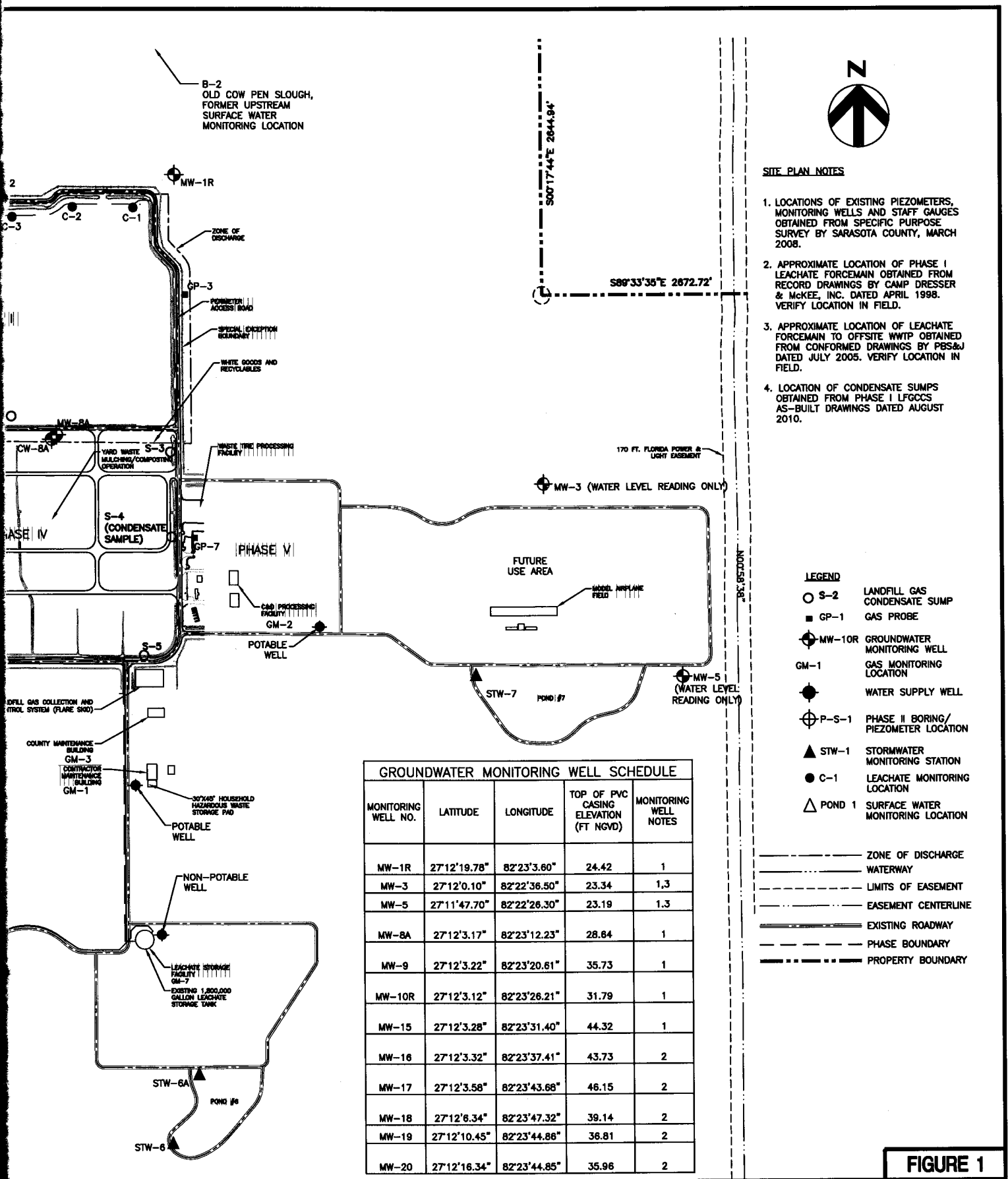
##### 3.1 SURFACE WATER MONITORING LOCATIONS

The surface water monitoring sites include Pond 1, along the north side of the active landfill, which is a downgradient (or downstream) surface water sampling location, and Pond 2, along the west side of the active landfill, which is also a downgradient (or downstream) surface water sampling location. The site characteristics are described in Table 3-1, and surface water monitoring locations are shown on Figure 1.

**TABLE 3-1. SURFACE WATER MONITORING LOCATIONS AT CCSWDC**

Surface Water Monitoring Location	WACS ID#	Water Body Monitored	Purpose
Pond 1 (at STW-1)	TBD	Pond 1	Surface Water Collection and Downgradient
Pond 2 (at STW-2)	TBD	Pond 2	Surface Water Collection and Downgradient





ID WASTE PLEX FILL	TASK	ORIGINAL 8/01/2012	6.	Notes	JOB NO. 00-000.00 DRAWN GG DESIGN RS CHECKED Q.C.
	WATER QUALITY MONITORING PLAN	REVISIONS:	7.	Florida P.E. No.:	
		1.	8.	Address: ATKINS	Signature _____ Date _____
		2.	9.	452 S. Keller Road	
		3.	10.	Orlando, FL 32810-6101	SHEET 1/1
		4.	11.		
		5.	12.		

**Morris, John R.**

**From:** Morris, John R.  
**Sent:** Wednesday, July 18, 2012 7:42 AM  
**To:** Lois Rose (LEROSE@scgov.net); Bayne, Bradley J  
**Cc:** Pelz, Susan  
**Subject:** Central County Solid Waste Disposal Complex, Sarasota County, pending modification #130542-019-SO/MM [WACS facility #51614]  
**Attachments:** Sarasota\_central\_site\_map.pdf

Lois and Brad:

Good morning. I've completed my review of the application for minor modification of the operations permit for the Sarasota Central facility that was received June 18, 2012. The following comments summarize my understanding of the rationale used in the development of this application:

1. The "Justification Letter" [Attachment 1 of the submittal] identified the sampling events conducted between the 2<sup>nd</sup> half 2005 and the 2<sup>nd</sup> half 2011 when insufficient water was available at existing surface water monitoring locations #B-2 [upstream] and/or #B-4R [downstream] to allow surface water sample collection.
2. Figure 1 provided in Attachment 1 showed the discharge point from Pond 2 at a location downstream from the existing, downstream surface water monitoring location #B-4R. Now that the Phase II disposal area is in operation, the potential impacts related to discharge from Pond 2 are not adequately characterized by existing surface water monitoring location #B-4R.
3. The "Justification Letter" indicated that both Pond 1 and Pond 2 were designed to discharge to Old Cow Pen Slough under conditions of a 25-year, 24-hour storm event.

Based on the information submitted, the application for permit modification is considered to be complete. The Department does not object to the revised "Water Quality Monitoring Plan" presented in the submittal that replaces the existing surface water sampling locations in Old Cow Pen Slough [#B-2 and #B-4R] with proposed sampling from Pond 1 and Pond 2. However, it is not considered appropriate to designate Pond 1 as an upgradient [or upstream] surface water sampling location. As the "Justification Letter" indicates both Pond 1 and Pond 2 receive storm water runoff from within the facility, both ponds would be designated as downgradient [or downstream] surface water monitoring locations. Please submit a replacement page 7 of the "Water Quality Monitoring Plan" that is revised to address the following:

- Section 3.1 ["Surface Water Monitoring Locations"]: please revise the text in ¶1 to designate Pond 1 as a downgradient [or downstream] surface water sampling location.
- Table 3-1 ["Surface Water Monitoring Locations at CCSWDC"]: please revise the "Purpose" column that designates Pond 1 as a downgradient [or downstream] surface water sampling location.

The oversized drawing entitled "Specific Purpose Survey, Central County Solid Waste Disposal Complex" prepared by Sarasota County Survey-Mapping that was included in the submittal does not provide all the monitoring locations for the facility that are listed in permit #130542-007-SO/01 [including previous modifications]. I'm looking for a figure that will provide legible locations and identification numbers for monitor wells, piezometers, leachate sampling locations, the condensate sampling location, and landfill gas probe locations to replace Figure 1 [entitled "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010] that is referenced in modification #130542-018-SO/MM [see attached file]. Can a replacement site map be developed to replace surface water sampling locations #B-2 and #B-4R with Pond 1 and Pond 2, and to also show the other monitoring locations at the facility?

Ideally, the replacement site map would be in a black-and-white format, and 8.5 x 11 inches in size.

Please contact me if you have questions about this message. Thanks for your assistance.

John

\*\*\*\*\*

John R. Morris, P.G.  
FDEP SW District Office, Solid Waste Section  
13051 N. Telecom Pkwy.  
Temple Terrace, FL 33637-0926.

Telephone: 813-632-7600, ext. 336  
E-mail: [john.r.morris@dep.state.fl.us](mailto:john.r.morris@dep.state.fl.us)

# TRANSMITTAL

ATKINS

TO: Susan Pelz, PE  
Solid Waste Section  
Florida Department of Environmental Protection

DATE: June 15, 2012

JOB NO.: 100020907 - 03.L

Address/Office: Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0925

RE: Application for a Minor Permit Modification,  
Sarasota County Central County Solid  
Waste Disposal Complex

Phone: 813-744-6100

**WE ARE SENDING YOU** ☒ Attached ☐ Under separate cover via \_\_\_\_\_  
the following items:

- ☐ Shop Drawings ☐ Prints ☐ Plans ☐ Samples  
☐ Copy of Letter ☐ Change Order ☐ Specifications ☒ Application/Letter

COPIES	DATE	NO.	DESCRIPTION
3	6/15/12	1	Cover letter to FDEP (Susan Pelz)
3	6/15/12	1	Permit Application
3	6/15/12	1	Attachment 1 to the Permit Application
3	6/15/12	1	Figure 1
1	6/15/12	1	CD disk with electronic copies of all of the above
1	6/15/12	1	\$250 check made payable to FDEP

**THESE ARE TRANSMITTED As Checked Below:**

- ☐ For approval ☐ Reviewed as submitted ☐ Resubmit \_\_\_\_\_ copies for approval  
☒ For your use ☐ Reviewed as noted ☐ Submit \_\_\_\_\_ copies for distribution  
☐ As requested ☐ Returned for corrections ☐ Return \_\_\_\_\_ corrected prints  
☐ For review and comment ☐ \_\_\_\_\_  
☐ For bids due \_\_\_\_\_ 20\_\_\_\_  
☐ Prints returned after loan to us

**REMARKS:**

Susan,

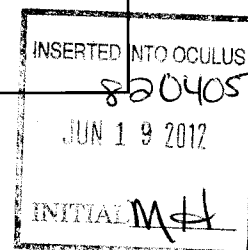
Enclosed are three hard copies and one electronic copy of the Sarasota County CCSWDC application package for the minor permit modification (to change the surface water monitoring locations).

Thanks,  
Brad Bayne, PG  
Atkins - Tampa

SIGNED \_\_\_\_\_

DISTRIBUTION file \_\_\_\_\_

If enclosures are not as noted, kindly notify us at once



# ATKINS

June 15, 2012


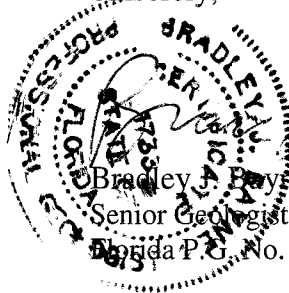
Ms. Susan Pelz, P.E.  
Solid Waste Section  
Florida Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

**Re:           Application for a Minor Permit Modification**  
**Sarasota County Central County Solid Waste Disposal Complex**  
**WACS ID No. SWD/58/51614**  
**Permit No. 130542-007-SO/01**

Dear Ms. Pelz:

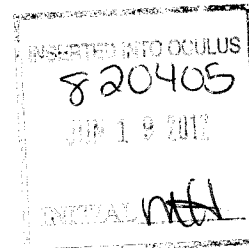
Enclosed please find three copies of the above-referenced application (Parts A, B, and L through S) for a minor permit modification and Attachment 1, which Atkins is submitting on behalf of Sarasota County. We have also enclosed a CD that contains electronic copies (including PDFs) of the entire permit modification application submittal. We have also enclosed the required \$250 check made payable to the Department (for the minor permit modification application). If you have any comments or questions regarding this matter, please do not hesitate to contact me by phone at 813-281-8377 or by e-mail at [bradley.bayne@atkinsglobal.com](mailto:bradley.bayne@atkinsglobal.com).

Sincerely,

  
  
Bradley J. Bayne, P.G.  
Senior Geologist  
Florida P.G. No. 1733

cc:     file  
       D. Deans, Atkins  
       L. Rose, Sarasota County

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District





# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(1), F.A.C.

Form Title: Application to Construct, Operate, Modify, or  
Close a Solid Waste Management Facility

Effective Date: January 6, 2010

Incorporated in Rule: 62-701.330(3), F.A.C.

## STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

### APPLICATION INSTRUCTIONS AND FORMS

Dep't. of Environment  
Protection  
JUN 18 2012  
Southwest District

Northwest District  
160 Governmental Center  
Pensacola, FL 32502-5794  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. B200  
Jacksonville, FL 32256-7590  
904-807-3300

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

Southwest District  
13051 N. Telecom Pkwy  
Temple Terrace, FL 33637  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
239-332-6975

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 through S
- B. Asbestos Monofills - Submit Parts A,B,C,D,E,F,I,K,M, O through S
- C. Industrial Solid Waste Disposal Facilities - Submit Parts A through S

**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 and C 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,L, N through S
- B. Asbestos Monofills - Submit Parts A,B,M, O through S
- C. Industrial Solid Waste Disposal Facilities - Submit Parts A,B, L through S

**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
PART B:	DISPOSAL FACILITY GENERAL INFORMATION
PART C:	PROHIBITIONS
PART D:	SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL
PART E:	LANDFILL PERMIT REQUIREMENTS
PART F:	GENERAL CRITERIA FOR LANDFILLS
PART G:	LANDFILL CONSTRUCTION REQUIREMENTS
PART H:	HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS
PART I:	GEOTECHNICAL INVESTIGATION REQUIREMENTS
PART J:	VERTICAL EXPANSION OF LANDFILLS
PART K:	LANDFILL OPERATION REQUIREMENTS
PART L:	WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS
PART M:	SPECIAL WASTE HANDLING REQUIREMENTS
PART N:	GAS MANAGEMENT SYSTEM REQUIREMENTS
PART O:	LANDFILL CLOSURE REQUIREMENTS
PART P:	OTHER CLOSURE PROCEDURES
PART Q:	LONG-TERM CARE
PART R:	FINANCIAL ASSURANCE
PART S:	CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

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

**PART A. GENERAL INFORMATION**

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

- |  |  |
|--|--|
| <input checked="" type="checkbox"/> Class I Landfill | <input type="checkbox"/> Ash Monofill      |
| <input type="checkbox"/> Class III Landfill          | <input type="checkbox"/> Asbestos Monofill |
| <input type="checkbox"/> Industrial Solid Waste      |  |
| <input type="checkbox"/> Other Describe:             |  |

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**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  
☐ Long-term Care Only

3. Classification of application:

- |                                  |  |
|----------------------------------|--|
| <input type="checkbox"/> New     | <input type="checkbox"/> Substantial Modification      |
| <input type="checkbox"/> Renewal | <input type="checkbox"/> Intermediate Modification     |
|                                  | <input checked="" type="checkbox"/> Minor Modification |

4. Facility name: Central County Solid Waste Disposal Complex

5. DEP ID number: WACS ID No. SWD/58/51614 County: Sarasota

6. Facility location (main entrance):  
4000 Knights Trail Road, Nokomis, FL 34275

7. Location coordinates:

Section: 1-4, 9-16 Township: 38 South Range: 19 East

Latitude: 27° 12' 11" Longitude: 82° 23' 16"

Datum: N/C Coordinate Method: N/C

Collected by: N/C Company/Affiliation: N/C

Southwest District  
JUN 18 2012  
Dep't. of Environmental Protection

8. Applicant name (operating authority): Sarasota County Solid Waste Operations
- Mailing address: 4000 Knights Trail Road, Nokomis, FL 34275  
Street or P.O. Box City State Zip
- Contact person: Ms. Lois Rose Telephone: (941) 851-1589
- Title: Manager, Solid Waste
- lerose@scgov.net  
E-Mail address (if available)
9. Authorized agent/Consultant: Atkins North America Inc.
- Mailing address: 4030 W. Boy Scout Boulevard, # 700 Tampa FL 33607  
Street or P.O. Box City State Zip
- Contact person: Bradley J. Bayne, PG Telephone: (813) 281-8377
- Title: Senior Geologist
- bradley.bayne@atkinsglobal.com  
E-Mail address (if available)
10. Landowner (if different than applicant): Same as applicant
- 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:  
N/C  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_
12. Population to be served:  
Current: N/C Five-Year Projection: N/C
13. Date site will be ready to be inspected for completion: N/C
14. Expected life of the facility: N/C years
15. Estimated costs: N/C  
Total Construction: \$ N/C Closing Costs: \$ N/C
16. Anticipated construction starting and completion dates:  
From: N/C To: N/C
17. Expected volume or weight of waste to be received:  
\_\_\_\_\_ yds<sup>3</sup>/day \_\_\_\_\_ tons/day \_\_\_\_\_ gallons/day

**PART B.**

## DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned under this application:  
NO SUBSTANTIAL CHANGE

[illegible]

2. Facility site supervisor: Lois Rose

**Title:** Manager, Solid Waste

Telephone: ( 941 ) 851-1589

lerose@scgov.net

E-Mail address (if available)

3. Disposal area: Total N/C acres; Used N/C acres; Available N/C acres.

4. Weighing scales used: ☐ Yes ☐ No *N/C*

5. Security to prevent unauthorized use: ☐ Yes ☐ No *N/A*

6. Charge for waste received: N/C \$/yds<sup>3</sup> N/C \$/ton

7. Surrounding land use, zoning:

- ☐ Residential
 ☐ Industrial  
☐ Agricultural
 ☐ None  
☐ Commercial
 ☐ Other Describe:  
 N/C

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8. Types of waste received:

- ☐ Household  
☐ Commercial  
☐ Incinerator/WTE ash  
☐ Treated biomedical  
☐ Water treatment sludge  
☐ C & D debris  
☐ Shredded/cut tires  
☐ Yard trash  
☐ Septic tank  
☐ Industrial

☐ Air treatment sludge  
☐ Agricultural  
☐ Asbestos  
NO SUBSTANTIAL CHANGE

☐ Industrial sludge  
☐ Domestic sludge  
☐ Other Describe:

9. Salvaging permitted: ☐ Yes ☐ No N/C

10. Attendant: ☐ Yes ☐ No N/C Trained operator: ☐ Yes ☐ No N/C

11. Trained spotters: ☐ Yes ☐ No N/C Number of spotters used: N/C

12. Site located in: ☐ Floodplain ☐ Wetlands ☐ Other:  
N/C

13. Days of operation: N/C

14. Hours of operation: N/C

15. Days Working Face covered: N/C

16. Elevation of water table: N/C ft. Datum Used: N/C

17. Number of monitoring wells: N/C

18. Number of surface monitoring points: Same number of points, but different locations

19. Gas controls used: ☐ Yes ☐ No N/C Type controls: ☐ Active ☐ Passive N/C

Gas flaring: ☐ Yes ☐ No N/C Gas recovery: ☐ Yes ☐ No N/C

20. Landfill unit liner type:

☐ Natural soils ☐ Double geomembrane  
☐ Single clay liner ☐ Geomembrane & composite  
☐ Single geomembrane ☐ Double composite  
☐ Single composite ☐ None  
☐ Slurry wall ☐ Other Describe:  
N/C

21. Leachate collection method:

☐ Collection pipes

☐ Sand layer

☐ Geonets

☐ Gravel layer

☐ Well points

☐ Interceptor trench

☐ Perimeter ditch

☐ None

☐ Other Describe:

NO SUBSTANTIAL CHANGE

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22. Leachate storage method:

☐ Tanks

☐ Surface impoundments

☐ Other Describe:

N/C

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23. Leachate treatment method:

☐ Oxidation

☐ Chemical treatment

☐ Secondary

☐ Settling

☐ Advanced

☐ None

☐ Other

N/C

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24. Leachate disposal method:

☐ Recirculated

☐ Pumped to WWTP

☐ Transported to WWTP

☐ Discharged to surface water/wetland

☐ Injection well

☐ Percolation ponds

☐ Evaporation

☐ Spray Irrigation

☐ Other

N/C

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25. For leachate discharged to surface waters:

Name and Class of receiving water:  
NO SUBSTANTIAL CHANGE

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26. Storm Water:

Collected: ☐ Yes ☐ No

Type of treatment:  
N/C

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Name and Class of receiving water:  
N/C

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27. Environmental Resources Permit (ERP) number or status:

N/C

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**PART L. WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS (62-701.510, FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<input checked="" type="checkbox"/>	Attachment 1	<input type="checkbox"/>	<input type="checkbox"/>	1. Water quality and leachate monitoring plan shall be submitted describing the proposed ground water, surface water and leachate monitoring systems and shall meet at least the following requirements;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Based on the information obtained in the hydrogeological investigation and signed, dated and sealed by the PG or PE who prepared it; (62-701.510(2)(a),FAC)
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. All sampling and analysis performed in accordance with Chapter 62-160, FAC; (62-701.510(2)(b),FAC)
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. Ground water monitoring requirements; (62-701.510(3),FAC)
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(1) Detection wells located downgradient from and within 50 feet of disposal units;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(2) Downgradient compliance wells as required;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(3) Background wells screened in all aquifers below the landfill that may be affected by the landfill;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(4) Location information for each monitoring well;
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	(5) Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(6) Well screen locations properly selected;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(7) Monitoring wells constructed to provide representative ground water samples;
<input type="checkbox"/>		<input type="checkbox"/>	<input checked="" type="checkbox"/>	(8) Procedures for properly abandoning monitoring wells;
<input type="checkbox"/>		<input checked="" type="checkbox"/>	<input type="checkbox"/>	(9) Detailed description of detection sensors if proposed.
<input checked="" type="checkbox"/>	Attachment 1	<input type="checkbox"/>	<input type="checkbox"/>	d. Surface water monitoring requirements; (62-701.510(4),FAC)



- |                                     |              |                          |                                     |   |
|-------------------------------------|--------------|--------------------------|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Attachment 1 | <input type="checkbox"/> | <input type="checkbox"/>            | (1) Location of and justification for all proposed surface water monitoring points;   |
| <input checked="" type="checkbox"/> | Attachment 1 | <input type="checkbox"/> | <input type="checkbox"/>            | (2) Each monitoring location to be marked and its position determined by a registered Florida land surveyor;  |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | e. Leachate sampling locations proposed; (62-701.510(5),FAC)  |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | f. Initial and routine sampling frequency and requirements; (62-701.510(6),FAC)   |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (1) Initial background ground water and surface water sampling and analysis requirements;   |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (2) Routine leachate sampling and analysis requirements;  |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (3) Routine monitoring well sampling and analysis requirements;   |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (4) Routine surface water sampling and analysis requirements.   |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | g. Describe procedures for implementing evaluation monitoring, prevention measures and corrective action as required; (62-701.510(7),FAC)   |
| <input checked="" type="checkbox"/> | Attachment 1 | <input type="checkbox"/> | <input type="checkbox"/>            | h. Water quality monitoring report requirements;(62-701.510(9),FAC)   |
| <input checked="" type="checkbox"/> | Attachment 1 | <input type="checkbox"/> | <input type="checkbox"/>            | (1) Semi-annual report requirements (see paragraphs 62 701.510(6)(c),(d)and (e) for sampling frequencies);  |
| <input checked="" type="checkbox"/> | Attachment 1 | <input type="checkbox"/> | <input type="checkbox"/>            | (2) Documentation that the water quality data shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases, unless an alternate form of submittal is specified in the permit. |
| <input type="checkbox"/>            |              | <input type="checkbox"/> | <input checked="" type="checkbox"/> | (3) Two and one-half year report requirements, or every five years if in long-term care, signed, dated and sealed by PG or PE.  |

**PART M. SPECIAL WASTE HANDLING REQUIREMENTS (62-701.520, FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Describe procedures for managing motor vehicles; (62-701.520(1),FAC)
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Describe procedures for landfilling shredded waste; (62-701.520(2),FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Describe procedures for asbestos waste disposal; (62-701.520(3),FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Describe procedures for disposal or management of contaminated soil; (62-701.520(4), FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	5. Describe procedures for disposal of biological wastes; (62-701.520(5), FAC)

**PART N. GAS MANAGEMENT SYSTEM REQUIREMENTS (62-701.530,FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	1. Provide the design for a gas management system that will (62-701.530(1), FAC):
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	a. Be designed to prevent concentrations of combustible gases from exceeding 25% the LEL in structures and 100% the LEL at the property boundary;
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	b. Be designed for site-specific conditions;
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	c. Be designed to reduce gas pressure in the interior of the landfill;
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	d. Be designed to not interfere with the liner, leachate control system or final cover.
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	2. Provide documentation that will describe locations, construction details and procedures for monitoring gas at ambient monitoring points and with soil monitoring probes; (62-701.530(2), FAC):
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	3. Provide documentation describing how the gas remediation plan and odor remediation plan will be implemented; (62-701.530(3), FAC):
<input type="checkbox"/>	_____	<input type="checkbox"/>	<input checked="" type="checkbox"/>	4. Landfill gas recovery facilities; (62-701.530(5), FAC):

**S**      **LOCATION**      **N/A**      **N/C**

**PART N CONTINUED**

- |                          |       |                          |                                     |   |
|--------------------------|-------|--------------------------|-------------------------------------|---|
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | a. Information required in Rules 62-701.320(7) and 62-701.330(3), FAC supplied;   |
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | b. Information required in Rule 62-701.600(4), FAC supplied where relevant and practical;   |
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | c. Estimate of current and expected gas generation rates and description of condensate disposal methods provided;   |
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | d. Description of procedures for condensate sampling, analyzing and data reporting provided;  |
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | e. Closure plan provided describing methods to control gas after recovery facility ceases operation and any other requirements contained in Rule 62-701.400(10), FAC; |
| <input type="checkbox"/> | _____ | <input type="checkbox"/> | <input checked="" type="checkbox"/> | f. Performance bond provided to cover closure costs if not already included in other landfill closure costs.  |

**PART O.      LANDFILL FINAL CLOSURE REQUIREMENTS (62-701.600,FAC)**

**S**      **LOCATION**      **N/A**      **N/C**

- |                          |       |                                     |                          |  |
|--------------------------|-------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Closure permit requirements; (62-701.600(2),FAC)  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Application submitted to Department at least 90 days prior to final receipt of wastes;            |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Closure plan shall include the following:   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (1)      Closure design plan;  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (2)      Closure operation plan;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (3)      Plan for long-term care;  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (4)      A demonstration that proof of financial responsibility for long-term care will be provided. |

S                      LOCATION                      N/A                      N/C

**PART O CONTINUED**

- |                          |       |                                     |                          |  |
|--------------------------|-------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Closure design plan including the following requirements: (62-701.600(3),FAC)   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | a. Plan sheet showing phases of site closing;  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | b. Drawings showing existing topography and proposed final grades;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | c. Provisions to close units when they reach approved design dimensions;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | d. Final elevations before settlement;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | e. Side slope design including benches, terraces, down slope drainage ways, energy dissipaters and discussion of expected precipitation effects; |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | f. Final cover installation plans including:   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (1) CQA plan for installing and testing final cover;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (2) Schedule for installing final cover after final receipt of waste;  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (3) Description of drought-resistant species to be used in the vegetative cover;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (4) Top gradient design to maximize runoff and minimize erosion;   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (5) Provisions for cover material to be used for final cover maintenance.  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | g. Final cover design requirements:  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (1) Protective soil layer design;  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | (2) Barrier soil layer design;   |

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	<b>PART O CONTINUED</b>
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(3) Erosion control vegetation;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(4) Geomembrane barrier layer design;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(5) Geosynthetic clay liner design if used;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	(6) Stability analysis of the cover system and the disposed waste.
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	h. Proposed method of stormwater control;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	i. Proposed method of access control;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	j. Description of the proposed or existing gas management system which complies with Rule 62-701.530, FAC.
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Closure operation plan shall include:(62-701.600(4),FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Detailed description of actions which will be taken to close the landfill;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. Time schedule for completion of closing and long-term care;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	c. Describe proposed method for demonstrating financial assurance for long-term care;
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	d. Operation of the water quality monitoring plan required in Rule 62-701.510, FAC.
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	e. Development and implementation of gas management system required in Rule 62-701.530, FAC.
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Certification of closure construction completion including: (62-701.600(6),FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	a. Survey monuments; (62-701.600(6)(a),FAC)
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	b. Final survey report; (62-701.600(6)(b),FAC)

**S**      **LOCATION**      **N/A**      **N/C**

**PART O CONTINUED**

- |                          |       |                                     |                          |   |
|--------------------------|-------|-------------------------------------|--------------------------|---|
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Declaration to the public; (62-701.600(7),FAC)   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 6. Official date of closing; (62-701.600(8),FAC)  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 7. Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (62-701.600(9),FAC) |

**PART P.      OTHER CLOSURE PROCEDURES (62-701.610,FAC)**

**S**      **LOCATION**      **N/A**      **N/C**

- |                          |       |                                     |                          |  |
|--------------------------|-------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Describe how the requirements for use of closed solid waste disposal areas will be achieved;(62-701.610(1),FAC) |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Describe how the requirements for relocation of wastes will be achieved; (62-701.610(2), FAC)                   |

**PART Q.      LONG-TERM CARE (62-701.620,FAC)**

**S**      **LOCATION**      **N/A**      **N/C**

- |                          |       |                                     |                          |  |
|--------------------------|-------|-------------------------------------|--------------------------|--|
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 1. Maintaining the gas collection and monitoring system; (62-701.620(5), FAC)                    |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 2. Stabilization report requirements; (62-701.620(6),FAC)  |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 3. Right of access;(62-701.620(7),FAC)   |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 4. Requirements for replacement of monitoring devices; (62-701.620(8),FAC)                       |
| <input type="checkbox"/> | _____ | <input checked="" type="checkbox"/> | <input type="checkbox"/> | 5. Completion of long-term care signed and sealed by professional engineer (62-701.620(9), FAC). |

**PART R. FINANCIAL ASSURANCE (62-701.630,FAC)**

<u>S</u>	<u>LOCATION</u>	<u>N/A</u>	<u>N/C</u>	
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	1. Provide cost estimates for closing, long-term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (62-701.630(3)&(7), FAC).
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	2. Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; (62-701.630(4)&(8), FAC).
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	3. Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; (62-701.630(5),(6),&(9), FAC).
<input type="checkbox"/>	_____	<input checked="" type="checkbox"/>	<input type="checkbox"/>	4. Provide documentation and the appropriate forms for delaying submitting proof of financial assurance for solid waste disposal units that qualify; (62-701.630(2)(c), FAC).





**ATTACHMENT 1:**  
**JUSTIFICATION LETTER**



June 15, 2012

Ms. Susan Pelz, P.E.  
Solid Waste Section  
Florida Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

**Re: Justification for Minor Permit Modification  
Sarasota County Central County Solid Waste Disposal Complex  
WACS ID No. SWD/58/51614  
Permit No. 130542-007-SO/01**

Dear Ms. Pelz:

On behalf of Sarasota County Solid Waste Operations, Atkins is pleased to present this Justification for Minor Permit Modification for the Sarasota County Central County Solid Waste Disposal Complex (CCSWDC), located in Nokomis, Florida. These services were provided under Sarasota County- Solid Waste - Work Authorization 17 –Water Quality Evaluation Report and Plan Update for CCSWDC, dated 4/11/11, as part of Atkins's continuing general consulting services contract (Contract 2010-538) with Sarasota County. In May 2011, Atkins completed the Water Quality Monitoring Plan Evaluation for the CCSWDC. The report recommended selection of alternative locations for surface water sampling at the site. This letter report provides the justifications for this recommendation.

#### **BACKGROUND INFORMATION**

The CCSWDC opened in 1998 with a 55-acre lined cell (Phase I) on an approximately 6,000-acre complex in central Sarasota County. Waste disposal in that cell has occurred since 1998. Construction of a second lined cell (Phase II) was completed in 2009. Phase II is located west of Phase I and is approximately 58 acres; it began receiving waste in August 2010. A groundwater, surface water, and leachate sampling program has been conducted at this site since 1998. Sampling of the site's surface water, leachate, and groundwater has generally been semi-annually. The facility currently operates under Operation Permit No. 130542-007-SO/01. The most recent Modification to the Permit (130542-013-SO/MM) was issued on April 8, 2010.

As of early 2005, surface water at this site was being monitored using 7 surface water sampling locations (B1 – B7) located throughout the landfill property. However, from November 2005 to the present day, surface water samples have been collected from two locations, denoted B2 and

B4R. Surface water sampling location B2 is the upstream location along Old Cow Pen Slough at the site's northern boundary, while location B4R is the downstream location along Old Cow Pen Slough, and it is west of the Phase II portion of the landfill. The surface water monitoring locations have been marked and surveyed by a registered Florida land surveyor.

There are certain disadvantages associated with surface water sampling locations B2 and B4R. These surface water sampling locations may not be truly representative of contributions to surface water quality resulting from the landfill. Since the surface water sampling locations also receive runoff from current and former cattle raising and citrus growing activities on abutting properties, consideration should be given to determining if other surface water sampling locations would provide surface water samples more representative of the landfill proper. It was also noted that surface water sampling location B2 was frequently dry (6 of 10 sampling events between 2007 and 2011). Selection of an alternate location would also consider a location with a more reliable presence of surface water. For reference, **Figure 1** provides the locations of all monitoring wells, surface water sampling locations, and leachate sampling locations at the site.

At the request of Sarasota County, Atkins has conducted evaluations to determine if alternate surface water sampling locations can be identified and used. The scope of work for these evaluations included the following:

- Review of surface water quality data, especially with respect to detections of fecal coliform;
- Review of prior surface water sampling locations at this site, review of surface water sampling locations at other landfills, and evaluation of the frequency of availability of surface water for sampling at current sampling locations B2 and B4R;
- Evaluation of possible alternative surface water sampling locations; and
- Review of design documentation and as-built plans for Ponds 1 and 2, which were selected as the alternative surface water sampling locations.

## **EVALUATION OF SURFACE WATER SAMPLING LOCATIONS AND SURFACE WATER QUALITY DATA**

Atkins reviewed the presence of water (enough for sampling) in the site's surface water sampling locations since 2005 and also reviewed the occurrence of elevated concentrations of fecal coliform in the surface water. Between the Second Half of 2005 and the Second Half of 2011, the following were the available occurrences of surface water for sampling at locations B2 and B4R:

- B2 and B4R available in Second Half 2005
- B2 and B4R NOT available in First Half 2006
- B2 and B4R available in Second Half 2006
- B2 and B4R NOT available in First Half 2007

- B2 and B4R NOT available in Second Half 2007
- B2 and B4R NOT available in First Half 2008
- B2 and B4R available in Second Half 2008
- B2 and B4R NOT available in First Half 2009
- Only B4R available in Second Half 2009
- B2 and B4R available in First Half 2010
- Only B4R available in Second Half 2010
- B2 and B4R available in First Half 2011
- B2 and B4R available in Second Half 2011, but B2 not available for re-sampling

Out of 13 possible semi-annual sampling events between late 2005 and the end of 2011, adequate water for sampling was available at B2 only 46% of the time, while adequate water was available at B4R 62% of the time. Based on observations by County staff, it appears that Old Cow Pen Slough only contains water sufficient for sampling after significant rain events or at the end of the wet season (September/October). This suggests that the water flowing through Old Cow Pen Slough may be dominated by runoff from the abutting properties to the north and west, while any flow westward from the landfill may not represent a significant contribution to Old Cow Pen Slough. Surface water sampling locations with a more reliable, year-round supply of surface water and that are more representative of runoff from the landfill should be considered.

County personnel also suspect that elevated levels of fecal coliform in the surface water samples are not caused by any impacts from the landfill itself, but from contributions from former and current cattle raising areas to the north and west of the landfill proper. With the exception of sampling events in March 2010, March 2011, and October 2011, fecal coliform has been the primary, and generally *the only*, constituent detected in the surface water at concentrations that exceeded its Surface Water Quality Standard (of 800 cfu/100 ml). Since March 2005, elevated concentrations of fecal coliform have been detected at the follow locations during the following sampling events;

- B2 in March 2005
- B2 and B4R in November 2005
- B4R in August 2006
- B2 and B4R in September 2008
- B4R in September 2009
- B4R in September 2010

It is believed that more representative locations for the surface water sampling locations would also be associated with lower concentrations of fecal coliform.

Ms. Susan Pelz, P.E.

June 15, 2012

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During October 2011, an elevated lead concentration was detected in the surface water at location B2. However, once the laboratory results were received, there was no longer sufficient water for re-sampling at B2 in order to confirm the presence of lead. As the B2 location receives runoff directly from adjacent pastureland, County personnel believe that runoff from adjacent properties likely contributed to the elevated lead concentration. This example illustrates the difficulty and lack of reliability for using B2 as one of the designated surface water sampling location.

Atkins has reviewed the selected locations of surface water sampling locations at various landfills throughout the FDEP Southwest District, including facilities in Sarasota, Polk, and Manatee Counties. Frequently, the surface water sampling locations are selected from stormwater ponds or wetlands located immediately adjacent to the landfill. This is the case at the Venice Landfill, Bee Ridge Landfill, and Northeast Polk Closed Landfill. Other surface water sampling locations are chosen from nearby watercourses in the immediate vicinity of the landfill. This is the case for the Polk County Central Facility, the Manatee County Lena Road Landfill, and the CCSWDC. It is our opinion that selection of a surface water pond adjacent to the landfill proper would be more representative of the surface water contribution from the landfill than the current locations of B2 and B4R, which are located along Old Cow Pen Slough (and are downstream of predominantly non-landfill properties).

Since stormwater ponds are frequently used as surface water sampling locations at various landfill sites, Atkins examined the on-site stormwater ponds as possible options for alternate surface water sampling locations (other than B2 and B4R) at the CCSWDC. Currently, there are 7 stormwater ponds that normally contain water year-round located in the immediate vicinity of the developed portion of the landfill property. Pond 1 is located along the north side of Phase II. Pond 2 is located to the west of Phases II and III. Ponds 3, 4, 5, 6, and 7 are located around the periphery of the site's future use areas. Since Ponds 1 and 2 are located closest to the active portions of the landfill (currently Phase I, but also Phase II as of August 2010), these ponds seem to be best options for surface water sampling from any of the site's stormwater ponds. All CCSWDC pond locations are shown on **Figure 1**.

One of FDEP's concerns about using stormwater ponds as surface water sampling locations at landfill sites involves the potential (or lack of potential) for those ponds to discharge to the nearby surface water systems. If a particular pond in question is not designed to discharge to the landfill site's surface water drainage system during a representative storm event (generally no greater than a 25-year, 24-hour maximum rain event), then that stormwater pond cannot be considered representative of the site's surface water system. In this case, Ponds 1 and 2 at the CCSWDC would qualify as representative of the site's surface water system because they are designed to discharge to the Old Cow Pen Slough drainage under the conditions of a 25-year, 24-hour maximum rain event. MSSW Permit No. 407932.01, issued on August 24, 1993 for the CCSWDC, indicates the following: "the design for downstream peak discharge to Cow Pen Slough and Cow Pen Slough Canal would not exceed that of the existing pre-development

conditions for the 25-year, 24-hour storm event.” Copies of the design documentation for the permit (Permit Application Design Report and Site and Development Plan and Application) are attached to this letter report. Since all of the ponds and swales at the CCSWDC were designed to comply with the above-referenced condition of the permit, Ponds 1 and 2 would meet the criteria to be included as part of the landfill’s surface water system. As-built drawings for Ponds 1 and 2 are also attached to this letter report, for reference.

In order to evaluate the possibility of using Ponds 1 and 2 as surface water sampling locations, the County collected representative samples of the surface water from those ponds on November 1, 2011. The surface water samples were analyzed for all of the parameters required for locations B2 and B4R in the current site permit. **Table 1** provides a summary of the surface water sampling results from Ponds 1 and 2. There were no exceedances of any surface water criteria. Notably, the concentrations of fecal coliform at both Ponds 1 and 2 were well below the levels frequently detected at B2 and B4R. The laboratory analytical data sheets for the surface water samples from Ponds 1 and 2 are attached to the end of this letter report.

## CONCLUSIONS AND RECOMMENDATIONS

Atkins conducted evaluations of surface water sampling locations and surface water quality data in support of a Minor Permit Modification for the Sarasota County CCSWDC. These evaluations included reviewing surface water quality data (especially as it related to fecal coliform) and an evaluation of possible alternate surface water sampling locations. The conclusions resulting from these evaluations are as follows:

- It is suspected that elevated levels of fecal coliform in the surface water samples are not caused by any impacts from the landfill itself, but from contributions from former and current cattle raising areas to the north and west of the landfill proper. Fecal coliform has been the primary, and frequently *the only*, constituent detected in the surface water at concentrations that exceeded its Surface Water Quality Standard. It is believed more representative locations for the surface water sampling locations would also be associated with lower concentrations of fecal coliform.
- Adequate water for sampling was available at sampling location B2 only 46% of the time, while adequate water was available at sampling location B4R 62% of the time. It appears that Old Cow Pen Slough only contains water sufficient for sampling after significant rain events or at the end of the wet season (September/October). Surface water sampling locations with a more reliable, year-round supply of surface water and that are more representative of runoff from the landfill should be considered.
- Currently, there are 7 stormwater ponds that normally contain water year-round located in the immediate vicinity of the developed portion of the landfill property. Since Ponds 1 and 2 are located closest to the active portions of the landfill (primarily Phase I, but

Ms. Susan Pelz, P.E.  
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Phase II also since August 2010), these ponds seem to be best options for surface water sampling from any of the site's stormwater ponds. It also appears that these ponds would qualify as being representative of the site's surface water system.

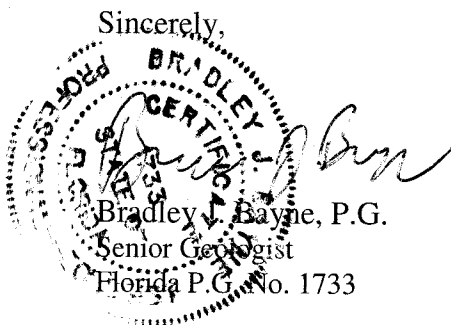
Atkins has the following recommendation regarding the surface water sampling program at the Sarasota County CCSWDC:

- The surface water sampling locations, which are currently B2 and B4R, should be changed to locations that are more representative of runoff from the landfill proper, and to locations that would not include runoff from nearby, unrelated properties. We recommend sampling surface water from existing pond locations Pond 1 and Pond 2, which are present year-round for consistent availability of surface water for sampling. Both ponds have two staff gauges (each) that have been marked and surveyed by a registered Florida land surveyor. One of these surveyed locations (at each pond) will be used as the sampling location.

The County has modified the Water Quality Monitoring Plan for the CCSWDC in accordance with the changes recommended above (see the attached revised Water Quality Monitoring Plan). As is currently the County's policy (and as requested by FDEP), all water quality data will be provided to FDEP in an electronic format consistent with the requirements for importing the data into FDEP databases.

If you have any comments or questions regarding this matter, please do not hesitate to contact me by phone at 813-281-8377 or by e-mail at [bradley.bayne@atkinsglobal.com](mailto:bradley.bayne@atkinsglobal.com).

Sincerely,



Bradley J. Bayne, P.G.  
Senior Geologist  
Florida P.G. No. 1733

cc: file  
D. Deans, Atkins  
L. Rose, Sarasota County

**Table 1**  
**Surface Water Analytical Summary**  
**November 2011 -**

Analyte	Location:		Pond 1	Pond 2
	Sampling Date:		11/01/11	11/01/11
	Standard(1)	Units		
<b>Field Measurements</b>				
Temperature		deg. C	19.87	21.31
pH		STD	6.71	7.31
Conductivity		umhos/cm	213	366
Dissolved Oxygen (DO)		mg/l	5.29	6.58
Turbidity	29	NTU	1	7.87
<b>Inorganics</b>				
Ammonia		mg/l	BDL	BDL
Antimony	4300	ug/l	BDL	BDL
Arsenic	50	ug/l	BDL	BDL
Barium		ug/l	9.5 I	14.9
Beryllium	0.13	ug/l	BDL	BDL
Bicarbonate Alkalinity		mg/l	72.1	126
Biochemical Oxygen Demand (BOD)		mg/l	BDL	4.5
Cadmium	Note 2	ug/l	BDL	0.15
Calcium		ug/l	28900	43400
Carbonate Alkalinity		mg/l	BDL	BDL
Chemical Oxygen Demand (COD)		mg/l	48.7	64.1
Chlorophyll A		mg/m3	4.3	46.2
Chromium	Note 3	ug/l	BDL	BDL
Cobalt		ug/l	BDL	BDL
Copper	Note 4	ug/l	BDL	BDL
Fecal coliforms	800	cfu/100ml	BDL	80 B
Iron	1000	ug/l	21.8	162
Lead	Note 5	ug/l	BDL	1.2
Magnesium		ug/l	5300	7100
MBAS		ug/l	NA	NA
Mercury	0.012	ug/l	0.000578	0.0012
Nickel	Note 6	ug/l	BDL	BDL
Nitrate as N		mg/l	BDL	BDL
Nitrite as N		mg/l	BDL	BDL
Nitrogen, Nitrate-Nitrite		mg/l	BDL	BDL
Potassium		ug/l	1300	25300
Selenium	5.0	ug/l	BDL	BDL
Silver	0.07	ug/l	BDL	BDL
Sodium	250000	ug/l	6800	10200
Sulfate		ug/l	20.8	10.9
Thallium	6.3	ug/l	BDL	BDL
Total Alkalinity		mg/l	72.1	126
Total Dissolved Solids (TDS)		mg/l	135	220
Total Hardness		ug/l	94100	138000
Total Kjeldahl Nitrogen (TKN)		mg/l	0.9	1.6
Total Nitrogen		mg/l	0.9	1.6
Total Organic Carbon (TOC)		mg/l	14.6	15.1
Total Phosphorus		mg/l	0.076 I	0.52
Total Residual Chlorine		ug/l	NA	NA
Total Suspended Solids (TSS)		mg/l	BDL	12.5
Unionized ammonia	20	mg/l	BDL	BDL
Vanadium	49	ug/l	BDL	BDL
Zinc	Note 7	ug/l	2.6	2.7 I
<b>Organics</b>				
1,1,1,2-Tetrachloroethane		ug/l	BDL	BDL
1,1,1-Trichloroethane	270	ug/l	BDL	BDL
1,1,2,2-Tetrachloroethane	10.8	ug/l	BDL	BDL



Analyte	Location:		Pond	Pond 2
Sampling Date:			11/01/11	11/01/11
	Standard(1)	Units		
1,1,2-Trichloroethane	16	ug/l	BDL	BDL
1,1-Dichloroethane		ug/l	BDL	BDL
1,1-Dichloroethene	3.2	ug/l	BDL	BDL
1,2,3-Trichloropropane	0.2	ug/l	BDL	BDL
1,2-Dichlorobenzene	99	ug/l	BDL	BDL
1,2-Dichloroethane	37	ug/l	BDL	BDL
1,2-Dichloropropane	14	ug/l	BDL	BDL
1,4-Dichlorobenzene	3	ug/l	BDL	BDL
2-Butanone	120000	ug/l	BDL	BDL
2-Hexanone		ug/l	BDL	BDL
4-Methyl-2-pentanone	23000	ug/l	BDL	BDL
Acetone	1700	ug/l	BDL	BDL
Acrylonitrile	0.2	ug/l	BDL	BDL
Benzene	71.28	ug/l	BDL	BDL
Bromochloromethane		ug/l	BDL	BDL
Bromodichloromethane	49.7	ug/l	BDL	BDL
Bromomethane	35	ug/l	BDL	BDL
Carbon disulfide	110	ug/l	6.5*	BDL*
Carbon tetrachloride	4.42	ug/l	BDL	BDL
Chlorobenzene	17	ug/l	BDL	BDL
Chloroethane		ug/l	BDL	BDL
Chloromethane	470.8	ug/l	BDL	BDL
cis-1,2-Dichloroethene	3.2	ug/l	BDL	BDL
cis-1,3-Dichloropropene	12	ug/l	BDL	BDL
Dibromochloromethane		ug/l	BDL	BDL
Dibromochloropropane		ug/l	BDL	BDL
Dibromomethane		ug/l	BDL	BDL
Dichloromethane	1580	ug/l	BDL	BDL
Ethylbenzene	610	ug/l	BDL	BDL
Ethylene dibromide	13	ug/l	BDL	BDL
Iodomethane		ug/l	BDL	BDL
Styrene	460	ug/l	BDL	BDL
t-1,4-Dichloro-2-butene		ug/l	BDL	BDL
Tetrachloroethene	8.85	ug/l	BDL	BDL
Toluene	480	ug/l	BDL*	BDL*
Total xylenes	370	ug/l	BDL	BDL
trans-1,2-Dichloroethene	11000	ug/l	BDL	BDL
trans-1,3-Dichloropropene	12	ug/l	BDL	BDL
Tribromoethane		ug/l	BDL	BDL
Trichloroethene	80.7	ug/l	BDL	BDL
Trichlorofluoromethane		ug/l	BDL	BDL
Trichloromethane	470.8	ug/l	BDL	BDL
Vinyl acetate	700	ug/l	BDL	BDL
Vinyl chloride	2.4	ug/l	BDL	BDL

Abbreviations: BDL = below detection limits; mg/l = milligrams per liter; ug/l = micrograms per liter; NTU = nephelometric turbidity units.

\* = detected in trip blank

B = results based on colony counts outside the ideal range

I = result is between the method detection limit and the practical quantitation limit

Note (1) Surface water standards presented in Chapter 62-302, FAC.

Note (2) Cd less than or equal to  $e(0.7852(\ln H)-3.49)$

Note (3) Cr less than or equal to  $e(0.819(\ln H)+0.6848)$

Note (4) Cu less than or equal to  $e(0.845(\ln H)-1.702)$

Note (5) Pb less than or equal to  $e(1.273(\ln H)-4.705)$

Note (6) Ni less than or equal to  $e(0.846(\ln H)+0.0584)$

Note (7) Zn less than or equal to  $e(0.8473(\ln H)+0.884)$

**FIGURE 1**

TECHNICAL APPENDIX B

WMD PERMIT APPLICATION  
DESIGN REPORT

**ATTACHMENT B**

**STORMWATER MANAGEMENT FACILITY DESIGN REPORT  
SARASOTA COUNTY  
CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX SITE**

**PREPARED FOR:  
SARASOTA COUNTY**

**Prepared by:  
CAMP DRESSER & McKEE INC.  
201 Montgomery Avenue  
Sarasota, Florida 34243**

**May 1992**

### 3.0 STORMWATER MANAGEMENT FACILITIES DESIGN

#### 3.1 DESIGN OBJECTIVES

The design objectives for the stormwater management facilities design for the Sarasota County Central County Solid Waste Disposal Complex site are:

- Provide facilities for the capture, conveyance, storage and treatment of all runoff from the complex and appurtenant facilities. All stormwater facilities are sized for the 25-year, 24-hour duration design storm event. Treatment of stormwater runoff from the complex is designed to meet or exceed the requirements of Chapters 17-25 and 40D-4 F.A.C.
- Discharges from the County's property are controlled such that downstream peak discharge to the Cow Pen Slough and Cow Pen Slough Canal does not exceed that of existing conditions for the 25-year design storm event. Also, peak flood elevations in upstream off-site areas will not exceed pre-development flood elevations for the 25-year design event.
- No discharges from the complex facilities will enter the Myakka River drainage basin.
- Direct connections of the County's property to the Cow Pen Slough Canal are maintained to retain the same floodplain storage for the canal as exists today.
- Storage provided by the site stormwater management facilities, borrow pits, and wetland restoration areas will assure that the volume of discharge from the mean annual storm event will not exceed the predevelopment volume.

- Buffer of 50 feet or more from adjacent jurisdictional wetland lines is provided for all stormwater management facilities.
- Amenities to preserve, enhance, and/or restore existing wetlands on the County's property are incorporated in the stormwater management facilities design where possible. The stormwater management system is designed with the basic goals of preserving existing drainage patterns, preserving existing wetlands and upland buffers, mimicking the existing wetland hydroperiods, and providing compensation for wetland impacts and flood storage.

### 3.2 GENERAL DESCRIPTION

The stormwater management facilities design for the Sarasota County Central County Solid Waste Disposal Complex site is shown on Sheets 4 and 5. Detailed construction plans for the stormwater facilities are included as a separate attachment to this report.

In general, all stormwater runoff from the solid waste disposal complex (within the special exception area boundary) will be collected within perimeter ditches which encircle the entire complex and conveyed to seven stormwater treatment ponds. The perimeter ditches will be elevated above the natural grade with ditch bottoms at existing grade elevations. A perimeter berm will form the outer ditch bank and will have a minimum top width of 20 feet to provide access for maintenance of facilities. The perimeter ditches have been designed around several of the wetlands which abut or cross into the special exception area in order to minimize wetland impacts and/or provide buffer zones. In addition, ditch blocks will be constructed within the perimeter ditches at key locations to provide both pretreatment of stormwater runoff and storage of runoff during dry weather periods to be available for percolation and hydration of adjacent wetlands.

The seven stormwater treatment ponds are designed as wet detention treatment systems which will treat more than one inch of runoff from their respective contributing drainage areas. As such, each pond has been designed according to the criteria of Part B Basis of Review for Surface Water Management Permit Applications Within the Southwest Florida Water Management District. These ponds are designed to provide the required littoral zones, permanent pool volumes and depths, and bleed down orifices. The pond outfalls are designed to attenuate peak flows and convey discharges along existing drainage paths to preserve downstream wetlands. Spreader swales at 30 foot setbacks from jurisdictional lines will be used to minimize impacts to downstream wetlands at points of discharge.

Three (3) borrow pits totalling 278 acres will be excavated, as shown on Sheet 4, within the County's parcel to provide cover and fill material for construction of the solid waste disposal facilities. These borrow pits will be surrounded by a perimeter berm that will be elevated 2 feet above existing grade and serve to isolate the borrow pits entirely from the drainage basin (i.e. no surface water will enter or exit the borrow pits).

A 3.2-mile long access road, approximately 100 feet in total width, will be constructed from the intersection of Knights Trail Road and Rustic Road to the solid waste disposal complex site entrance. This access road will be elevated above the natural grade and will drain to either a median swale system or two side swales. The swales will be constructed with bottoms above the seasonal high water elevation. Elevated inlets and ditch blocks will store 1/2-inch of runoff from the roadway approximately 3-5 inches deep in the swale system to provide the required treatment volume for a dry retention treatment system. Percolation of the treatment volume into the elevated swale bottom will provide the mode of treatment.

The alignment of the access road will carry it across several water bodies, as shown in Sheets 4 and 5, and cross culverts will be constructed to maintain existing drainage paths at these locations. In addition, the roadway will fill in the breaks in the Cow Pen Slough Canal east

spoil bank at four locations. At each of these points, cross culverts will be constructed to maintain the floodplain connection between the site and the canal.

In an effort to restore the drastically altered wetlands along the Cow Pen Slough and Cow Pen Slough Canal, the stormwater management facilities design includes the construction or modification of structures which will rehydrate these wetlands and restore their natural hydroperiods. Two structures will be constructed on the north leg of the slough and one on the south leg at the south property line. These structures will dam the man-made channels with weirs set to impound water upstream at the natural wetland control elevation. The control structure on the south leg of the slough will include a containment berm that will impound excess floodwater during the 25-year design storm event and reduce downstream peak discharges to below predevelopment conditions. In addition, peak discharge of the north leg of the slough to the Cow Pen Slough Canal will be reduced for the design storm event. A second upstream check dam on the north leg of the slough will serve to rehydrate the upper slough system and minimize any potential dewatering affects of the adjacent borrow pits. Section 3.5 contains a more detailed description of the slough wetland restoration area.

The series of culverts which directly drain adjacent wetlands into the Cow Pen Slough Canal through the canal spoil banks will be modified by replacement of the riser inlet structures with standard FDOT inlets. The grate elevations of the new inlets will be set at the historical seasonal high water elevations of the drained wetlands.

### 3.3 STORMWATER MODEL - PROJECT CONDITIONS

The design of the stormwater management facilities for the Sarasota County Central County Solid Waste Disposal Complex site was accomplished through modification of the ADICPR model of the existing site drainage system (see Section 2.0) to reflect the developed site conditions.



The initial step of this process was to overlay the solid waste disposal complex site plan on the existing drainage basin map and calculate the changes in contributing drainage basin areas. The complex site and borrow pits will eliminate 21 isolated wetlands located within their perimeters. In addition, the drainage basins of 39 other wetlands will be reduced in size by the construction of the complex, borrow pits, ponds, and access road. Table 3-1 provides a summary of changes in acreages from the existing site drainage conditions model. It can be seen from this table that the total amount of directly contributing drainage area which will become a part of the disposal complex facilities is 591 acres, in addition to the 278 acres of borrow pit.

Table 3-2 provides a listing of the wetland node hydrologic data as modified to reflect the project conditions. In addition to changes in contributing drainage areas of wetland nodes, the disposal complex site facilities also result in changes to directly connected impervious area percentages, times of concentration, stage-storage relationships, and initial elevations, as input to the project conditions ADICPR model. Note in this table that the Cow Pen Slough Wetland Restoration Area is represented as Node 50 and incorporates all of the previously designated Nodes 43, 44, 45, 47, 48, 49, 49A, 127A and 128 into one area. This is not to be interpreted that these wetlands are to be eliminated.

The stormwater management facilities for the solid waste disposal complex (see Sheets 4 and 5) are added into the ADICPR model as shown schematically in Figure 3-1. The perimeter ditches of the complex site are represented as a series of nodes connected by open channels. Each node has a contributing drainage subbasin, as listed in Table 3-3. Runoff hydrographs from the subbasins are input to the respective perimeter ditch node (no associated storage) and routed to the seven stormwater treatment and attenuation ponds, as shown in Figure 3-1. Note in Table 3-3 that nodes and subbasins with the 'LF' prefix represent the Class I landfill, 'YLF' denotes the Class III landfill, and 'CPA' represents the compost area. In addition, the 'MY' subbasin is the maintenance yard, 'SF' is the entrance and scale facilities, and 'WWTP' is the leachate pretreatment and sludge dewatering facilities.

TABLE 3-1

**SUMMARY OF CONTRIBUTING DRAINAGE AREAS  
EXISTING VERSUS PROJECT CONDITIONS**

	Contributing Drainage Areas, ac	
	Existing Condition	Project Condition
Northern Offsite (ON1-ON23)	1429.7	1429.7
Southern Offsite (OS1-OS5)	383.6	383.6
West of Cow Pen Slough Canal	620.0	597.5
On-Site East of Cow Pen Slough Canal	3072.2	2312.3
Class I Landfill	----	293.5
Class III Landfill	----	54.2
Leachate Treatment & Sludge Dewatering Facilities	----	30.1
Compost Area, Scale Facilities, & Maintenance Yard	----	144.9
Wet Detention Ponds (Ponds 1-7)	----	67.9
Subtotal	----	590.6
Borrow Pit 1	----	144.3
Borrow Pit 2	----	109.2
Borrow Pit 3	----	25.0
Subtotal	----	278.5
	5505.5	5592.2*

\* NOTE: Total contributing drainage area increases under project condition because Borrow Pit 2 includes 86.7 acres on western property edge which does not presently drain to the Cow Pen Slough Canal.

**VOLUME I****SITE AND DEVELOPMENT PLAN APPLICATION****SARASOTA COUNTY****CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
(CCSWDC)****FEBRUARY 1994**

### 3.4 SOLID WASTE DISPOSAL COMPLEX STORMWATER MANAGEMENT FACILITIES

#### 3.4.1 CLASS I LANDFILL

The Class I landfill portion of the solid waste disposal complex site (294 acres) will split drainage areas between two stormwater treatment ponds, Pond 1 (16.9 acres) and Pond 2 (15.2 acres), as shown on Sheet 4. Stormwater runoff will be collected around the top perimeter of the 100-foot high landfill and conveyed by storm sewers down the steep sides of the landfill. Terraces on the sides of the landfill will be formed every 20 feet of vertical drop to collect runoff from the sideslopes and inlet to the storm sewer down pipes. These pipes will outfall at the base to the perimeter ditch system (see construction plans) which will then convey storm runoff to the treatment ponds.

Tables 3-4 and 3-5 list the pertinent design data for Ponds 1 and 2, respectively. As previously discussed, the outer bank of the perimeter ditch for the Class I landfill will be an elevated berm with a top of bank elevation of 26.0 feet. This berm will also act as a road for landfill construction vehicles and, along with the ponds, will be fully constructed prior to landfill activities. The interior berm for the ditch will be formed from the base of the landfill. The top elevation of this berm will be set approximately 2 feet above the outer berm. Thus, the primary stormwater management facilities will all be in place for the entire duration of landfill life. Refer to Table 3-3 for pertinent model input data for the Class I landfill.

TABLE 3-4  
POND 1 DESIGN DATA SUMMARY

FACILITY: Pond 1

CONTRIBUTING AREA: Class I Landfill

ACREAGE: 170.9ac (incl. pond)

<u>ELEVATION, ft.</u>	<u>AREA, ac</u>	<u>VOLUME, ac-ft.</u>	<u>NOTES</u>
12.5	7.96	0	Bottom
18.2	9.64	50.2	Begin Littoral Zone
20.1	12.18	70.9	Seasonal High Water (Wetland 64)
21.4	14.51	88.2	Treatment Elev.
26.0	16.57	159.7	Top of Bank (Inner)
26.0	16.9	159.7	Top of Bank (Outer)

LITTORAL ZONE: 18.2 to 21.4

ACREAGE: 4.87ac (40%)

INITIAL ELEVATION: 21.4

25-YEAR PEAK INFLOW, cfs: 520

25-YEAR PEAK OUTFLOW, cfs: 55

25-YEAR PEAK ELEVATION, ft.: 24.5

TREATMENT VOLUME: 17.3 ac. ft., 1.2 inches

DISCHARGE CULVERT INTO FACILITY: 2 - 5'X 8' BC INVERT ELEV: 17.5

OUTFALL STRUCTURE: FDOT Type "D" Inlet

BLEED DOWN: 9" diameter orifice INVERT ELEV: 20.1 50% BLEED DOWN TIME: 65.1 hrs

OVERFLOW: L=3' CREST ELEV: 21.4 (notch)  
L=11' CREST ELEV: 24.5 (grate)

DISCHARGE PIPE: 36" RCP INVERT ELEV: 19.0

SPREADER SWALE: L=150' CREST ELEV: 19.0

TABLE 3-4 (Continued)

## POND 1 BLEED DOWN RATE CALCULATION:

Elevation	Area, ac	Discharge Rate, cfs	Average Q, cfs	Incremental Volume, ac-ft	Incremental Time, hrs	Cumulative Time, hrs
21.4	14.51	2.04				0
			1.98	1.44	8.8	
21.3	14.33	1.93				8.8
			1.87	1.42	9.2	
21.2	14.15	1.81				18.0
			1.74	1.41	9.8	
21.1	13.97	1.68				27.8
			1.61	1.39	10.4	
21.0	13.79	1.54				38.2
			1.46	1.37	11.4	
20.9	13.61	1.39				49.6
			1.30	1.35	12.6	
20.8	13.43	1.21				62.2
			1.11	1.33	14.5	
20.7	13.25	1.01				76.7

50% Bleed Down Time: 65.1 hrs

TABLE 3-5  
POND 2 DESIGN DATA SUMMARY

FACILITY: Pond 2

CONTRIBUTING AREA: Class I Landfill

ACREAGE: 154.7ac (incl. pond)

<u>ELEVATION, ft.</u>	<u>AREA, ac</u>	<u>VOLUME, ac-ft.</u>	<u>NOTES</u>
10.5	6.73	0	Bottom
16.5	7.84	43.7	Begin Littoral Zone
18.3	11.13	60.8	Seasonal High Water (Wetland 82)
19.6	12.74	76.3	Treatment Elev.
26.0	14.76	164.3	Top of Bank (Inner)
26.0	15.2	164.3	Top of Bank (Outer)

LITTORAL ZONE: 16.5 to 19.6

ACREAGE: 4.90ac (44%)

INITIAL ELEVATION: 19.6

25-YEAR PEAK INFLOW, cfs: 473

25-YEAR PEAK OUTFLOW, cfs: 17

25-YEAR PEAK ELEVATION, ft.: 23.6

TREATMENT VOLUME: 15.5 ac. ft., 1.2 inches

DISCHARGE CULVERT INTO FACILITY: 2 - 5'X 6' BC INVERT ELEV: 17.5

OUTFALL STRUCTURE: FDOT Type "D" Inlet

BLEED DOWN: 8" diameter orifice INVERT ELEV: 18.3 50% BLEED DOWN TIME: 71.7 hrs

OVERFLOW:	<u>L=0.5'</u>	CREST ELEV:	<u>19.6 (notch)</u>
	<u>L=13.5'</u>	CREST ELEV:	<u>24.0 (grate)</u>

DISCHARGE PIPE:	<u>30" RCP</u>	INVERT ELEV:	<u>17.5</u>
-----------------	----------------	--------------	-------------

SPREADER SWALE:	<u>L=50'</u>	CREST ELEV:	<u>18.1</u>
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TABLE 3-5 (Continued)

## POND 2 BLEED DOWN RATE CALCULATION:

Elevation	Area, ac	Discharge Rate, cfs	Average Q, cfs	Incremental Volume, ac-ft	Incremental Time, hrs	Cumulative Time, hrs
19.6	12.74	1.65				0
			1.60	1.27	9.6	
19.5	12.62	1.56				9.6
			1.51	1.26	10.1	
19.4	12.49	1.47				19.7
			1.42	1.24	10.6	
19.3	12.37	1.37				30.3
			1.31	1.23	11.4	
19.2	12.24	1.26				41.7
			1.20	1.22	12.3	
19.1	12.12	1.15				54.0
			1.08	1.21	13.6	
19.0	12.00	1.02				67.6
			0.94	1.19	15.3	
18.9	11.88	0.87				82.9

50% Bleed Down Time: 71.7 hrs



As listed in Tables 3-4 and 3-5, the stormwater treatment ponds will also have a top of bank elevation of 26.0 feet and will provide wet detention treatment for 1.2 inches of runoff from their contributing drainage areas. The bleed down orifice invert elevation of Pond 1 is set at the seasonal high water (SHW) elevation of Wetland 64 of 20.1 feet and overflow at the control structure is at elevation 21.4 feet. Peak discharge to the Cow Pen Slough during the 25-year design storm event is 55 cfs at a pond elevation of 24.5 feet. Discharge will be evenly distributed over the 150-foot length of a spreader swale. The bleed down time for the 9-inch diameter orifice is calculated to be 65 hours for the initial 50 percent of the treatment volume.

The control elevation for Pond 2 is set at the Wetland 82 SHW elevation of 18.3 feet and overflow at the control structure is at elevation 19.6 feet. Peak discharge to Wetland 82 for the 25-year design storm event is 17 cfs at a pond elevation of 23.6 feet. Again, a 50-foot long spreader swale will be used to evenly distribute flow to the downstream wetland. The bleed down time for the 8-inch diameter orifice is calculated to be 72 hours for the first 50 percent of the treatment volume.

In addition to the treatment provided by the wet detention pond systems, there will be four ditch blocks constructed in the Class I landfill perimeter ditch to capture and percolate stormwater runoff up to 1 foot deep in the ditch (see construction plans for location of ditch blocks). This feature of the design will provide both pretreatment of runoff and serve as an additional source of recharge to the adjacent wetlands (Wetlands 56, 74, 77, 78, 82, 83, 88, 98, and 99) during dry weather periods.

#### 3.4.2 COMPOST AREA, MAINTENANCE YARD, AND ENTRANCE/SCALE FACILITIES

The compost area (133 acres), maintenance yard (6.6 acres), and entrance scale facilities (5.5 acres) portions of the solid waste disposal complex site will split drainage areas between three stormwater treatment ponds, Ponds 3, 4 and 5. The reason for splitting drainage into so many

## SECTION 7

### SURFACE WATER MANAGEMENT PLAN

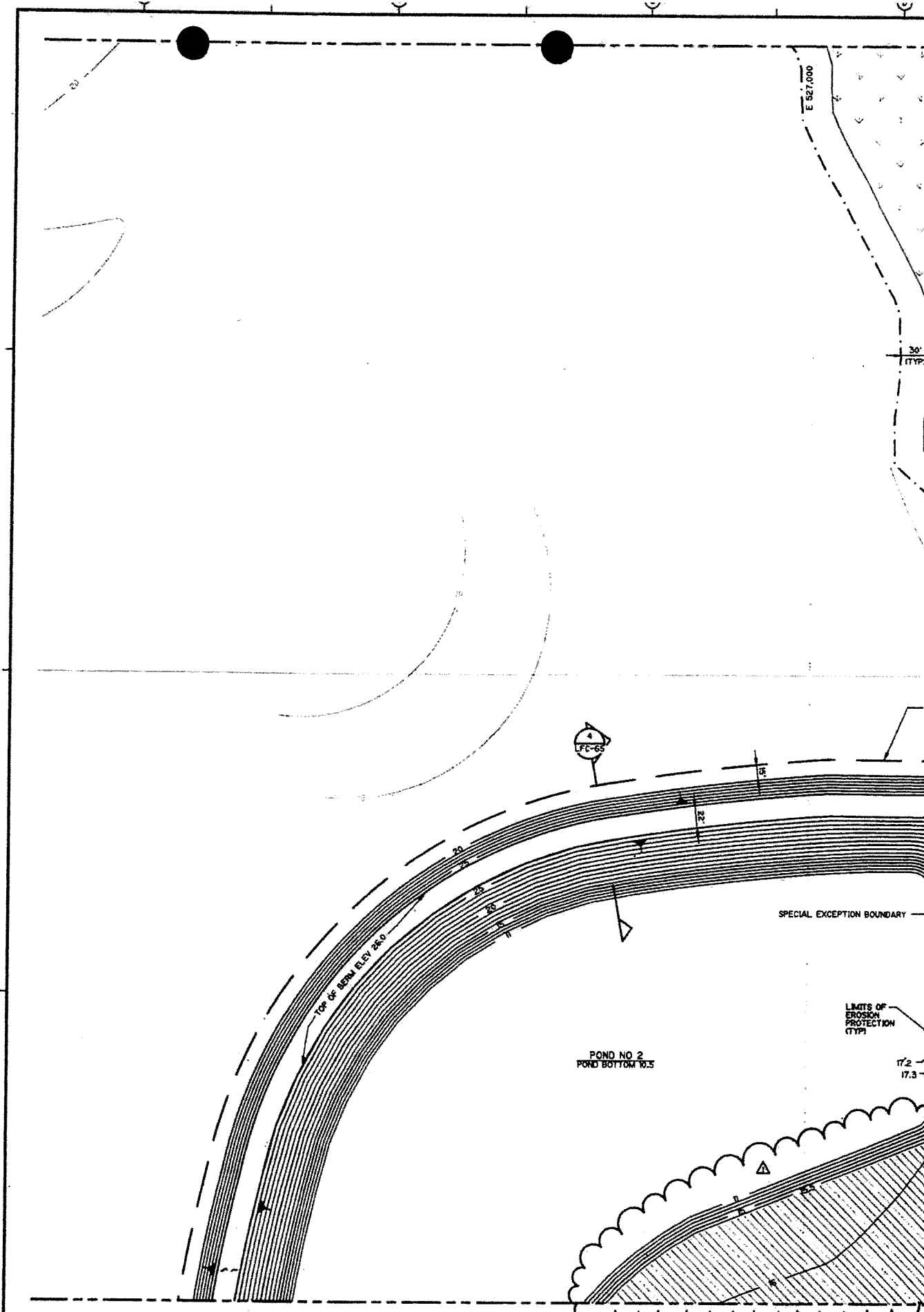
The following Surface Water Management Plan has been previously reviewed by the County staff. This document is excerpted from the Southwest Florida Water Management District Management (SWFWMD) Storage of Surface Water (MSSW) permit application dated May, 1992. Upon completion of review of this document by the Florida Department of Environmental Protection (FDEP) and the SWFWMD, FDEP issued Permit No. SC58-214931 on October 12, 1993 and the SWFWMD issued Permit No. 407932.01 on August 26, 1993 for construction of these facilities. Preliminary construction plans are available for review at the Sarasota County Solid Waste Department. Final construction plans will be submitted to the County prior to start of construction.

Additionally, the Soil Conservation Service 100-year flood plain mapping and profile for Cow Pen Slough are provided at the end of this section. The County recently updated this study with new modeling and mapping in 1993. These are provided in lieu of the FEMA map due to their more detailed and up-to-date nature.





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 03/PLC36



DESIGNED BY:	J. LADNER
DRAWN BY:	B. WILLIAMS
SHEET CHKD BY:	J. HOFFMAN
CROSS CHKD BY:	M. SPRINGS
APPROVED BY:	<i>[Signature]</i>
DATE:	MAY 1994

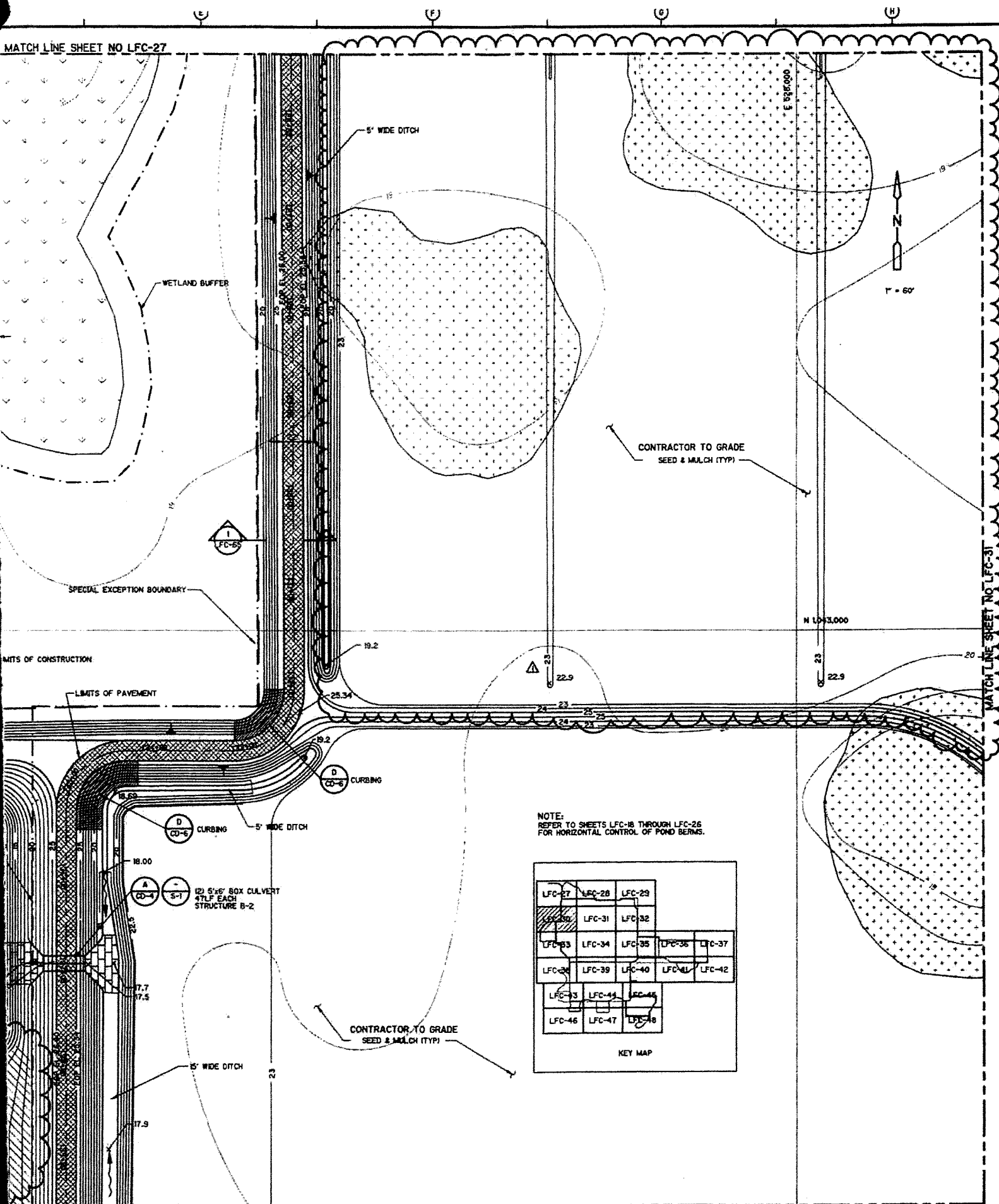
  

REV. NO.	DATE	DRWN	CHKD	REMARKS
1	7/96	SOA	7/96	CHANGE ORDER NO. 2
2	11/95	JMB		CONFORMED DRAWING

**CAMP DRESSER & MCKEE INC.**

environmental engineers, scientists,  
planners, & management consultants

**CDM**



CHANGE ORDER NO. 2

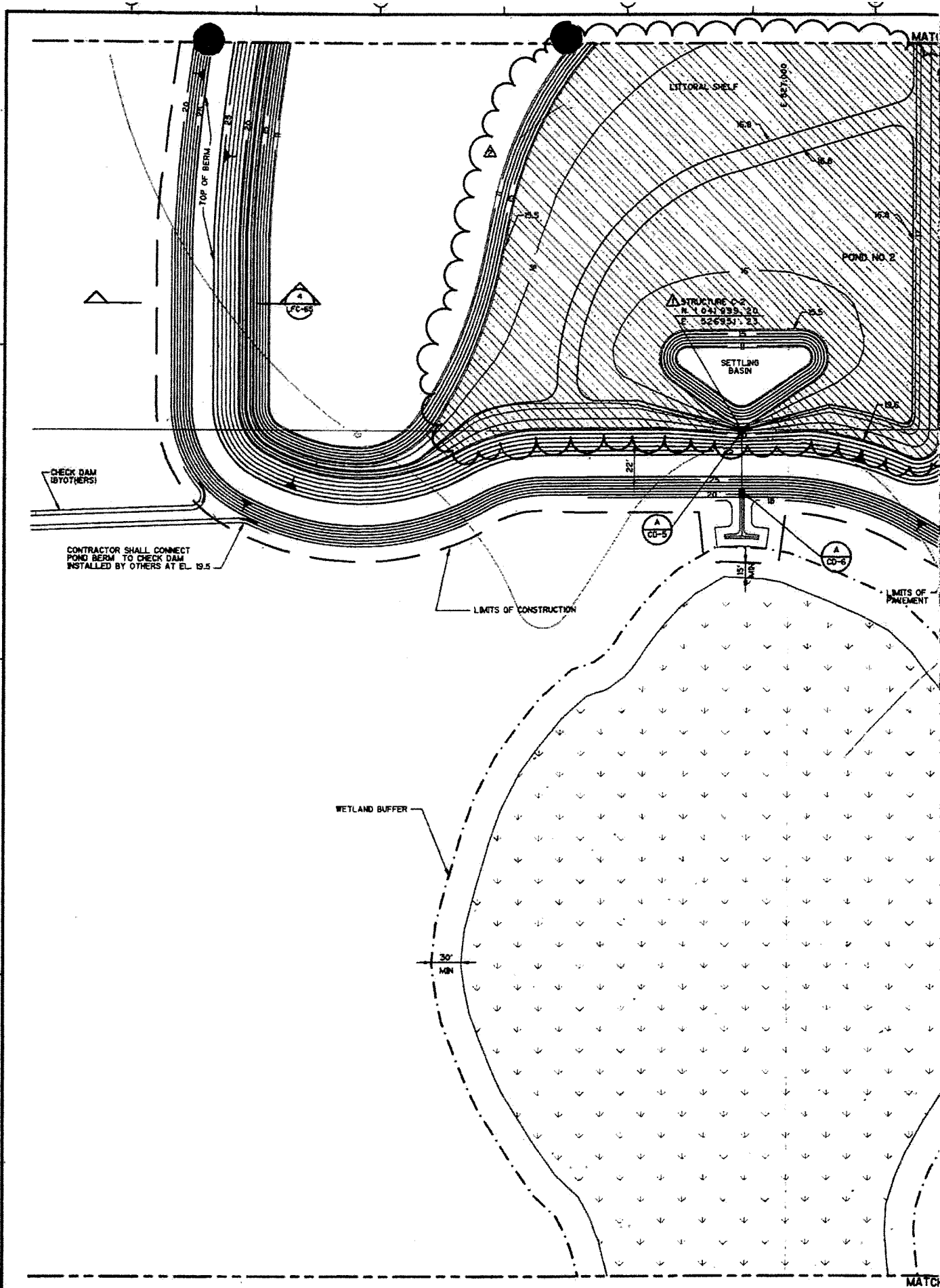
SARASOTA COUNTY, FLORIDA

CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
LANDFILL SITE WORK

PROPOSED GRADING AND PAVING

PROJECT NO.  
9250-58-CDM

SHEET NO.  
LFC-30

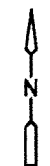


01/18/94-06/13/94 CDR

REV. NO.	DATE	ORIN	CHKD	REMARKS
1	7/96	SDA	ZAB	CHANGE ORDER NO. 2
2	11/96	JMB		CONFORMED DRAWING
3	12/94	JMB		ADDENDUM NO. 1

DESIGNED BY: J. LADNER	<b>CAMP DRESSER &amp; MCKEE INC.</b> <small>environmental engineers, planners, &amp; management consultants</small> <b>CDM</b>
DRAWN BY: B. WILLIAMS	
SHEET CHKD BY: J. HOFFMAN	
CROSS CHKD BY: W. SPRIGGS	
APPROVED BY: <i>[Signature]</i>	
DATE: MAY 1994	CE

N 1042.000

~~CONTRACTOR TO GRADE~~  
~~SEED & MULCH TYPE~~ $\gamma^* = 60^\circ$ 

DITCH BLOCK  
STA 143+95  
TOP 20.5


**D**  
**CONFIDENTIAL**

 **DEPARTMENT OF EDUCATION**

**--SPECIAL EXCEPTION BOUNDARY**



### LIMITS OF CONSTRUCTION.

 CURBING

15' WIDE DEPTH

CONTRACTOR TO GRADE  
— SEED & MULCH (TYP)

KEY MAP

NOTE:  
REFER TO SHEETS LFC - 18 THROUGH  
LFC - 26 FOR HORIZONTAL CONTROL  
OF POND BERMS.



**WANT TO GET AHEAD?**

## **CHANGE ORDER NO. 2**

**SARASOTA COUNTY, FLORIDA**

CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX  
LANDFILL SITE WORK

## PROPOSED GRADING AND PAVING

PROJECT NO.  
9250-55-CON

**SHEET NO.**  
**LFC-33**



November 16, 2011

Mr. Cesar Rodriquez  
Sarasota County  
1255 T. Mabry Carlton Parkway  
Venice, FL 34292

RE: Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Dear Mr. Rodriquez:

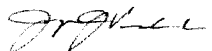
Enclosed are the analytical results for sample(s) received by the laboratory on November 02, 2011. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

Analysis performed by Benchmark, E84167, identified on the COC and report attached.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Joe Vondrick

joe.vondrick@pacelabs.com  
Project Manager

Enclosures

cc: Ms. Heather Bryen, Sarasota County  
Finance Dept., Sarasota County



## REPORT OF LABORATORY ANALYSIS

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## CERTIFICATIONS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

### Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174  
Alabama Certification #: 41320  
Arizona Certification #: AZ0735  
Colorado Certification: FL NELAC Reciprocity  
Connecticut Certification #: PH 0216  
Florida Certification #: E83079  
Georgia Certification #: 955  
Guam Certification: FL NELAC Reciprocity  
Hawaii Certification: FL NELAC Reciprocity  
Illinois Certification #: 200068  
Indiana Certification: FL NELAC Reciprocity  
Kansas Certification #: E-10383  
Kentucky Certification #: 90050  
Louisiana Certification #: FL NELAC Reciprocity  
Louisiana Environmental Certificate #: 05007  
Maine Certification #: FL01264  
Massachusetts Certification #: M-FL1264  
Michigan Certification #: 9911  
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236  
Montana Certification #: Cert 0074  
Nevada Certification: FL NELAC Reciprocity  
New Hampshire Certification #: 2958  
New Jersey Certification #: FL765  
New York Certification #: 11608  
North Carolina Environmental Certificate #: 667  
North Carolina Certification #: 12710  
Pennsylvania Certification #: 68-00547  
Puerto Rico Certification #: FL01264  
Tennessee Certification #: TN02974  
Texas Certification: FL NELAC Reciprocity  
U.S. Virgin Islands Certification: FL NELAC Reciprocity  
Virginia Certification #: 00432  
Virginia Environmental Certificate #: 460165  
Washington Certification #: C955  
Wyoming Certification: FL NELAC Reciprocity  
Wyoming (EPA Region 8): FL NELAC Reciprocity

### Green Bay Certification IDs

1241 Bellevue Street, Green Bay, WI 54302  
Florida/NELAP Certification #: E87948  
Illinois Certification #: 200050  
Kentucky Certification #: 82  
Louisiana Certification #: 04168  
Minnesota Certification #: 055-999-334  
New York Certification #: 11888

North Carolina Certification #: 503  
North Dakota Certification #: R-150  
South Carolina Certification #: 83006001  
US Dept of Agriculture #: S-76505  
Wisconsin Certification #: 405132750  
Wisconsin DATCP Certification #: 105-444

## REPORT OF LABORATORY ANALYSIS

## SAMPLE SUMMARY

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Lab ID	Sample ID	Matrix	Date Collected	Date Received
3542014001	Pond #1	Water	11/01/11 10:00	11/02/11 02:50
3542014002	Pond #2	Water	11/01/11 10:30	11/02/11 02:50
3542014003	Trip Blank	Water	11/01/11 08:00	11/02/11 02:50

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3542014001	Pond #1	EPA 1631E	GMW	1	PASI-G
			JJV	5	PASI-O
		EPA 8011	JLR	2	PASI-O
		EPA 6010	IST	13	PASI-O
		EPA 6020	HEA	8	PASI-O
		EPA 8260	ABD	49	PASI-O
		SM 2320B	AMD	3	PASI-O
		SM 2540C	MMD	1	PASI-O
		SM 2540D	MMD	1	PASI-O
		SM 5210B	KHC	1	PASI-O
		SM10200	LAJ	1	PASI-O
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	IRL	3	PASI-O
		EPA 300.0	IRL	1	PASI-O
		EPA 350.1	SOA	2	PASI-O
		EPA 351.2	MBS	1	PASI-O
		EPA 353.2	MBS	1	PASI-O
		EPA 365.4	MBS	1	PASI-O
		EPA 410.4	AAM	1	PASI-O
		SM 5310B	AIS	1	PASI-O
3542014002	Pond #2	EPA 1631E	GMW	1	PASI-G
			JJV	5	PASI-O
		EPA 8011	JLR	2	PASI-O
		EPA 6010	IST	13	PASI-O
		EPA 6020	HEA	8	PASI-O
		EPA 8260	ABD	49	PASI-O
		SM 2320B	AMD	3	PASI-O
		SM 2540C	MMD	1	PASI-O
		SM 2540D	MMD	1	PASI-O
		SM 5210B	KHC	1	PASI-O
		SM10200	LAJ	1	PASI-O
		TKN+NOx Calculation	AMD	1	PASI-O
		EPA 300.0	IRL	3	PASI-O
		EPA 300.0	IRL	1	PASI-O
		EPA 350.1	SOA	2	PASI-O
		EPA 351.2	MBS	1	PASI-O
		EPA 353.2	MBS	1	PASI-O

## REPORT OF LABORATORY ANALYSIS

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## SAMPLE ANALYTE COUNT

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
3542014003	Trip Blank	EPA 365.4	MBS	1	PASI-O
		EPA 410.4	AAM	1	PASI-O
		SM 5310B	AIS	1	PASI-O
		EPA 8260	ABD	49	PASI-O

## REPORT OF LABORATORY ANALYSIS

Page 5 of 43

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Pond #1      Lab ID: 3542014001      Collected: 11/01/11 10:00      Received: 11/02/11 02:50      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>1631E Mercury, Low Level</b> Analytical Method: EPA 1631E									
Mercury	0.000578	ug/L	0.00050	0.00013	1	11/09/11 07:30	11/10/11 15:14	7439-97-6	
<b>Field Data</b> Analytical Method:									
Field pH	6.71	Std. Units			1		11/01/11 10:00		
Field Temperature	19.87	deg C			1		11/01/11 10:00		
Field Specific Conductance	213	umhos/cm			1		11/01/11 10:00		
Oxygen, Dissolved	5.29	mg/L			1		11/01/11 10:00	7782-44-7	
Turbidity	1.00	NTU			1		11/01/11 10:00		
<b>8011 GCS EDB and DBCP</b> Analytical Method: EPA 8011      Preparation Method: EPA 8011									
1,2-Dibromo-3-chloropropane	0.0048U	ug/L	0.020	0.0048	1	11/02/11 11:00	11/03/11 06:32	96-12-8	
1,2-Dibromoethane (EDB)	0.0061U	ug/L	0.0099	0.0061	1	11/02/11 11:00	11/03/11 06:32	106-93-4	
<b>6010 MET ICP</b> Analytical Method: EPA 6010      Preparation Method: EPA 3010									
Antimony	5.0U	ug/L	15.0	5.0	1	11/03/11 06:30	11/04/11 05:43	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:43	7440-38-2	
Barium	9.5 I	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:43	7440-39-3	
Calcium	28.9	mg/L	0.50	0.25	1	11/03/11 06:30	11/04/11 05:43	7440-70-2	
Chromium	2.5U	ug/L	5.0	2.5	1	11/03/11 06:30	11/04/11 05:43	7440-47-3	
Cobalt	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:43	7440-48-4	
Iron	21.8 I	ug/L	40.0	20.0	1	11/03/11 06:30	11/04/11 05:43	7439-89-6	
Magnesium	5.3	mg/L	0.50	0.25	1	11/03/11 06:30	11/04/11 05:43	7439-95-4	
Nickel	2.5U	ug/L	5.0	2.5	1	11/03/11 06:30	11/04/11 05:43	7440-02-0	
Potassium	1.3	mg/L	1.0	0.50	1	11/03/11 06:30	11/04/11 05:43	7440-09-7	
Sodium	6.8	mg/L	1.0	0.50	1	11/03/11 06:30	11/04/11 05:43	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	94.1	mg/L	3.2	1.6	1	11/03/11 06:30	11/04/11 05:43		
Vanadium	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:43	7440-62-2	
<b>6020 MET ICPMS</b> Analytical Method: EPA 6020      Preparation Method: EPA 3010									
Beryllium	0.050U	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:37	7440-41-7	
Cadmium	0.050U	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:37	7440-43-9	
Copper	0.93U	ug/L	1.0	0.93	1	11/03/11 10:45	11/04/11 10:37	7440-50-8	
Lead	0.50U	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:37	7439-92-1	
Selenium	0.50U	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:37	7782-49-2	
Silver	0.050U	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:37	7440-22-4	
Thallium	0.50U	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:37	7440-28-0	
Zinc	2.6 I	ug/L	5.0	2.5	1	11/03/11 10:45	11/04/11 10:37	7440-66-6	
<b>8260 MSV</b> Analytical Method: EPA 8260									
Acetone	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	67-64-1	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	71-43-2	
Bromochloromethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	74-97-5	
Bromodichloromethane	0.27U	ug/L	0.60	0.27	1		11/04/11 08:35	75-27-4	

Date: 11/16/2011 03:28 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

Sample: Pond #1 Lab ID: 3542014001 Collected: 11/01/11 10:00 Received: 11/02/11 02:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Bromoform	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	74-83-9	
2-Butanone (MEK)	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	78-93-3	
Carbon disulfide	6.5 I	ug/L	10.0	5.0	1		11/04/11 08:35	75-15-0	V
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	56-23-5	
Chlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	108-90-7	
Chloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-00-3	
Chloroform	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	67-66-3	
Chloromethane	0.62U	ug/L	1.0	0.62	1		11/04/11 08:35	74-87-3	
Dibromochloromethane	0.26U	ug/L	0.50	0.26	1		11/04/11 08:35	124-48-1	
Dibromomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	74-95-3	
1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	95-50-1	
1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	106-46-7	
trans-1,4-Dichloro-2-butene	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	110-57-6	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	107-06-2	
1,1-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-35-4	
cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	156-59-2	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	78-87-5	
cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/04/11 08:35	10061-01-5	
trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/04/11 08:35	10061-02-6	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	100-41-4	
2-Hexanone	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	591-78-6	
Iodomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	74-88-4	
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		11/04/11 08:35	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0U	ug/L	10.0	5.0	1		11/04/11 08:35	108-10-1	
Styrene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	100-42-5	
1,1,1,2-Tetrachloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	630-20-6	
1,1,2,2-Tetrachloroethane	0.12U	ug/L	0.50	0.12	1		11/04/11 08:35	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	79-01-6	
Trichlorofluoromethane	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-69-4	
1,2,3-Trichloropropane	0.36U	ug/L	0.50	0.36	1		11/04/11 08:35	96-18-4	J(L2)
Vinyl acetate	1.0U	ug/L	2.0	1.0	1		11/04/11 08:35	108-05-4	
Vinyl chloride	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	75-01-4	
Xylene (Total)	0.50U	ug/L	1.0	0.50	1		11/04/11 08:35	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	91	%	70-114		1		11/04/11 08:35	460-00-4	
Dibromofluoromethane (S)	94	%	88-117		1		11/04/11 08:35	1868-53-7	
1,2-Dichloroethane-d4 (S)	95	%	86-125		1		11/04/11 08:35	17060-07-0	
Toluene-d8 (S)	103	%	87-113		1		11/04/11 08:35	2037-26-5	

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Pond #1		Lab ID: 3542014001		Collected: 11/01/11 10:00		Received: 11/02/11 02:50		Matrix: Water	
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>		Analytical Method: SM 2320B							
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	72.1	mg/L	5.0	5.0	1		11/09/11 12:21		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	5.0U	mg/L	5.0	5.0	1		11/09/11 12:21		
Alkalinity, Total as CaCO <sub>3</sub>	72.1	mg/L	5.0	5.0	1		11/09/11 12:21		
<b>2540C Total Dissolved Solids</b>		Analytical Method: SM 2540C							
Total Dissolved Solids	135	mg/L	5.0	5.0	1		11/02/11 10:24		
<b>2540D Total Suspended Solids</b>		Analytical Method: SM 2540D							
Total Suspended Solids	5.0U	mg/L	5.0	5.0	1		11/02/11 10:30		
<b>5210B BOD, 5 day</b>		Analytical Method: SM 5210B							
BOD, 5 day	3.0U	mg/L	3.0	3.0	1.5	11/02/11 07:45	11/07/11 12:43		J(B2)
<b>Chlorophyll &amp; Pheophytin</b>		Analytical Method: SM10200 Preparation Method: SM10200							
Chlorophyll a	4.3	ug/L	1.0	1.0	1	11/02/11 09:15	11/15/11 15:03		
<b>Total Nitrogen Calculation</b>		Analytical Method: TKN+NO <sub>x</sub> Calculation							
Total Nitrogen	0.90	mg/L	0.50	0.25	1		11/16/11 11:22		
<b>300.0 IC Anions</b>		Analytical Method: EPA 300.0							
Nitrate as N	0.025U	mg/L	0.050	0.025	1		11/02/11 12:18	14797-55-8	
Nitrite as N	0.025U	mg/L	0.050	0.025	1		11/02/11 12:18	14797-65-0	
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	0.025U	mg/L	0.050	0.025	1		11/02/11 12:18		
<b>300.0 IC Anions 28 Days</b>		Analytical Method: EPA 300.0							
Sulfate	20.8	mg/L	5.0	2.5	1		11/02/11 12:18	14808-79-8	
<b>350.1 Ammonia</b>		Analytical Method: EPA 350.1							
Nitrogen, Ammonia	0.020U	mg/L	0.050	0.020	1		11/10/11 12:40	7664-41-7	
Nitrogen, Ammonia (Unionized)	0.020U	mg/L	0.050	0.020	1		11/10/11 12:40		
<b>351.2 Total Kjeldahl Nitrogen</b>		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2							
Nitrogen, Kjeldahl, Total	0.90	mg/L	0.50	0.086	1	11/08/11 09:15	11/09/11 11:07	7727-37-9	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>		Analytical Method: EPA 353.2							
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	0.025U	mg/L	0.050	0.025	1		11/08/11 09:37		
<b>365.4 Phosphorus, Total</b>		Analytical Method: EPA 365.4 Preparation Method: EPA 365.4							
Phosphorus, Total (as P)	0.076	I mg/L	0.10	0.050	1	11/08/11 09:15	11/09/11 11:07	7723-14-0	
<b>410.4 COD</b>		Analytical Method: EPA 410.4							
Chemical Oxygen Demand	48.7	mg/L	20.0	12.5	1		11/02/11 15:13		



## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

<b>Sample: Pond #1</b>		<b>Lab ID: 3542014001</b>	Collected: 11/01/11 10:00		Received: 11/02/11 02:50		Matrix: Water		
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310B TOC</b>		Analytical Method: SM 5310B							
Total Organic Carbon	14.6	mg/L	1.0	0.50	1		11/04/11 14:57	7440-44-0	

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

Sample: Pond #2		Lab ID: 3542014002	Collected: 11/01/11 10:30	Received: 11/02/11 02:50	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>1631E Mercury, Low Level</b>		Analytical Method: EPA 1631E							
Mercury	0.00120	ug/L	0.00050	0.00013	1	11/09/11 07:30	11/10/11 15:25	7439-97-6	
<b>Field Data</b>		Analytical Method:							
Field pH	7.31	Std. Units			1		11/01/11 10:30		
Field Temperature	21.31	deg C			1		11/01/11 10:30		
Field Specific Conductance	366	umhos/cm			1		11/01/11 10:30		
Oxygen, Dissolved	6.58	mg/L			1		11/01/11 10:30	7782-44-7	
Turbidity	7.87	NTU			1		11/01/11 10:30		
<b>8011 GCS EDB and DBCP</b>		Analytical Method: EPA 8011 Preparation Method: EPA 8011							
1,2-Dibromo-3-chloropropane	0.0050U	ug/L	0.021	0.0050	1	11/02/11 11:00	11/03/11 06:47	96-12-8	
1,2-Dibromoethane (EDB)	0.0064U	ug/L	0.010	0.0064	1	11/02/11 11:00	11/03/11 06:47	106-93-4	
<b>6010 MET ICP</b>		Analytical Method: EPA 6010 Preparation Method: EPA 3010							
Antimony	5.0U	ug/L	15.0	5.0	1	11/03/11 06:30	11/04/11 05:47	7440-36-0	
Arsenic	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:47	7440-38-2	
Barium	14.9	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:47	7440-39-3	
Calcium	43.4	mg/L	0.50	0.25	1	11/03/11 06:30	11/04/11 05:47	7440-70-2	
Chromium	2.5U	ug/L	5.0	2.5	1	11/03/11 06:30	11/04/11 05:47	7440-47-3	
Cobalt	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:47	7440-48-4	
Iron	162	ug/L	40.0	20.0	1	11/03/11 06:30	11/04/11 05:47	7439-89-6	
Magnesium	7.1	mg/L	0.50	0.25	1	11/03/11 06:30	11/04/11 05:47	7439-95-4	
Nickel	2.5U	ug/L	5.0	2.5	1	11/03/11 06:30	11/04/11 05:47	7440-02-0	
Potassium	25.3	mg/L	1.0	0.50	1	11/03/11 06:30	11/04/11 05:47	7440-09-7	
Sodium	10.2	mg/L	1.0	0.50	1	11/03/11 06:30	11/04/11 05:47	7440-23-5	
Tot Hardness asCaCO3 (SM 2340B	138	mg/L	3.2	1.6	1	11/03/11 06:30	11/04/11 05:47		
Vanadium	5.0U	ug/L	10.0	5.0	1	11/03/11 06:30	11/04/11 05:47	7440-62-2	
<b>6020 MET ICPMS</b>		Analytical Method: EPA 6020 Preparation Method: EPA 3010							
Beryllium	0.050U	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:48	7440-41-7	
Cadmium	0.15	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:48	7440-43-9	
Copper	0.93U	ug/L	1.0	0.93	1	11/03/11 10:45	11/04/11 10:48	7440-50-8	
Lead	1.2	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:48	7439-92-1	
Selenium	0.50U	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:48	7782-49-2	
Silver	0.050U	ug/L	0.10	0.050	1	11/03/11 10:45	11/04/11 10:48	7440-22-4	
Thallium	0.50U	ug/L	1.0	0.50	1	11/03/11 10:45	11/04/11 10:48	7440-28-0	
Zinc	2.7 I	ug/L	5.0	2.5	1	11/03/11 10:45	11/04/11 10:48	7440-66-6	
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Acetone	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	67-64-1	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	71-43-2	
Bromochloromethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	74-97-5	
Bromodichloromethane	0.27U	ug/L	0.60	0.27	1		11/07/11 18:22	75-27-4	

Date: 11/16/2011 03:28 PM

## REPORT OF LABORATORY ANALYSIS

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Pond #2 Lab ID: 3542014002 Collected: 11/01/11 10:30 Received: 11/02/11 02:50 Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
Bromoform	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	74-83-9	
2-Butanone (MEK)	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	78-93-3	
Carbon disulfide	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	75-15-0	
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	56-23-5	
Chlorobenzene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	108-90-7	
Chloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-00-3	
Chloroform	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	67-66-3	
Chloromethane	0.62U	ug/L	1.0	0.62	1		11/07/11 18:22	74-87-3	
Dibromochloromethane	0.26U	ug/L	0.50	0.26	1		11/07/11 18:22	124-48-1	
Dibromomethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	74-95-3	
1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	95-50-1	
1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	106-46-7	
trans-1,4-Dichloro-2-butene	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	110-57-6	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	107-06-2	
1,1-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-35-4	
cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	156-59-2	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	78-87-5	
cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/07/11 18:22	10061-01-5	
trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/07/11 18:22	10061-02-6	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	100-41-4	
2-Hexanone	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	591-78-6	
Iodomethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	74-88-4	
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		11/07/11 18:22	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0U	ug/L	10.0	5.0	1		11/07/11 18:22	108-10-1	
Styrene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	100-42-5	
1,1,1,2-Tetrachloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	630-20-6	
1,1,2,2-Tetrachloroethane	0.12U	ug/L	0.50	0.12	1		11/07/11 18:22	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	127-18-4	
Toluene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	79-01-6	
Trichlorofluoromethane	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-69-4	
1,2,3-Trichloropropane	0.36U	ug/L	0.50	0.36	1		11/07/11 18:22	96-18-4	
Vinyl acetate	1.0U	ug/L	2.0	1.0	1		11/07/11 18:22	108-05-4	
Vinyl chloride	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	75-01-4	
Xylene (Total)	0.50U	ug/L	1.0	0.50	1		11/07/11 18:22	1330-20-7	
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	105 %		70-114		1		11/07/11 18:22	460-00-4	
Dibromofluoromethane (S)	101 %		88-117		1		11/07/11 18:22	1868-53-7	
1,2-Dichloroethane-d4 (S)	100 %		86-125		1		11/07/11 18:22	17060-07-0	
Toluene-d8 (S)	103 %		87-113		1		11/07/11 18:22	2037-26-5	

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Pond #2		Lab ID: 3542014002	Collected: 11/01/11 10:30	Received: 11/02/11 02:50	Matrix: Water				
Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>2320B Alkalinity</b>	Analytical Method: SM 2320B								
Alkalinity, Bicarbonate (CaCO <sub>3</sub> )	126	mg/L	5.0	5.0	1		11/09/11 12:27		
Alkalinity, Carbonate (CaCO <sub>3</sub> )	5.0U	mg/L	5.0	5.0	1		11/09/11 12:27		
Alkalinity, Total as CaCO <sub>3</sub>	126	mg/L	5.0	5.0	1		11/09/11 12:27		
<b>2540C Total Dissolved Solids</b>	Analytical Method: SM 2540C								
Total Dissolved Solids	220	mg/L	5.0	5.0	1		11/03/11 10:00		
<b>2540D Total Suspended Solids</b>	Analytical Method: SM 2540D								
Total Suspended Solids	12.5	mg/L	5.0	5.0	1		11/02/11 10:30		
<b>5210B BOD, 5 day</b>	Analytical Method: SM 5210B								
BOD, 5 day	4.5	mg/L	2.0	2.0	1	11/02/11 07:45	11/07/11 12:46		
<b>Chlorophyll &amp; Pheophytin</b>	Analytical Method: SM10200 Preparation Method: SM10200								
Chlorophyll a	46.2	ug/L	1.0	1.0	1	11/02/11 09:15	11/15/11 15:03		
<b>Total Nitrogen Calculation</b>	Analytical Method: TKN+NO <sub>x</sub> Calculation								
Total Nitrogen	1.6	mg/L	0.50	0.25	1		11/16/11 11:22		
<b>300.0 IC Anions</b>	Analytical Method: EPA 300.0								
Nitrate as N	0.025U	mg/L	0.050	0.025	1		11/02/11 12:30	14797-55-8	
Nitrite as N	0.025U	mg/L	0.050	0.025	1		11/02/11 12:30	14797-65-0	
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	0.025U	mg/L	0.050	0.025	1		11/02/11 12:30		
<b>300.0 IC Anions 28 Days</b>	Analytical Method: EPA 300.0								
Sulfate	10.9	mg/L	5.0	2.5	1		11/02/11 12:30	14808-79-8	
<b>350.1 Ammonia</b>	Analytical Method: EPA 350.1								
Nitrogen, Ammonia	0.020U	mg/L	0.050	0.020	1		11/10/11 12:42	7664-41-7	
Nitrogen, Ammonia (Unionized)	0.020U	mg/L	0.050	0.020	1		11/10/11 12:42		
<b>351.2 Total Kjeldahl Nitrogen</b>	Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	1.6	mg/L	0.50	0.086	1	11/08/11 09:15	11/09/11 13:01	7727-37-9	
<b>353.2 Nitrogen, NO<sub>2</sub>/NO<sub>3</sub> pres.</b>	Analytical Method: EPA 353.2								
Nitrogen, NO <sub>2</sub> plus NO <sub>3</sub>	0.025U	mg/L	0.050	0.025	1		11/08/11 09:41		
<b>365.4 Phosphorus, Total</b>	Analytical Method: EPA 365.4 Preparation Method: EPA 365.4								
Phosphorus, Total (as P)	0.52	mg/L	0.10	0.050	1	11/08/11 09:15	11/09/11 13:01	7723-14-0	
<b>410.4 COD</b>	Analytical Method: EPA 410.4								
Chemical Oxygen Demand	64.1	mg/L	20.0	12.5	1		11/02/11 15:13		

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

**Sample: Pond #2**      **Lab ID: 3542014002**      Collected: 11/01/11 10:30      Received: 11/02/11 02:50      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>5310B TOC</b> Analytical Method: SM 5310B									
Total Organic Carbon	15.1	mg/L	1.0	0.50	1		11/04/11 15:47	7440-44-0	

## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Trip Blank      Lab ID: 3542014003      Collected: 11/01/11 08:00      Received: 11/02/11 02:50      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b>		Analytical Method: EPA 8260							
Acetone	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	67-64-1	
Acrylonitrile	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	107-13-1	
Benzene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	71-43-2	
Bromochloromethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	74-97-5	
Bromodichloromethane	0.27U	ug/L	0.60	0.27	1		11/04/11 02:28	75-27-4	
Bromoform	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-25-2	
Bromomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	74-83-9	
2-Butanone (MEK)	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	78-93-3	
Carbon disulfide	9.8 I	ug/L	10.0	5.0	1		11/04/11 02:28	75-15-0	V
Carbon tetrachloride	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	56-23-5	
Chlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	108-90-7	
Chloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-00-3	
Chloroform	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	67-66-3	
Chloromethane	0.62U	ug/L	1.0	0.62	1		11/04/11 02:28	74-87-3	
Dibromochloromethane	0.26U	ug/L	0.50	0.26	1		11/04/11 02:28	124-48-1	
Dibromomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	74-95-3	
1,2-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	95-50-1	
1,4-Dichlorobenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	106-46-7	
trans-1,4-Dichloro-2-butene	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	110-57-6	
1,1-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-34-3	
1,2-Dichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	107-06-2	
1,1-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-35-4	
cis-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	156-59-2	
trans-1,2-Dichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	156-60-5	
1,2-Dichloropropane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	78-87-5	
cis-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/04/11 02:28	10061-01-5	
trans-1,3-Dichloropropene	0.25U	ug/L	0.50	0.25	1		11/04/11 02:28	10061-02-6	
Ethylbenzene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	100-41-4	
2-Hexanone	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	591-78-6	
Iodomethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	74-88-4	
Methylene Chloride	2.5U	ug/L	5.0	2.5	1		11/04/11 02:28	75-09-2	
4-Methyl-2-pentanone (MIBK)	5.0U	ug/L	10.0	5.0	1		11/04/11 02:28	108-10-1	
Styrene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	100-42-5	
1,1,1,2-Tetrachloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	630-20-6	
1,1,2,2-Tetrachloroethane	0.12U	ug/L	0.50	0.12	1		11/04/11 02:28	79-34-5	
Tetrachloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	127-18-4	
Toluene	0.50 I	ug/L	1.0	0.50	1		11/04/11 02:28	108-88-3	
1,1,1-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	71-55-6	
1,1,2-Trichloroethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	79-00-5	
Trichloroethene	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	79-01-6	
Trichlorofluoromethane	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-69-4	
1,2,3-Trichloropropane	0.36U	ug/L	0.50	0.36	1		11/04/11 02:28	96-18-4	J(L2)
Vinyl acetate	1.0U	ug/L	2.0	1.0	1		11/04/11 02:28	108-05-4	
Vinyl chloride	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	75-01-4	
Xylene (Total)	0.50U	ug/L	1.0	0.50	1		11/04/11 02:28	1330-20-7	

Date: 11/16/2011 03:28 PM

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## ANALYTICAL RESULTS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

Sample: Trip Blank      Lab ID: 3542014003      Collected: 11/01/11 08:00      Received: 11/02/11 02:50      Matrix: Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
<b>8260 MSV</b> Analytical Method: EPA 8260									
<b>Surrogates</b>									
4-Bromofluorobenzene (S)	98 %		70-114		1		11/04/11 02:28	460-00-4	
Dibromofluoromethane (S)	99 %		88-117		1		11/04/11 02:28	1868-53-7	
1,2-Dichloroethane-d4 (S)	97 %		86-125		1		11/04/11 02:28	17060-07-0	
Toluene-d8 (S)	102 %		87-113		1		11/04/11 02:28	2037-26-5	

### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: CVFS/2845 Analysis Method: EPA 1631E  
QC Batch Method: EPA 1631E Analysis Description: 1631E Mercury  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 531860 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.00013U	0.00050	11/10/11 11:46	

METHOD BLANK: 531861 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.00013U	0.00050	11/10/11 13:43	

METHOD BLANK: 531862 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	ug/L	0.00013U	0.00050	11/10/11 15:00	

LABORATORY CONTROL SAMPLE & LCSD: 531863 531864

Parameter	Units	Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits	RPD	Max RPD	Qualifiers
Mercury	ug/L	.005	0.00494	0.00458	99	92	79-121	8	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 532641 532642

Parameter	Units	4053191003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	3.33 ng/L	.01	.01	0.0129	0.0120	96	87	75-125	7	24	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 532643 532644

Parameter	Units	4053195002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Mercury	ug/L	2.68 ng/L	.01	.01	0.0122	0.0126	95	99	75-125	3	24	



## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: MPRP/6300 Analysis Method: EPA 6010  
QC Batch Method: EPA 3010 Analysis Description: 6010 MET  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 283222 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Antimony	ug/L	5.0U	15.0	11/04/11 04:58	
Arsenic	ug/L	5.0U	10.0	11/04/11 04:58	
Barium	ug/L	5.0U	10.0	11/04/11 04:58	
Calcium	mg/L	0.25U	0.50	11/04/11 04:58	
Chromium	ug/L	2.5U	5.0	11/04/11 04:58	
Cobalt	ug/L	5.0U	10.0	11/04/11 04:58	
Iron	ug/L	20.0U	40.0	11/04/11 04:58	
Magnesium	mg/L	0.25U	0.50	11/04/11 04:58	
Nickel	ug/L	2.5U	5.0	11/04/11 04:58	
Potassium	mg/L	0.50U	1.0	11/04/11 04:58	
Sodium	mg/L	0.50U	1.0	11/04/11 04:58	
Tot Hardness asCaCO3 (SM 2340B	mg/L	1.6U	3.2	11/04/11 04:58	
Vanadium	ug/L	5.0U	10.0	11/04/11 04:58	

LABORATORY CONTROL SAMPLE: 283223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Antimony	ug/L	250	249	100	80-120	
Arsenic	ug/L	250	247	99	80-120	
Barium	ug/L	250	268	107	80-120	
Calcium	mg/L	12.5	13.5	108	80-120	
Chromium	ug/L	250	265	106	80-120	
Cobalt	ug/L	250	263	105	80-120	
Iron	ug/L	2500	2740	109	80-120	
Magnesium	mg/L	12.5	13.7	109	80-120	
Nickel	ug/L	250	267	107	80-120	
Potassium	mg/L	12.5	13.4	107	80-120	
Sodium	mg/L	12.5	13.5	108	80-120	
Tot Hardness asCaCO3 (SM 2340B	mg/L		90.0			
Vanadium	ug/L	250	265	106	80-120	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283224 283225

Parameter	Units	3542024001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Antimony	ug/L	5.0U	250	250	253	256	101	102	75-125	1	20
Arsenic	ug/L	20.8	250	250	276	275	102	102	75-125	.3	20
Barium	ug/L	56.1	250	250	322	328	106	109	75-125	2	20
Calcium	mg/L	186000	12.5	12.5	210	206	190	166	75-125	1	20 J(M1)

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### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283224											
283225											
Parameter	Units	3542024001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Chromium	ug/L	3.9 I	250	250	261	267	103	105	75-125	2	20
Cobalt	ug/L	5.0U	250	250	260	260	104	104	75-125	.08	20
Iron	ug/L	6960	2500	2500	9980	9560	121	104	75-125	4	20
Magnesium	mg/L	1020	12.5	12.5	14.2	14.4	105	107	75-125	1	20
Nickel	ug/L	2.5U	250	250	257	262	102	104	75-125	2	20
Potassium	mg/L	681 I	12.5	12.5	14.5	14.6	110	111	75-125	.7	20
Sodium	mg/L	6690	12.5	12.5	20.7	21.1	112	115	75-125	2	20
Tot Hardness asCaCO3 (SM 2340B	mg/L	468000			582	575				1	20
Vanadium	ug/L	5.0U	250	250	263	270	104	107	75-125	3	20

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: MPRP/6306 Analysis Method: EPA 6020  
QC Batch Method: EPA 3010 Analysis Description: 6020 MET  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 283727 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Beryllium	ug/L	0.050U	0.10	11/04/11 10:13	
Cadmium	ug/L	0.050U	0.10	11/04/11 10:13	
Copper	ug/L	0.93U	1.0	11/04/11 10:13	
Lead	ug/L	0.50U	1.0	11/04/11 10:13	
Selenium	ug/L	0.50U	1.0	11/04/11 10:13	
Silver	ug/L	0.050U	0.10	11/04/11 10:13	
Thallium	ug/L	0.50U	1.0	11/04/11 10:13	
Zinc	ug/L	2.5U	5.0	11/04/11 10:13	

LABORATORY CONTROL SAMPLE: 283728

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Beryllium	ug/L	5	4.9	99	90-110	
Cadmium	ug/L	5	5.3	107	90-110	
Copper	ug/L	50	53.5	107	90-110	
Lead	ug/L	50	49.8	100	90-110	
Selenium	ug/L	50	49.1	98	90-110	
Silver	ug/L	5	5.2	105	90-110	
Thallium	ug/L	50	50.0	100	90-110	
Zinc	ug/L	250	263	105	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283729 283730

Parameter	Units	3542090001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Beryllium	ug/L	2.5U	250	250	224	232	90	93	70-130	4	20
Cadmium	ug/L	2.5U	250	250	255	259	102	104	70-130	2	20
Copper	ug/L	217	2500	2500	2820	2830	104	105	70-130	.3	20
Lead	ug/L	25.0U	2500	2500	2450	2460	98	98	70-130	.4	20
Selenium	ug/L	25.0U	2500	2500	2380	2320	95	93	70-130	3	20
Silver	ug/L	1.9	250	250	2150	2180	112	125	70-130	2	20
Thallium	ug/L	25.0U	2500	2500	2450	2470	98	99	70-130	.8	20
Zinc	ug/L	634	12500	12500	13700	13800	105	105	70-130	.4	20

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: MSV/4055 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 3542014001, 3542014003

METHOD BLANK: 284144 Matrix: Water

Associated Lab Samples: 3542014001, 3542014003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	11/04/11 01:39	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
1,1-Dichloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
1,1-Dichloroethene	ug/L	0.50U	1.0	11/04/11 01:39	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	11/04/11 01:39	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	11/04/11 01:39	
1,2-Dichloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
1,2-Dichloropropane	ug/L	0.50U	1.0	11/04/11 01:39	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	11/04/11 01:39	
2-Butanone (MEK)	ug/L	5.0U	10.0	11/04/11 01:39	
2-Hexanone	ug/L	5.0U	10.0	11/04/11 01:39	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	11/04/11 01:39	
Acetone	ug/L	5.0U	10.0	11/04/11 01:39	
Acrylonitrile	ug/L	5.0U	10.0	11/04/11 01:39	
Benzene	ug/L	0.50U	1.0	11/04/11 01:39	
Bromochloromethane	ug/L	0.50U	1.0	11/04/11 01:39	
Bromodichloromethane	ug/L	0.27U	0.60	11/04/11 01:39	
Bromoform	ug/L	0.50U	1.0	11/04/11 01:39	
Bromomethane	ug/L	0.50U	1.0	11/04/11 01:39	
Carbon disulfide	ug/L	10.9	10.0	11/04/11 01:39	
Carbon tetrachloride	ug/L	0.50U	1.0	11/04/11 01:39	
Chlorobenzene	ug/L	0.50U	1.0	11/04/11 01:39	
Chloroethane	ug/L	0.50U	1.0	11/04/11 01:39	
Chloroform	ug/L	0.50U	1.0	11/04/11 01:39	
Chloromethane	ug/L	0.62U	1.0	11/04/11 01:39	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	11/04/11 01:39	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	11/04/11 01:39	
Dibromochloromethane	ug/L	0.26U	0.50	11/04/11 01:39	
Dibromomethane	ug/L	0.50U	1.0	11/04/11 01:39	
Ethylbenzene	ug/L	0.50U	1.0	11/04/11 01:39	
Iodomethane	ug/L	0.50U	1.0	11/04/11 01:39	
Methylene Chloride	ug/L	2.5U	5.0	11/04/11 01:39	
Styrene	ug/L	0.50U	1.0	11/04/11 01:39	
Tetrachloroethene	ug/L	0.50U	1.0	11/04/11 01:39	
Toluene	ug/L	0.50U	1.0	11/04/11 01:39	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	11/04/11 01:39	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	11/04/11 01:39	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	11/04/11 01:39	
Trichloroethene	ug/L	0.50U	1.0	11/04/11 01:39	
Trichlorofluoromethane	ug/L	0.50U	1.0	11/04/11 01:39	
Vinyl acetate	ug/L	1.0U	2.0	11/04/11 01:39	

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## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

METHOD BLANK: 284144 Matrix: Water

Associated Lab Samples: 3542014001, 3542014003

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	0.50U	1.0	11/04/11 01:39	
Xylene (Total)	ug/L	0.50U	1.0	11/04/11 01:39	
1,2-Dichloroethane-d4 (S)	%	96	86-125	11/04/11 01:39	
4-Bromofluorobenzene (S)	%	99	70-114	11/04/11 01:39	
Dibromofluoromethane (S)	%	100	88-117	11/04/11 01:39	
Toluene-d8 (S)	%	102	87-113	11/04/11 01:39	

LABORATORY CONTROL SAMPLE: 284145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	17.2	86	80-123	
1,1,1-Trichloroethane	ug/L	20	19.2	96	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.6	93	72-127	
1,1,2-Trichloroethane	ug/L	20	19.2	96	80-121	
1,1-Dichloroethane	ug/L	20	21.3	106	80-122	
1,1-Dichloroethene	ug/L	20	20.4	102	74-114	
1,2,3-Trichloropropane	ug/L	20	12.3	62	73-123 J(L0)	
1,2-Dichlorobenzene	ug/L	20	16.9	85	80-120	
1,2-Dichloroethane	ug/L	20	19.2	96	80-120	
1,2-Dichloropropane	ug/L	20	21.5	107	80-120	
1,4-Dichlorobenzene	ug/L	20	18.6	93	83-120	
2-Butanone (MEK)	ug/L	20	18.1	90	55-167	
2-Hexanone	ug/L	20	17.5	88	65-120	
4-Methyl-2-pentanone (MIBK)	ug/L	20	17.8	89	75-122	
Acetone	ug/L	20	11.1	56	40-150	
Acrylonitrile	ug/L	200	211	105	77-128	
Benzene	ug/L	20	21.6	108	80-123	
Bromochloromethane	ug/L	20	20.7	103	80-120	
Bromodichloromethane	ug/L	20	18.8	94	80-123	
Bromoform	ug/L	20	16.6	83	68-121	
Bromomethane	ug/L	20	15.2	76	38-179	
Carbon disulfide	ug/L	20	27.2	136	51-155	
Carbon tetrachloride	ug/L	20	18.5	92	79-122	
Chlorobenzene	ug/L	20	19.3	96	80-120	
Chloroethane	ug/L	20	24.9	124	59-149	
Chloroform	ug/L	20	19.7	99	79-120	
Chloromethane	ug/L	20	21.1	106	68-140	
cis-1,2-Dichloroethene	ug/L	20	20.9	104	80-120	
cis-1,3-Dichloropropene	ug/L	20	18.2	91	80-126	
Dibromochloromethane	ug/L	20	17.7	89	76-122	
Dibromomethane	ug/L	20	19.7	98	81-122	
Ethylbenzene	ug/L	20	17.6	88	80-120	
Iodomethane	ug/L	20	12.2	61	43-160	
Methylene Chloride	ug/L	20	17.1	85	75-127	
Styrene	ug/L	20	18.9	94	80-122	

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## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

LABORATORY CONTROL SAMPLE: 284145

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	19.3	96	66-133	
Toluene	ug/L	20	19.9	100	80-117	
trans-1,2-Dichloroethene	ug/L	20	16.2	81	80-122	
trans-1,3-Dichloropropene	ug/L	20	16.1	80	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	17.2	86	65-125	
Trichloroethene	ug/L	20	21.1	105	80-120	
Trichlorofluoromethane	ug/L	20	17.2	86	72-131	
Vinyl acetate	ug/L	20	20.7	104	69-135	
Vinyl chloride	ug/L	20	19.5	98	69-140	
Xylene (Total)	ug/L	60	55.2	92	80-120	
1,2-Dichloroethane-d4 (S)	%			93	86-125	
4-Bromofluorobenzene (S)	%			98	70-114	
Dibromofluoromethane (S)	%			99	88-117	
Toluene-d8 (S)	%			104	87-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 284146 284147

Parameter	Units	3542154005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	20	15.6	16.8	78	84	39-130	7	40
1,1,1-Trichloroethane	ug/L	0.50U	20	20	19.8	21.5	99	108	47-141	8	40
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	20	18.7	20.1	93	100	49-131	7	40
1,1,2-Trichloroethane	ug/L	0.50U	20	20	17.1	18.5	85	92	50-130	8	40
1,1-Dichloroethane	ug/L	0.50U	20	20	21.6	23.2	108	116	54-137	7	40
1,1-Dichloroethene	ug/L	0.50U	20	20	21.6	23.2	108	116	45-155	7	40
1,2,3-Trichloropropane	ug/L	0.36U	20	20	17.4	13.4	87	67	31-132	26	40
1,2-Dichlorobenzene	ug/L	0.50U	20	20	16.0	17.2	80	86	43-130	7	40
1,2-Dichloroethane	ug/L	0.50U	20	20	18.5	20.5	92	103	54-130	11	40
1,2-Dichloropropane	ug/L	0.50U	20	20	21.0	22.8	105	114	53-130	8	40
1,4-Dichlorobenzene	ug/L	0.50U	20	20	17.7	19.3	89	96	38-130	8	40
2-Butanone (MEK)	ug/L	5.0U	20	20	16.8	17.0	84	85	48-138	.7	40
2-Hexanone	ug/L	5.0U	20	20	16.2	15.2	81	76	38-130	6	40
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	20	20	17.7	17.6	88	88	28-143	.5	40
Acetone	ug/L	5.0U	20	20	11.7	5.0U	59	20	20-140		40
Acrylonitrile	ug/L	5.0U	200	200	203	202	101	101	46-130	.3	40
Benzene	ug/L	0.50U	20	20	21.5	23.2	108	116	53-132	8	40
Bromochloromethane	ug/L	0.50U	20	20	19.7	20.1	99	100	54-132	2	40
Bromodichloromethane	ug/L	0.27U	20	20	17.6	19.4	88	97	46-130	10	40
Bromoform	ug/L	0.50U	20	20	14.2	15.1	71	76	32-130	6	40
Bromomethane	ug/L	0.50U	20	20	13.7	14.5	68	73	20-152	6	40
Carbon disulfide	ug/L	9.7 I	20	20	22.6	22.4	64	63	28-184	.8	40
Carbon tetrachloride	ug/L	0.50U	20	20	18.7	20.9	94	104	37-137	11	40
Chlorobenzene	ug/L	0.50U	20	20	18.0	19.4	90	97	46-130	7	40
Chloroethane	ug/L	0.50U	20	20	28.3	27.3	142	137	48-159	4	40
Chloroform	ug/L	0.50U	20	20	20.2	21.5	101	108	51-130	6	40
Chloromethane	ug/L	0.62U	20	20	23.5	21.2	117	106	39-144	10	40
cis-1,2-Dichloroethene	ug/L	0.50U	20	20	20.9	23.0	104	115	54-130	10	40

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## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 284146 284147												
Parameter	Units	3542154005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
cis-1,3-Dichloropropene	ug/L	0.25U	20	20	16.6	18.1	83	90	45-130	9	40	
Dibromochloromethane	ug/L	0.26U	20	20	16.2	17.4	81	87	43-130	7	40	
Dibromomethane	ug/L	0.50U	20	20	17.1	18.7	85	93	50-130	9	40	
Ethylbenzene	ug/L	0.50U	20	20	17.3	18.6	86	93	43-130	8	40	
Iodomethane	ug/L	0.50U	20	20	8.8	11.1	44	55	20-169	22	40	
Methylene Chloride	ug/L	2.5U	20	20	15.7	18.1	79	90	51-135	14	40	
Styrene	ug/L	0.50U	20	20	16.4	18.2	82	91	40-130	10	40	
Tetrachloroethene	ug/L	0.50U	20	20	17.1	17.8	86	89	26-130	4	40	
Toluene	ug/L	0.50U	20	20	19.7	21.3	99	106	50-130	8	40	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20	16.3	18.3	82	92	48-142	12	40	
trans-1,3-Dichloropropene	ug/L	0.25U	20	20	14.2	15.4	71	77	45-130	8	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	20	15.2	15.2	76	76	20-139	.3	40	
Trichloroethene	ug/L	0.50U	20	20	19.9	21.5	100	108	42-133	8	40	
Trichlorofluoromethane	ug/L	0.50U	20	20	19.2	18.1	96	90	46-146	6	40	
Vinyl acetate	ug/L	1.0U	20	20	9.9	13.5	50	68	20-165	31	40	
Vinyl chloride	ug/L	0.50U	20	20	21.9	20.1	110	100	57-142	9	40	
Xylene (Total)	ug/L	0.50U	60	60	52.6	56.5	88	94	42-130	7	40	
1,2-Dichloroethane-d4 (S)	%						93	92	86-125			
4-Bromofluorobenzene (S)	%						89	87	70-114			
Dibromofluoromethane (S)	%						96	95	88-117			
Toluene-d8 (S)	%						103	102	87-113			

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: MSV/4076 Analysis Method: EPA 8260  
QC Batch Method: EPA 8260 Analysis Description: 8260 MSV  
Associated Lab Samples: 3542014002

METHOD BLANK: 285773 Matrix: Water  
Associated Lab Samples: 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
1,1,1-Trichloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
1,1,2,2-Tetrachloroethane	ug/L	0.12U	0.50	11/07/11 10:29	
1,1,2-Trichloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
1,1-Dichloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
1,1-Dichloroethene	ug/L	0.50U	1.0	11/07/11 10:29	
1,2,3-Trichloropropane	ug/L	0.36U	0.50	11/07/11 10:29	
1,2-Dichlorobenzene	ug/L	0.50U	1.0	11/07/11 10:29	
1,2-Dichloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
1,2-Dichloropropane	ug/L	0.50U	1.0	11/07/11 10:29	
1,4-Dichlorobenzene	ug/L	0.50U	1.0	11/07/11 10:29	
2-Butanone (MEK)	ug/L	5.0U	10.0	11/07/11 10:29	
2-Hexanone	ug/L	5.0U	10.0	11/07/11 10:29	
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	10.0	11/07/11 10:29	
Acetone	ug/L	5.0U	10.0	11/07/11 10:29	
Acrylonitrile	ug/L	5.0U	10.0	11/07/11 10:29	
Benzene	ug/L	0.50U	1.0	11/07/11 10:29	
Bromochloromethane	ug/L	0.50U	1.0	11/07/11 10:29	
Bromodichloromethane	ug/L	0.27U	0.60	11/07/11 10:29	
Bromoform	ug/L	0.50U	1.0	11/07/11 10:29	
Bromomethane	ug/L	0.50U	1.0	11/07/11 10:29	
Carbon disulfide	ug/L	5.0U	10.0	11/07/11 10:29	
Carbon tetrachloride	ug/L	0.50U	1.0	11/07/11 10:29	
Chlorobenzene	ug/L	0.50U	1.0	11/07/11 10:29	
Chloroethane	ug/L	0.50U	1.0	11/07/11 10:29	
Chloroform	ug/L	0.50U	1.0	11/07/11 10:29	
Chloromethane	ug/L	0.62U	1.0	11/07/11 10:29	
cis-1,2-Dichloroethene	ug/L	0.50U	1.0	11/07/11 10:29	
cis-1,3-Dichloropropene	ug/L	0.25U	0.50	11/07/11 10:29	
Dibromochloromethane	ug/L	0.26U	0.50	11/07/11 10:29	
Dibromomethane	ug/L	0.50U	1.0	11/07/11 10:29	
Ethylbenzene	ug/L	0.50U	1.0	11/07/11 10:29	
Iodomethane	ug/L	0.50U	1.0	11/07/11 10:29	
Methylene Chloride	ug/L	2.5U	5.0	11/07/11 10:29	
Styrene	ug/L	0.50U	1.0	11/07/11 10:29	
Tetrachloroethene	ug/L	0.50U	1.0	11/07/11 10:29	
Toluene	ug/L	0.50U	1.0	11/07/11 10:29	
trans-1,2-Dichloroethene	ug/L	0.50U	1.0	11/07/11 10:29	
trans-1,3-Dichloropropene	ug/L	0.25U	0.50	11/07/11 10:29	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	10.0	11/07/11 10:29	
Trichloroethene	ug/L	0.50U	1.0	11/07/11 10:29	
Trichlorofluoromethane	ug/L	0.50U	1.0	11/07/11 10:29	
Vinyl acetate	ug/L	1.0U	2.0	11/07/11 10:29	

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

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## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

METHOD BLANK: 285773

Matrix: Water

Associated Lab Samples: 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Vinyl chloride	ug/L	0.50U	1.0	11/07/11 10:29	
Xylene (Total)	ug/L	0.50U	1.0	11/07/11 10:29	
1,2-Dichloroethane-d4 (S)	%	99	86-125	11/07/11 10:29	
4-Bromofluorobenzene (S)	%	101	70-114	11/07/11 10:29	
Dibromofluoromethane (S)	%	104	88-117	11/07/11 10:29	
Toluene-d8 (S)	%	101	87-113	11/07/11 10:29	

LABORATORY CONTROL SAMPLE: 285774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1,1,2-Tetrachloroethane	ug/L	20	19.1	95	80-123	
1,1,1-Trichloroethane	ug/L	20	20.9	105	80-120	
1,1,2,2-Tetrachloroethane	ug/L	20	18.4	92	72-127	
1,1,2-Trichloroethane	ug/L	20	18.6	93	80-121	
1,1-Dichloroethane	ug/L	20	21.0	105	80-122	
1,1-Dichloroethene	ug/L	20	20.8	104	74-114	
1,2,3-Trichloropropane	ug/L	20	16.6	83	73-123	
1,2-Dichlorobenzene	ug/L	20	18.7	93	80-120	
1,2-Dichloroethane	ug/L	20	21.1	106	80-120	
1,2-Dichloropropane	ug/L	20	20.1	100	80-120	
1,4-Dichlorobenzene	ug/L	20	18.5	93	83-120	
2-Butanone (MEK)	ug/L	20	17.1	85	55-167	
2-Hexanone	ug/L	20	18.4	92	65-120	
4-Methyl-2-pentanone (MIBK)	ug/L	20	18.7	94	75-122	
Acetone	ug/L	20	15.4	77	40-150	
Acrylonitrile	ug/L	200	203	101	77-128	
Benzene	ug/L	20	21.1	105	80-123	
Bromochloromethane	ug/L	20	21.0	105	80-120	
Bromodichloromethane	ug/L	20	19.9	99	80-123	
Bromoform	ug/L	20	18.7	94	68-121	
Bromomethane	ug/L	20	21.2	106	38-179	
Carbon disulfide	ug/L	20	14.5	72	51-155	
Carbon tetrachloride	ug/L	20	21.4	107	79-122	
Chlorobenzene	ug/L	20	19.7	99	80-120	
Chloroethane	ug/L	20	23.6	118	59-149	
Chloroform	ug/L	20	20.5	103	79-120	
Chloromethane	ug/L	20	22.7	114	68-140	
cis-1,2-Dichloroethene	ug/L	20	20.4	102	80-120	
cis-1,3-Dichloropropene	ug/L	20	21.6	108	80-126	
Dibromochloromethane	ug/L	20	18.2	91	76-122	
Dibromomethane	ug/L	20	19.8	99	81-122	
Ethylbenzene	ug/L	20	19.7	99	80-120	
Iodomethane	ug/L	20	15.0	75	43-160	
Methylene Chloride	ug/L	20	21.1	106	75-127	
Styrene	ug/L	20	19.5	98	80-122	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

LABORATORY CONTROL SAMPLE: 285774

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Tetrachloroethene	ug/L	20	19.0	95	66-133	
Toluene	ug/L	20	19.5	98	80-117	
trans-1,2-Dichloroethene	ug/L	20	19.1	96	80-122	
trans-1,3-Dichloropropene	ug/L	20	19.0	95	80-122	
trans-1,4-Dichloro-2-butene	ug/L	20	20.3	101	65-125	
Trichloroethene	ug/L	20	21.1	105	80-120	
Trichlorofluoromethane	ug/L	20	22.2	111	72-131	
Vinyl acetate	ug/L	20	15.7	78	69-135	
Vinyl chloride	ug/L	20	21.4	107	69-140	
Xylene (Total)	ug/L	60	59.5	99	80-120	
1,2-Dichloroethane-d4 (S)	%			96	86-125	
4-Bromofluorobenzene (S)	%			100	70-114	
Dibromofluoromethane (S)	%			101	88-117	
Toluene-d8 (S)	%			102	87-113	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285775 285776

Parameter	Units	3542405003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,1,1,2-Tetrachloroethane	ug/L	0.50U	20	20	17.9	20.9	90	104	39-130	15	40
1,1,1-Trichloroethane	ug/L	0.50U	20	20	21.1	25.1	105	125	47-141	17	40
1,1,2,2-Tetrachloroethane	ug/L	0.12U	20	20	15.5	19.3	77	96	49-131	22	40
1,1,2-Trichloroethane	ug/L	0.50U	20	20	17.2	20.2	86	101	50-130	16	40
1,1-Dichloroethane	ug/L	0.50U	20	20	20.2	23.7	100	117	54-137	16	40
1,1-Dichloroethene	ug/L	0.50U	20	20	20.6	23.9	103	119	45-155	15	40
1,2,3-Trichloropropane	ug/L	0.36U	20	20	14.2	17.3	71	86	31-132	20	40
1,2-Dichlorobenzene	ug/L	0.50U	20	20	15.5	19.7	78	98	43-130	24	40
1,2-Dichloroethane	ug/L	0.50U	20	20	19.8	23.1	99	116	54-130	15	40
1,2-Dichloropropane	ug/L	0.50U	20	20	18.9	21.7	94	109	53-130	14	40
1,4-Dichlorobenzene	ug/L	0.50U	20	20	16.0	20.0	80	100	38-130	22	40
2-Butanone (MEK)	ug/L	5.0U	20	20	15.6	17.6	78	88	48-138	12	40
2-Hexanone	ug/L	5.0U	20	20	14.4	16.2	72	81	38-130	12	40
4-Methyl-2-pentanone (MIBK)	ug/L	5.0U	20	20	16.6	19.1	83	95	28-143	14	40
Acetone	ug/L	5.0U	20	20	11.8	14.8	59	74	20-140	23	40
Acrylonitrile	ug/L	5.0U	200	200	186	202	93	101	46-130	8	40
Benzene	ug/L	0.50U	20	20	20.4	23.6	102	118	53-132	15	40
Bromochloromethane	ug/L	0.50U	20	20	19.2	22.5	96	113	54-132	16	40
Bromodichloromethane	ug/L	0.27U	20	20	19.0	21.9	95	110	46-130	14	40
Bromoform	ug/L	0.50U	20	20	16.7	19.8	83	99	32-130	17	40
Bromomethane	ug/L	0.50U	20	20	21.8	22.9	109	114	20-152	5	40
Carbon disulfide	ug/L	5.0U	20	20	15.5	15.9	74	77	28-184	3	40
Carbon tetrachloride	ug/L	0.50U	20	20	21.7	24.3	109	122	37-137	11	40
Chlorobenzene	ug/L	2.3	20	20	20.4	23.4	91	106	46-130	14	40
Chloroethane	ug/L	0.50U	20	20	27.3	25.7	137	129	48-159	6	40
Chloroform	ug/L	0.50U	20	20	18.6	22.1	93	111	51-130	17	40
Chloromethane	ug/L	0.62U	20	20	26.2	24.0	131	120	39-144	9	40
cis-1,2-Dichloroethene	ug/L	0.97 I	20	20	19.9	23.4	95	112	54-130	16	40

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## REPORT OF LABORATORY ANALYSIS

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## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 285775 285776												
Parameter	Units	3542405003 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Max RPD	Qual
cis-1,3-Dichloropropene	ug/L	0.25U	20	20	19.5	22.2	97	111	45-130	13	40	
Dibromochloromethane	ug/L	0.26U	20	20	16.8	19.6	84	98	43-130	16	40	
Dibromomethane	ug/L	0.50U	20	20	18.4	23.1	92	115	50-130	22	40	
Ethylbenzene	ug/L	0.50U	20	20	18.3	21.4	91	107	43-130	16	40	
Iodomethane	ug/L	0.50U	20	20	14.6	16.0	73	80	20-169	9	40	
Methylene Chloride	ug/L	2.5U	20	20	19.3	22.0	97	110	51-135	13	40	
Styrene	ug/L	0.50U	20	20	17.7	20.8	88	104	40-130	16	40	
Tetrachloroethene	ug/L	0.50U	20	20	17.4	20.4	87	102	26-130	16	40	
Toluene	ug/L	0.50U	20	20	18.8	21.7	93	108	50-130	15	40	
trans-1,2-Dichloroethene	ug/L	0.50U	20	20	19.2	21.9	96	110	48-142	13	40	
trans-1,3-Dichloropropene	ug/L	0.25U	20	20	17.4	19.7	87	99	45-130	13	40	
trans-1,4-Dichloro-2-butene	ug/L	5.0U	20	20	16.6	19.9	83	100	20-139	18	40	
Trichloroethene	ug/L	0.50U	20	20	19.7	23.0	98	115	42-133	15	40	
Trichlorofluoromethane	ug/L	0.50U	20	20	26.3	24.5	132	123	46-146	7	40	
Vinyl acetate	ug/L	1.0U	20	20	14.8	15.6	74	78	20-165	5	40	
Vinyl chloride	ug/L	1.7	20	20	27.2	25.5	128	119	57-142	6	40	
Xylene (Total)	ug/L	0.50U	60	60	54.7	64.6	91	108	42-130	17	40	
1,2-Dichloroethane-d4 (S)	%						93	93	86-125			
4-Bromofluorobenzene (S)	%						102	101	70-114			
Dibromofluoromethane (S)	%						103	101	88-117			
Toluene-d8 (S)	%						103	101	87-113			

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

QC Batch: OEXT/6267

Analysis Method: EPA 8011

QC Batch Method: EPA 8011

Analysis Description: 8011 EDB DBCP

Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 282452

Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	0.0049U	0.020	11/03/11 01:59	
1,2-Dibromoethane (EDB)	ug/L	0.0062U	0.010	11/03/11 01:59	

LABORATORY CONTROL SAMPLE: 282453

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,2-Dibromo-3-chloropropane	ug/L	.25	0.25	101	60-140	
1,2-Dibromoethane (EDB)	ug/L	.25	0.25	102	60-140	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 282863

282864

Parameter	Units	10174006001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
1,2-Dibromo-3-chloropropane	ug/L	ND	.44	.44	0.48	0.47	110	108	60-140	1	40
1,2-Dibromoethane (EDB)	ug/L	ND	.44	.44	0.45	0.43	102	99	60-140	2	40

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WET/10845 Analysis Method: SM 2320B  
QC Batch Method: SM 2320B Analysis Description: 2320B Alkalinity  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 287291 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	11/09/11 10:27	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	5.0U	5.0	11/09/11 10:27	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0	11/09/11 10:27	

LABORATORY CONTROL SAMPLE: 287292

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	250	247	99	90-110	

SAMPLE DUPLICATE: 287293

Parameter	Units	3542214002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	9.8	9.8	.2	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	9.8	9.8	.2	20	

SAMPLE DUPLICATE: 287294

Parameter	Units	3542308002 Result	Dup Result	RPD	Max RPD	Qualifiers
Alkalinity, Carbonate (CaCO <sub>3</sub> )	mg/L	5.0U	5.0U		20	
Alkalinity, Total as CaCO <sub>3</sub>	mg/L	217	218	.4	20	
Alkalinity,Bicarbonate (CaCO <sub>3</sub> )	mg/L	217	218	.4	20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch:	WET/10760	Analysis Method:	SM 2540C
QC Batch Method:	SM 2540C	Analysis Description:	2540C Total Dissolved Solids
Associated Lab Samples:	3542014001		

METHOD BLANK: 282872 Matrix: Water

Associated Lab Samples: 3542014001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0U	5.0	11/02/11 10:14	

LABORATORY CONTROL SAMPLE: 282873

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	283	94	90-110	

SAMPLE DUPLICATE: 282874

Parameter	Units	3541920001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	228	4	20	

SAMPLE DUPLICATE: 282875

Parameter	Units	3541920010 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	215	2	20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WET/10778 Analysis Method: SM 2540C  
QC Batch Method: SM 2540C Analysis Description: 2540C Total Dissolved Solids  
Associated Lab Samples: 3542014002

METHOD BLANK: 283764 Matrix: Water

Associated Lab Samples: 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Dissolved Solids	mg/L	5.0U	5.0	11/03/11 09:56	

LABORATORY CONTROL SAMPLE: 283765

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Dissolved Solids	mg/L	300	286	95	90-110	

SAMPLE DUPLICATE: 283766

Parameter	Units	3542005001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	6.0	8.0	29	20	J(D6)

SAMPLE DUPLICATE: 283767

Parameter	Units	3542014002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Dissolved Solids	mg/L	220	223	1	20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond

Pace Project No.: 3542014

QC Batch: WET/10761

Analysis Method: SM 2540D

QC Batch Method: SM 2540D

Analysis Description: 2540D Total Suspended Solids

Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 282876

Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Suspended Solids	mg/L	5.0U	5.0	11/02/11 10:30	

LABORATORY CONTROL SAMPLE: 282877

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Suspended Solids	mg/L	100	102	102	90-110	

SAMPLE DUPLICATE: 282878

Parameter	Units	3541889001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	5.0U	5.0U		20	

SAMPLE DUPLICATE: 282879

Parameter	Units	3541928002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Suspended Solids	mg/L	ND	5.0U		20	



## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WET/10764 Analysis Method: SM 5210B  
QC Batch Method: SM 5210B Analysis Description: 5210B BOD, 5 day  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 282893 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
BOD, 5 day	mg/L	2.0U	2.0	11/07/11 12:25	

LABORATORY CONTROL SAMPLE: 282894

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
BOD, 5 day	mg/L	198	186	94	85-115	

SAMPLE DUPLICATE: 282895

Parameter	Units	3541928001 Result	Dup Result	RPD	Max RPD	Qualifiers
BOD, 5 day	mg/L	144	132	9	20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch:	WET/10765	Analysis Method:	SM10200
QC Batch Method:	SM10200	Analysis Description:	Chlorophyll & Pheophytin
Associated Lab Samples:	3542014001, 3542014002		

METHOD BLANK: 282896 Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorophyll a	ug/L	1.0U	1.0	11/15/11 15:03	

SAMPLE DUPLICATE: 282897

Parameter	Units	3542014001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chlorophyll a	ug/L	4.3	3.9	10	40	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13120 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 283331 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/L	0.025U	0.050	11/02/11 08:15	
Nitrite as N	mg/L	0.025U	0.050	11/02/11 08:15	
Nitrogen, NO2 plus NO3	mg/L	0.025U	0.050	11/02/11 08:15	

LABORATORY CONTROL SAMPLE: 283332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/L	5	4.8	96	90-110	
Nitrite as N	mg/L	5	4.9	99	90-110	
Nitrogen, NO2 plus NO3	mg/L	10	9.7	97	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283333 283334

Parameter	Units	3541998001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Nitrate as N	mg/L	4.2	5	5	9.8	9.9	112	113	90-110	.2	20 J(M1)
Nitrite as N	mg/L	0.025U	5	5	4.4	4.4	88	88	90-110	.5	20 J(M1)
Nitrogen, NO2 plus NO3	mg/L	4.2	10	10	14.3	14.3	100	100	90-110	.02	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283335 283336

Parameter	Units	3541998002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Nitrate as N	mg/L	4.8	25	25	23.8	23.8	76	76	90-110	.03	20 J(M1)
Nitrite as N	mg/L	0.12U	25	25	22.9	22.9	91	92	90-110	.09	20
Nitrogen, NO2 plus NO3	mg/L	4.8	50	50	46.7	46.7	84	84	90-110	.06	20 J(M1)

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13123 Analysis Method: EPA 300.0  
QC Batch Method: EPA 300.0 Analysis Description: 300.0 IC Anions  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 283358 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Sulfate	mg/L	2.5U	5.0	11/02/11 08:15	

LABORATORY CONTROL SAMPLE: 283359

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Sulfate	mg/L	50	48.0	96	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283360 283361

Parameter	Units	3541998001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Sulfate	mg/L	29.8	50	50	85.4	85.4	111	111	90-110	.01 20	J(M1)

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 283362 283363

Parameter	Units	3541998002 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
Sulfate	mg/L				398	398				.06 20	J(M1)

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13276 Analysis Method: EPA 350.1  
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 288246 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/L	0.020U	0.050	11/10/11 12:03	

LABORATORY CONTROL SAMPLE: 288247

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	1	1.0	103	90-110	

MATRIX SPIKE SAMPLE: 288249

Parameter	Units	3542308001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	1	1.1	102	90-110	

SAMPLE DUPLICATE: 288248

Parameter	Units	3542308001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Ammonia	mg/L	0.11	0.095	10	20	

### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13233 Analysis Method: EPA 351.2  
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 286544 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086U	0.50	11/09/11 10:41	

LABORATORY CONTROL SAMPLE: 286545

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	20	21.4	107	90-110	

MATRIX SPIKE SAMPLE: 286547

Parameter	Units	3542325007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086U	20	21.1	105	90-110	

SAMPLE DUPLICATE: 286546

Parameter	Units	3542325007 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/L	0.086U	0.11 I		20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13226      Analysis Method: EPA 353.2  
QC Batch Method: EPA 353.2      Analysis Description: 353.2 Nitrate + Nitrite, preserved  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 286439      Matrix: Water

Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	0.050	11/08/11 09:35	

LABORATORY CONTROL SAMPLE: 286440

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	2	2.0	98	90-110	

MATRIX SPIKE SAMPLE: 286442

Parameter	Units	3542014001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	2	2.1	105	80-120	

SAMPLE DUPLICATE: 286441

Parameter	Units	3542014001 Result	Dup Result	RPD	Max RPD	Qualifiers
Nitrogen, NO2 plus NO3	mg/L	0.025U	0.025U		20	

### QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13234 Analysis Method: EPA 365.4  
QC Batch Method: EPA 365.4 Analysis Description: 365.4 Phosphorus  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 286549 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus, Total (as P)	mg/L	0.050U	0.10	11/09/11 11:21	

LABORATORY CONTROL SAMPLE: 286550

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	4	4.0	100	90-110	

MATRIX SPIKE SAMPLE: 286552

Parameter	Units	3542325007 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus, Total (as P)	mg/L	0.055 I	4	3.9	97	80-120	

SAMPLE DUPLICATE: 286551

Parameter	Units	3542325007 Result	Dup Result	RPD	Max RPD	Qualifiers
Phosphorus, Total (as P)	mg/L	0.055 I	0.050U		20	



## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13118 Analysis Method: EPA 410.4  
QC Batch Method: EPA 410.4 Analysis Description: 410.4 COD  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 283216 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chemical Oxygen Demand	mg/L	12.5U	20.0	11/02/11 15:13	

LABORATORY CONTROL SAMPLE: 283217

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	500	529	106	90-110	

MATRIX SPIKE SAMPLE: 283219

Parameter	Units	3541991001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Chemical Oxygen Demand	mg/L	<12.5	500	498	99	90-110	

SAMPLE DUPLICATE: 283218

Parameter	Units	3541991001 Result	Dup Result	RPD	Max RPD	Qualifiers
Chemical Oxygen Demand	mg/L	<12.5	12.5U		20	

## QUALITY CONTROL DATA

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

QC Batch: WETA/13169 Analysis Method: SM 5310B  
QC Batch Method: SM 5310B Analysis Description: 5310B TOC  
Associated Lab Samples: 3542014001, 3542014002

METHOD BLANK: 284728 Matrix: Water  
Associated Lab Samples: 3542014001, 3542014002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Total Organic Carbon	mg/L	0.50U	1.0	11/04/11 12:52	

LABORATORY CONTROL SAMPLE: 284729

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	20	20.3	101	90-110	

MATRIX SPIKE SAMPLE: 284731

Parameter	Units	3542003002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	5.3	20	26.2	105	80-120	

MATRIX SPIKE SAMPLE: 284733

Parameter	Units	3542076001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Total Organic Carbon	mg/L	123	40	147	61	80-120	

SAMPLE DUPLICATE: 284730

Parameter	Units	3542003002 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	5.3	5.4	3	20	

SAMPLE DUPLICATE: 284732

Parameter	Units	3542076001 Result	Dup Result	RPD	Max RPD	Qualifiers
Total Organic Carbon	mg/L	123	127	3	20	

## QUALIFIERS

Project: Sarasota Central Landfill Pond  
Pace Project No.: 3542014

### DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

### LABORATORIES

PASI-G Pace Analytical Services - Green Bay  
PASI-O Pace Analytical Services - Ormond Beach

### ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

J(B2) Estimated Value. Oxygen usage is less than 2.0 for all dilutions set. The reported value is an estimated less than value and is calculated for the dilution using the most amount of sample.

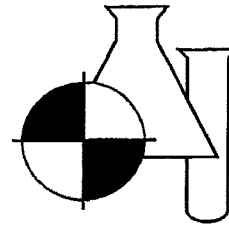
J(D6) Estimated Value. The relative percent difference (RPD) between the sample and sample duplicate exceeded laboratory control limits.

J(L0) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was outside QC limits.

J(L2) Estimated Value. Analyte recovery in the laboratory control sample (LCS) was below QC limits. Results for this analyte in associated samples may be biased low.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

V Indicates that the analyte was detected in both the sample and the associated method blank.



NELAC Certification # E84167

**ANALYTICAL TEST REPORT**  
THESE RESULTS MEET NELAC STANDARDS

**Submission Number :** 11110043

Pace Analytical Services, Inc.  
8 East Tower Circle  
Ormond Beach, FL 32174

**Project Name :** CC SOLID WASTE DISPOSAL SW  
**Date Received :** 11/01/2011  
**Time Received :** 1430

**Submission Number** 11110043

**Sample Number:** 001 **Sample Description:** Pond #1  
**Sample Date:** 11/01/2011 **Sample Method:** Grab  
**Sample Time:** 1000

Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
FECAL COLIFORM	10 U	#/100 ML	10	10	SM9222D	11/01/2011	15:40	MR

**Submission Number** 11110043

**Sample Number:** 002 **Sample Description:** Pond #2  
**Sample Date:** 11/01/2011 **Sample Method:** Grab  
**Sample Time:** 1030

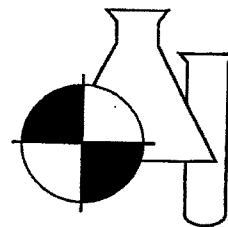
Parameter	Result	Units	MDL	PQL	Procedure	Analysis		Analyst
						Date	Time	
FECAL COLIFORM	80 B	#/100 ML	10	10	SM9222D	11/01/2011	15:40	MR

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

1711 12th Street East \* Palmetto, FL 34221 \* Phone (941) 723-9986 \* Fax (941) 723-6061

# BENCHMARK

*EnviroAnalytical Inc.*



NELAC Certification # E84167

*Tülay Tanrisever*  
Date D. Dixon / Laboratory Director  
Tülay Tanrisever/ QC Officer  
Jennifer Jordan / QC Officer

11/04/2011

Date

## DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.

B = Results based upon colony counts outside the ideal range.

H = Value based on field kit determination. Results may not be accurate.

I = Reported value is between the laboratory MDL and the PQL.

J = Estimated value.

J1 = Est. value surrogate recovery limits exceeded.

J2 = Est. value. No quality control criteria exists for component.

J3 = Est. value quality control criteria for precision or accuracy not met.

J4 = Est. value. Sample matrix interference suspected.

J5 = Est. value. Data questionable due to improper lab or field protocols

K = Off-scale low. Value is known to be < the value reported.

L = Off-scale high. Value is known to be > the value reported

## NOTES:

PQL = 4xMDL.

MBAS calculated as LAS; molecular weight = 348.

X = Value exceed MCL.

For questions and comments regarding these results, please contact Bettina Beilfuss at (941) 723-9986

*Results relate only to the samples.*

N = Presumptive evidence of presence of material.

O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.

T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.

U = Analyte analyzed but not detected at the value indicated.

V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable

Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.

Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.

I = Data deviate from historically established concentration ranges.

? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the Presence or absence of the analyte cannot be determined from the data.

\* = Not reported due to interference.

NOTES:

Pace Analytical  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386)672-5668 • FAX (386)673-4001  
(INSTRUCTIONS ON BACK OF THIS FORM)

CHAIN OF CUSTODY RECORD

No. E

Page 1 of 2

1. Client: (Company or Individual)

Sarasota County Environmental Services

2. Report to: (if different from above)

Cesar Rodriguez

3. Client Project Name:

Central City Solid Waste disposal surface water

4. Client Project No.:

P.O. No.:

6. Custody Seal No.:

7. Sampled By: Alison Eggleston

8. Shipping Method:

FOR LAB USE ONLY

Condition of Contents:

Temp. of Contents: °C (or Received on Ice, ROI)

Condition of Seals:

Address: 1255 T Mabry Carlton Parkway

City Venice

State FL

Zip Code 34293

Address:

City

State

Zip Code

Water Sample

Codes (for Item 19)

DW = Drinking Water

GW = Ground Water

SW = Surface Water

PW = Processed Water

WW = Waste Water

Container Codes

(for Item 16)

V = VOA vial

G = glass

P = plastic

M = micro bag/cup

O = other

14. 15. Preservatives

16. Containers

17.

Metals 258 App I

Nutrients 258 App I

TOC

EDB 258 App I

VOC 258 App I

Bottles

3 ABC

2 D,E

2 F,G

1 H

1 I

4 J,K,L,M

1 N

1 O

X SW

X SV

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

X SW

18. Report Type

X Routine

With QC

19. Turnaround Time

X Standard

Rush: / /

Preservative Codes

(for Item 15)

C = Cool Only

H = Hydrochloric Acid

M = Monochloroacetic Acid

N = Nitric Acid

OH = Sodium Hydroxide

S = Sulfuric Acid

T = Sodium Thiosulfate

20. REMARK

H: Ca, Fe, Mg, Hg, K, Na, As

F, G: TOC

I: Un-ionized Ammonia, Tot N

Total phosphorus, Nitrate, NOX

J, K, L, M: TDS, TSS, COD,

Bicarbonate, Carbonate, Sulfate

BOD, Nitrite, Total Hardness

P: Fecal coliform, O: Chlorophyll A

FOR LAB USE ONLY

Sampling Fee: Hrs.

Equipment Rental Fee:

Profile No.:

Quote No.:

11/1/11

1310

1430

11/1/11

1310

1430

11/1/11

1310

1430

Revised: 1/99

DISTRIBUTION: White with report; make copies as needed \*\* See attached Email 11/1/11

# Pace Analytical

8 East Tower Circle  
Ormond Beach, FL 32174

(386)672-5668 • FAX (386)673-4001

(INSTRUCTIONS ON BACK OF THIS FORM)

1. Client: (Company or Individual)

Sarasota County Environmental Services

2. Report to: (if different from above)

Cesar Rodriguez

3. Client Project Name:

Central City Solid Waste disposal surface water

4. Client Project No.:

P.O. No.:

6. Custody Seal No.:

8. Shipping Method:

## CHAIN OF CUSTODY RECORD

No. E

Page 2 of 2

FOR LAB USE ONLY

Temp. of Contents: °C (or Received on Ice, ROI)

Condition of Contents:

Address: 1255 T Mabry Carlton Parkway

Condition of Seals:

Phone: (941) 650-9834

City Venice State FL Zip Code 34293

Address:

Phone: ( )

City Zip Code

State

14. 15. Preservatives C

16. Containers G

17.

Water Sample Codes (for Item 13)

DW = Drinking Water

GW = Ground Water

SW = Surface Water

WW = Waste Water

12. 13.

Comp. Grab Water (Codes)

Other

Sludge

Soil

Air

Water

SW

X

10/20/11

11/1/11

13/10

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

FOR LAB USE ONLY

Submission No.

18. Report Type:

X Routine

With QC

19. Turnaround Time:

X Standard

Rush: / /

Preservative Codes (for Item 15)

C = Cool Only

H = Hydrochloric Acid

M = Monochloroacetic Acid

OH = Sodium Hydroxide

S = Sulfuric Acid

T = Sodium Thiosulfate

20. REMARK

LAB USE ONLY

LAB SAMPLE NO.

21. RELINQUISHED BY

DATE

TIME

22. RECEIVED BY

DATE

TIME

11/1/11

13/10

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

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11/1/11

1430

11/1/11

1430

11/1/11

1430

11/1/11

1430

DISTRIBUTION: White with report; make copies as needed

Revised: 1/99

# Pace Analytical

8 East Tower Circle  
Ormond Beach, FL 32174  
(386)672-5668 • FAX (386)673-4001  
(INSTRUCTIONS ON BACK OF THIS FORM)

# CHAIN OF CUSTODY RECORD

No. E

Page 1 of 2

## FOR LAB USE ONLY

Condition of Contents:

"C" (or Received on Ice, ROI)

Condition of Seals:

1. Client: (Company or Individual)

Address: 1255 T Mabry Carlton Parkway

Phone: (941) 650-9834

Submission No.

Sarasota County Environmental Services

City Venice

State FL

Fax: (941) 480-3558

2. Report to: (if different from above)

Address:

Phone: ( )

19. Turnaround Time

Cesar Rodriguez

3. Client Project Name:

Central City Solid Waste disposal surface water

4. Client Project No.:

P.O. No.:

6. Custody Seal No.:

7. Sampled By: Alison Eggleston

8. Shipping Method:

Water Sample Codes (for Item 13)

DW = Drinking Water

GW = Ground Water

SW = Surface Water

PW = Processed Water

WW = Waste Water

Container Codes (for Item 16)

V = VOA vial

G = glass

P = plastic

M = micro bag/cup

O = other

City

State

Zip Code

18. Report Type

X Routine

With QC

19. Turnaround Time

X Standard

Rush: / /

Preservative Codes (for Item 15)

C = Cool Only

H = Hydrochloric Acid

M = Monochloroacetic Acid

N = Nitric Acid

OH = Sodium Hydroxide

S = Sulfuric Acid

T = Sodium Thiosulfate

12. 13.

11.

9. Sample ID or No.

10. Sample Description

Item

Date

Time

Comp.

Grab

Water

Code

14. 15.

16. 17.

12. 13.

11.

9. Sample ID or No.

10. Sample Description

Item

Date

Time

Comp.

Grab

Water

Code

14. 15.

16. 17.

12. 13.

11.

9. Sample ID or No.

10. Sample Description

Item

Date

Time

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12. 13.

11.

9. Sample ID or No.

10. Sample Description

Item

Date

Time

Comp.

Grab

Water

Code

14. 15.

16. 17.



Pace Analytical  
8 East Tower Circle  
Ormond Beach, FL 32174  
(386)672-5668 • FAX (386)673-4001  
(INSTRUCTIONS ON BACK OF THIS FORM)

CHAIN OF CUSTODY RECORD

No. E

Page 2 of 2

FOR LAB USE ONLY

FOR LAB USE ONLY

1. Client: (Company or Individual)  
Sarasota County Environmental Services  
2. Report to: (if different from above)  
Cesar Rodriguez

Temp. of Contents: °C (or Received on Ice, ROI)  
Address: 1255 T Mabry Carlton Parkway  
City Venice State FL Zip Code 34293  
Address: Phone: (941)480-3558

Submission No.

Condition of Contents:

18. Report Type  
X Routine  
With QC

19. Turnaround Time  
X Standard  
Rush: / /

3. Client Project Name:  
Central City Solid Waste disposal surface water

4. Client Project No.:  
P.O. No.:  
6. Custody Seal No.:  
8. Shipping Method:

Water Sample Codes (for Item 13)  
DW = Drinking Water  
GW = Ground Water  
SW = Surface Water  
WW = Waste Water  
Container Codes (for Item 16)  
V = VOA vial  
G = glass  
P = plastic  
O = other

14. 15. Preservatives  
Containers C G

Preservative Codes (for Item 15)  
C = Cool Only  
H = Hydrochloric Acid  
M = Monochloroacetic Acid  
OH = Sodium Hydroxide  
S = Sulfuric Acid  
T = Sodium Thiosulfate

9. Sample ID or No.  
10. Sample Description  
11. Date  
12. Time  
13. Other

Comp. Grab Water (Codes)  
X SW  
Time 1030  
Date 10/20/11  
Pond #2  
Blank

16. 17. Low level mercury

20. REMARK

21. RELINQUISHED BY  
1. [Signature]  
2. [Signature]  
3. [Signature]  
4. [Signature]

22. RECEIVED BY  
[Signature]  
DATE 11-1-11  
TIME 1310

DATE 11-1-11  
TIME 1310

FOR LAB USE ONLY  
Sampling Fee:  
Equipment Rental Fee:  
Profile No.:  
Quote No.:

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(INSTRUCTIONS ON BACK OF THIS FORM)

**Sarasota County Environmental Services**

Cesar Rodriguez

**3. Client Project Name:**

Central Cty Solid Waste disposal surface water

**4. Client Project No.:**

P.O. No.:

**6. Custody Seal No.:**

7. Sampled By: Alison Eggleston

### 8. Shipping Method:

9. Sample	10. Sample
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[illegible]

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[illegible]

POND #1

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[illegible]

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3

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[illegible][illegible]

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		8
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9

1	10	5
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Dr. P. Blank

21. RELINQUISHED BY \_\_\_\_\_

1. Widespread -

5

1

346

4

U

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Pace Analytical				CHAIN OF CUSTODY RECORD				No. E		Page 2 of 2	
8 East Tower Circle Ormond Beach, FL 32174 (386)672-5668 • FAX (386)673-4001 (INSTRUCTIONS ON BACK OF THIS FORM)				FOR LAB USE ONLY				Submission No.			
				Temp. of Contents: °C (or Received on Ice/ROD)				Condition of Seals:			
1. Client: (Company or Individual)				Address: 1255 T Mabry Carlton Parkway				Phone: (941) 650-9834			
Sarasota County Environmental Services				City: Venice				State: FL Zip Code: 34293			
2. Report to: (if different from above)				Address:				Fax: (941) 480-3558			
Cesar Rodriguez				City:				State: Zip Code:			
3. Client Project Name:				Water Sample Codes (for Item 13)				Container Codes (for Item 16)			
Central City Solid Waste disposal surface water				DW = Drinking Water				V = VOA vial			
4. Client Project No.:				GW = Ground Water				G = glass			
P.O. No.:				SW = Surface Water				P = plastic			
6. Custody Seal No.:				WW = Waste Water				O = other			
8. Shipping Method:				11.				12.			
9. Sample ID or No.				10. Sample Description				13.			
1				POND #1				Date: 10/20/01			
2				As Blank				Time: 1000			
3											
4											
5											
6											
7											
8											
9											
10											
21. RELINQUISHED BY				DATE				TIME			
Cesar Rodriguez				10/20/01				1430			
22. RECEIVED BY				DATE				TIME			
B. D. D. (12/12)				11/11				1430			
23. Sampling Fee:				Equipment Rental Fee:				Hrs.			
24. Profile No.:				Quote No.:							
25. Lab Sample No.:				20. REMARK				Preservative Codes (for Item 15)			
				Low level mercury				C = Cool Only			
								H = Hydrochloric Acid			
								M = Monochloroacetic Acid			
								OH = Sodium Hydroxide			
								S = Sulfuric Acid			
								T = Sodium Thiosulfate			
								FOR LAB USE ONLY			
								Lab Sample No.			
								Revised: 1/99			

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Temp. of Contents: <u>      </u> °C (or Received on Ice: <u>ROD</u> ) Condition of Contents: <u>      </u>		Submission No. <u>                    </u> Condition of Seals: <u>      </u>	
Address: 1255 T Mabry Carlton Parkway		Phone: (941) 650-9834	
City: Venice	State: FL	Zip Code: 34293	
Address:		Fax: (941) 480-3558	
City:	State:	Zip Code:	
Water Sample Codes (for Item 13): DW = Drinking Water GW = Ground Water SW = Surface Water WW = Waste Water		Container Codes (for Item 16): V = VOA vial G = glass P = plastic O = other	Preservatives (for Item 15): C = Cool Only H = Hydrochloric Acid M = Monochloroacetic Acid OH = Sodium Hydroxide S = Sulfuric Acid T = Sodium Thiosulfate
14. 15.	16.	17.	20. REMARK
21. RELINQUISHED BY: <u>                    </u> DATE: <u>10/20/11</u> TIME: <u>1430</u> 22. RECEIVED BY: <u>                    </u> DATE: <u>11-1-11</u> TIME: <u>1420</u> 23. EQUIPMENT RENTAL FEE: <u>                    </u> Hrs. <u>                    </u> 24. PROFILE NO.: <u>                    </u> QUOTE NO.: <u>                    </u>			

Form FD 900-7: Field Parameter Data Sheet for Surface Water

Form FD 900-7:  
Central County

METER # 161-550

[illegible]

**Note:** This Sheet is used for recording Sample Data – Calibration information must also be documented



Document Name:  
Sample Condition Upon Receipt Form  
Document No.:  
F-FL-C-007 rev. 04

Document Revised:  
September 23, 2011  
Issuing Authorities:  
Florida Quality Office

Sample Condition Upon Receipt Form (SCUR)

Table Number: \_\_\_\_\_

Client Name: Sarasota City Project # \_\_\_\_\_

Courier: ☐ Fed Ex ☐ UPS ☐ USPS ☐ Client ☒ Commercial ☐ Pace ☐ Other \_\_\_\_\_

Tracking # \_\_\_\_\_

Custody Seal on Cooler/Box Present: ☐ yes ☒ no Seals Intact: ☐ yes ☐ no

Packing Material: ☒ Bubble Wrap ☒ Bubble Bags ☐ None ☐ Other \_\_\_\_\_

Thermometer Used T73 Type of Ice: Wet Blue None

Cooler Temperature°C 1.1 (Visual) -1.2 (Correction Factor) .9 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?

☐ Yes ☐ No

Date and Initials of person examining contents: 11-2-11

Receipt of samples satisfactory: ☐ Yes ☐ No

Rush TAT requested on COC: \_\_\_\_\_

If yes, then all conditions below were met:

If no, then mark box & describe issue (use comments area if necessary):

Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: \_\_\_\_\_ Date/Time: \_\_\_\_\_

Comments/ Resolution (use back for additional comments): \_\_\_\_\_

Project Manager Review: \_\_\_\_\_ Date: \_\_\_\_\_

Finished Product Information Only

F.P. Sample ID: \_\_\_\_\_

Size & Qty of Bottles Received

Production Code: \_\_\_\_\_

Date/Time Opened: \_\_\_\_\_

Number of Unopened Bottles Remaining: \_\_\_\_\_

\_\_\_\_\_  
x 5 Gal  
\_\_\_\_\_  
x 2.5 Gal  
\_\_\_\_\_  
x 1 Gal  
\_\_\_\_\_  
x 1 Liter  
\_\_\_\_\_  
x 500 mL  
\_\_\_\_\_  
x 250 mL  
\_\_\_\_\_  
x Other: \_\_\_\_\_

Extra Sample in Shed: Yes No

**Pace Analytical**  
www.pacelabs.com

Owner Received Date: 11/2/2011 Results Requested By: 11/16/2011

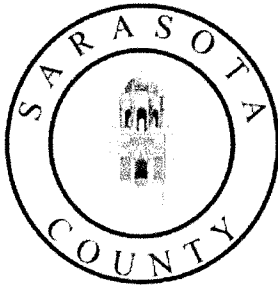
**Pace Analytical Green Bay**  
1241 Bellevue Street  
Suite 9  
Green Bay, WI 54302  
Phone (920) 469-2436

[illegible]

Cooler Temperature on Receipt	°C		Y or N		Received on Ice		Y or N		Samples Intact		Y or N	
			Custody Seal	Y or N								

Please email all results in a NELAC-compliant Florida MDL PDF format to Joe Vondrick at [Joe.vondrick@pacelabs.com](mailto:Joe.vondrick@pacelabs.com) soon as possible.





Sarasota County  
Solid Waste Operations

---

Central County Solid Waste Disposal Complex  
Water Quality Monitoring Plan  
June 15, 2012

---

# **WATER QUALITY MONITORING PLAN**

## **CENTRAL COUNTY SOLID WASTE DISPOSAL COMPLEX SARASOTA COUNTY, FLORIDA**

**WACS ID No: SWD/58/51614**

**June 15, 2012**

### **Prepared From:**

Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 – Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002

SCS Engineers, 3012 U.S. Highway 301 North, Suite 700, Tampa, Florida 33619

"Revisions to Section 4.0 of the SCS document" – dated February 22, 2007  
PBS&J, 428 South Keller Road, Orlando, Florida 32810-6101

"Water Quality Monitoring Plan Addendum" – April 23, 2009  
HDR, 5426 Bay Center Drive, Suite 400, Tampa, Florida 33609-3444

"Water Quality Monitoring Plan Addendum" – dated July 2010  
HDR, 5426 Bay Center Drive, Suite 400, Tampa, Florida 33609-3444

This Water Quality Monitoring Plan was developed from information contained within the documents listed above at the request of the Florida Department of Environmental Protection (FDEP) on September 22, 2010. The request made by FDEP was to combine the information from the four documents into one complete water quality monitoring plan. Each of the documents were signed and sealed by a registered professional geologist or professional engineer prior to submittal to the Florida Department of Environmental Protection.

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## **SECTION 1.0**

### **INTRODUCTION**

The Florida Department of Environmental Protection (FDEP), Permit Number S058-299180 to operate the Central County Solid Waste Disposal Complex was issued to the Sarasota County Solid Waste Operations on July 30, 1997. Operation of the landfill began on June 15, 1998. Since this date, the original permit expired and the landfill has been further developed to include an additional Phase, know as Phase II. The current permit for the operation of the landfill is, Permit Number 130542-0007-SO/01. It was issued on November 18, 2008 and expires on November 18, 2013.

As specified by 62-701.510(2), F.A.C., the permittee shall provide FDEP with a Water Quality Monitoring Plan (WQMP) for the landfill site that describes the ground water, surface water and leachate monitoring systems. This document satisfies this requirement.

## **SECTION 2.0**

### **GROUNDWATER**

#### **2.1 MONITORING AND PIEZOMETER WELLS**

The groundwater monitoring program consists of collecting groundwater samples from the locations listed in Table 2-1.

The monitoring program includes sampling one background well and nine detection wells. All wells are installed in the surficial aquifer. There is no intermediate aquifer (permeable beds of the Hawthorn Group) or Floridan aquifer monitoring wells used as part of the groundwater monitoring program.

Monitoring wells MW-3 and MW-5 are inactive, but are used for water level measurements. These wells are included in the groundwater monitoring program for water level data collection only.

Figure 1 shows the monitoring well locations.

(REMAINDER OF PAGE INTENTIONALLY LEFT BLANK)

**TABLE 2-1. GROUNDWATER MONITORING WELLS AT CCSWDC**

<b>Well Number</b>	<b>WACS ID#</b>	<b>Aquifer Monitored</b>	<b>Purpose</b>	<b>Comments</b>
MW-1R	20585	Surficial	Background	MW-1 replaced due to groundwater level not in screen
MW-3	4503	Surficial	Piezometer	Used for water level elevation only
MW-5	4505	Surficial	Piezometer	Used for water level elevation only
MW-8A	21453	Surficial	Detection	MW-8 replaced due to groundwater level not in screen
MW-9	4509	Surficial	Detection	
MW-10R*	4510	Surficial	Detection	MW-10R was a replacement well for MW-10 - May 1996
MW-15	23031	Surficial	Detection	Phase II
MW-16	23032	Surficial	Detection	Phase II
MW-17	23033	Surficial	Detection	Phase II
MW-18	23034	Surficial	Detection	Phase II
MW-19	23035	Surficial	Detection	Phase II
MW-20	23036	Surficial	Detection	Phase II

## **2.2 MONITORING WELL INSTALLATION, DESIGN AND ABANDONMENT**

Monitoring wells shall be constructed as shown on Figure 2, Typical Groundwater Monitoring Well. Record drawings for all newly installed groundwater monitoring wells shall be submitted to the FDEP on Form 62-701.900(30), Monitoring Well Completion Report, Attachment A.

An initial sampling event shall be conducted within seven (7) days of well installation and development, for the analysis of the field and laboratory parameters currently required by the facility permit.

All groundwater monitoring wells shall have protective bollards or other devices installed around them if they are located in areas of high traffic flow in order to prevent damage to the well. Wells shall be clearly labeled, visible and locked when not in use, in order to minimize the potential for unauthorized access.

FDEP shall be notified in writing when any monitoring well is damaged or site conditions require a well to be abandoned. All wells shall be plugged so that they do not act as a conduit for leachate release to the groundwater.

### 2.3 MONITORING WELL SAMPLING AND ANALYSIS

FDEP shall be notified 14 days prior to conducting any routine sampling event, so that the Department may collect split samples.

Groundwater elevations will be measured at all active wells and piezometers during all sampling events to a precision of 0.01 foot. The water surface contour maps prepared for each sampling event will include ground water elevations (measured in feet NGVD) calculated for each well and piezometer well. In addition to the water level measurements taken from the groundwater monitoring wells, surface water elevations shall also be measured at the staff gauge locations listed in Table 2-2 for each sampling event. A water table surface elevation contour map shall be prepared for each set of water level measurements and submitted to FDEP for all routine ground water sampling events and monitoring plan evaluation reports. Figure 1 shows the location of staff gauges.

Groundwater monitoring wells are sampled semi-annual for the following parameters:

#### Field Parameters

- Static water level before purging
- Specific conductance
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Color and sheen by observation
- Groundwater Elevation

#### Laboratory Parameters (Unfiltered)

- Total ammonia-nitrogen
- Bicarbonate
- Carbonate
- Chlorides
- Nitrate
- Sulfate
- Total Dissolved Solids (TDS)
- Calcium
- Iron
- Magnesium
- Mercury
- Potassium
- Sodium
- Parameters listed in 40 Code of Federal Regulations (CFR) Part 258, Appendix I

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

**TABLE 2-2. STAFF GAUGE LOCATIONS AT CCSWDC**

<b>Gauge Name</b>	<b>Location</b>
STW-1	Storm Pond 1
STW-2	Storm Pond 2
STW-3	Storm Pond 3
STW-4	Storm Pond 4
STW-5A	Storm Pond 5, west side
STW-5B	Storm Pond 5, east side
STW-6	Storm Pond 6
STW-7	Storm Pond 7

### **SECTION 3.0**

#### **SURFACE WATER**

##### **3.1 SURFACE WATER MONITORING LOCATIONS**

The surface water monitoring sites include one upgradient location, Pond 1, along the north side of the active landfill, and one downgradient location, Pond 2, along the west side of the active landfill. The site characteristics are described in Table 3-1, and surface water monitoring locations are shown on Figure 1.

**TABLE 3-1. SURFACE WATER MONITORING LOCATIONS AT CCSWDC**

<b>Surface Water Monitoring Location</b>	<b>WACS ID#</b>	<b>Water Body Monitored</b>	<b>Purpose</b>
Pond 1 (at STW-1)	TBD	Pond 1	Surface Water Collection and Upgradient
Pond 2 (at STW-2)	TBD	Pond 2	Surface Water Collection and Downgradient

### 3.2 SURFACE WATER SAMPLING AND ANALYSIS

Surface water locations are sampled semi-annual for the following parameters:

#### Field Parameters

- Specific conductivity
- pH
- Dissolved oxygen
- Turbidity
- Temperature
- Color and sheen by observation
- Surface Water Elevation

#### Laboratory Parameters (Unfiltered)

- Chlorophyll A
- Total hardness (as mg/L  $\text{CaCO}_3$ )
- Total phosphorus (as mg/L P)
- Calcium
- Iron
- Magnesium
- Mercury
- Potassium
- Sodium
- Sulfate
- Nitrate
- Total nitrogen
- Unionized ammonia
- Biochemical oxygen demand ( $\text{BOD}_5$ )
- Chemical oxygen demand (COD)
- Total organic carbon (TOC)
- Total dissolved solids (TDS)
- Total suspended solids (TSS)
- Fecal coliform
- Bicarbonate
- Carbonate
- Those parameters listed in 40 CFR Part 258, Appendix I



## SECTION 4.0

### LEACHATE

#### 4.1 LEACHATE SAMPLING LOCATIONS

There are five leachate pump stations with sampling ports located on the north side of the Phase I area and one leachate sample port located at the pump station for the Phase II cells. The leachate monitoring locations are listed in Table 4-1. and leachate sampling locations are shown on Figure 1.

**TABLE 4-1. LEACHATE SAMPLING LOCATIONS AT CCSWDC**

<b>Leachate Monitoring Location</b>	<b>WACS ID#</b>	<b>Location</b>
C-1	20580	Cell No. 1, Phase I
C-2	20581	Cell No. 2, Phase I
C-3	20582	Cell No. 3, Phase I
C-4	20583	Cell No. 4, Phase I
C-5	20584	Cell No. 5, Phase I
P2-1	23037	Cells No. 1-4, Phase II

#### 4.2 LEACHATE SAMPLING AND ANALYSIS

A composite leachate sample for the Phase I sampling ports may be collected for the inorganic parameters only. Otherwise individual leachate samples shall be collected from each of the sampling locations. Leachate samples from the Phase I and Phase II areas shall not be composited. The leachate sampling locations are sampled semi-annual for the following parameters:

##### Field Parameters

- Specific conductivity
- pH
- Dissolved oxygen
- Color and sheen by observation
- Temperature

##### Laboratory Parameters (Unfiltered)

- Total ammonia – N
- Total alkalinity (as mg/L CaCO<sub>3</sub>)
- Carbonate

- Chlorides
- Nitrate
- Sulfate
- Total dissolved solids (TDS)
- Biochemical oxygen demand (BOD<sub>5</sub>)
- Chemical oxygen demand (COD)
- Calcium
- Iron
- Magnesium
- Mercury
- Potassium
- Sodium
- Those parameters listed in 40 CFR Part 258, Appendix II, as well as the field parameters (only for sampling event during the second half of year)

Compositing of inorganics will be performed as follows:

Two liters of sample will be collected at each active leachate sump. These will be combined into a single container in the field. Three aliquots (sub-samples) will be collected from the container for analysis as indicated below:

Aliquot 1: 250 ml sample container, preserved with sulfuric acid to be analyzed for:

- Total ammonia – N
- COD

Aliquot 2: 1,000 ml sample container, no preservatives, to be analyzed for:

- Total alkalinity (as mg/L CaCO<sub>3</sub>)
- Carbonate
- Chloride
- Nitrate
- Sulfate
- Total dissolved solids
- BOD

Aliquot 3: 500 ml sample container, preserved with nitric acid, to be analyzed for:

- Calcium
- Iron
- Magnesium
- Mercury
- Potassium
- Sodium
- 40 CFR Part 258 Appendix II Metals (annually only)

## SECTION 5.0

### CONDENSATE

#### 5.1 CONDENSATE SAMPLING

A condensate sample from the landfill gas collection system shall be sampled annually during the second half of the year for the parameters listed below. The condensate sampling location is listed in Table 5-1 and the condensate sampling location is shown on Figure 1.

**TABLE 5-1. CONDENSATE MONITORING LOCATION AT CCSWDC**

Condensate Monitoring Location	WACS ID#	Location
S-4	23346	Condensate Sump S-4

#### Field Parameters

- Specific conductivity
- pH
- Dissolved oxygen
- Color and sheen by observation
- Temperature

#### Laboratory Parameters (Unfiltered)

- Total ammonia – N
- Total alkalinity (as mg/L CaCO<sub>3</sub>)
- Carbonate
- Chlorides
- Nitrate
- Sulfate
- Total dissolved solids (TDS)
- Biochemical oxygen demand (BOD<sub>5</sub>)
- Chemical oxygen demand (COD)
- Calcium
- Iron
- Magnesium
- Mercury
- Potassium
- Sodium
- Those parameters listed in 40 CFR Part 258, Appendix II, as well as the field parameters

Dept. of Environmental  
Protection  
JUN 18 2012  
Southwest District

## **SECTION 6.0**

### **REPORTING**

#### **6.1 WATER QUALITY MONITORING REPORTS**

Results of all sampling events shall be submitted to FDEP within 60 days from completion of laboratory analyses, unless a different due date has been specified in the permit. Water quality data shall be provided to the FDEP in an electronic format, unless an alternate form of submittal is specified. Form 62-701.900(31) (Attachment B), Water Quality Monitoring Certification, shall be used to certify that the laboratory results have been reviewed and approved by the county. At a minimum, the report shall include the following:

1. The facility name and identification number, sample collection dates and analysis dates;
2. All analytical results;
3. Identification number and designation of all surface water and groundwater monitoring points;
4. Applicable water quality standards;
5. Quality assurance, quality control notations;
6. Method detection limits;
7. STORET code numbers for all parameters;
8. Water levels recorded prior to evaluating wells or sample collection;
9. Updated groundwater table contour map signed and sealed by a professional geologist or profession engineer;
10. A summary of any water quality standards or criteria that are exceeded.

#### **6.2 EVALUATION OF WATER QUALITY MONITORING PLAN**

An evaluation of the water quality monitoring plan for the Central County Solid Waste Disposal Complex shall be conducted every two and one-half years. The WQMP evaluation is required to include an assessment of the effectiveness of the existing landfill design and operation as related to the prevention of groundwater contamination. A report detailing the findings and recommendations to improve the WQMP shall be submitted to the Florida Department of Environmental Protection. The requirements of F.A.C. 62-701.510(9)(b) include the following items that, at a minimum, must be included in the evaluation:

1. Tabular and graphical displays of any data which show that a monitoring parameter has been detected, including hydrographs for all monitoring wells.
2. Trend analyses of any monitoring parameters detected.
3. Comparisons among shallow, middle, and deep zone wells.
4. Comparisons between background water quality and the water quality in detection and compliance wells.
5. Correlations between related parameters such as total dissolved solids and specific conductance.

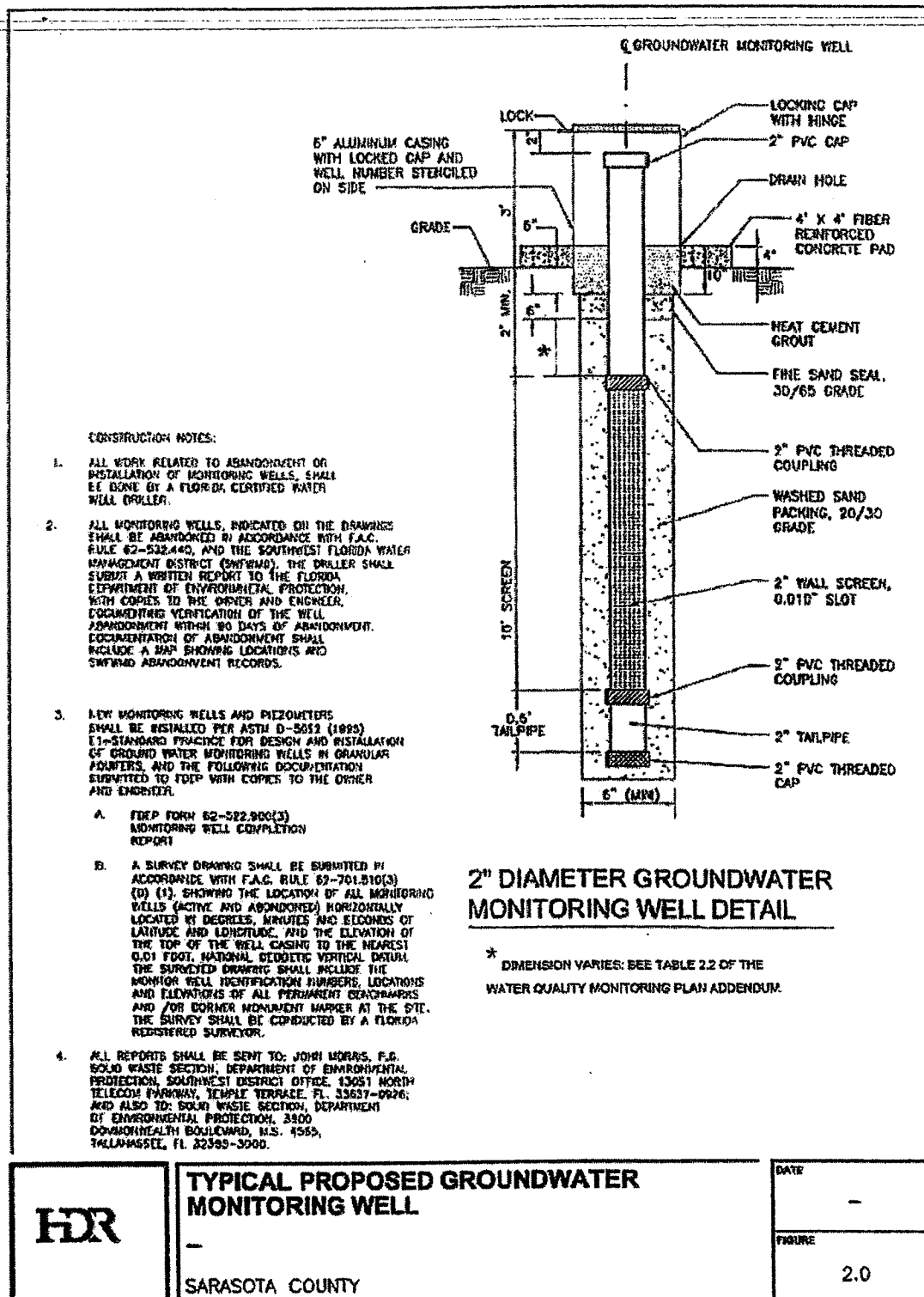
6. Discussion of erratic and/or poorly correlated data.
7. An interpretation of the groundwater contour maps, including an evaluation of groundwater flow rates.
8. An evaluation of the adequacy of the water quality monitoring frequency and sampling locations based upon site conditions.

Figure 1

Site Plan – CCSWDC (figure provided as part of permit modification submittal)

Figure 2  
Typical Groundwater Monitoring Well

### Figure 2 Typical Groundwater Monitoring Well





Attachment A

FDEP Form 62-701.900(30)

Monitoring Well Completion Report, page 1.

of Environment  
Protection  
JUN 18 2012  
Southwest District

Attachment A

FDEP Form 62-701.900(30)

Monitoring Well Completion Report, page 2.



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3), F.A.C.

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS FACILITY ID NO.: \_\_\_\_\_

WACS MONITORING SITE NUM.: \_\_\_\_\_ WACS WELL NO.: \_\_\_\_\_

WELL TYPE: BACKGROUND ☐ DETECTION ☐ COMPLIANCE ☐

LATITUDE: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ " LONGITUDE: \_\_\_\_\_ ° \_\_\_\_\_ ' \_\_\_\_\_ "

(see back for LAT / LONG requirements):

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

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

Northeast District  
7825 Baymeadows Way Ste 200B  
Jacksonville, FL 32256-7590  
904-807-3300

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

Southwest District  
13051 N. Telecom Pky.  
Temple Terrace, FL  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33901-3881  
239-332-6975

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

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

Attachment B  
FDEP Form 62-701.900(31)  
Water Quality Monitoring Certification



# Florida Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form #: 62-701.900(31), F.A.C.

Form Title: Water Quality Monitoring Certification

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(9), F.A.C.

## WATER QUALITY MONITORING CERTIFICATION

### PART I GENERAL INFORMATION

- (1) Facility Name \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_
- (2) WACS Facility ID \_\_\_\_\_
- (3) DEP Permit Number \_\_\_\_\_
- (4) Authorized Representative's Name \_\_\_\_\_ Title \_\_\_\_\_  
Address \_\_\_\_\_  
City \_\_\_\_\_ Zip \_\_\_\_\_ County \_\_\_\_\_  
Telephone Number (\_\_\_\_) \_\_\_\_\_  
Email address (if available) \_\_\_\_\_

### 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 submission of false information including the possibility of fine and imprisonment.

\_\_\_\_\_  
(Date)

\_\_\_\_\_  
(Owner or Authorized Representative's Signature)

### PART II QUALITY ASSURANCE REQUIREMENTS

- Sampling Organization \_\_\_\_\_
- Analytical Lab NELAC / HRS Certification # \_\_\_\_\_
- Lab Name \_\_\_\_\_
- Address \_\_\_\_\_
- Phone Number (\_\_\_\_) \_\_\_\_\_
- Email address (if available) \_\_\_\_\_

Northwest District  
160 Government Center  
Pensacola, FL 32501-5784  
850-595-8360

Northeast District  
7825 Baymeadows Way, Ste. 200 B  
Jacksonville, FL 32256-7590  
904-807-3300

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

Southwest District  
13051 N. Telecom Pky.  
Temple Terrace, FL  
813-632-7600

South District  
2295 Victoria Ave., Ste. 364  
Fort Myers, FL 33902-2549  
239-332-6975

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

**Southwest District  
Permitting Application**

New Site

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

Existing Site

Site ID: 130542 - 19		
Project Name: SARASOTA CENTRAL OPS MOD - MON PLAN	WACS ID#: 51614	
Type/Subcode: 50/MM	New / <u>Modification</u> / Renewal	
Fee submitted: \$ 250.00	(✓) correct	( ) incorrect
Total Fee Required \$ 250.00 Need \$ <u>0</u> Refund \$ <u>0</u>		

**Applicant Information**

Name: LOIS ROSE		
Role: APPLICANT		
Company: SARASOTA COUNTY SOLID WASTE OPERATIONS		
Address: 4000 KNIGHTS TITAN ROAD		
City: NOKOMIS	State: FL	Zip Code: 34275
Phone: 941-851-1589		

Fee verified by: JR MORRIS

Application Assigned To: JR MORRIS Date: 6/19/2012



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

CERTIFIED MAIL 7009 1680 0001 0455 7261  
RETURN RECEIPT REQUESTED

May 4, 2012

## NOTICE OF PERMIT

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

*REPLACES BY MODIFICATION  
#130542-019-SO/MM  
ISSUED 9/14/12*

Re: Sarasota Central County Solid Waste Disposal Complex Class I LF  
Modification #130542-018-SO/MM to existing  
Operation Permit #130542-007-SO/01, Sarasota County

Dear Ms. Rose:

Attached is modified **Operation Permit 130542-007-SO/01**, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 130542-018-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Page 1 of 39	Existing	Amended	Reference to temporary stormwater management system and Permit Modification No. 130542-018-SO/MM added.
#A.2.f.(1) & (3)	Existing	Amended	Revised Operations Plan referenced.
#A.2.g.	-	New	Additional permitting documents referenced.
#A.3.e.	-	New	Authorizes operation of temporary stormwater management system in Cells 2-4 upon submittal & approval of construction certification information.
#A.3.f.	-	New	Upon construction of temporary stormwater management system in Cells 2-4, does not authorize operation (i.e. waste disposal) in Cells 2-4 until construction certification information for restored leachate collection system is submitted to and approved by Department.



SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#C.1.a. #C.8.a. #C.8.c.(3) #C.8.i.(1) #D.2.b.	Existing	Amended	Revised reference to Operations Plan.
#C.7.e.	-	New	Requires operation of temporary stormwater management system in accordance with Section K.2.h. of Operations Plan.

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

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

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

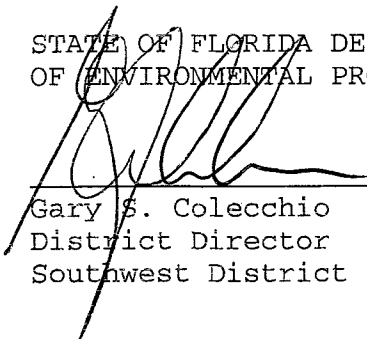
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Gary S. Colecchio  
District Director  
Southwest District

GSC/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification  
Dan Cooper, P.E., SCS Engineers, [dcooper@scsengineers.com](mailto:dcooper@scsengineers.com)  
Richard Tedder, FDEP Tallahassee, (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Chris McGuire, OGC Tallahassee (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

PERMITTEE: Sarasota County Solid Waste Operations  
Ms. Lois Rose, Manager

Permit Mod No: 130542-018-SO/MM  
Central County SW Disposal Complex Operation  
Page 4 of 4

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on May 4, 2012 to the listed persons.

Clerk 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 Bratty  
Clerk

5/4/2012  
Date



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: **130542-007-SO/01**  
Date of Issue: **11/18/2008**  
Expiration Date: **11/18/2013**  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System
4. Temporary Stormwater Management System in Cells 2-4

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010, 130542-015-SO/MM, dated 03/15/2011, and 130542-018-SO/MM, dated 05/04/2012.

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

**GENERAL CONDITIONS:**

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

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for **operation** of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) *Operations Plan*, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) *Water Quality Monitoring Plan Addendum*, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]. Amended 03/15/2011.



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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above; replaced by Op. Plan referenced in SC #A.2.g.1. below];  
**Amended 05/04/2012.**

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above];

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above; and included in Op. Plan referenced in SC #A.2.g.1. below].  
**Amended 05/04/2012.**

New 03/15/2011.

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

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

g. Application for Construction/Minor Modification to Class I Operation Permit - Central County Solid Waste Disposal Complex (CCSWDC)... (one 3-ring binder and plan set) dated January 19, 2012 (received January 23, 2012), as revised, replaced or amended (replacement pages inserted into original\*) dated March 2, 2012 (received March 5, 2012), prepared by SCS Engineers. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.f.(1), above];

2) Plan Set titled, Sarasota County Central County Solid Waste Disposal Complex Stormwater Management System Improvements (7 Sheets) dated February 2012 (received March 5, 2012).

New 05/04/2012.

3. **Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

c. This permit does not authorize the operation of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.

2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,

3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.

4) Construction of the stormwater management system,

5) Financial assurance requirements of Specific Condition #D.4.b.,

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

(Specific Condition #A.3., cont'd)

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

e. This permit authorizes the **operation** of the temporary stormwater management system in Cells 2-4 of Phase II upon completion of the following requirements and submittal by the Permittee to and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.a. of Construction Permit No. 130542-017-SC/08 or its successors.

New 05/04/2012.

f. Upon completion of construction and approval by the Department of the temporary stormwater management system in Cells 2-4 in accordance with Specific Condition A.3.e. above, this permit does not authorize the **operation** of the Phase II, Cells 2-4 portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.b. of Construction Permit No. 130542-017-SC/08 or its successors, for the removal of the temporary stormwater management system and restoration of the leachate collection system for each cell in Cell 2-4 of Phase II.

New 05/04/2012.

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.  
Amended 03/15/2011.

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 January 6, 2010, 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.

Amended 04/08/2010.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. 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.6.b., below.

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

**1. Construction.**

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

b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors. New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.g.(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f.(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010 ; 03/15/2011.; and 05/04/2012.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f.]. Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
Amended 03/15/2011.

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec.K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec. K.5]. 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 [ref. Op. Plan, Sec. K.6]. 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 [ref. SC#D.3.b.(3)].

b. The permittee shall not dispose of any 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.6.



**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
New 03/15/2011.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
Amended 06/24/2009.

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

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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. 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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

- c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.
- d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.
- e. The permittee shall operate to temporary stormwater management system in Cells 2-4 of Phase II in accordance with the procedures described in Section K.2.h. of the Operations Plan.  
**New 05/04/2012.**

**8. Leachate Management.**

- a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref.SC#A.2.g.(1)], and other applicable Department rules.  
**Amended 03/15/2011; 05/04/2012.**
- b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
**Amended 03/15/2011.**

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

- 1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.
- 2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

- 3) 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.g.(1)].  
**Amended 03/15/2011; 05/04/2012.**

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

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

4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].

5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.

6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

7) 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.

8) Leachate tank inspections.

a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.

b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.

c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.

d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** Leachate generation reports shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
Amended 03/15/2011.

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.g.(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:

**Amended** 03/15/2011; 05/04/2012.

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

**Amended** 03/15/2011.

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. **Asbestos.** Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. **Contaminated Soil.** Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. **Used Oil.** Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.



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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c.].

**11. Waste Covering Requirements.** All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].

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

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; OR
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, AND
- c) has no evidence of leachate seepage, AND
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 Operations Plan [ref. Op. Plan, Sec. K.2.g.]. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

**b. Initial Waste Placement.**

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.g.(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 Operations 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.

**Amended** 03/15/2011; 05/04/2012.

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

**Amended** 06/24/2009 and 03/15/2011.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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) annually, by January 15<sup>th</sup> 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.  
Amended 03/15/2011.

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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.  
Amended 03/15/2011.

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, 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 regarding the collection of ground water, surface water, leachate, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009 and 03/15/2011.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f.(2)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

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

(Specific Condition #E.3., continued)

WACS					
Well #	Testsite ID #	Scheduling Notes	Aquifer	Designation	Location
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
<del>MW-11R</del>	<del>20588</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>See Figure 1</del>
<del>MW-12R</del>	<del>20589</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>↓</del>
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed **at least 30 days prior to initiation of debris disposal in Phase II, Cell 1**

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted **within 30 days of installation** in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted **within 7 days of well installation and development** for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010 and 03/15/2011.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.3 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)] Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix II</b>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.



**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

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 #62-701.900(30) [**attached**].  
Amended 04/08/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of 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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.

Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.

Amended 04/08/2010.

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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009 and 03/15/2011.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

Amended 06/24/2009 and 03/15/2011.

Surface Water ID #	WACS Testsite ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location

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 the locations described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens (by observation)	Magnesium	Chemical oxygen demand (COD)
Surface water elevation	Mercury	Total organic carbon (TOC)
	Potassium	Total dissolved solids (TDS)
	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Amended 04/08/2010 and 03/15/2011.

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

9. **Leachate Sampling.** Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)]:

**Amended 03/15/2011.**

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (**attached**), as follow:

<b>Leachate Sample ID #</b>	<b>Landfill Cell</b>	<b>WACS Testsite ID #</b>
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the **inorganic parameters** only presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011

[ref. SC#A.2.f.(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.

**Amended 06/24/2009 and 03/15/2011.**

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

<b>Field Parameters</b>	<b>Laboratory Parameters</b>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	

**Amended 04/08/2010 and 03/15/2011.**

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.

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

(Specific Condition #E.9., continued)

d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include: Amended 03/15/2011.

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
Amended 04/08/2010.
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01);  
and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**

2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;**

6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted **within 30 days from completion of laboratory analyses; and,**

7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the period July 1 to December 31.

Amended 06/24/2009 and 03/15/2011.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009 and 03/15/2011.

**Water Quality Monitoring  
Data Evaluation Due Date**  
May 18, 2011

**Starting  
Sampling Event**  
First half 2007

**Ending  
Sampling Event**  
Second half 2010

**September 18, 2013**

**First half 2011**

**Second half 2012**

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, FL 33637-0926.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received **December 30, 2010 (attached)**, 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref.SC#A.2.g.(1)], at the following locations:

<u>Monitoring Point</u>	<u>Scheduling Notes</u>	<u>Location</u>	<u>Location Description</u>
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref.SC#A.2.a.(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009; 03/15/2011; and 05/04/2012.

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.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref.SC #A.2.f.(3)] any other applicable requirements.  
Amended 03/15/2011.

b. Annual condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] for analysis of the leachate parameters listed in Specific Conditions #E.9.b. and #E.9.c. [ref. SC #A.2.f.(3), Sec 8.2 & ref. SC #A.2.d.(3), Sheet C-05 ]  
Amended 03/15/2011.

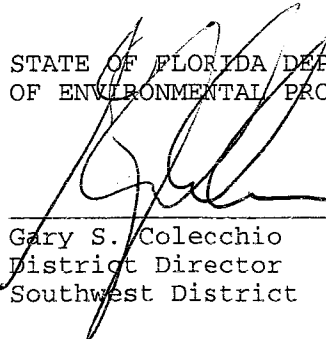
New 06/24/2009

**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, 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.
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
Amended 03/15/2011.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
Gary S. Colecchio  
District Director  
Southwest District



ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
E.9.b.	Semi-annually	Conduct leachate sampling
E.9.c.	Annually	Conduct leachate sampling
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application





# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

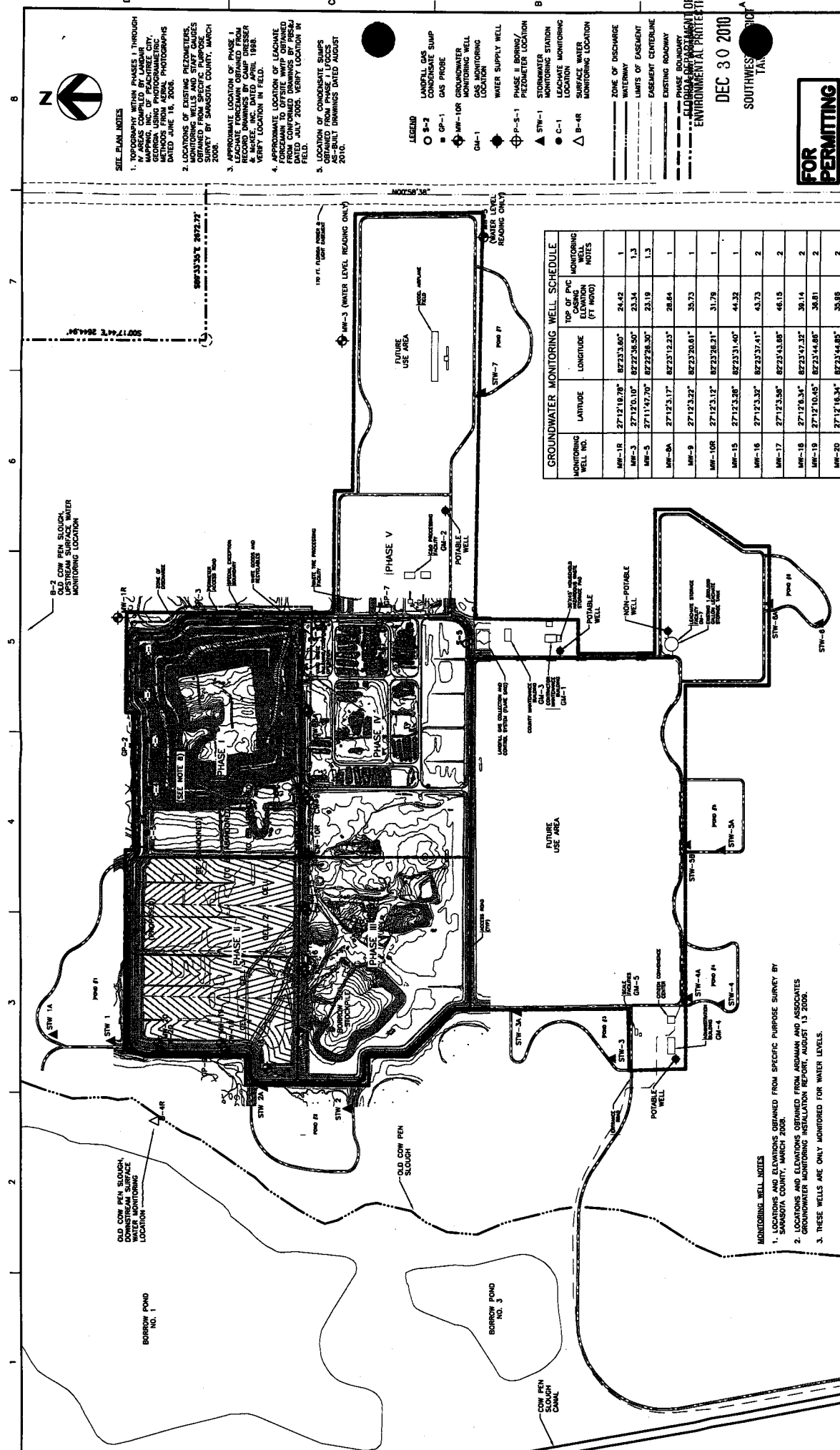
Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



**SITE PLAN NOTES**

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV AREAS COMPILED BY LANDAIR PHOTOGRAPHIC, INC., GAITHERSBURG, MARYLAND, USING AERIAL PHOTOGRAPHS DATED APRIL 16, 2008.
2. LOCATIONS OF EXISTING PNEUMATIC TEST PITS AND MONITORING WELLS OBTAINED FROM SPECIFIC PLANS, COUNTY OF SAKAOKA COUNTY, MARCH 2008.
3. APPROXIMATE LOCATION OF PHASE I LEACHATE FORSLAND OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER ENGINEERING, INC., DATED JANUARY 1992.
4. APPROXIMATE LOCATION OF LEACHATE FORSLAND TO OFFSITE WITH OBTAINED FROM CONFIRMED DRAWINGS BY PERSA FIELD, JULY 2005. VERIFY LOCATION IN FIELD.
5. LOCATION OF CONDENSATE SUMP OBTAINED FROM PHASE I LTRCCS AS-BUILT DRAWINGS DATED AUGUST 2010.

**LEGEND**

- B-2 LANDFILL GAS CONDENSATE SUMP
- GP-1 GAS PROBE
- ◆ MW-10R GAS MONITORING WELL
- ◇ GW-1 GAS MONITORING LOCATION
- ◆ WATER SUPPLY WELL
- ⊕ P-1 PHASE II EXISTING / PNEUMATIC TEST PIT
- ▲ STW-1 STORMWATER TREATMENT WETLAND
- C-1 LEACHATE MONITORING LOCATION
- △ B-4R SURFACE WATER MONITORING LOCATION
- ZONE OF DISCHARGE
- WATERWAY
- LIMITS OF EASEMENT
- EASEMENT CENTERLINE
- EXISTING ROADWAY
- PHASE BOUNDARY
- PHASE II MONITORING OF ENVIRONMENTAL PROTECTION

DEC 30 2010  
SOUTHWEST TAC

**FOR PERMITTING**

MONITORING WELL NO.	LATITUDE	LONGITUDE	TOP OF PVC MONITORING WELL ELEVATION (FT MWD)	NOTES
MW-1R	27°12'18.78"	82°23'33.80"	24.42	1
MW-3	27°12'00.10"	82°22'36.50"	23.34	1.3
MW-5	27°11'47.70"	82°22'26.30"	23.19	1.3
MW-9A	27°12'33.17"	82°23'12.23"	26.84	1
MW-9	27°12'33.27"	82°23'20.61"	35.73	1
MW-10R	27°12'33.12"	82°22'36.21"	31.78	1
MW-15	27°12'33.95"	82°23'31.40"	41.32	1
MW-16	27°12'33.37"	82°23'37.41"	43.73	2
MW-17	27°12'33.85"	82°23'43.88"	46.15	2
MW-18	27°12'18.34"	82°23'42.37"	38.14	2
MW-19	27°12'10.45"	82°23'44.88"	36.81	2
MW-20	27°12'16.34"	82°23'44.85"	35.89	2

**Central County Solid Waste Disposal Complex  
PHASE II CLASS I LANDFILL  
EXPANSION  
PERMIT DRAWINGS**



FLORIDA  
SAKAOKA COUNTY

PROJECT MANAGER: R. SIKEMING  
REVIEWED BY: J. TIMMONS  
DRAWN BY: B. JOHNSON

ISSUE	DATE	DESCRIPTION
G	12/2010	ADD CONDENSATE SUMP, UPDATE WELLS
F	04/2009	REVISED PER MINOR PERMIT MODIFICATION
E	03/2008	REVISED PER RAN #4
D	01/2008	REVISED PER RAN #3
C	09/2007	REVISED PER RAN #2
B	06/2007	REVISED PER RAN #1
A	02/2007	ISSUED FOR APPROVAL

**HDR**  
Hydrologic Design Resources, Inc.  
1000 N. West 10th Ave., Suite 200  
Tomball, TX 77375  
713-261-2000  
www.hdrinc.com

PROJECT NUMBER: 0008-116883-01

**WATER QUALITY MONITORING PLAN**

FILE NAME: Figure 1.dwg  
SCALE: 1"=400'

**FIGURE 1**

Brantley, Anna

---

**From:** Brantley, Anna  
**Sent:** Friday, May 04, 2012 8:23 AM  
**To:** 'DCooper@SCSEngineers.com'; Tedder, Richard; McGuire, Chris; Morris, John R.; Stewart, Patricia; Pelz, Susan; Commissioner Carolyn Mason; Commissioner Christine Robinson; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; County Administrator Jim Ley; Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube; Representative Kenneth Roberson; Representative Ray Pilon; Senator Michael Bennett; Senator Nancy Detert  
**Cc:** Morgan, Steve  
**Subject:** Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614  
**Attachments:** Sarasota CCSWDC Phase I & II Operation Mod 130542-018-SO-MM NOP\_WACS 51614 - 5-4-2012.pdf

Attached please find Modification of Permit for the subject Solid Waste Facility. You will only receive this electronic copy of the document. Hard copy was sent via US Certified Mail.

**NOTE:** If you have questions concerning the content of the document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

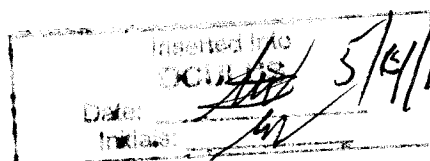
Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr. 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.*



Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube;  
Representative Kenneth Roberson; Representative Ray Pilon  
**Sent:** Friday, May 04, 2012 8:24 AM  
**Subject:** Relayed: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

Representative Darryl E. Rouson

Representative Doug Holder

Representative Greg Steube

Representative Kenneth Roberson

Representative Ray Pilon

**Subject:** Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

---

Sent by Microsoft Exchange Server 2007



Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** 'DCooper@SCSEngineers.com'  
**Sent:** Friday, May 04, 2012 8:24 AM  
**Subject:** Relayed: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'DCooper@SCSEngineers.com'

Subject: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

---

Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Commissioner Carolyn Mason; Commissioner Christine Robinson; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; County Administrator Jim Ley  
**Sent:** Friday, May 04, 2012 8:23 AM  
**Subject:** Relayed: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

Commissioner Carolyn Mason

Commissioner Christine Robinson

Commissioner Joe Barbetta

Commissioner Jon Thaxton

Commissioner Nora Patterson

County Administrator Jim Ley

Subject: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

---

Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Morris, John R.; Tedder, Richard; Pelz, Susan; Stewart, Patricia; Morgan, Steve  
**Sent:** Friday, May 04, 2012 8:23 AM  
**Subject:** Delivered: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

**Your message has been delivered to the following recipients:**

Morris, John R.

Tedder, Richard

Pelz, Susan

Stewart, Patricia

Morgan, Steve

Subject: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

---

Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** McGuire, Chris  
**Sent:** Friday, May 04, 2012 8:23 AM  
**Subject:** Delivered: Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

**Your message has been delivered to the following recipients:**

McGuire, Chris

**Subject:** Notice of Permit Modification of Operation Permit\_Sarasota CCSWDC\_WACS 51614

---

Sent by Microsoft Exchange Server 2007

# Memorandum

## Florida Department of Environmental Protection

### PERMIT COVER MEMO

TO: x Gary S. Colecchio, District Director

FROM/THROUGH:

Susan Pelz, P.E. *SP/12*, WASTE PROGRAM ADMINISTRATOR

Steve Morgan, SOLID WASTE PERMITTING *SP/12*

DATE: May 2, 2012

FILE NAME: Sarasota CCSWDC Class I Landfill  
Phase I & II Operation Modification

PERMIT MOD#: 130542-018-SO/MM

PERMIT #: 130542-007-SO/01

COUNTY : Sarasota

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: ISSUE FINAL PERMIT

**PERMIT SUMMARY:** This minor permit modification is to authorize the operation of a temporary stormwater management system within Cells 2-4 of Phase II of the facility and to require the removal of the temporary stormwater management system and restoration of the leachate collection system in each cell prior to operation (i.e. acceptance of waste) in Cells 2-4.

PROFESSIONAL RECOMMENDATION: x APPROVE      DENY

**EVALUATION SUMMARY:** The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit modification.

TIH= 100; TTP=83 (to 05/02/12)		TTP
Application rec'd	01/23/12	
RAI #1 sent	02/17/12	25
RAI #1 response rec'd	03/05/12	
Application complete	03/05/12	
Intent to Issue routed for signature	05/02/12	58

DAY 90/30 FOR THIS ACTION IS: Day 90 = 06-03-12

# NOTICE OF PERMIT MODIFICATION

## SARASOTA CCSWDC CLASS I LF, PHASE 1 & II OPERATION PERMIT MODIFICATION

PERMIT MOD. NO.: 130542-018-SO/MM

to existing permit

PERMIT NO.: 130542-007-SO/01

WACS Facility #SWD/58/51614  
Sarasota County

CERTIFIED MAIL NO.: 7009 1680 0001 0455 7261

Mailed May 4, 2012

U.S. Postal Service™	
<b>CERTIFIED MAIL™ RECEIPT</b>	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
<b>OFFICIAL USE</b>	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	
Sent To	Sarasota County
Street, Apt. No., or PO Box No.	Solid Waste Operations
City, State, ZIP+	c/o Ms. Lois Rose, Manager
	4000 Knights Trail Road
	Nokomis, FL 34275
PS Form 3800, August 2006	
See Reverse for Instructions	

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
<ul style="list-style-type: none"><li>Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.</li><li>Print your name and address on the reverse so that we can return the card to you.</li><li>Attach this card to the back of the mailpiece, or on the front if space permits.</li></ul>	<p>A. Signature <b>X</b> <i>B. Javores</i> <input type="checkbox"/> Agent <input type="checkbox"/> Addressee</p> <p>B. Received by (Printed Name) <i>B. Javores</i></p> <p>C. Date of Delivery <i>5-7-12</i></p> <p>D. Is delivery address different from item 1? <input type="checkbox"/> Yes <input type="checkbox"/> No If YES, enter delivery address</p> <p><b>FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION</b></p> <p><b>MAY 08 2012</b></p> <p><b>SOUTHWEST DISTRICT</b></p> <p>3. Service Type <b>TAMPA</b> <input checked="" type="checkbox"/> Certified Mail <input type="checkbox"/> Express Mail <input type="checkbox"/> Registered <input checked="" type="checkbox"/> Return Receipt for Merchandise <input type="checkbox"/> Insured Mail <input type="checkbox"/> C.O.D.</p> <p>4. Restricted Delivery? (Extra Fee) <input type="checkbox"/> Yes</p>
1. Article Addressed to: Sarasota County Solid Waste Operations c/o Ms. Lois Rose, Manager 4000 Knights Trail Road Nokomis, FL 34275 (ccswdc)	
2. Article Number (Transfer from service label) 7009 1680 0001 0455 7261	

NOF Mod # 130542-018-SO/MM to  
Permit # 130542-007-SO/01



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

**CERTIFIED MAIL 7009 1680 0001 0455 7261**  
**RETURN RECEIPT REQUESTED**

May 4, 2012

## NOTICE OF PERMIT

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

Re: Sarasota Central County Solid Waste Disposal Complex Class I LF  
Modification #130542-018-SO/MM to existing  
Operation Permit #130542-007-SO/01, Sarasota County

Dear Ms. Rose:

Attached is modified Operation Permit 130542-007-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 130542-018-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Page 1 of 39	Existing	Amended	Reference to temporary stormwater management system and Permit Modification No. 130542-018-SO/MM added.
#A.2.f.(1) & (3)	Existing	Amended	Revised Operations Plan referenced.
#A.2.g.	-	New	Additional permitting documents referenced.
#A.3.e.	-	New	Authorizes operation of temporary stormwater management system in Cells 2-4 upon submittal & approval of construction certification information.
#A.3.f.	-	New	Upon construction of temporary stormwater management system in Cells 2-4, does not authorize operation (i.e. waste disposal) in Cells 2-4 until construction certification information for restored leachate collection system is submitted to and approved by Department.

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#C.1.a. #C.8.a. #C.8.c.(3) #C.8.i.(1) #D.2.b.	Existing	Amended	Revised reference to Operations Plan.
#C.7.e.	-	New	Requires operation of temporary stormwater management system in accordance with Section K.2.h. of Operations Plan.

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

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

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



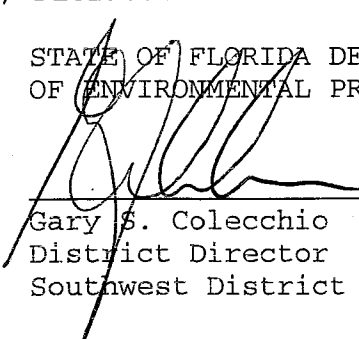
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION



Gary S. Colecchio  
District Director  
Southwest District

GSC/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification  
Dan Cooper, P.E., SCS Engineers, [dcooper@scsengineers.com](mailto:dcooper@scsengineers.com)  
Richard Tedder, FDEP Tallahassee, (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Chris McGuire, OGC Tallahassee (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

PERMITTEE: Sarasota County Solid Waste Operations  
Ms. Lois Rose, Manager

Permit Mod No: 130542-018-SO/MM  
Central County SW Disposal Complex Operation  
Page 4 of 4

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on May 4, 2012 to the listed persons.  
Clerk 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 Bratty  
Clerk

5/4/2012  
Date



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: **130542-007-SO/01**  
Date of Issue: **11/18/2008**  
Expiration Date: **11/18/2013**  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System
4. Temporary Stormwater Management System in Cells 2-4

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010, 130542-015-SO/MM, dated 03/15/2011, and 130542-018-SO/MM, dated 05/04/2012.

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

**GENERAL CONDITIONS:**

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

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

PERMITTEE: Sarasota County Solid Waste Operations  
Ms. Lois Rose, Manager

PERMIT NO: 130542-007-SO/01  
Central County SW Disposal Complex Operation

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for **operation** of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]. Amended 03/15/2011.

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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above; replaced by Op. Plan referenced in SC #A.2.g.1. below];  
**Amended 05/04/2012.**

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above];

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above; and included in Op. Plan referenced in SC #A.2.g.1. below].  
**Amended 05/04/2012.**

New 03/15/2011.



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

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

g. Application for Construction/Minor Modification to Class I Operation Permit - Central County Solid Waste Disposal Complex (CCSWDC)... (one 3-ring binder and plan set) dated January 19, 2012 (received January 23, 2012), as revised, replaced or amended (replacement pages inserted into original\*) dated March 2, 2012 (received March 5, 2012), prepared by SCS Engineers. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.f.(1), above];

2) Plan Set titled, Sarasota County Central County Solid Waste Disposal Complex Stormwater Management System Improvements (7 Sheets) dated February 2012 (received March 5, 2012).

New 05/04/2012.

3. **Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

c. This permit does not authorize the operation of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.

2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,

3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.

4) Construction of the stormwater management system,

5) Financial assurance requirements of Specific Condition #D.4.b.,

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

(Specific Condition #A.3., cont'd)

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

e. This permit authorizes the **operation** of the temporary stormwater management system in Cells 2-4 of Phase II upon completion of the following requirements and submittal by the Permittee to and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.a. of Construction Permit No. 130542-017-SC/08 or its successors.

New 05/04/2012.

f. Upon completion of construction and approval by the Department of the temporary stormwater management system in Cells 2-4 in accordance with Specific Condition A.3.e. above, this permit does not authorize the **operation** of the Phase II, Cells 2-4 portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

- 1) Certification of Construction Completion requirements of Specific Conditions #B.2.b. of Construction Permit No. 130542-017-SC/08 or its successors, for the removal of the temporary stormwater management system and restoration of the leachate collection system for each cell in Cell 2-4 of Phase II.

New 05/04/2012.

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.  
Amended 03/15/2011.

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 January 6, 2010, 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.

Amended 04/08/2010.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. 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.6.b., below.

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

**1. Construction.**

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

b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors. New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.g.(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f.(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010 ; 03/15/2011.; and 05/04/2012.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f.]. Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
Amended 03/15/2011.

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

- a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.
- b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec. K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].
- c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.
- d. 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. [ref. Op. Plan, Sec. K.5]. 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 [ref. Op. Plan, Sec. K.6]. 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 [ref. SC#D.3.b.(3)].
- b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
New 03/15/2011.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
Amended 06/24/2009.

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



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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. 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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

- c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.
- d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.
- e. The permittee shall operate to temporary stormwater management system in Cells 2-4 of Phase II in accordance with the procedures described in Section K.2.h. of the Operations Plan.  
**New 05/04/2012.**

**8. Leachate Management.**

- a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref. SC#A.2.g.(1)], and other applicable Department rules.  
**Amended 03/15/2011; 05/04/2012.**
- b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
**Amended 03/15/2011.**

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

- 1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.
- 2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

- 3) 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.g.(1)].  
**Amended 03/15/2011; 05/04/2012.**

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

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

4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].

5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.

6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.

7) 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.

8) Leachate tank inspections.

a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.

b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.

c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.

d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** Leachate generation reports shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
Amended 03/15/2011.

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.g.(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:

**Amended** 03/15/2011; 05/04/2012.

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

**Amended** 03/15/2011.

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. **Asbestos.** Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. **Contaminated Soil.** Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. **Used Oil.** Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements. All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].



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

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; **OR**
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, **AND**
- c) has no evidence of leachate seepage, **AND**
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 Operations Plan [ref. Op. Plan, Sec. K.2.g.]. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

**b. Initial Waste Placement.**

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.g.(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 Operations 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.

**Amended** 03/15/2011; 05/04/2012.

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

Amended 06/24/2009 and 03/15/2011.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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) annually, by January 15<sup>th</sup> 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.  
Amended 03/15/2011.

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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.  
Amended 03/15/2011.

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, 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 regarding the collection of ground water, surface water, leachate, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009 and 03/15/2011.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

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

(Specific Condition #E.3., continued)

WACS					
Well #	Testsite ID #	Scheduling Notes	Aquifer	Designation	Location
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
<del>MW-11R</del>	<del>20588</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>See Figure 1</del>
<del>MW-12R</del>	<del>20589</del>	<del>A, Z</del>	<del>Surficial</del>	<del>Detection</del>	<del>↓</del>
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2-0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted within 30 days of installation in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted within 7 days of well installation and development for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010 and 03/15/2011.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.3 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f.(2)] Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix II</b>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

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 #62-701.900(30) **[attached]**.  
Amended 04/08/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of 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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.  
Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.  
Amended 04/08/2010.



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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009 and 03/15/2011.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

Amended 06/24/2009 and 03/15/2011.

Surface	WACS Testsite	
Water ID #	ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location

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 the locations described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens	Magnesium	Chemical oxygen demand (COD)
(by observation)	Mercury	Total organic carbon (TOC)
Surface water	Potassium	Total dissolved solids (TDS)
elevation	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Amended 04/08/2010 and 03/15/2011.

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

9. **Leachate Sampling.** Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f(2)]:

**Amended 03/15/2011.**

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (**attached**), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>Landfill Cell</u>	<u>WACS Testsite</u> <u>ID #</u>
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the **inorganic parameters** only presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011

[ref.SC#A.2.f(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.

Amended 06/24/2009 and 03/15/2011.

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	

Amended 04/08/2010 and 03/15/2011.

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.

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

(Specific Condition #E.9., continued)

d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
Amended 03/15/2011.

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
Amended 04/08/2010.
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01);  
and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**

2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;

5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;**

6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted **within 30 days from completion of laboratory analyses; and,**

7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the period July 1 to December 31.

Amended 06/24/2009 and 03/15/2011.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009 and 03/15/2011.

**Water Quality Monitoring  
Data Evaluation Due Date**  
May 18, 2011

**Starting  
Sampling Event**  
First half 2007

**Ending  
Sampling Event**  
Second half 2010

**September 18, 2013**

**First half 2011**

**Second half 2012**

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, FL 33637-0926.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received **December 30, 2010 (attached)**, 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref.SC#A.2.g(1)], at the following locations:

Monitoring Point	Scheduling Notes	Location	Location Description
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref.SC#A.2.a(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009; 03/15/2011; and 05/04/2012.

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.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref.SC #A.2.f(3)] any other applicable requirements.  
Amended 03/15/2011.

b. Annual condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] for analysis of the leachate parameters listed in Specific Conditions #E.9.b. and #E.9.c. [ref.SC #A.2.f(3), Sec 8.2 & ref. SC #A.2.d(3), Sheet C-05 ]  
Amended 03/15/2011.

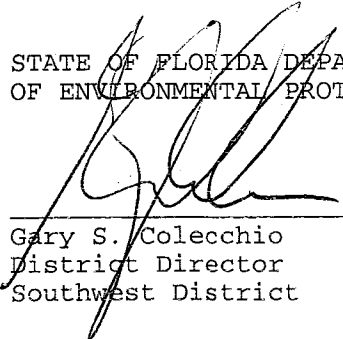
New 06/24/2009

**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, 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.
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
Amended 03/15/2011.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
\_\_\_\_\_  
Gary S. Colecchio  
District Director  
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8) (b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8) (c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding



ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
E.9.b.	Semi-annually	Conduct leachate sampling
E.9.c.	Annually	Conduct leachate sampling
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

SITE PLAN NOTES

1. TOPOGRAPHY WITHIN PHASES I THROUGH V WAS OBTAINED FROM THE SURVEY OF THE HARRIS, INC. OF PEACHTREE CITY, GEORGIA USING PHOTOGRAMMETRIC METHODS. PHOTOGRAPHS DATED JUNE 16, 2006.
2. LOCATIONS OF EXISTING RECONSTRUCTION MONITORING WELLS AND STAFF GAUGES OBTAINED FROM SPECIFIC PURPOSE SURVEY BY SANAGUA COUNTY, MARCH 2006.
3. APPROXIMATE LOCATION OF PHASE I LEACHATE FURROWMAN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER ENGINEERS, INC., 1982.
4. APPROXIMATE LOCATION OF LEACHATE FURROWMAN TO OFFSITE WHP OBTAINED FROM CONFORMED DRAWINGS BY PEARL HARRIS AND ASSOCIATES, INC., 1982.
5. LOCATION OF CONDENSATE SUMP OBTAINED FROM PHASE I LAYOUTS OBTAINED FROM PHASE I LAYOUTS DATED 2010.

- LEGEND
- S-2 LANDFILL GAS CONDENSATE SUMP
  - GP-1 GAS PROBE
  - MW-10R GROUNDWATER MONITORING WELL
  - CH-1 GAS MONITORING LOCATION
  - P-5-1 WATER SUPPLY WELL
  - ▲ STW-1 PERMANENT MONITORING STATION
  - C-1 LEACHATE MONITORING LOCATION
  - △ B-4R SURFACE WATER MONITORING LOCATION
- ZONE OF DISCHARGE
- WATERWAY
- LIMITS OF EXEMPT
- EXISTING ROADWAY
- EXISTING RAILROAD
- PHASE BOUNDARY
- EXISTING RAILROAD OF ENVIRONMENTAL PROTECTION

DEC 30 2010  
SOUTHWEST DIS  
TAMPA

FOR PERMITTING

WATER QUALITY  
MONITORING PLAN

FIGURE 1

SCALE 1"=400'

Central County Solid Waste  
Disposal Complex  
PHASE II CLASS I LANDFILL  
EXPANSION  
PERMIT DRAWINGS



PROJECT NUMBER	DATE	DESCRIPTION
11803-01		

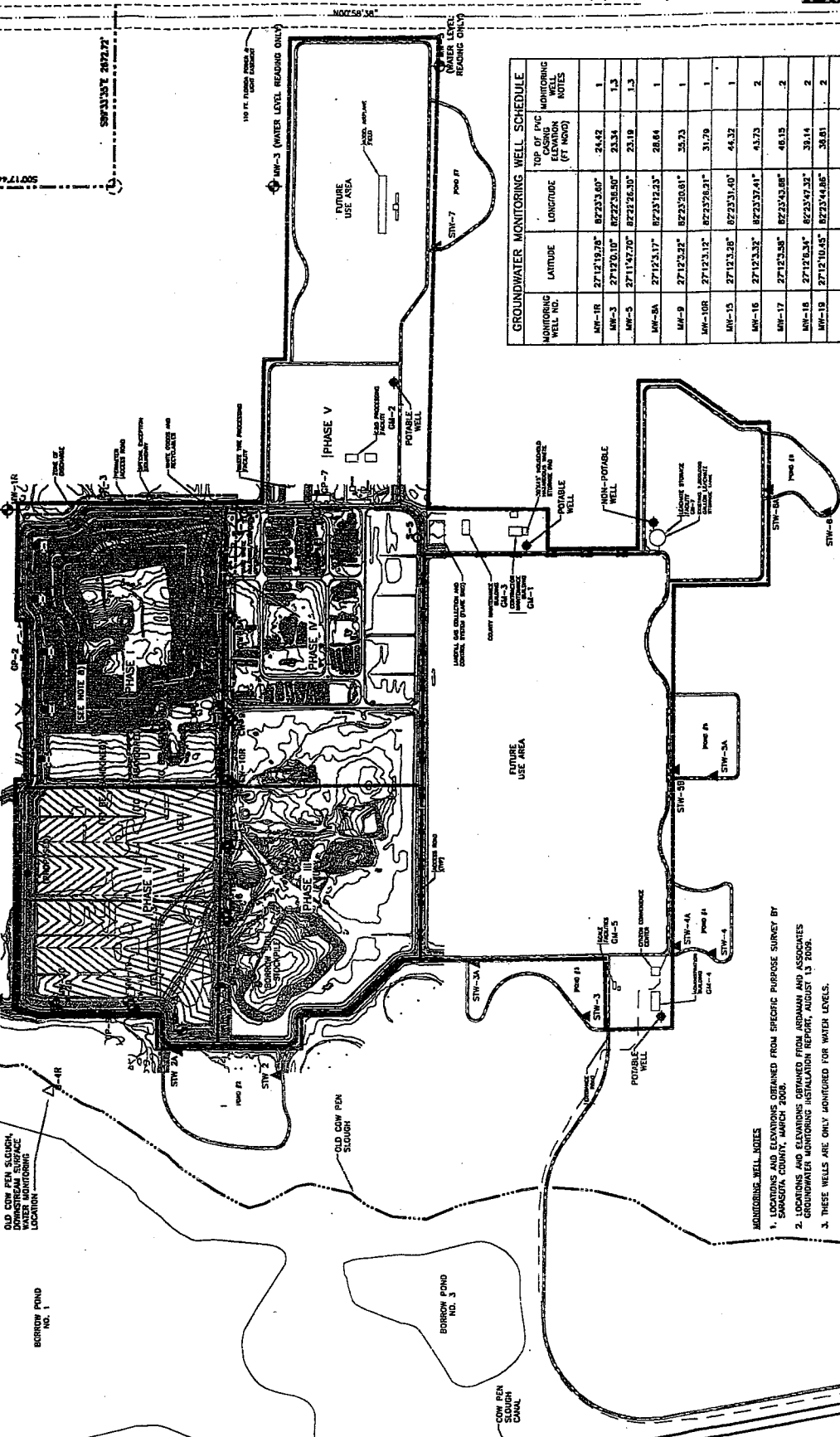
DATE	REVISION	DESCRIPTION
12/2010	G	ADD CONDENSATE SUMP, UPDATE WELLS
04/2009	F	REVISED PER MINOR PERMIT MODIFICATION
03/2008	E	REVISED PER PHASE I
01/2008	D	REVISED PER PHASE I
01/2007	C	REVISED PER PHASE I
01/2007	B	REVISED PER PHASE I
01/2007	A	ISSUED FOR APPROVAL

HDR

1000 Engineering, Inc.  
10000 E. Lake Mead Blvd., Suite 100  
Tampa, FL 33613-2000  
Florida Certificate of Professional Engineer  
#10000

MONITORING WELL NO.	LATITUDE	LONGITUDE	TOP OF PVC CASING ELEVATION (FT MVD)	NOTES
MW-1R	27°12'19.28"	82°33'58.60"	24.42	1
MW-3	27°12'0.10"	82°32'58.50"	23.34	1.3
MW-5	27°11'42.70"	82°32'56.30"	23.19	1.3
MW-8A	27°12'3.17"	82°33'12.33"	28.64	1
MW-9	27°12'3.32"	82°33'10.81"	35.73	1
MW-10R	27°12'3.12"	82°33'59.31"	31.79	1
MW-15	27°12'3.38"	82°33'31.40"	44.32	1
MW-16	27°12'3.32"	82°33'31.41"	43.75	2
MW-17	27°12'3.38"	82°33'43.88"	46.15	2
MW-18	27°12'0.34"	82°33'42.37"	33.14	2
MW-19	27°12'10.45"	82°33'44.86"	38.81	2
MW-20	27°12'16.24"	82°33'44.85"	35.88	2

- MONITORING WELL NOTES
1. LOCATIONS AND ELEVATIONS OBTAINED FROM SPECIFIC PURPOSE SURVEY BY SANAGUA COUNTY, MARCH 2006.
  2. LOCATIONS AND ELEVATIONS OBTAINED FROM JORDAN AND ASSOCIATES GROUNDWATER MONITORING INSTALLATION REPORT, AUGUST 13 2006.
  3. THESE WELLS ARE ONLY MONITORED FOR WATER LEVELS.





# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

Brantley, Anna

---

**From:** Brantley, Anna  
**Sent:** Friday, February 17, 2012 12:23 PM  
**To:** 'lerose@scgov.net'; 'DCooper@SCSEngineers.com'; Pelz, Susan  
**Cc:** Morgan, Steve  
**Subject:** Sarasota CCSWDC Request for Information [WACS 51614]  
**Attachments:** Sarasota CCSWDC Phase II SWMS Mod 130542-017-SC-08 & Operation Mod 130542-018-SO-MM  
RAI\_wacs 51614 - 2-17-2012pdf.pdf

Attached is an electronic copy of the Request for Additional Information (RAI # 1) letter and attachments for the above permit application. Hard copy was sent via US Mail.

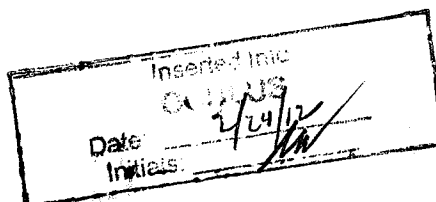
**NOTE:** If you have questions concerning the content of this document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr 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.



Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** 'DCooper@SCSEngineers.com'  
**Sent:** Friday, February 17, 2012 12:23 PM  
**Subject:** Relayed: Sarasota CCSWDC Request for Information [WACS 51614]

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'DCooper@SCSEngineers.com'

**Subject:** Sarasota CCSWDC Request for Information [WACS 51614]

---

Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Pelz, Susan; Morgan, Steve  
**Sent:** Friday, February 17, 2012 12:23 PM  
**Subject:** Delivered: Sarasota CCSWDC Request for Information [WACS 51614]

**Your message has been delivered to the following recipients:**

Pelz, Susan

Morgan, Steve

Subject: Sarasota CCSWDC Request for Information [WACS 51614]

---

Sent by Microsoft Exchange Server 2007



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

Transmitted electronically only to: [lerose@scgov.net](mailto:lerose@scgov.net)

Ms. Lois Rose, Manager  
Sarasota County Solid Waste Operations  
4000 Knights Trail Road  
Nokomis, Florida 34275

February 17, 2012

**RE: CCSWDC Class I Landfill, Sarasota County  
Phase II Stormwater Management System & Operation Permit Modifications  
Pending Permit #130542-017-SC/08 and Permit Modification #130542-018-SO/MM  
to Operation Permit No.: 130542-007-SO/01  
WACS ID No.: SWD/58/51614**

Dear Ms. Rose:

This is to acknowledge receipt of the permit applications prepared by SCS Engineers, dated January 20, 2012 (received January 23, 2012), in support of a modification of Phase II stormwater management system and operation of the Phase II Class I landfill, at the Central County Solid Waste Disposal Complex.

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 is incomplete. This is the Department's 1<sup>st</sup> 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.

## **GENERAL:**

1. The requested information and comments below do not repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal.
2. 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 underlined underlined or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.
3. 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.
4. 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 application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

**SECTION A - FDEP FORM 62-701.900(1)**

1. **Rule 62-701.320(7)(b), F.A.C.** Application Form #62-701.900(1): Please address the following comments regarding the permit application form and provide a revised application form or replacement pages with the following information, where applicable:

a. §A.3. Since this application is for both a new construction other permit and operation permit minor modification, please revise this section to also check the "New" box.

b. §B.20. Phase II has a double geomembrane liner system. Please revise this section accordingly.

**SECTION A - GENERAL INFORMATION**

2. As understood by the Department and indicated in Section D.5 of this application, this permit application is for a construction other permit for modification of the stormwater management system in Phase II and a minor permit modification of the facility's operation permit. Please verify and revise this section to refer to the modification of the facility's existing operation permit rather than the Phase I closure permit and revise Attachment A-1, as applicable.

**SECTION G - LANDFILL CONSTRUCTION REQUIREMENTS**

3. **Section G.8.b:** The Department believes that Cell 2 Alternate B is problematic for the following reasons. Please either revise this section and all other appropriate sections of application (e.g. Op. Plan, construction drawings, etc.) to address the following comments or preferably remove Alternate B from the permit application.

a. Please provide a detailed explanation of how the 8" pipe will be installed through north berm. Please provide a CQA Plan for Alternate B and technical specification related to earthwork, directional drilling, and/or liner system installation and repair, as appropriate. The Department is concerned that either berm excavation or directional drilling through the berm will result in unwarranted damage to the installed liner system.

b. Please verify whether Alternate B was proposed to allow for simultaneous use of the leachate collection system in Cell 2 and the constructed Alternate B stormwater removal system. Under those circumstances, since Phase II has a double geomembrane liner system with and underlying GCL layer, an installed boot at the liner penetration appears to be inadequate to "seal the liner system". In particular, a boot on the primary liner would not seal the underlying leak detection geocomposite, secondary liner, or GCL layer at the pipe penetration and therefore will not prevent leachate leakage through the liner penetration from the leak detection system. Please verify and address this concern.

**ATTACHMENT K.1 - MODIFIED OPERATIONS PLAN AND DRAWINGS (RULE 62-701.320(7)(e)1., F.A.C.)**

**Operations Plan:**

**4. Section Part K.2.h.:**

- a. Please revise the second sentence in the third paragraph of this section to also indicate the stormwater may be pumped over the berm as further described later in this section.
- b. The description of the management of stormwater that has been in contact with waste appears to have been deleted from this section. Please verify and revise this section to include these procedures.
- c. Prior to acceptance of waste in each cell, the stormwater inlets and piping shall also be removed from cell and the leachate collection piping and the 2-foot liner protective soil layer shall be also be restored to design and permitted specifications. Please revise this section to include these procedures.
- d. The revisions to this section refer to a "6-inch protective layer". The designed and permitted liner protective layer in Phase II is 2-foot thick. Please verify and revise this section accordingly.
- e. After both the stormwater system is installed and after the system is decommissioned and liner and leachate collection system repair work is completed, the County shall provide construction certification for the completed work. Please revise this section accordingly.

**Drawings:**

5. Please revise the construction drawings, as appropriate, based on your responses to Comments #3 and #4 above.

**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 provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**

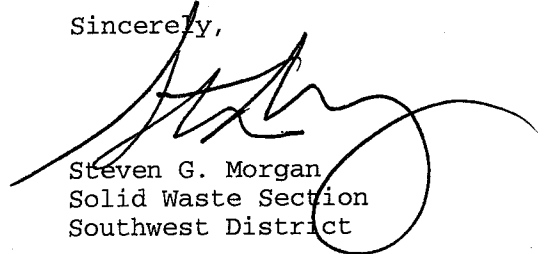
Please respond by **April 6, 2012**, or alternate date established during the meeting requested below, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than the above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. 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.

Ms. Lois Rose, Manager  
Sarasota County Solid Waste Operations

Sarasota CCSWDC Stormwater Mgmt & Operation Modification  
Page 4 of 4

You are requested to submit 4 copies of your response to this letter as one complete package. It is recommended that the applicant contact the Department to set up a teleconference or meeting to discuss this letter and subsequent submittals. Please contact me at (813) 632-7600 ext. 385 should you have any questions or comments regarding this letter or to schedule a meeting or teleconference.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

cc: Daniel Cooper, P.E., SCS Engineers [dcooper@scsengineers.com](mailto:dcooper@scsengineers.com)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

Southwest District  
Permitting Application

Steve

New Site

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

Existing Site

Site ID:	130542 - D18	
Project Name:	SARASOTA CCSWDC CCI OP MOD	WACS ID# 51614
Type/Subcode:	50/mm	New <u>Modification</u> / Renewal
Fee submitted:	250 <sup>00</sup>	<input checked="" type="checkbox"/> correct ( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Applicant Information

Name:	LOIS ROSE	
Role:	APPLICANT	
Company:	SARASOTA COUNTY	
Address:		
City:	ON-FILE	Zip Code:
Phone:		

Fee verified by: S. MORGAN

Application Assigned To: S. MORGAN

Date:

1/23/12



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

CERTIFIED MAIL 7009 1680 0000 2592 5910  
RETURN RECEIPT REQUESTED

March 15, 2011

## NOTICE OF PERMIT

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

Re: Sarasota Central County Solid Waste Disposal Complex Class I LF  
Modification #130542-015-SO/MM to existing  
Operation Permit #130542-007-SO/01, Sarasota County

Dear Ms. Rose:

Attached is modified Operation Permit 130542-007-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 130542-015-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Multiple Specific Conditions	Existing	Amended	References to sections in Operations Plan revised based on change in section identification in plan from "L" to "K".
Page 1 of 38	Existing	Amended	Reference to Permit Modification No. 130542-015-SO/MM added
#A.2.a.(2) #A.2.a.(4) #A.2.c.	Existing	Amended	References revised Water Quality Monitoring Plan
#A.2.d.	Existing	Amended	Revised LFGCCS O&M Plan referenced.
#A.2.e.	Existing	Amended	Revised Operations Plan referenced.
#A.2.f.	-	New	Additional permitting documents referenced.
#A.4.	Existing	Amended	Revised permit renewal due date referenced.
#C.1.a.	Existing	Amended	Revised references to Operations Plan and LFGCCS O&M Plan.
#C.1.d.	Existing	Amended	Revised setbacks from edge of liner markers in Phase II.
#C.1.j. #C.8.g. #D.2.d.(7)	Existing	Amended	Revised references to section of Operations Plan based on reformatted plan.

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#C.5.c.	-	New	Requires control of fugitive particulates (dust) in accordance with procedures in Operations Plan.
#C.8.a. #C.8.c.(3) #C.8.i.(1) #D.2.b.	Existing	Amended	Revised reference to Operations Plan.
#C.8.b.	Existing	Amended	Authorizes installation of temporary piping to drain ponded leachate from bermed working face area.
#C.8.i.	Existing	Amended	Specific Condition #C.9. "Reuse of Leachate for Dust Control" renumbered #C.8.i. to eliminate duplication with Specific Condition #C.9. "Special Wastes" and subsections renumbered accordingly.
#D.2.d.(9) #F.5.a. #F.5.b.	Existing	Amended	Revised references to LFGCCS O&M Plan.
#E.1.a.	Existing	Amended	Adds condensate to the list of sample types conducted in accordance with the Water Quality Monitoring Plan for the facility.
#E.3.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1, deletes wells abandoned as part of Phase II construction, adds requirements to protect monitor wells in accordance with amendments to Rule 62-701.510, F.A.C.
#E.4.	Existing	Amended	References revised Water Quality Monitoring Plan referenced.
#E.6.	Existing	Amended	Referenced amended Rule 62-532.500(5), F.A.C., effective October 7, 2010, regarding well abandonment.
#E.8.a. #E.8.b. #E.8.c. #E.9. #E.9.a.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1
#E.9.b.	Existing	Amended	Revised leachate parameter list referenced.
#E.10.	Existing	Amended	Condensate sampling event results required to be provided as Electronic Data Deliverable reports.
#E.10.b.7 #F.5.b.	Existing	Amended	Condensate sampling frequency amended from semi-annual to annual.
#E.11.	Existing	Amended	Due dates for Monitoring Plan Evaluation reports revised.
#F.3.	Existing	Amended	References revised Operations Plan and Figure 1, deletes gas probe abandoned as part of Phase II construction.
#G.4.b.	Existing	Amended	References revised Department document.

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

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

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

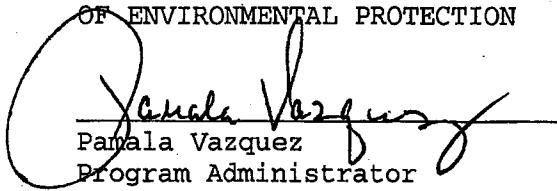
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Pamela Vazquez  
Program Administrator  
Southwest District

PV/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification  
Jason Timmons, P.E., HDR Engineering, Inc. [jason.timmons@hdrinc.com](mailto:jason.timmons@hdrinc.com)  
Richard Tedder, FDEP Tallahassee, (e-mail)  
Frank Hornbrook, FDEP, Tallahassee, (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Ronni Moore, OGC Tallahassee (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on March 15, 2011 to the listed persons.

Clerk 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.

  
Clerk

3/15/2011  
Date





# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: 130542-007-SO/01  
Date of Issue: 11/18/2008  
Expiration Date: 11/18/2013  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	Phase II (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010 and 130542-015-SO/MM, dated 03/15/2011.

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

**GENERAL CONDITIONS:**

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

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 03/15/2011.

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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

~~1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];~~

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above];

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above];

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above].

New 03/15/2011.

\* see OCULUS for uncollated submittals

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

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

c. This permit does not authorize the **operation** of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.

2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,

3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.

4) Construction of the stormwater management system,

5) Financial assurance requirements of Specific Condition #D.4.b.,

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

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

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.

**Amended 03/15/2011.**

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 January 6, 2010, 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.

**Amended 04/08/2010.**

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. **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.6.b., below.



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

**1. Construction.**

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

b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors. New 06/24/2009.

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**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.f(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010 ; and 03/15/2011.

1) Operation of the Materials Recovery Facility shall be in  
accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in  
accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f].  
Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.~~

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
**Amended 03/15/2011.**

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being ~~accepted at the facility to inspect each load of waste as it is unloaded~~ and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec. K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec. K.5]. 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 [ref. Op. Plan, Sec. K.6]. 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 [ref. SC#D.3.b.(3)].

b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.~~

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
**New 03/15/2011.**

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
**Amended 06/24/2009.**

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

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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.~~

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

- 1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or
- 2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. **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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.

d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

**8. Leachate Management.**

~~a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref.SC#A.2.f(1)], and other applicable Department rules.~~  
Amended 03/15/2011.

b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed daily for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
Amended 03/15/2011.

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

1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A final report for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a final report summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The final report shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A final report for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

3) 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.f(1)].  
Amended 03/15/2011.

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

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

- 4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].
- 5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump ~~station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.].~~ Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.
- 6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.
- 7) 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.
- 8) Leachate tank inspections.
  - a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.
  - b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.
  - c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.
  - d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.



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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** ~~Leachate generation reports~~ shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.

**Amended 03/15/2011.**

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.f.(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:  
Amended 03/15/2011.

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

Amended 03/15/2011.

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. **Asbestos.** Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. **Contaminated Soil.** Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. **Used Oil.** Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site at least **monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements. All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].

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

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; OR
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, AND
- c) has no evidence of leachate seepage, AND
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 ~~Operations Plan [ref. Op. Plan, Sec. K.2.g.]~~. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than 3H:1V [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

b. Initial Waste Placement.

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
2. **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 Operations Plan [ref. SC#A.2.f.(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 Operations 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.  
Amended 03/15/2011.
  - c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, etc. shall be provided to the Southwest District Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.
  - d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
    - 3) Load checking records;
    - 4) Operator and spotter training certificates and other documentation;
    - 5) Log of odor complaints and corrective action; and
    - 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
    - 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
    - 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
    - 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

Amended 06/24/2009 and 03/15/2011.



**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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) **annually, by January 15<sup>th</sup> 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.

**Amended 03/15/2011.**

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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

**Amended 03/15/2011.**

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, 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 regarding the collection of ground water, surface water, leachate, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009 and 03/15/2011.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f(2)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (attached), as follow:

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

(Specific Condition #E.3., continued)

Well #	WACS		Scheduling	Aquifer	Designation	Location
	Testsite	ID #				
MW-1R		20585	A, X	Surficial	Background	See Figure 1
MW-8A		21453	A, X	Surficial	Detection	↓
MW-9		4509	A, X	Surficial	Detection	↓
MW-10R		4510	A, X	Surficial	Detection	↓
MW-15		23031	B, Y	Surficial	Detection	See Figure 1
MW-16		23032	B, Y	Surficial	Detection	↓
MW-17		23033	B, Y	Surficial	Detection	↓
MW-18		23034	B, Y	Surficial	Detection	↓
MW-19		23035	B, Y	Surficial	Detection	↓
MW-20		23036	B, Y	Surficial	Detection	↓
MW-11R		20588	A, Z	Surficial	Detection	See Figure 1
MW-12R		20589	A, Z	Surficial	Detection	↓
MW-3		4503	A	Surficial	Piezometer	See Figure 1
MW-5		4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref SC#A.2a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted within 30 days of installation in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted within 7 days of well installation and development for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010 and 03/15/2011.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.3 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f.(2)] Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted within 7 days of installation and development of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels	Total ammonia - N	Calcium
before purging	Bicarbonate	Iron
Specific conductivity	Carbonate	Magnesium
pH	Chlorides	Mercury
Dissolved oxygen	Nitrate	Potassium
Temperature	Sulfate	Sodium
Turbidity	Total dissolved solids (TDS)	
Colors & sheen (by obs.)	Those parameters listed in 40 CFR Part 258, <u>Appendix II</u>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels	Total ammonia - N	Calcium
before purging	Bicarbonate	Iron
Specific conductivity	Carbonate	Magnesium
pH	Chlorides	Mercury
Dissolved oxygen	Nitrate	Potassium
Temperature	Sulfate	Sodium
Turbidity	Total dissolved solids (TDS)	
Colors & sheen (by obs.)	Those parameters listed in 40 CFR Part 258, <u>Appendix I</u>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

~~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 #62-701.900(30) [attached].~~  
Amended 04/08/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of 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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.

Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.  
Amended 04/08/2010.

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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009 and 03/15/2011.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

Amended 06/24/2009 and 03/15/2011.

Surface Water ID #	WACS Testsite ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location

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 the locations described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens (by observation)	Magnesium	Chemical oxygen demand (COD)
Surface water elevation	Mercury	Total organic carbon (TOC)
	Potassium	Total dissolved solids (TDS)
	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Amended 04/08/2010 and 03/15/2011.

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

9. **Leachate Sampling.** Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)].

Amended 03/15/2011.

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (attached), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>Landfill Cell</u>	<u>WACS Testsite</u> <u>ID #</u>
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the inorganic parameters only presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)].

Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.

Amended 06/24/2009 and 03/15/2011.

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	

Amended 04/08/2010 and 03/15/2011.

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.

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

(Specific Condition #E.9., continued)

d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
**Amended 03/15/2011.**

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);

**Amended 04/08/2010.**

7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.



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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted within 60 days from completion of laboratory analyses;
2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;
3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;
4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;
5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;
6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted within 30 days from completion of laboratory analyses; and,
7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year for the period July 1 to December 31.

Amended 06/24/2009 and 03/15/2011.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009 and 03/15/2011.

<u>Water Quality Monitoring</u> <u>Data Evaluation Due Date</u>	<u>Starting</u> <u>Sampling Event</u>	<u>Ending</u> <u>Sampling Event</u>
May 18, 2011	First half 2007	Second half 2010
September 18, 2013	First half 2011	Second half 2012

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, FL 33637-0926.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (attached), 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref. SC#A.2.f(1)], at the following locations:

Monitoring Point	Scheduling Notes	Location	Location Description
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009 and 03/15/2011.

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.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref. SC #A.2.f(3)] any other applicable requirements.  
Amended 03/15/2011.

b. Annual condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] for analysis of the leachate parameters listed in Specific Conditions #E.9.b. and #E.9.c. [ref. SC #A.2.f(3), Sec 8.2 & ref. SC #A.2.d(3), Sheet C-05]  
Amended 03/15/2011.

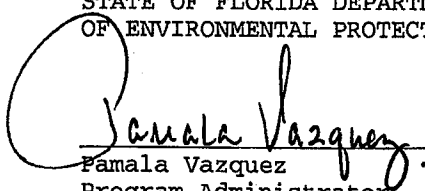
New 06/24/2009

**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, 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.~~
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
**Amended 03/15/2011.**

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Pamela Vazquez  
Program Administrator  
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
E.9.b.	Semi-annually	Conduct leachate sampling
E.9.c.	Annually	Conduct leachate sampling
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application





# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE



Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) must be converted to latitude and longitude.

---

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83- North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

## Morgan, Steve

---

**From:** Morgan, Steve  
**Sent:** Thursday, April 07, 2011 8:49 AM  
**To:** 'Lois E. Rose'  
**Cc:** Pelz, Susan; Gary Bennett  
**Subject:** CCSWDC Class I Operation Permit - Permit Modification No. 130542-015-SO/MM to Permit No. 130542-007-SO/01  
**Attachments:** NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011] revised.pdf

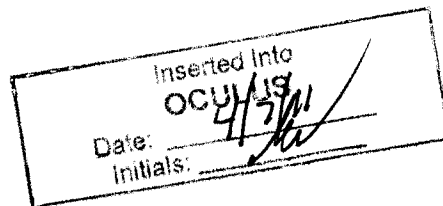
Lois:

Attached is a pdf copy of Permit Modification No. 130542-015-SO/MM with revised pages 25 & 37 of 38 to address the corrections to Specific Conditions #D.3.a. and #D.4.a. we discussed. Please replace the copy of Permit Modification No. 130542-015-SO/MM sent to you on March 15, 2011 with this copy in your records.

Please feel free to e-mail or call me if you have any further questions.

Steven G. Morgan, Solid Waste Section  
Florida Department of Environmental Protection  
Southwest District Office  
13051 North Telecom Parkway  
Temple Terrace, FL 33637-0926

phone - (813) 632-7600 x385  
fax - (813) 632-7664  
e-mail - [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)





# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

CERTIFIED MAIL 7009 1680 0000 2592 5910  
RETURN RECEIPT REQUESTED

March 15, 2011

## NOTICE OF PERMIT

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

Re: Sarasota Central County Solid Waste Disposal Complex Class I LF  
Modification #130542-015-SO/MM to existing  
Operation Permit #130542-007-SO/01, Sarasota County

Dear Ms. Rose:

Attached is modified Operation Permit 130542-007-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 130542-015-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Multiple Specific Conditions	Existing	Amended	References to sections in Operations Plan revised based on change in section identification in plan from "I" to "K".
Page 1 of 38	Existing	Amended	Reference to Permit Modification No. 130542-015-SO/MM added
#A.2.a.(2) #A.2.a.(4) #A.2.c.	Existing	Amended	References revised Water Quality Monitoring Plan
#A.2.d.	Existing	Amended	Revised LFGCCS O&M Plan referenced.
#A.2.e.	Existing	Amended	Revised Operations Plan referenced.
#A.2.f.	-	New	Additional permitting documents referenced.
#A.4.	Existing	Amended	Revised permit renewal due date referenced.
#C.1.a.	Existing	Amended	Revised references to Operations Plan and LFGCCS O&M Plan.
#C.1.d.	Existing	Amended	Revised setbacks from edge of liner markers in Phase II.
#C.1.j. #C.8.g. #D.2.d.(7)	Existing	Amended	Revised references to section of Operations Plan based on reformatted plan.

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#C.5.c.	-	New	Requires control of fugitive particulates (dust) in accordance with procedures in Operations Plan.
#C.8.a. #C.8.c.(3) #C.8.i.(1) #D.2.b.	Existing	Amended	Revised reference to Operations Plan.
#C.8.b.	Existing	Amended	Authorizes installation of temporary piping to drain ponded leachate from bermed working face area.
#C.8.i.	Existing	Amended	Specific Condition #C.9. "Reuse of Leachate for Dust Control" renumbered #C.8.i. to eliminate duplication with Specific Condition #C.9. "Special Wastes" and subsections renumbered accordingly.
#D.2.d.(9) #F.5.a. #F.5.b.	Existing	Amended	Revised references to LFGCCS O&M Plan.
#E.1.a.	Existing	Amended	Adds condensate to the list of sample types conducted in accordance with the Water Quality Monitoring Plan for the facility.
#E.3.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1, deletes wells abandoned as part of Phase II construction, adds requirements to protect monitor wells in accordance with amendments to Rule 62-701.510, F.A.C.
#E.4.	Existing	Amended	References revised Water Quality Monitoring Plan referenced.
#E.6.	Existing	Amended	Referenced amended Rule 62-532.500(5), F.A.C., effective October 7, 2010, regarding well abandonment.
#E.8.a. #E.8.b. #E.8.c. #E.9. #E.9.a.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1
#E.9.b.	Existing	Amended	Revised leachate parameter list referenced.
#E.10.	Existing	Amended	Condensate sampling event results required to be provided as Electronic Data Deliverable reports.
#E.10.b.7 #F.5.b.	Existing	Amended	Condensate sampling frequency amended from semi-annual to annual.
#E.11.	Existing	Amended	Due dates for Monitoring Plan Evaluation reports revised.
#F.3.	Existing	Amended	References revised Operations Plan and Figure 1, deletes gas probe abandoned as part of Phase II construction.
#G.4.b.	Existing	Amended	References revised Department document.

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

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

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

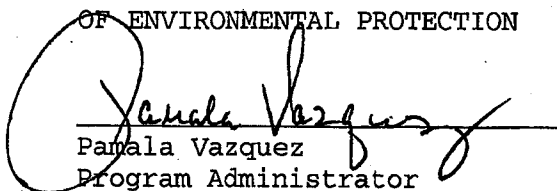
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Pamela Vazquez  
Program Administrator  
Southwest District

PV/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification  
Jason Timmons, P.E., HDR Engineering, Inc. [jason.timmons@hdrinc.com](mailto:jason.timmons@hdrinc.com)  
Richard Tedder, FDEP Tallahassee, (e-mail)  
Frank Hornbrook, FDEP, Tallahassee, (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Ronni Moore, OGC Tallahassee (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on March 15, 2011 to the listed persons.

Clerk 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.

  
Clerk

3/15/2011  
Date



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: **130542-007-SO/01**  
Date of Issue: **11/18/2008**  
Expiration Date: **11/18/2013**  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010 and 130542-015-SO/MM, dated 03/15/2011.

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

**GENERAL CONDITIONS:**

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

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



**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].  
Amended 03/15/2011.

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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

~~1) CCSWDC Operation Plan, dated March 2008, as revised March 2009~~  
[replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].  
New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above];

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above];

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above].

New 03/15/2011.

\* see OCULUS for uncollated submittals

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

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

c. This permit does not authorize the **operation** of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.

2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,

3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.

4) Construction of the stormwater management system,

5) Financial assurance requirements of Specific Condition #D.4.b.,

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

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

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. No later than September 18, 2013, 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, a water quality monitoring plan evaluation, and revised (not inflation-adjusted) financial assurance cost estimates.

Amended 03/15/2011.

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 January 6, 2010, 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.

Amended 04/08/2010.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery.** The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. **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.6.b., below.

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

**1. Construction.**

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

b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors.  
New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.f.(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f.(3)], and any other applicable requirements.  
Amended 06/24/2009; 04/08/2010 ; and 03/15/2011.

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1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f].  
Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. Daily, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.



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

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

g. 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.6.

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.5.~~

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.  
**Amended 03/15/2011.**

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being ~~accepted at the facility to inspect each load of waste as it is unloaded~~ and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec.K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec.K.5]. 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 [ref. Op. Plan, Sec.K.6]. 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 [ref.SC#D.3.b.(3)].

b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.~~

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
New 03/15/2011.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
Amended 06/24/2009.

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

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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.~~

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

- 1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or
- 2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. **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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.

d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

**8. Leachate Management.**

~~a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref. SC#A.2.f.(1)], and other applicable Department rules.~~  
Amended 03/15/2011.

b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed daily for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.  
Amended 03/15/2011.

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

1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

3) 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.f.(1)].  
Amended 03/15/2011.

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

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

- 4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].
- 5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump ~~station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.].~~ Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.
- 6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.
- 7) 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.
- 8) Leachate tank inspections.
  - a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.
  - b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.
  - c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.
  - d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** ~~Leachate generation reports~~ shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
Amended 03/15/2011.

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref SC #A.2.f(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:  
**Amended 03/15/2011.**

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

**Amended 03/15/2011.**



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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. **Asbestos.** Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. **Contaminated Soil.** Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. **Used Oil.** Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least quarterly (every 3 months) [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements.** All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].

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

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; OR
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, AND
- c) has no evidence of leachate seepage, AND
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 ~~Operations Plan [ref. Op. Plan, Sec. K.2.g.]~~. Slopes shall be maintained in accordance with the Operations Drawings. The working face and all above grade slopes shall be no greater (steeper) than 3H:1V [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

b. Initial Waste Placement.

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.f.(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 Operations 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.

Amended 03/15/2011.

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f.(3), Sec. 3.3].

Amended 06/24/2009 and 03/15/2011.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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) **annually, by January 15<sup>th</sup> 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.

**Amended 03/15/2011.**

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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by March 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

**Amended 03/15/2011.**

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, 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 regarding the collection of ground water, surface water, leachate, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009 and 03/15/2011.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref.SC#A.2.f(2)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (attached), as follow:



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

(Specific Condition #E.3., continued)

Well #	WACS	Scheduling	Aquifer	Designation	Location
	Testsite ID #				
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
MW-11R	20588	A, Z	Surficial	Detection	See Figure 1
MW-12R	20589	A, Z	Surficial	Detection	↓
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted within 30 days of installation in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted within 7 days of well installation and development for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010 and 03/15/2011.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.3 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)] Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

Amended 03/15/2011.

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted within 7 days of installation and development of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <u>Appendix II</u>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <u>Appendix I</u>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

Amended 06/24/2009.

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

~~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 #62-701.900(30) [attached].~~  
Amended 04/08/2010.

c. Within one week of well completion and development, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of 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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.  
Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 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 as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.  
Amended 04/08/2010.

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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009 and 03/15/2011.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

Amended 06/24/2009 and 03/15/2011.

Surface Water ID #	WACS Testsite ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location

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 the locations described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens (by observation)	Magnesium	Chemical oxygen demand (COD)
Surface water	Mercury	Total organic carbon (TOC)
elevation	Potassium	Total dissolved solids (TDS)
	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate
	Those parameters listed in 40 CFR Part 258, Appendix I	

Amended 04/08/2010 and 03/15/2011.

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

9. **Leachate Sampling.** Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref SC#A.2.f(2)].

Amended 03/15/2011.

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (attached), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>Landfill Cell</u>	<u>WACS Testsite</u> <u>ID #</u>
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the **inorganic parameters** only presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011

[ref SC#A.2.f(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.  
Amended 06/24/2009 and 03/15/2011.

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BODs)	
	Chemical oxygen demand (COD)	

Amended 04/08/2010 and 03/15/2011.

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.

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

(Specific Condition #E.9., continued)

d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
**Amended 03/15/2011.**

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
**Amended 04/08/2010.**
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted within 60 days from completion of laboratory analyses;

2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;

3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;

4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year for the periods July 1 to December 31, and January 1 to June 30, respectively;

5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;

6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted within 30 days from completion of laboratory analyses; and,

7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year for the period July 1 to December 31.

Amended 06/24/2009 and 03/15/2011.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009 and 03/15/2011.

**Water Quality Monitoring  
Data Evaluation Due Date**  
May 18, 2011

**Starting  
Sampling Event**  
First half 2007

**Ending  
Sampling Event**  
Second half 2010

September 18, 2013

First half 2011

Second half 2012

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, FL 33637-0926.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year



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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (attached), 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref.SC#A.2.f(1)], at the following locations:

Monitoring Point	Scheduling Notes	Location	Location Description
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref.SC#A.2.a(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009 and 03/15/2011.

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.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref.SC #A.2.f(3)] any other applicable requirements.  
Amended 03/15/2011.

b. Annual condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] for analysis of the leachate parameters listed in Specific Conditions #E.9.b. and #E.9.c. [ref.SC #A.2.f(3), Sec 8.2 & ref. SC #A.2.d(3), Sheet C-05]  
Amended 03/15/2011.

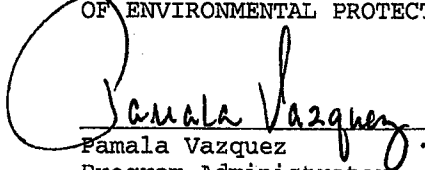
New 06/24/2009

**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, 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.~~
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
Amended 03/15/2011.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

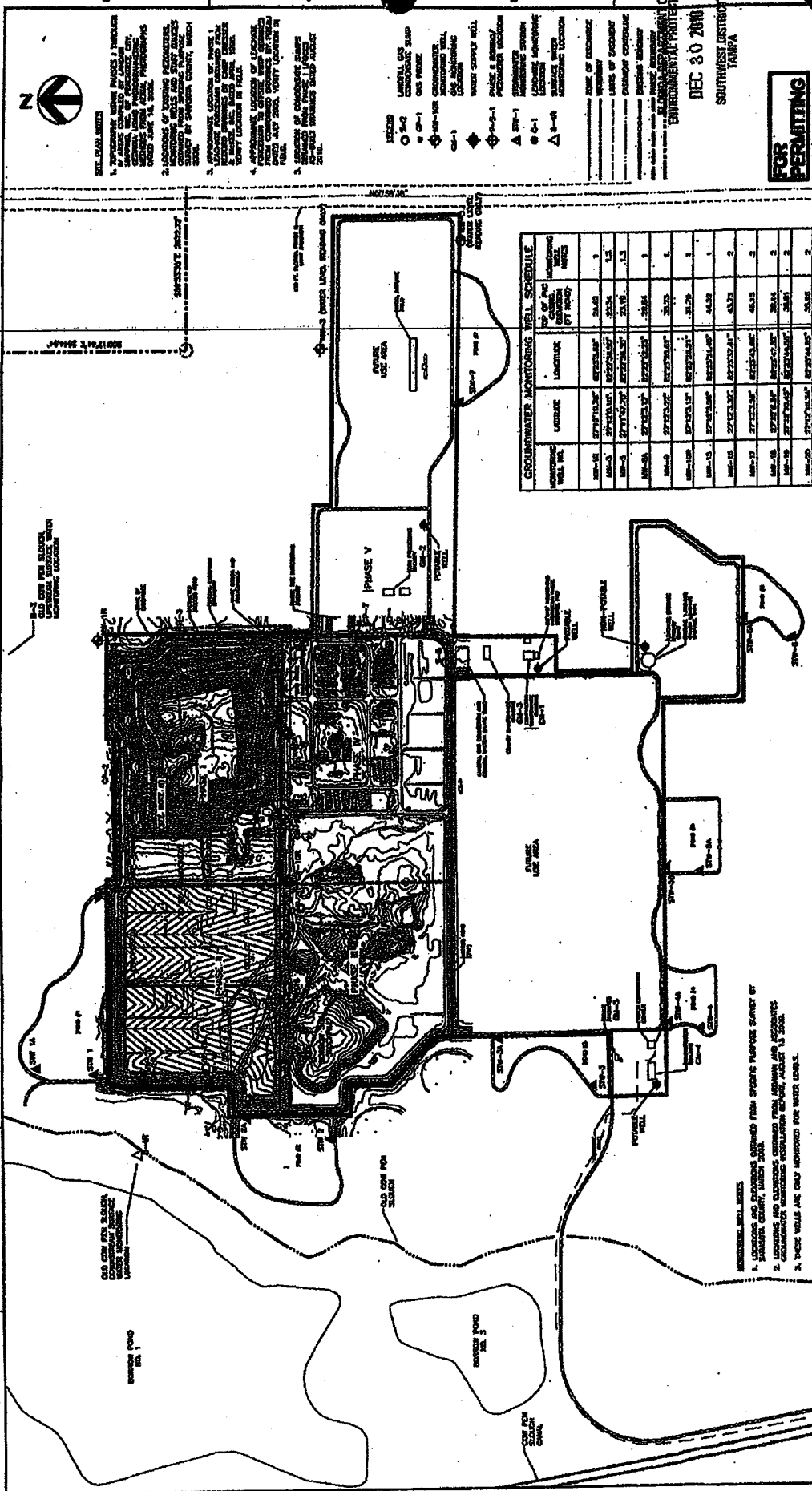
  
Pamala Vazquez  
Program Administrator  
Southwest District

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of: hazardous waste receipt, failure of landfill systems or equipment Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by March 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding

ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
E.9.b.	Semi-annually	Conduct leachate sampling
E.9.c.	Annually	Conduct leachate sampling
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application



**FOR PERMITTING**

**WATER QUALITY MONITORING PLAN**

**Central County Solid Waste Disposal Complex**  
**PHASE II CLASS I LANDFILL EXPANSION**  
**PERMIT DRAWINGS**

SHARON COUNTY

FIGURE 1

SCALE: 1"=400'

DATE: 12/80

BY: [Signature]

**LEGEND**

1. LOCATIONS AND PLACEMENTS OBTAINED FROM SPOTTS PURPOSE SURVEY OF SHARON COUNTY, MARCH 2000.

2. LOCATIONS AND PLACEMENTS OBTAINED FROM LITERATURE AND ACCOUNTS OF CHAUNCEY MONITORING SCHEDULED BEFORE AUGUST 1, 2000.

3. THICK WALLS ARE ONLY MONITORED FOR WATER LEVEL.

**GROUNDWATER MONITORING WELL SCHEDULE**

WELL NO.	LOCATION	DATE OF INSTALLATION	DATE OF MONITORING	WELL DEPTH (FT)	WELL TYPE
MM-18	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-3	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-5	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-6	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-10	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-15	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-16	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-17	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-19	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1
MM-20	27°15'N 83°15'W	02/27/80	02/27/80	20.00	1



# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)  
Form Title: Monitoring Well Completion Report  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) must be converted to latitude and longitude.

---

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83- North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.

**From:** Brantley, Anna  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**To:** 'jason.timmons@hdrinc.com'; Tedder, Richard; Hornbrook, Frank; Moore, Ronni; Morris, John R.; Pelz, Susan; Commissioner Carolyn Mason; Commissioner Christine Robinson; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; County Administrator Jim Ley; Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube; Representative Kenneth Roberson; Representative Ray Pilon; Senator Michael Bennett; Senator Nancy Detert  
**Cc:** Morgan, Steve  
**Subject:** NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011]

Attached please find Modification of Permit for the subject Solid Waste Facility. You will only receive this electronic copy of the document. Hard copy was sent via US Certified Mail.

**NOTE:** If you have questions concerning the content of the document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

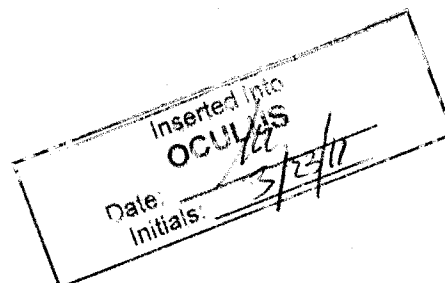
Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at:  
<http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

*The Department of Environmental Protection values your feedback as a customer. DEP Secretary Hershel T. Vinyard Jr 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:** Microsoft Exchange  
**To:** Commissioner Carolyn Mason; Commissioner Christine Robinson; Commissioner Joe Barbetta; Commissioner Jon Thaxton; Commissioner Nora Patterson; County Administrator Jim Ley  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**Subject:** Relayed: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

Commissioner Carolyn Mason

Commissioner Christine Robinson

Commissioner Joe Barbetta

Commissioner Jon Thaxton

Commissioner Nora Patterson

County Administrator Jim Ley

Subject: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Representative Darryl E. Rouson; Representative Doug Holder; Representative Greg Steube; Representative Kenneth Roberson; Representative Ray Pilon  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**Subject:** Relayed: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

Representative Darryl E. Rouson

Representative Doug Holder

Representative Greg Steube

Representative Kenneth Roberson

Representative Ray Pilon

Subject: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** 'jason.timmons@hdrinc.com'  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**Subject:** Relayed: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**Delivery to these recipients or distribution lists is complete, but delivery notification was not sent by the destination:**

'jason.timmons@hdrinc.com'

Subject: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

---

Sent by Microsoft Exchange Server 2007

Brantley, Anna

---

**From:** Microsoft Exchange  
**To:** Morris, John R.; Tedder, Richard; Pelz, Susan; Morgan, Steve; Hornbrook, Frank  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**Subject:** Delivered: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**Your message has been delivered to the following recipients:**

Morris, John R.

Tedder, Richard

Pelz, Susan

Morgan, Steve

Hornbrook, Frank

Subject: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

Brantley, Anna

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**From:** Microsoft Exchange  
**To:** Moore, Ronni  
**Sent:** Tuesday, March 15, 2011 10:26 AM  
**Subject:** Delivered: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**Your message has been delivered to the following recipients:**

Moore, Ronni

Subject: NOP\_Sarasota CCSWDC Phase I & II Operation 130542-007-SO\_mod\_130542-015 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

# Memorandum

## Florida Department of Environmental Protection

### PERMIT COVER MEMO

TO: x Pamala Vazquez, Program Administrator *PLV 3/14/11*

FROM/THROUGH:

William Kutash *WD 3/14/11* ENVIRONMENTAL ADMINISTRATOR

Susan Pelz, P.E. *SP 3/14/11* SOLID WASTE MANAGER

Steve Morgan *SM 3/14/11* SOLID WASTE PERMITTING

DATE: March 14, 2011

FILE NAME: Sarasota CCSWDC Class I Landfill  
Phase I & II Operation Modification

PERMIT MOD#: 130542-015-SO/MM

PERMIT #: 130542-007-SO/01

COUNTY : Sarasota

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: ISSUE FINAL PERMIT

**PERMIT SUMMARY:** This minor permit modification is to incorporate changes to Rule 62-701, F.A.C., effective 1/6/10; revise disposal setbacks from edge of liner marker in Phase II; authorize installation of temporary piping to drain ponded leachate from working face area; revise Specific Condition Part E, where applicable, based on revised water quality monitoring plan; and amend condensate sampling frequency from semi-annual to annual to coincide with leachate sampling.

PROFESSIONAL RECOMMENDATION: X APPROVE      DENY

**EVALUATION SUMMARY:** The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit modification.

TIH= 202; TTP=104 (to 03/14/11)		TTP
Application rec'd	08/24/10	
RAI #1 sent to applicant	09/23/10	30
RAI #1 response rec'd	12/30/10	
Application complete	12/30/10	
Supplemental information rec'd	02/01/11	
Supplemental information rec'd	03/08/11	
Final Permit for routing	03/14/11	74

DAY 90/30 FOR THIS ACTION IS: Day 90 = 03/30/11

# ISSUE FINAL PERMIT MODIFICATION

Sarasota CCSWDC Class I Landfill  
Phase I & II Operation Modification  
Permit Modification No.: 130542-015-SO/MM  
to  
Permit No.: 130542-007-SO/01  
WACS Facility #SWD/58/51614  
Sarasota County

Mailed March 15, 2011

0165 2652 0000 0891 6002

U.S. Postal Service <sup>TM</sup>	
CERTIFIED MAIL <sup>TM</sup> RECEIPT	
(Domestic Mail Only; No Insurance Coverage Provided)	
For delivery information visit our website at <a href="http://www.usps.com">www.usps.com</a>	
OFFICIAL USE	
Postage \$	Postmark Here
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage	Sarasota County
Sent To	Solid Waste Operations
Street, Apt. No., or PO Box No.	c/o Ms. Lois Rose, Manager
City, State, ZIP	4000 Knights Trail Road
	Nokomis, FL 34275

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: *CCSWDC*  
Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, FL 34275

*WOP Mod #130542-015-SO/MM*  
*to existing Permit*  
*#130542-007-SO/01*

2. Article Number  
(Transfer from service label)

7009 1680 0000 2592 5910

PS Form 3811, February 2004

## COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent ☒ Addressee  
*X Becky Jaworski*  
B. Received by (Printed Name) *B Tanares*  
C. Date of Delivery *3/16/11*  
D. Is delivery address different from item 1? ☐ Yes ☒ No  
If YES, address below:  
FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION  
MAR 17 2011  
SOUTHWEST DISTRICT  
TAMPA  
3. Service Type ☒ Certified Mail ☐ Express Mail  
☐ Registered ☒ Return Receipt for Merchandise  
☐ Insured Mail ☐ C.O.D.  
4. Restricted Delivery? (Extra Fee) ☐ Yes

Domestic Return Receipt

102595-02-M-1540



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

**CERTIFIED MAIL 7009 1680 0000 2592 5910**  
**RETURN RECEIPT REQUESTED**

March 15, 2011

## NOTICE OF PERMIT

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

Re: Sarasota Central County Solid Waste Disposal Complex Class I LF  
Modification #130542-015-SO/MM to existing  
Operation Permit #130542-007-SO/01, Sarasota County

Dear Ms. Rose:

Attached is modified Operation Permit 130542-007-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 130542-015-SO/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
Multiple Specific Conditions	Existing	Amended	References to sections in Operations Plan revised based on change in section identification in plan from "L" to "K".
Page 1 of 38	Existing	Amended	Reference to Permit Modification No. 130542-015-SO/MM added
#A.2.a.(2) #A.2.a.(4) #A.2.c.	Existing	Amended	References revised Water Quality Monitoring Plan
#A.2.d.	Existing	Amended	Revised LFGCCS O&M Plan referenced.
#A.2.e.	Existing	Amended	Revised Operations Plan referenced.
#A.2.f.	-	New	Additional permitting documents referenced.
#A.4.	Existing	Amended	Revised permit renewal due date referenced.
#C.1.a.	Existing	Amended	Revised references to Operations Plan and LFGCCS O&M Plan.
#C.1.d.	Existing	Amended	Revised setbacks from edge of liner markers in Phase II.
#C.1.j. #C.8.g. #D.2.d.(7)	Existing	Amended	Revised references to section of Operations Plan based on reformatted plan.



SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
#C.5.c.	-	New	Requires control of fugitive particulates (dust) in accordance with procedures in Operations Plan.
#C.8.a. #C.8.c.(3) #C.8.i.(1) #D.2.b.	Existing	Amended	Revised reference to Operations Plan.
#C.8.b.	Existing	Amended	Authorizes installation of temporary piping to drain ponded leachate from bermed working face area.
#C.8.i.	Existing	Amended	Specific Condition #C.9. "Reuse of Leachate for Dust Control" renumbered #C.8.i. to eliminate duplication with Specific Condition #C.9. "Special Wastes" and subsections renumbered accordingly.
#D.2.d.(9) #F.5.a. #F.5.b.	Existing	Amended	Revised references to LFGCCS O&M Plan.
#E.1.a.	Existing	Amended	Adds condensate to the list of sample types conducted in accordance with the Water Quality Monitoring Plan for the facility.
#E.3.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1, deletes wells abandoned as part of Phase II construction, adds requirements to protect monitor wells in accordance with amendments to Rule 62-701.510, F.A.C.
#E.4.	Existing	Amended	References revised Water Quality Monitoring Plan referenced.
#E.6.	Existing	Amended	Referenced amended Rule 62-532.500(5), F.A.C., effective October 7, 2010, regarding well abandonment.
#E.8.a. #E.8.b. #E.8.c. #E.9. #E.9.a.	Existing	Amended	References revised Water Quality Monitoring Plan and Figure 1
#E.9.b.	Existing	Amended	Revised leachate parameter list referenced.
#E.10.	Existing	Amended	Condensate sampling event results required to be provided as Electronic Data Deliverable reports.
#E.10.b.7 #F.5.b.	Existing	Amended	Condensate sampling frequency amended from semi-annual to annual.
#E.11.	Existing	Amended	Due dates for Monitoring Plan Evaluation reports revised.
#F.3.	Existing	Amended	References revised Operations Plan and Figure 1, deletes gas probe abandoned as part of Phase II construction.
#G.4.b.	Existing	Amended	References revised Department document.

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

A person whose substantial interests are affected by this modification of permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., Mail Station 35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

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

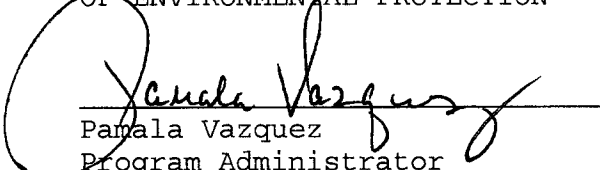
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C. Mediation is not available in this proceeding.

This modified permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this transfer of permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Pamela Vazquez  
Program Administrator  
Southwest District

PV/sgm

Attachments

Copies furnished to:

Sarasota County Elected Officials Notification  
Jason Timmons, P.E., HDR Engineering, Inc. [jason.timmons@hdrinc.com](mailto:jason.timmons@hdrinc.com)  
Richard Tedder, FDEP Tallahassee, (e-mail)  
Frank Hornbrook, FDEP, Tallahassee, (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Ronni Moore, OGC Tallahassee (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

**CERTIFICATE OF SERVICE**

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed or transmitted electronically to the addressee and the listed persons before the close of business on March 15, 2011 to the listed persons.  
Clerk 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.

  
Clerk

3/15/2011  
Date



# Florida Department of Environmental Protection

Southwest District  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926  
Telephone: 813-632-7600

Rick Scott  
Governor

Jennifer Carroll  
Lt. Governor

Herschel T. Vinyard Jr.  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Ms. Lois Rose, Manager  
4000 Knights Trail Road  
Nokomis, Florida 34275

## PERMIT/CERTIFICATION

WACS ID No: SWD/58/51614  
Permit No: **130542-007-SO/01**  
Date of Issue: **11/18/2008**  
Expiration Date: **11/18/2013**  
County: Sarasota  
Lat/Long: 27°12'11"N  
82°23'16"W  
Sec/Town/Rge: 1-4, 9-16/38S/19E  
Project: Central County Solid Waste Disposal  
Complex, Class I Landfill Operation

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code (F.A.C.) Chapters 62-4, 62-330, 62-520, 62-522, 62-550, and 62-701. The above named permittee is hereby authorized to perform the work or operate the facility shown on the application and approved drawing(s), plans and other documents, attached hereto or referenced in Specific Condition #A.2., and made a part hereof and specifically described as follows:

To operate, monitor and maintain a Class I landfill - **Phase I (approx. 55 acres) & Phase II (approx. 55.0 acres)**, and related facilities, referred to as the Central County Solid Waste Disposal Complex, subject to the specific and general conditions attached, for the management and disposal of solid waste, located at the north end of Knights Trail Road, 2 miles east of I-75, northeast of Venice, Sarasota County, Florida. The specific conditions attached are for the operation of a:

1. Class I Landfill
2. Leachate Storage Tank, and special waste management
3. Gas Collection and Control System

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVD (Cell 5 sump)
Bottom liner design	Composite, 60 mil HDPE on one foot of clay
LCS design (sideslope risers)	Geonet/geotextile, rock/8-inch HDPE LCS piping, 24" sand
LDS design	none
Leachate storage tank	Single concrete tank, 1.8 MG, concrete secondary containment [ref. Operation Plan, §K8.b., Attachment K-7]
Final elevation (including cover)	+121 feet NGVD [ref. SC#A.2.b., Sheet 2]
Slopes	3H:1V sideslopes, 4% top slope [ref. SC#A.2.b., Sheet 3]
Gas collection and control system	See Construction Permit No. 130542-009-SC/08 or its successors
	<b>Phase II</b> (see Construction Permit No. 130542-006-SC/01 or its successors)

Replaces Permit No. 130542-002-SO/01

Includes Modification Nos. 130542-010-SO/MM, dated 06/24/2009, 130542-013-SO/MM, dated 04/08/2010 and 130542-015-SO/MM, dated 03/15/2011.

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

**GENERAL CONDITIONS:**

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

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

**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **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 and 62-701, Florida Administrative Code.

2. **Permit Application Documentation.** This permit is valid for operation of the Class I landfill (Phases I & II) and related appurtenances in accordance with in accordance with all applicable requirements of Department rules and the reports, plans and information submitted by HDR Engineers, Inc. [HDR] (unless otherwise noted), as follows:

a. Central County Solid Waste Disposal Complex Class I Landfill Phase II Expansion Construction/Operation Permit Application (two 3-ring binder volumes and plan set) dated February 2007 (received February 20, 2007), as revised, replaced or amended (replacement pages inserted into original) dated and received June 22, 2007, dated September 21, 2007 (received September 27, 2007), dated January 11, 2008 (received January 16, 2008, dated March 18, 2008 (received March 19, 2008), dated April 24, 2008 (received April 25, 2008), dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) Operations Plan, dated March 2008 (Appendix A) [replaced by Op. Plan referenced in SC #A.2.d.(1), below];

2) Water Quality Monitoring Plan Addendum, revised April 2009 (received April 23, 2009) Appendix C [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below]; and

3) Plan Set titled, Phase II Class I Landfill Expansion Central County Solid Waste Disposal Complex (34 Sheets) dated March 2008 (received March 19, 2008) including Sheets G-02, G-05, C-04, C-05A through C-12 and C-14 through C-21 received January 16, 2008 (inserted into March 2008 plan set);

4) Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002, July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 (copy inserted into Water Quality Monitoring Plan Addendum, Appendix C referenced in Specific Condition #A.2.a.(2), above) [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].

Amended 06/24/2009 and 03/15/2011.

b. Plan Sheets titled, Sarasota County Phase I Class I Operations Drawings - Central County Solid Waste Disposal Complex ... (24" x 36" Sheets 1 through 9, 13C through 13R, and 14 through 17) dated January 2008, signed and sealed January 7, 2008 (received January 9, 2008).

c. Document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions dated July 24, 2002 [Section 2 - Leachate Sampling Parameters] and September 16, 2002 [Appendix A], received June 28, 2002 and July 29, 2002, and September 20, 2002; including revisions to Section 4 [Ground Water Sampling and Parameters], prepared by PBS&J dated February 22, 2007, received February 26, 2007 [replaced by Water Quality Monitoring Plan referenced in SC #A.2.f.(2), below].  
Amended 03/15/2011.



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

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

d. Central County Solid Waste Disposal Complex Class I Landfill Phase I Gas Collection and Control System Construction and Operation Permit Application (3-ring binder & plan set) dated December 29, 2008 (received December 30, 2008), as revised, replaced or amended (information collated into originals\*) dated March 13, 2009 (received March 26, 2009) and dated April 20, 2009 (received April 22, 2009). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2008, as revised March 2009 [replaced by Op. Plan referenced in SC #A.2.e.(1), below];

2) Section 3 - LFGCCS Operation and Maintenance Plan, dated March 2009 [replaced by LFGCCS O&M Plan referenced in SC #A.2.f.(3), below];

3) Plan Sheets titled, Permit Drawings for Central County Solid Waste Disposal Complex, Sarasota County Phase I Gas Collection and Control System... (17 Sheets) signed and sealed April 20, 2009 (received April 22, 2009).

New 06/24/2009; Amended 04/08/2010 & 03/15/2011.

e. Central County Solid Waste Disposal Complex (CCSWDC) Phase II Expansion Minor Modification Permit Application... [for operation of a temporary gas vent system and rain cell cover and dewatering system in Cells 3 & 4] dated January 11, 2010 (received January 12, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated February 18, 2010 (received February 19, 2010). This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated March 2009, as revised February 2010 [replaced by Op. Plan referenced in SC #A.2.f.(1), below].

New 04/08/2010; Amended 03/15/2011.

f. Central County Solid Waste Disposal Complex (CCSWDC) Class I Operations... Minor Modification Permit Application, dated and received July 2, 2010 (permit fee received August 24, 2010), as revised, replaced or amended (information collated into information in Specific Condition #A.2.a., above) dated and received December 30, 2010, and received via e-mail February 1, 2011 and March 8, 2011. This information includes, but is not limited to:

1) CCSWDC Operation Plan, dated December 2010 [replaces Op. Plan referenced in SC #A.2.e.(1), above];

2) Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex, prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised Section 5.1 received February 1, 2011, revised Section 4.2 received March 8, 2011 [replaces Water Quality Monitoring Plan Addendum referenced in SC #A.2.a.(2), and Ground Water Monitoring Plan Addendum referenced in SC #A.2.a.(4) and SC #A.2.c., above];

3) LFGCCS Operation and Maintenance Plan, [Op. Plan, Att. K-15] dated July 2010 [replaces LFGCCS O&M Plan referenced in SC #A.2.d.(2), above].

New 03/15/2011.

\* see OCULUS for uncollated submittals

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

**3. Permit Modifications.**

a. Any construction or operation not previously approved as part of this permit shall require a separate Department permit unless the Department determines a permit modification to be more appropriate. Any significant changes to the 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.

b. This permit authorizes the **operation** of the Phases I & II Class I disposal facility, the leachate storage tank system and related appurtenances.

1) In the event that the Department or permittee determines that the operation of Phase II needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request a modification of this permit, in accordance with Specific Condition A.3.a. above, to accommodate the appropriate operation changes.

2) In the event that the Department or permittee determines that the water quality monitoring plan for the facility needs to be revised based on the conclusions of the SAR referenced in paragraph 10 of Consent Order #08-1728, the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a. prior to implementation of changes to facility's water quality monitoring plan.

c. This permit does not authorize the **operation** of the Phase II portion of the landfill until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-006-SC/01 or its successors, for each phase of construction of Phase II.

2) Construction of groundwater monitoring wells as required by Specific Conditions #E.3.,

3) Completion of initial sampling of new monitoring wells as required by Specific Condition #E.3.

4) Construction of the stormwater management system,

5) Financial assurance requirements of Specific Condition #D.4.b.,

d. This permit does not authorize the **operation** of the Phase I gas collection and control system until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

1) Certification of Construction Completion requirements of Specific Conditions #B.2. and #B.3. of Construction Permit No. 130542-009-SC/08 or its successors.

New 06/24/2009.

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

4. **Permit Renewal.** On or before April 15, 2013 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than September 18, 2013**, 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, ~~a water quality monitoring plan evaluation, and revised (not inflation-~~adjusted) financial assurance cost estimates.

Amended 03/15/2011.

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 January 6, 2010, 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.

Amended 04/08/2010.

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 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.6.b, below. Written notification shall be submitted **within 7 days of discovery**. The written notification shall include a description of the depression, the location and size of the depression shown on an appropriate plan sheet, and a corrective action plan which describes the actions necessary to prevent the unimpeded discharge of waste or leachate into ground or surface water.

c. 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.6.b., below.

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

**1. Construction.**

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

b. Construction of the Phase I landfill gas collection and control system and related appurtenances is authorized by Construction Permit 130542-009-SC/08, (including modifications, if any), or its successors.  
New 06/24/2009.

**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 has been completed or as otherwise specified in this permit, the following activities shall be completed:

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.

**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 Phase I Operation Drawings [ref. SC#A.2.b. & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], the Operations Plan [ref. SC#A.2.f(1)] , the LFGCCS Operations and Maintenance Plan [ref. SC#A.2.f(3)], and any other applicable requirements. Amended 06/24/2009; 04/08/2010 ; and 03/15/2011.

1) Operation of the Materials Recovery Facility shall be in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

2) Operation of the Waste Tire Processing Facility shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors.

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

d. The permittee shall clearly stake/mark the location of the edge of the liner and maintain the locations as the landfill increases in elevation to prevent waste disposal and leachate runoff outside the geomembrane liner. The markers shall be of a sufficient size or design that effectively prevents waste disposal in unauthorized areas. The staking/markers shall be maintained at all times throughout the operation of the facility. Waste shall not be disposed within 10 feet of the edge of the liner in Phase I, within 7 feet of the edge of the north and west liner markers in Phase II, and within 14 feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec K.2.f]. Amended 03/15/2011.

e. Top gradients of intermediate cover shall be designed to prevent ponding or low spots and minimize erosion. **Daily**, the owner or operator shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas. Ruts from traffic and heavy equipment that may cause ponding shall be regraded at the end of each working day.

f. The Class I disposal areas shall operate as designed to limit the leachate head to one foot above the liner.

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

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

g. 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.6.

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.5.~~

3) The owner or operator shall inspect the normal traffic areas of the facility for litter **daily**. The property boundaries shall be inspected for litter **at least weekly**. Portable fences will be utilized as needed to keep litter from leaving the working face area [ref. Op. Plan, Secs. K.7.j]. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

h. In the event of fire, hurricane or other severe natural event, inoperable equipment, lack of qualified personnel, or stormwater control problems which allow prolonged (**greater than 72 hours**) contact of ponded water with waste, the facility shall cease disposing waste in the affected area until appropriate drainage has been restored.

i. Equipment. In the event of equipment breakdown or scheduled maintenance, the owner or operator shall ensure that sufficient reserve equipment is operating at the site **within 24 hours** of the occurrence [ref. Op. Plan, Secs. K.11.b]. 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.6.b., below and provide a schedule for corrective actions.

j. Fires. In the event of a fire which requires offsite assistance from the local fire protection authorities, the Department shall be notified pursuant to Specific Condition #C.6.b., below, and the owner or operator shall cease disposal of waste in the affected area until the fire has been completely extinguished, or as otherwise specified by the Department [ref. Op. Plan, Sec. K.2.b.(1)]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.

**Amended 03/15/2011.**

k. Waste streams generated by the operation or maintenance of the facility and equipment shall be managed such that any residual contaminants (such as gasoline, oil, paint, antifreeze, PCBs, etc.) shall be stored such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the ground or into surface or groundwaters.

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

**2. Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Attachment K-1] shall be on duty at the facility whenever the facility is operating and shall be responsible for operating and maintaining the facility in an orderly, safe, and sanitary manner.

b. A sufficient number of trained spotters (at least one trained spotter) shall be at the tipping areas at all times that waste is being accepted at the facility to inspect each load of waste as it is unloaded and spread, and shall remove prohibited materials prior to processing [ref. Op. Plan, Sec.K.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment K-1].

c. A sufficient number of trained personnel shall be available to adequately operate the facility. In the event that a trained operator or spotter is not available at the site, the facility shall be closed and shall not accept waste. In the event that unacceptable wastes are not adequately removed from the waste prior to disposal, additional trained spotters shall be required.

d. 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. [ref. Op. Plan, Sec.K.5]. 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 [ref. Op. Plan, Sec.K.6]. 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 [ref.SC#D.3.b.(3)].

b. The permittee shall not dispose of any 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.6.

**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 onsite processes (e.g., stormwater or leachate system maintenance) shall be dewatered and adequately characterized as nonhazardous prior to disposal.~~

**5. Control of Nuisance Conditions.**

a. The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust) 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 owner or operator shall submit an odor abatement plan to the Department **within thirty (30) 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.

c. The owner/operator shall control fugitive particulates (dust) from the operation of the facility in accordance with the procedures in Section K.11.d. of the Operations Plan.  
**New 03/15/2011.**

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, landfill gas collection and control system, land gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented. Erosion in the stormwater management system shall be minimized.  
**Amended 06/24/2009.**

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



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

(Specific Condition #C.6., cont'd)

c. In the event that any portion of the groundwater 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.6.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 stormwater or leachate management systems are damaged or are not operating effectively, corrective actions shall be implemented **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.~~

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below [ref. Op. Plan, Sec. K.7.k]:

1) **Within 7 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded, or

2) **By the end of the next working day** if waste or liner is exposed.

f. In the event that the intermediately covered side slopes exhibit chronic, "significant" erosion as defined above, a corrective action plan shall be submitted to the Department **within thirty (30) days** of written notification and request from the Department and corrective actions shall be implemented in accordance with the Department approved corrective action plan.

g. Areas which have received final cover, and which exhibit significant erosion as defined above, shall be repaired **within 72 hours of detection**.

h. 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**.

**7. Stormwater System Management.**

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

b. All stormwater conveyances shall be inspected weekly and after a greater than 0.5" rainfall events to verify adequate performance. Conveyances not performing adequately shall be repaired in accordance with the procedures specified in the Operations Plan [ref. Op. Plan, Sec. K.2.h.]. Documentation of all inspections and repairs shall be kept on file at the facility.

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

(Specific Condition #C.7., cont'd)

- c. Maintenance of the surface water management system shall be conducted in accordance with Section K.2.h. of the Operations Plan.
- d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to prevent ponded water within the disposal areas.

**8. Leachate Management.**

~~a. Leachate shall be managed in accordance with the requirements of Rule 62-701.500(8), F.A.C., the information in Section K.8 of the Operations Plan [ref. SC#A.2.f.(1)], and other applicable Department rules.~~  
**Amended 03/15/2011.**

b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal. The operator may install piping which drains ponded leachate from the bermed working face area to the toe of the landfill and into the leachate collection system as described in Section K.2.h. of the Operations Plan.

**Amended 03/15/2011.**

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

1) **Between July 15, 2009 and December 15, 2009**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phase I shall be conducted. A *final report* for this inspection shall include an evaluation of the effectiveness of the system, the location (indicated on a Site Plan drawn to scale) and cause of all obstructions encountered, proposed corrective actions and schedule for implementation of corrective actions as appropriate. The permittee shall retain a copy of the videotape at the facility for reference. **No later than January 15, 2010**, a *final report* summarizing the inspection results (with a copy of the inspection report) and describing the related corrective actions (repairs) if required (with photographic documentation for all repairs and a copy of the inspection videotape) shall be submitted to the Department to verify adequate performance of the leachate collection and removal system. The *final report* shall be signed and sealed by a professional engineer. The permittee shall retain a copy of the final report, each inspection report and inspection videotape at the facility for reference, and shall provide a copy to the Department upon request.

2) **Between September 15, 2012 and March 15, 2013**, an inspection (videotape or other appropriate assessment as approved by the Department) of the leachate collection system (LCS) for Phases I & II shall be conducted. A *final report* for this inspection, prepared consistent with the procedures in Specific Condition #C.8.c.(1) shall be submitted to the Department **no later than April 15, 2013**.

3) 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.f.(1)].

**Amended 03/15/2011.**

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

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

- 4) The leachate level indicators at the leachate storage tank shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation. The electric actuated cutoff valve shall be tested on a weekly basis to ensure proper operation [ref. Op. Plan, Sec. K.8.b.].
- 5) The operation of each pump, metering manholes, leak detection manholes, related sensors and controller mechanisms, and pump station shall be verified on each operating day [ref. Op. Plan, Sec. K.8.h.]. Pumps showing reduced performance shall be removed for maintenance and repair, and a replacement pump installed if required for continued compliance. Control panels shall be inspected and operational data recorded in accordance with Section K.8.f of the Operations Plan.
- 6) In the event that the pumps, pump stations or level sensors are not operating as designed, the Department shall be notified in accordance with Specific Condition #C.6.b. Otherwise, documentation of all inspections shall be kept on file at the facility, and provided to the Department upon request.
- 7) 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.
- 8) Leachate tank inspections.
  - a) The exposed exterior of the leachate storage tank shall be inspected **at least weekly** for defects, leaking and other deficiencies. The containment area, truck loadout area, and other leachate tank system appurtenances shall be inspected at least daily for leakage or other damage.
  - b) **Within sixty (60) days of the date of issuance of this permit**, the permittee shall provide a copy of the interior tank inspection report that was conducted in February 2007.
  - c) The leachate storage tank system shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C., and in accordance with the conditions of this permit. **No later than April 15, 2010 and April 15, 2013**, the interior of the tank shall be inspected. A copy of the inspection report shall be submitted to the Department **within 30 days** of the inspection. In the event that deficiencies are noted in the inspection report, **within fifteen (15) days** of the owner's receipt of the written inspection report, the owner or operator shall propose corrective measures (including a schedule for implementation) to the Department. The deficiencies shall be corrected in accordance with the schedule approved by the Department.
  - d) Liquids that accumulate in the tank secondary containment area shall be tested as described in Section K.8.b of the Operations Plan. Records of these test results shall be maintained onsite and provided to the Department upon request.

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

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

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.6.

2) Leachate generation reports shall be compiled monthly and submitted to the Department **quarterly, by January 15th, April 15th, July 15th and October 15th each year.** ~~Leachate generation reports~~ shall include precipitation amounts, the number of open, intermediate and closed acres, leachate levels (elevations) in the leachate piezometer, and the quantities of leachate collected, stored, and hauled off-site to a wastewater treatment facility.

e. No later than **thirty (30) days** prior to the expiration of any contracts or agreements for the disposal of leachate at wastewater treatment facilities, the permittee shall provide a copy of the contract renewal or the issuance of a new contract for leachate disposal.

f. Leachate Leakage Action Rate.

1) Leakage into the leakage detection systems (LDS) in Phase II, should not exceed 100 gal/ac/day [ref. Op. Plan, Sec. K.8.b.].

2) Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate which is removed from the LDS exceeds the action leakage rate, the Department shall be notified **within 48 hours** of discovery and the procedures specified in Section K.8.b. of the Operations Plan shall be initiated. A written plan for corrective action shall be submitted to the Department **within 7 days** of discovery. The approved plan of action shall be implemented within 15 days of Department approval, or in accordance with an alternate schedule approved by the Department.

g. The primary leachate disposal method shall be pumping directly to City of Venice WWTP [ref. Op. Plan, Sec. K.8.b.]. However, leachate may be hauled to other disposal facilities as a contingency measure. In the event that the primary leachate disposal facility becomes unable or unwilling to accept leachate for disposal, **within three (3) days** of the cessation of leachate acceptance by the POTW, the landfill owner or operator shall notify the Department and shall explain the contingency measures which will be implemented. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the POTW or in accordance with an alternate schedule approved by the Department.  
**Amended 03/15/2011.**

h. Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the forcemain piping or pumps. The concrete pad around the leachate forcemain piping and pumps does not include curbing or sumps to prevent leachate spills from discharging from the pad. In the event that the leaks, spills or other evidence of leachate discharge is observed at the facility, corrective actions shall be required to ensure that appropriate procedures and/or designs are used to prevent discharge of leachate to the environment.

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

i. Reuse of Leachate for Dust Control.

1) Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section K.11.d., of the Operations Plan [ref. SC #A.2.f(1)]. The landfill operator shall monitor the rate of leachate application, soil (cover material) moisture conditions, and the specific landfill areas used to prevent the generation of leachate runoff. Leachate shall only be reused for dust control under the following conditions:

**Amended 03/15/2011.**

a) Leachate may only be sprayed on active, bermed, disposal areas, including the working face and areas with the required six (6) inches of initial cover with a maximum slope of 10H:1V;

b) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;

c) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;

d) Leachate shall not be sprayed when the application area is in a saturated condition (as evidenced by ponding water or pumping soils) or during a rainfall event;

e) The application rate of leachate must be such that the leachate does not accumulate on the landfill surface but infiltrates quickly into the covered refuse;

f) Leachate shall not be sprayed at the end of the day on the initial cover of the working face or other areas. Spraying shall be initiated early in the morning after any dew evaporates and may continue until early afternoon or until all available areas have been utilized; and

g) Leachate shall not be reused or sprayed outside the lined disposal area.

2) The following shall be recorded each day leachate is reused for dust control:

a) Quantity of leachate sprayed (gal/day);

b) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and

c) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

**Amended 03/15/2011.**

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

9. **Special Wastes.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c & Landfill Recycling Plan, Attachment K-13]; 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.

a. 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.

b. The special wastes shall be handled on a first-in, first-out basis.

c. Special wastes 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 Operations Plan and this permit, unless another frequency for removal is approved in writing by the Department.

d. Asbestos. Asbestos shall be managed in accordance with Rule 62-701.520(3), F.A.C., the Operations Plan, and all other applicable federal and Department rules. The asbestos shall be covered by a minimum of six (6) inches of soil or a suitable thickness of other materials to prevent the rupture of the asbestos bags prior to additional loads of waste being disposed in the same location [ref. Op. Plan, Sec. K.2.c.].

e. Contaminated Soil. Contaminated soil accepted at the facility for disposal 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 [ref. Op. Plan, Sec. K.2.c. & Attachment K-4].

f. Used Oil. Used oil accepted at this facility, shall not be commingled with the incoming waste stream, or disposed of at this facility. Oily wastes, sorbents, or other materials used for maintenance or to clean up or contain used oil leaks, spills, or accidental releases may be accepted for disposal as a Class I waste at this facility. Used oil shall be accepted, stored, and managed at the contractor's maintenance building or the Citizen's Convenience Center in accordance with the procedures in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. A maximum of 20 gallons of used oil may be stored at the maintenance building at any time and two 480 gallon double containment tanks are provided at the Citizen Convenience Center. Waste oil shall be removed at least **quarterly (every 3 months)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

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

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

g. White Goods and Lawn Mowers. The white goods and lawn mowers shall be stored within the designated area south of Phase I, as shown on Sheet G-03 of the Operation Drawings and managed as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed in a manner such that the CFCs are not discharged to the atmosphere. Lawn mowers 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. White goods which have had the refrigerant appropriately removed shall be clearly marked. Lawn mowers shall not be accepted at the facility unless fuels and oils have been removed prior to delivery. A maximum of 1250 white goods and lawn mowers may be stored at the site at any time, and shall be removed from the site at least **monthly (every 30 days)** [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

h. Lead acid batteries. Lead acid batteries shall be removed from the site **at least monthly (every 30 days)**. The batteries shall be stored in the designated 30 ft x 45 ft covered concrete pad adjacent to the maintenance building and also in the designated location at the Citizen Convenience Center in a manner which prevents the discharge of contaminants to the environment. A maximum of 50 lead acid batteries may be stored onsite at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

i. Yard Waste. Yard waste shall be managed in accordance with the Operations Plan, Rule 62-701.320, F.A.C., and the facility's yard trash processing Facility registration. Bagged yard trash or land clearing debris shall not be mulched at the site unless the bags are removed prior to mulching. Mixtures of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill [ref. Op. Plan, Attachment K-13].

j. Electronics. Electronics to be recycled shall be stored in an undamaged condition, and removed at least **monthly (every 30 days)**. Electronics that have been damaged (i.e., broken) shall be removed and stored in a covered containment area to prevent contact with rainfall and related discharge, and removed at least **monthly (every 30 days)**. A maximum of 1000 electronic devices may be stored at the site at any time [ref. Op. Plan, Sec. K.2.c. & Attachment K-13].

k. Tires. Waste tires shall be removed from the working face and shall be stored in the area of the future Phase V as shown on Sheet G-03 of the Operation Drawings [ref. Op. Plan, Sec. K.2.c. & Attachment K-13]. Waste tires shall be managed in accordance with Operation Permit 126775-002-WT/02 (including modifications, if any), or its successors, and shall be stored in a manner which prevents nuisance conditions and vectors (i.e. mosquitoes, rats, etc.).

l. Construction & Demolition Debris. Construction and demolition debris delivered to the facility are managed at the Materials Recovery Facility in accordance with Chapter 62-701, F.A.C., and Operation Permit 134912-003-SO (including modifications, if any), or its successors.

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

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

m. Household Hazardous Waste (HHW). Household hazardous waste shall be managed in accordance with the Operations Plan [ref. Op. Plan, Sec. K.2.c.] and shall be removed from the site for proper disposal **at least monthly**.

1) HHW shall be identified, and then segregated for storage within the containment areas by the end of each working day.

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) HHW received at the facility shall be stored within containment areas at all times.

n. Citizen Convenience Center. The Citizen Convenience Center shall be constructed and operated as described in the Operations Plan [ref. Op. Plan, Sec. K.2.c.].

o. Liquids Restrictions. Liquids shall not be accepted at the facility for disposal except as specified in Rule 62-701.300(10), F.A.C.

**10. Waste Handling Requirements.**

a. A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. In the event that unacceptable wastes are not adequately removed due to inadequate personnel, additional trained spotters shall be required.

b. A trained spotter shall be positioned at the working face to inspect each load as it is being received, unloaded and as it is spread and compacted [ref. Op. Plan, Sec. K.2.c].

**11. Waste Covering Requirements. All solid waste disposed of in the Class I landfill 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 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 approved materials identified in Attachment L-10 of the Operations Plan, at the end of each working day [ref. Op. Plan, Sec. K.7.e].

2) For those areas where solid waste will be deposited on the working face within 18 hours, initial cover may consist of a temporary tarpaulin cover [ref. Op. Plan, Sec. K.7.f].



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

(Specific Condition #C.11.a., cont'd)

3) Alternate daily (initial) cover materials (ADCM) shall be approved by the Department prior to use at the facility. For those areas where solid waste will be deposited on the working face within 18 hours, the following materials are approved for use as alternate initial cover: tarps; tire chips; 50/50 mixtures of soil/mulch or soil/compost; 50/50 mixtures of shredded asphalt shingles and soil; shredded C&D debris or RSM [see Op. Plan, Secs. K.2.g., K.7., K.7.e., and Attachment K-10]. Other Department- approved ADCM may be used as initial cover only, but shall not be used outside of lined areas without specific prior Department approval. Yard trash (compost or mulch), screened or unscreened, and then mixed in the ratio of 50% compost (or mulch) to 50% soil, and applied in a six (6) inch compacted layer, may be used as initial or intermediate cover. The processed yard trash shall not contain particles greater than six inches and shall not contain plastic.

4) A 2-inch layer of processed yard waste or clean wood may be spread over initial cover for stabilization and erosion control measures [ref. Op. Plan, Secs. K.7.e].

5) Runoff from areas with initial cover may be considered uncontaminated stormwater only if the area

- a) is adequately covered with a tarp or rain cell cover; **OR**
- b) has 6-inches of soil (not ADCM) cover with no visible waste exposed, **AND**
- c) has no evidence of leachate seepage, **AND**
- d) has no evidence of erosion.

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 if final cover or an additional lift is not to be applied within 180 days. **Sod shall be applied** to all intermediately covered (external) side slope areas that have reached designed dimensions [ref. Op. Plan, Sec. K.7.g].

2) Contaminated soils shall not be used for intermediate cover. These materials may be used for initial cover provided the runoff from these areas is managed as leachate. Analyses of the contaminated soils which demonstrate that the soils are not hazardous shall be maintained on-site, and copies provided to the Department upon request.

3) A mixture of soil and screened compost or mulch (1/2 inch screen, 25% soil, 75% compost/mulch) may be used for intermediate cover [ref. Op. Plan, Sec. K.7.g].

4. Materials that have been used for intermediate cover may be removed and reused only if the materials are free of waste [ref. Op. Plan, Sec. K.7.g].

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

**12. 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 Operations Plan [ref. Op. Plan, Sec. K.2.g.]. ~~Slopes shall be maintained in accordance with the Operations Drawings.~~ The working face and all above grade slopes shall be no greater (steeper) than **3H:1V** [ref. Op. Plan, Sec. K.2.g.].

c. Berms and/or swales shall be maintained to prevent leachate runoff from the working face from entering the stormwater management system. Runoff from outside the working face area will not be considered stormwater if the flow passes over areas which have not been intermediately covered as defined by Rule 62-701.200(55), F.A.C., and stabilized to control erosion.

**13. Method and Sequence of Filling.**

a. The method and sequence of filling shall be in accordance with the Phase I Operation Drawings [ref. SC#A.2.b & Op. Plan, Attachment K-14], the Phase II Landfill Staging Plan [ref. SC#A.2.a.(3), Sheets C-07 through C-11], and as described in the Operations Plan [ref. Op. Plan, Secs. K.2.f. & K.7.], or as otherwise approved in writing by the Department.

b. Initial Waste Placement.

1) No disposal vehicles shall be operated directly on the liner protective layer. During the initial placement of waste in each cell, soil platforms or similar protective measures shall be placed adjacent to the working face to keep vehicles off the liner protective cover.

2) The first lift of waste shall be a minimum of four(4) feet in compacted thickness and consist of selected wastes containing no large rigid objects that may damage the liner or leachate collection system and shall be conducted in accordance with the procedures in Section K.7.b of the Operations Plan. At least 7 days prior to the initiation of waste placement in each cell, the Department shall be notified in order to allow Department observation of the select waste type and placement.

c. 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. [ref. Op. Plan, Sec. K.3.]. **Annually, no later than April 15<sup>th</sup> 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 above-grade side slopes are no greater than the design slopes, that the top elevation does not exceed design elevation, and that all other design features and related improvements conform to the Department-approved permit drawings. The capacity estimate shall include updated design lifetime calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

1. **Report Submittals.** Unless otherwise specified, all submittals, notifications, requests for permit modification, reports for compliance with this permit, etc. shall be sent to: Solid Waste Section, Department of Environmental Protection, Southwest District Office, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

2. **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 Operations Plan [ref. SC#A.2.f(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 Operations 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.

**Amended 03/15/2011.**

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

d. The following reports, documents and other information shall be kept 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 and weekly inspections, and any subsequent corrective actions;
- 3) Load checking records;
- 4) Operator and spotter training certificates and other documentation;
- 5) Log of odor complaints and corrective action; and
- 6) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion.
- 7) Log of discharges from leachate storage tank secondary containment area [ref. Op. Plan, Sec. K.8.b.].
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) gas collection/control system performance testing records [ref. SC #A.2.f(3), Sec. 3.3].

**Amended 06/24/2009 and 03/15/2011.**

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**3. 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 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup> and October 15<sup>th</sup> 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.

**4. Financial Assurance.** The permittee shall provide adequate financial assurance for this facility and related appurtenances in accordance with Rule 62-701.630, F.A.C.

a. All costs for closure shall be adjusted and submitted for approval **annually, by September 1<sup>st</sup> each year** to: Solid Waste Manager, Solid Waste Section, Department of Environmental Protection, 13051 North Telecom Parkway, Temple Terrace, Florida 33637-0926.

b. Proof that the financial mechanism has been adequately funded shall be submitted **annually** to: Financial Coordinator, Solid Waste Section, Department of Environmental Protection, 2600 Blair Stone Road, 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 regarding the collection of ground water, surface water, leachate, and condensate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated March 31, 2008 [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 06/24/2009 and 03/15/2011.

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 site shall extend horizontally 100 feet from the limits of the landfill liner (all active, inactive and closed disposal 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 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 ground water minimum criteria referenced in Rule 62-520.400, F.A.C., will not be exceeded outside the footprint of the disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring system locations for the combined Phase I and Phase II footprint is designed and constructed in accordance with the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

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

(Specific Condition #E.3., continued)

Well #	WACS	Scheduling	Aquifer	Designation	Location
	Testsite ID #	Notes			
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21453	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	See Figure 1
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	B, Y	Surficial	Detection	↓
MW-18	23034	B, Y	Surficial	Detection	↓
MW-19	23035	B, Y	Surficial	Detection	↓
MW-20	23036	B, Y	Surficial	Detection	↓
MW-11R	20588	A, Z	Surficial	Detection	See Figure 1
MW-12R	20589	A, Z	Surficial	Detection	↓
MW-3	4503	A	Surficial	Piezometer	See Figure 1
MW-5	4505	A	Surficial	Piezometer	↓

~~Proposed surficial aquifer monitor wells shall be constructed in accordance with the details provided in Table 2-2 ("Proposed Monitoring Well Construction Information") and Figure 2.0 ("Typical Proposed Ground Water Monitoring Well"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a(2)].~~

A = existing monitor well/piezometer

B = proposed monitor well to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

X = construction details and results of initial sampling event previously provided

Y = documentation of well construction shall be submitted within 30 days of installation in accordance with Specific Condition #E.5.b., and #E.5.d.; an initial sampling event shall be conducted within 7 days of well installation and development for the parameters listed in Specific Condition #E.4.b.

~~Z = existing monitor well to be abandoned prior to initiation of construction activities for Phase II, Cell 1; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.~~

All monitor wells and piezometers are to be clearly labeled and easily visible at all times. Bollards or other devices shall be installed to protect the monitor wells located in areas of high traffic flow within the facility. The permittee shall keep all monitor wells and piezometers locked to minimize unauthorized access.

Amended 06/24/2009, 04/08/2010 and 03/15/2011.

**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. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 2.3 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f.(2)] Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be reported at or below the Maximum Contaminant Levels established for the individual parameters to demonstrate compliance with the Class G-II ground water standards referenced in Chapter 62-520.420, F.A.C., and with the ground water minimum criteria referenced in Chapter 62-520.400, F.A.C. Compliance with ground water standards and minimum criteria shall be based on the analysis of unfiltered samples.

**Amended 03/15/2011.**

a. Ground water levels shall be measured at all active monitor wells and piezometers listed in Specific Condition #E.3., and surface water elevations shall be measured at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

b. An "initial sampling event" shall be conducted **within 7 days of installation and development** of all new and replacement monitor wells for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix II</b>	

c. All background and detection wells listed in Specific Condition #E.3., shall be sampled semi-annually (during the periods from January 1 to June 30, and from July 1 to December 31) for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Static water levels before purging	Total ammonia - N	Calcium
Specific conductivity	Bicarbonate	Iron
pH	Carbonate	Magnesium
Dissolved oxygen	Chlorides	Mercury
Temperature	Nitrate	Potassium
Turbidity	Sulfate	Sodium
Colors & sheen (by obs.)	Total dissolved solids (TDS)	
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	

Following the completion of the "initial sampling event" at proposed wells MW-15 through MW-20 in accordance with the schedule presented in Specific Condition #E.3., the new detection wells shall be included in subsequent routine ground water sampling events.

**Amended 06/24/2009.**

**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 piezometers, or as stated below:

a. Prior to construction of all new or replacement wells (excluding proposed wells MW-15 through MW-20) or piezometers the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.a.  
Amended 06/24/2009.

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 #62-701.900(30) [attached].~~  
Amended 04/08/2010.

c. **Within one week of well completion and development**, each new or replacement monitor well shall be sampled for the parameters listed in Specific Condition #E.4.b., to comply with the requirements of 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 and piezometer 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 Licensed Professional Surveyor and Mapper.

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of 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.

Amended 03/15/2011.

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected at concentrations significantly above background water quality, or exceed the Department's ground water quality standards or minimum criteria in any detection well, 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 as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected at concentrations significantly above background water quality, and exceed the Department's ground water quality standards or minimum criteria in any compliance well, the Permittee shall submit a preventive measures plan and initiate corrective action as described in Rule 62-701.510(7)(c), F.A.C.  
Amended 04/08/2010.



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

8. **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 at staff gauges #STW-1 through #STW-4, #STW-5A, #STW-5B, #STW-6 and #STW-7 (located in stormwater ponds #1 through #7) as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.8.c., to a precision of 0.01 foot. The water table surface elevation contour maps of the surficial aquifer shall be prepared for each set of water level measurements including the ground water surface elevation (using a consistent, nationally recognized datum) calculated for each monitor well and piezometer, and surface water elevations (using a consistent, nationally recognized datum) calculated for each staff gauge. The contour maps shall be submitted to the Department in the reports for the routine ground water sampling events (SC#E.10.) and the monitoring plan evaluation reports (SC#E.11.).

Amended 06/24/2009 and 03/15/2011.

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), as follow:

Amended 06/24/2009 and 03/15/2011.

Surface	WACS Testsite	
Water ID #	ID #	Location
B2	4519	Old Cow Pen Slough, upstream location
B4R	20060	Old Cow Pen Slough, downstream location

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 the locations described in SC#E.8.b., in accordance with Rule 62-701.510(6)(e), F.A.C., for analysis of the parameter list for routine sampling events described in Section 3.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011 [ref. SC#A.2.f(2)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness (as mg/L of CaCO <sub>3</sub> )	
Dissolved oxygen	Total phosphorus	Total nitrogen
Turbidity	Calcium	Unionized ammonia
Temperature	Iron	Biochemical oxygen demand (BOD <sub>5</sub> )
Colors and sheens	Magnesium	Chemical oxygen demand (COD)
(by observation)	Mercury	Total organic carbon (TOC)
Surface water	Potassium	Total dissolved solids (TDS)
elevation	Sodium	Total suspended solids (TSS)
	Sulfate	Fecal coliform
	Bicarbonate	Carbonate

Those parameters listed in 40 CFR Part 258, **Appendix I**

Amended 04/08/2010 and 03/15/2011.

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

9. **Leachate Sampling.** Representative leachate samples (unfiltered) shall be collected from each of the locations described in Specific Condition #E.9.a., for the sampling events described in Specific Conditions #E.9.b., and #E.9.c. 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 parameter list for the sampling events described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011

[ref. SC#A.2.f(2)]:

Amended 03/15/2011.

a. Representative leachate samples shall be collected from each of the sampling ports on the leachate pump valve boxes for the Phase I cells, and on the leachate pump station for the Phase II cells at the monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., December 30, 2010 (attached), as follow:

<u>Leachate</u> <u>Sample ID #</u>	<u>Landfill Cell</u>	<u>WACS Testsite</u> <u>ID #</u>
C-1	Phase I, Cell #1	20580
C-2	Phase I, Cell #2	20581
C-3	Phase I, Cell #3	20582
C-4	Phase I, Cell #4	20583
C-5	Phase I, Cell #5	20584
P2-1	Phase II, Cells #1-#4	23037

A composite leachate sample may be prepared from the samples collected from the leachate sampling ports at the Phase I cells for analysis of the inorganic parameters only presented in Specific Condition #E.9.b., in accordance with the procedure described in Section 4.2 of the document entitled "Water Quality Monitoring Plan, Central County Solid Waste Disposal Complex," prepared by Sarasota County Solid Waste Operations, dated December 17, 2010, revised February 1, 2011 and March 8, 2011

[ref. SC#A.2.f(2)]. Otherwise, individual leachate samples shall be collected from each of the leachate sampling ports at the Phase I cells for analysis of the parameters presented in Specific Condition #E.9.b., and #E.9.c. Leachate samples collected from Phase I and Phase II cells shall not be composited.

Amended 06/24/2009 and 03/15/2011.

b. **Semi-annual** leachate sampling shall be conducted for analysis of the following parameters:

<u>Field Parameters</u>	<u>Laboratory Parameters</u>	
Specific conductivity	Total ammonia - N	Calcium
pH	Total alkalinity (as mg/L CaCO <sub>3</sub> )	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	
	Biochemical oxygen demand (BOD <sub>5</sub> )	
	Chemical oxygen demand (COD)	

Amended 04/08/2010 and 03/15/2011.

c. **Annual** leachate sampling shall be conducted during the second half of each year for analysis of the parameters listed in Specific Condition #E.9.b., plus the parameters listed in 40 CFR Part 258, Appendix II.

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

(Specific Condition #E.9., continued)

d. If the leachate analyses indicate that a contaminant listed in 40 CFR Part 261.24 exceeds the regulatory level listed therein, the permittee shall provide notification to the Department in accordance with Specific Condition #C.6.b. In addition, the permittee shall initiate monthly leachate sampling at the locations listed in Specific Condition #E.9.a., for analysis of the parameters listed in Specific Condition #E.9.b. Results of the monthly leachate sampling shall be submitted to the Department 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.

10. **Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate, and condensate sampling event conducted at the Sarasota County Central Landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that include:  
**Amended 03/15/2011.**

a. Required water quality, leachate, and condensate monitoring reports and all analytical results shall be submitted electronically on compact disk or flash drive media. Water quality, leachate, and condensate monitoring reports shall be submitted in Adobe pdf file format. The water quality, leachate, and condensate EDD shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <ftp://ftp.dep.state.fl.us/pub/WACS-ADaPT>. Water quality, leachate, and condensate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

1. Cover letter;
2. Summary of exceedances and recommendations;
3. Ground water contour maps;
4. Chain of custody forms;
5. Water levels, water elevation table;
6. Ground Water Monitoring Report Certification, using Department Form #62-701.900(31);  
**Amended 04/08/2010.**
7. Appropriate sampling information on Form FD 9000-24 (DEP-SOP-001/01); and,
8. Laboratory and Field data and error logs, as applicable. [In addition to the Adobe pdf file format, this data and associated error logs shall be submitted in an ADaPT-compatible, comma separated text file format.]

The report of results shall be submitted to:

- Department of Environmental Protection, Southwest District Office, Solid Waste Section, 13051 North Telecom Parkway, Temple Terrace, FL 33637-0926; and,
- Department of Environmental Protection, Solid Waste Section 2600 Blair Stone Road, MS 4565, Tallahassee, FL 32399-2400.

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

(Specific Condition #E.10., continued)

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

1. Specific Condition #E.4.b. - results of ground water "initial sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
2. 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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;
3. Specific Condition #E.8.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 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;
4. Specific Condition #E.9.b. - results of leachate semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> and July 15<sup>th</sup> of each year** for the periods July 1 to December 31, and January 1 to June 30, respectively;
5. Specific Condition #E.9.c. - results of leachate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year;**
6. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted **within 30 days from completion of laboratory analyses; and,**
7. Specific Condition #F.5.b. - results of condensate annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the period July 1 to December 31.

Amended 06/24/2009 and 03/15/2011.

11. **Monitoring Plan Evaluation.** By May 18, 2011 and September 18, 2013, 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:

Amended 06/24/2009 and 03/15/2011.

**Water Quality Monitoring  
Data Evaluation Due Date  
May 18, 2011**

**Starting  
Sampling Event  
First half 2007**

**Ending  
Sampling Event  
Second half 2010**

**September 18, 2013**

**First half 2011**

**Second half 2012**

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, FL 33637-0926.

**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 Rules 62-701.500(9) and 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., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1 (Jan - Mar)  
Quarter 2 (Apr - June)  
Quarter 3 (July - Sep)  
Quarter 4 (Oct - Dec)

**Report Submitted By**

April 15<sup>th</sup> of each year  
July 15<sup>th</sup> of each year  
October 15<sup>th</sup> of each year  
January 15<sup>th</sup> of each year

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring locations shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received December 30, 2010 (**attached**), 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. Landfill gas monitoring shall be conducted in accordance with Section K.9.b. of the Operations Plan [ref. SC#A.2.f.(1)], at the following locations:

Monitoring Point	Scheduling Notes	Location	Location Description
GP-1	A, X	Figure 1	West boundary of Phase I footprint
GP-2	A	Figure 1	North boundary of Phase I footprint
GP-3	A	↓	East boundary of Phase I footprint
GP-7	A	↓	North of C&D processing area
GP-9	B	↓	West boundary of Phase II, Cell 4
GM-1	A	↓	Contractor's maintenance building/yard
GM-2	A	↓	C&D processing area
GM-3	A	↓	County maintenance building
GM-4	A	↓	Administration building
GM-5	A	↓	Scale house
GM-7	A	↓	Control panel at leachate storage facility

~~Proposed gas probe GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received April 23, 2009 as referenced in the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc. [ref. SC#A.2.a.(2)].~~

A = existing gas probe/gas monitoring location

B = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 1

~~X = to be abandoned prior to initiation of construction activities for Phase II, Cell 1~~

The listed gas monitoring probes are to be clearly labeled and easily visible at all times.

Amended 06/24/2009 and 03/15/2011.

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.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the LFGCCS Operations and Maintenance Plan [ref. SC #A.2.f.(3)] any other applicable requirements.  
Amended 03/15/2011.

b. Annual condensate sampling shall be conducted at Condensate Sump S-4 [WACS Testsite ID #23346] for analysis of the leachate parameters listed in Specific Conditions #E.9.b. and #E.9.c. [ref. SC #A.2.f.(3), Sec 8.2 & ref. SC #A.2.d.(3), Sheet C-05]  
Amended 03/15/2011.

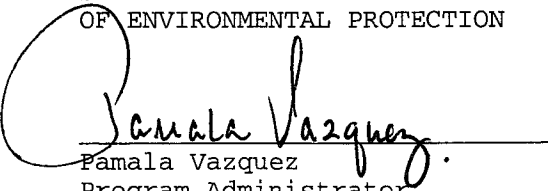
New 06/24/2009

**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, 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.
3. **Long-Term Care Requirements.**
  - a. The permittee shall perform long-term care for the facility in accordance with Rule 62-701.620, F.A.C., and the information referenced in Specific Condition #A.2.a.
  - b. Long-term care includes, but is not limited to, water quality, leachate and gas monitoring, maintenance of the final cover system, maintenance of the leachate collection and removal system, erosion control, and the prevention of ponding within disposal areas.
4. **Use of Closed Landfill Areas.**
  - a. There are no currently closed areas of the Class I landfill.
  - b. Use of closed landfill areas requires consultation with and approval by the Department prior to conducting these activities in accordance with Rule 62-701.610(7), F.A.C. The Department retains regulatory control over any activities which may affect the integrity of the environmental protection measures such as the landfill cover, drainage, final cover materials (soil and vegetation), leachate collection system, bottom liner, monitoring systems or stormwater controls. A plan detailing the proposed activities and evaluation of the potential effects on the landfill systems (including engineering designs, calculation and plans, as appropriate) shall be submitted for Department review to comply with the requirements of the Department's document entitled "Guidance for Disturbance and Use of Old Closed Landfills or Waste Disposal Areas in Florida, Final v.2.1", dated February 3, 2011, or successor document.  
**Amended** 03/15/2011.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Pamala Vazquez  
Program Administrator  
Southwest District

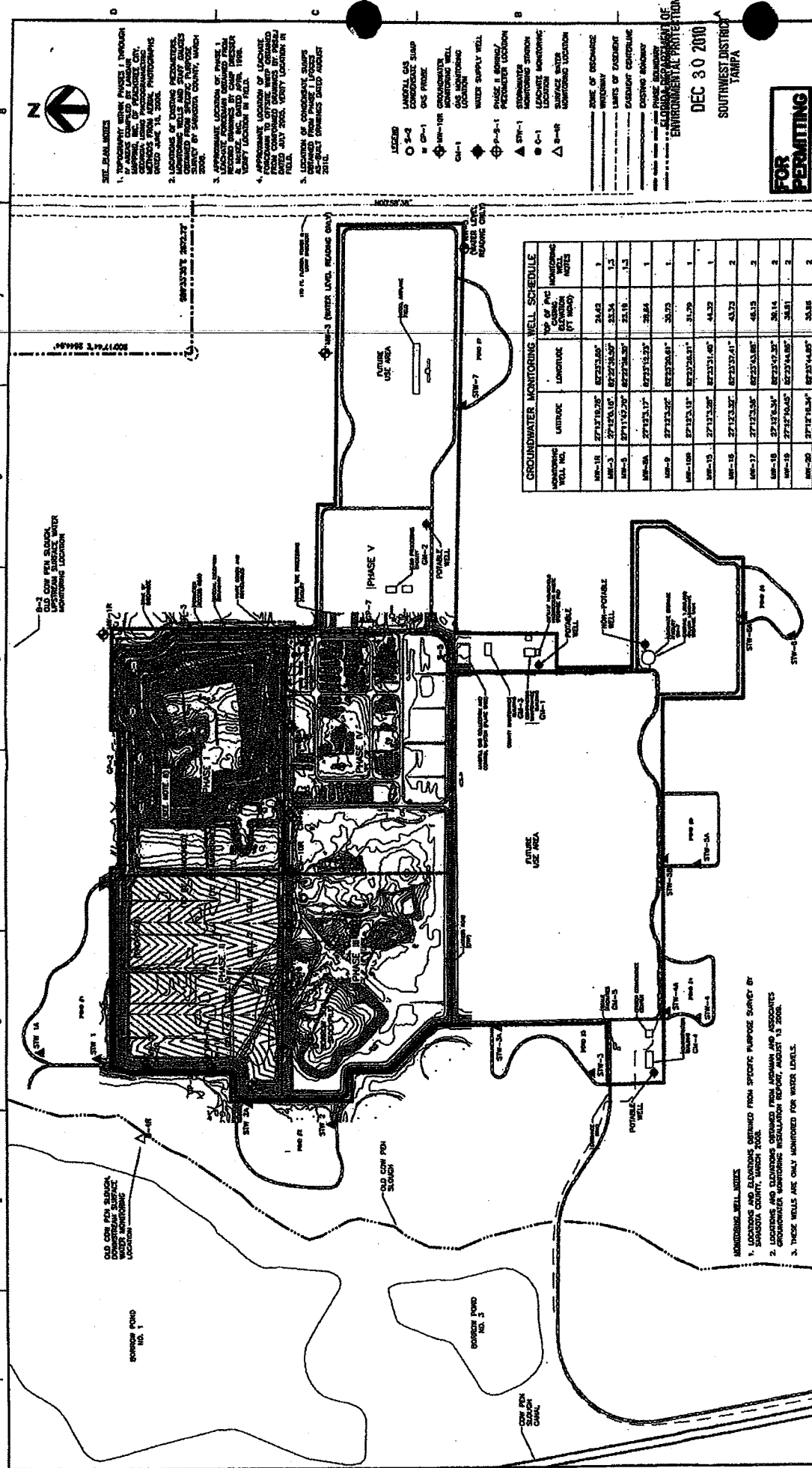
ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
A.4.	No later than September 18, 2013	Submit permit renewal application
A.9.b.	Within 24 hours of discovery	Notification of sinkholes or subsurface instability
	Within 7 days of verbal notification	Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.6.b.	Within 24 hours of discovery	Notification of: hazardous waste receipt, failure of landfill systems or equipment
	Within 7 days of verbal notification	Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for gradient or groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
C.8.c(1)	No later than January 15, 2010	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(2)	No later than April 15, 2013	Submit leachate assessment report, videotape, inspection results, etc. for Phase I
C.8.c(8)(b)	Within 60 days of permit issuance	Submit copy of tank inspection report for 2007
C.8.c(8)(c)	By April 15, 2010 and April 15, 2010	Conduct inspection of interior of tank
C.8.d(2)	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> and October 15 <sup>th</sup> each year	Submit leachate generation reports
C.13.c.	Annually, by April 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by September 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding



ATTACHMENT 1

Specific Condition	Submittal Due Date	Required Item
E.4.b.	Within 7 days of new well installation and development	Conduct initial sampling event
E.4.c.	Semi-annually	Sample background and detection wells
E.5.a.	Prior to installation of new wells	Request and received permit modification
E.5.b.	Within 90 days of installation of new wells	Provide construction details for wells
E.5.c.	Within 1 week of well development	Conduct initial sampling
E.5.d.	Within 90 days of installation of new wells	Provide survey drawing
E.6.	Within 30 days of well abandonment	Submit documentation of abandonment
E.7	Within 14 days of discovery	Notification of: monitoring parameters significantly above background water quality or exceeding ground water standards or minimum criteria
E.8.c.	Semi-annually	Sample surface water monitoring locations
E.9.b.	Semi-annually	Conduct leachate sampling
E.9.c.	Annually	Conduct leachate sampling
E.10.	Semiannually by January 15 <sup>th</sup> and July 15 <sup>th</sup> of each year	Submit results of routine ground water sampling events, routine surface water sampling events, and semi-annual leachate sampling events
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events and annual condensate sampling events
E.11.	May 18, 2011 and September 18, 2013	Submit monitoring plan evaluation reports
F.2.c.	Quarterly, by January 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and October 15 <sup>th</sup> of each year	Submit results of routine landfill gas monitoring events
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application



GROUNDWATER MONITORING WELL SCHEDULE	WELL SCHEDULE	NO. OF PAC MONITORING WELLS	NO. OF PAC MONITORING WELLS
WELL NO.	LOCATION	WELL NO.	LOCATION
WM-18	27°13'16.20"	WM-18	27°13'16.20"
WM-3	27°14'14.10"	WM-3	27°14'14.10"
WM-5	27°15'22.70"	WM-5	27°15'22.70"
WM-4A	27°17'17.17"	WM-4A	27°17'17.17"
WM-9	27°17'25.10"	WM-9	27°17'25.10"
WM-10A	27°17'25.10"	WM-10A	27°17'25.10"
WM-10	27°17'25.08"	WM-10	27°17'25.08"
WM-15	27°17'33.37"	WM-15	27°17'33.37"
WM-17	27°17'33.37"	WM-17	27°17'33.37"
WM-18	27°17'33.37"	WM-18	27°17'33.37"
WM-19	27°17'33.37"	WM-19	27°17'33.37"
WM-20	27°17'33.37"	WM-20	27°17'33.37"

**FOR PERMITTING**

DEC 30 2010  
SOUTHWEST DISTRICT  
TAMPA

— PHASE BOUNDARY —  
— GLOBAL DEPARTMENT OF  
ENVIRONMENTAL PROTECTION —

 <p>H&amp;R Engineering, Inc. 10000 South Loop West, Suite 400 Houston, Texas 77054 Phone: 713-265-8600 Fax: 713-265-8601 E-mail: h&amp;r@h&amp;r.com Website: www.h&amp;r.com</p>		<p>PROJECT NUMBER: 0000-01-10000-01</p> <p>DATE: 01/27/2010</p>	
C	12/2010	ADD CONCRETE SLABS, UPRITE WALLS	REVISION BY: J. THOMPSON
F	04/2009	REVISED FOR MAJOR PUMP MODIFICATION	DESIGN BY: S. JOHNSON
N	03/2008	REVISED FOR RM #4	
D	01/2008	REVISED FOR RM #5	
C	04/2007	REVISED FOR RM #2	
N	04/2007	REVISED FOR RM #1	
B	02/2007	GRADING FOR ASPHALT	
CS&S	04/07	CONSTRUCTION	

**WATER QUALITY MONITORING PLAN**

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

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SANTA ROSA COUNTY, FLORIDA

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SANTA ROSA COUNTY, FLORIDA

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FLORINAC      Signature/Date  
SCALE: 1"=400'

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**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

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FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

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**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 400'

FLORINAC      Signature/Date  
SCALE: 1"=400'

**Central County Solid Waste Disposal Complex**

**PHASE II CLASS I LANDFILL EXPANSION**

**PERMIT DRAWINGS**



SANTA ROSA COUNTY, FLORIDA

0 1" = 4


DATE	ISSUE	REASON FOR APPROVAL
12/20/10	C	ADD CONCRETE SHEET UPRATE WALLS
04/20/09	F	REPLACE PER MINOR PEST INFESTATION
03/20/08	L	REPLACE PER MINOR PEST INFESTATION
01/20/06	D	REPLACE PER MINOR PEST INFESTATION
06/20/07	B	REPLACE PER MINOR PEST INFESTATION
04/20/07	C	REPLACE PER MINOR PEST INFESTATION
02/20/09	A	REPLACE PER MINOR PEST INFESTATION

PROJECT MANAGER	R. SPALDING
REVIEWED BY	J. THAMMONG
DRAWN BY	B. JOHNSON
PROJECT NUMBER	0006--J1183--01

1000

Central (Dis) PHASEE  
PEE  
SARASOTA COUNTY

**County Solid Waste  
posal Complex  
CLASS I LANDFILL  
EXPANSION  
BIDDING DRAWINGS**



**WATER MONITOR**

ITROS  
FURNACE

QUALITY  
MANAGEMENT PLAN



# Department of Environmental Protection

Bob Martinez Center  
2600 Blair Stone Road  
Tallahassee, Florida 32399-2400

DEP Form # 62-701.900(30)

Form Title: Monitoring Well Completion Report

Effective Date: January 6, 2010

Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

DATE: \_\_\_\_\_

FACILITY NAME: \_\_\_\_\_

DEP PERMIT NO.: \_\_\_\_\_ WACS\_FACILITY: \_\_\_\_\_

WACS MONITORING SITE\_NUM.: \_\_\_\_\_ WACS\_WELL: \_\_\_\_\_

WELL\_TYPE: BACKGROUND \_\_\_\_\_ DETECTION \_\_\_\_\_ COMPLIANCE \_\_\_\_\_

LATITUDE AND LONGITUDE (see back for requirements): \_\_\_\_\_

Coordinate Accuracy \_\_\_\_\_ Datum \_\_\_\_\_ Elevation Datum \_\_\_\_\_

Collection Method \_\_\_\_\_ Collection Date \_\_\_\_\_

Collector Name \_\_\_\_\_ Collector Affiliation \_\_\_\_\_

AQUIFER MONITORED: \_\_\_\_\_

DRILLING METHOD: \_\_\_\_\_ DATE INSTALLED: \_\_\_\_\_

INSTALLED BY: \_\_\_\_\_

BORE HOLE DIAMETER: \_\_\_\_\_ TOTAL DEPTH: \_\_\_\_\_ (BLS)

CASING TYPE: \_\_\_\_\_ CASING DIAMETER: \_\_\_\_\_ CASING LENGTH: \_\_\_\_\_

SCREEN TYPE: \_\_\_\_\_ SCREEN SLOT SIZE: \_\_\_\_\_ SCREEN LENGTH: \_\_\_\_\_

SCREEN DIAMETER: \_\_\_\_\_ SCREEN INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_  
(BLS)

FILTER PACK TYPE: \_\_\_\_\_ FILTER PACK GRAIN SIZE: \_\_\_\_\_

INTERVAL COVERED: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

SEALANT TYPE: \_\_\_\_\_ SEALANT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

GROUT TYPE: \_\_\_\_\_ GROUT INTERVAL: \_\_\_\_\_ TO \_\_\_\_\_ (BLS)

TOP OF CASING ELEVATION (NGVD): \_\_\_\_\_ GROUND SURFACE ELEVATION (NGVD): \_\_\_\_\_

DESCRIBE WELL DEVELOPMENT: \_\_\_\_\_

POST DEVELOPMENT WATER LEVEL ELEVATION (NGVD): \_\_\_\_\_

DATE AND TIME MEASURED: \_\_\_\_\_

REMARKS: \_\_\_\_\_

NAME OF PERSON PREPARING REPORT: \_\_\_\_\_

(Name, Organization, Phone No., E-mail)

**NOTE:** ATTACH AS-BUILT MW CONSTRUCTION DIAGRAM AND LITHOLOGIC LOG.(NGVD) NATIONAL GEODETIC  
VERTICAL DATUM OF 1988 (BLS) = BELOW LAND SURFACE

Latitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Longitude must be measured in degrees, minutes and seconds, to at least two (2) decimal places.

Eastings and northings (State Plane Coordinates) **must** be converted to latitude and longitude.

---

Coordinate Accuracy: the measured, estimated degree of correctness of the measurement. An accuracy of 15 feet or 5 meters is preferred.

Datum: the horizontal reference for measuring locations on the Earth's surface. NAD83-North American Datum of 1983 is preferred.

Elevation Datum: the reference datum from which elevation measurements are made. NGVD88 (National Geodetic Vertical Datum of 1988) is preferred.

Collection Method: the method or mechanism used to derive the measurements, e.g. GPS, map, aerial photo, etc.

Collection Date: the date and time on which the measurements were taken.

Collector Name: the name of the person taking the measurement.

Collector Affiliation: the agency or company for whom the collector works.



ONE COMPANY  
Many Solutions<sup>SM</sup>

## TRANSMITTAL

To: Steven Morgan  
13051 North Telecom Parkway  
Temple Terrace, Florida 33637-0926

Project Name: Sarasota County Class I  
Landfill Operations Permit  
Minor Modification – Response  
to Request for Additional  
Information

Date: December 29, 2010

From: Jason Timmons  
HDR Engineering, Inc.  
5426 Bay Center Drive, Suite 400  
Tampa, FL 33609

Phone  
No.: 813-282-2358

Fax No.: 813-282-2430

### SENT VIA:

Facsimile:		No. of Pages:		Overnight:		Hand Delivery:		UPS Ground:	X
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ITEM	COPIES	DATE	DESCRIPTION
1	4	12/30/2010	Sarasota County Class I Landfill Operations Permit Minor Modification Response to Request for Additional Information

We are forwarding to you...

<input type="checkbox"/>	Correspondence
<input type="checkbox"/>	Contract Documents
<input checked="" type="checkbox"/>	Originals
<input type="checkbox"/>	Reproductions
<input type="checkbox"/>	Project Prints
<input type="checkbox"/>	Specifications
<input type="checkbox"/>	Reports
<input type="checkbox"/>	Other:

These are transmitted...

<input type="checkbox"/>	For your use
<input checked="" type="checkbox"/>	For your Approval
<input type="checkbox"/>	As you requested
<input checked="" type="checkbox"/>	For Review & Comment
<input type="checkbox"/>	Please Sign & Return all copies
<input type="checkbox"/>	Make corrections as noted
<input type="checkbox"/>	Please return by:
<input type="checkbox"/>	Other:

### REMARKS:

SIGNED:

Brantley, Anna

---

**From:** Brantley, Anna  
**Sent:** Thursday, September 23, 2010 11:27 AM  
**To:** 'lerose@scgov.net'; 'jason.timmons@hdrinc.com'; Morris, John R.; Pelz, Susan  
**Cc:** Morgan, Steve  
**Subject:** Sarasota CCSWDC Phase I & II Operation Mod 130542-015-SO-MM RAI 1 [9-23-2010].pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** Sarasota CCSWDC Phase I & II Operation Mod 130542-015-SO-MM RAI 1 [9-23-2010]

Attached is an electronic copy of the Request for Additional Information (RAI # 1 ) letter and attachments for the above permit application. This is the only copy you will receive.

**NOTE:** If you have questions concerning the content of this document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@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.*



# 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

Mimi Drew  
Secretary

Transmitted electronically only to: lerose@scgov.net

Ms. Lois Rose, Manager  
Sarasota County Solid Waste Operations  
4000 Knights Trail Road  
Nokomis, Florida 34275

September 23, 2010

**RE: CCSWDC Class I Landfill Operation Permit Modification, Sarasota County  
Pending Permit Modification No.: 130542-015-SO/MM  
WACS No.: SWD/58/51614**

Dear Ms. Rose:

This is to acknowledge receipt of the permit application prepared by HDR Engineering, Inc., dated July 2, 2010 (application fee received August 24, 2010) and additional information received via e-mail on August 23, 2010, in support of a modification of operation of the Class I landfill, at the Central County Solid Waste Disposal Complex.

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 is incomplete. This is the Department's 1<sup>st</sup> 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.

## **GENERAL:**

1. The requested information and comments below do not repeat the information submitted by the applicant. However, every effort has been made to concisely refer to the section, page, drawing detail number, etc. where the information has been presented in the original submittal.
2. 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 underlined underlined or similar notation method. This format will expedite the review process. Please include revision date on all revised pages.
3. 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.
4. 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 application [Chapter 62-701, Florida Administrative Code (F.A.C.)]:

1. Please respond to each of the items in John Morris' September 22, 2010 memorandum (attached) regarding this application. You may contact Mr. Morris at (813) 632-7600, extension 336, to discuss the items in his memorandum.

**APPENDIX A - OPERATIONS PLAN (RULE 62-701.320(7)(e)1., F.A.C.)**

2. **Part K.2.h.:**

a. Please revise this section to indicate that the use of piping to transport excessive leachate at the working face to the toe of the landfill will be such the leachate will not be accumulated in the area of the pipe inlet at the working face area.

b. Please revise this area to discuss the relocation of the excessive leachate piping system, as the working face of the facility moves.

c. Please revise this section to reference Sheet 45, as appropriate.

3. **Sheet 45:** Please provide a full-sized signed & sealed copy of Sheet 45, revised to address the comments below.

a. Please provide a reduced sized-revised Sheet 45, as a figure or attachment to the Operations Plan.

b. Please revise this sheet to specify the pipe size and specifications.

c. Please provide details of the pipe inlet area at the working face/intermediate cover and pipe outlet area at the toe of landfill slope/rain cell cover.

d. Please revise the "cell divider berm tie-in" and "typical leachate containment berm" details to show the piping system.

e. Please provide a "cell divider berm tie-in" detail showing the piping system and associated toe of slope berm for shedding stormwater from intermediate cover to the rain cell cover.

4. **Attachment K-12:** The 2000 letter provided in Attachment K-12 appears outdated and therefore no longer valid for operation of the facility. Please verify and delete this letter as an attachment to the Operations Plan, as appropriate. For continuity of attachment numbering, it is suggested that Attachment K-12 become Sheet 45.

**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.**

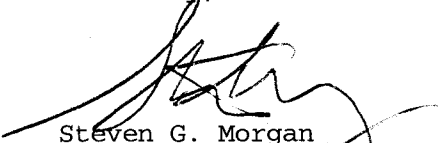
**Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**



Please respond by **October 22, 2010**, 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 above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. 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 4 copies of your response to this letter as one complete package. Alternatively, please contact the Department to set up a meeting to discuss this letter and subsequent submittals. Please contact me at (813) 632-7600 ext. 385 should you have any questions or comments regarding this letter or to schedule this meeting.


Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

cc: Jason Timmons, P.E., HDR Engineering, Inc. [jason.timmons@hdrinc.com](mailto:jason.timmons@hdrinc.com)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)



# Memorandum

# Florida Department of Environmental Protection

**TO:** Steve Morgan  
**FROM:** John R. Morris, P.G. JRM  
**DATE:** September 22, 2010  
**SUBJECT:** Central County Solid Waste Disposal Complex, Operations Permit Modification  
Pending Modification #130542-015 to Permit #130542-007-SO/01  
Environmental Monitoring Review Comments  
**cc:** Susan Pelz, P.E.

I have reviewed portions of the materials submitted to the Department in support of the referenced application for permit modification that were prepared by HDR Engineering, Inc. [HDR], on behalf of Sarasota County Solid Waste Operations, received July 2, 2010 and August 24, 2010. My review focused on the environmental monitoring aspects of the permit application and included the following items in the document entitled "Minor Modification Permit Application," prepared by HDR, dated July 2010, including:

- Transmittal letter dated July 2, 2010
- DEP Form #62-701.900(1), signed/sealed July 1, 2010;
- Part A – Permit Application References
- Part K – Landfill Operation Requirements
  - Appendix A – document entitled "Central County Solid Waste Disposal Complex, Operations Plan" [referred to as the "**Operations Plan**"], revised July 2010
- Part L – Water Quality and Leachate Monitoring Requirements
  - Appendix B – document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum" [referred to as the "**WQMP Addendum**"], revised July 2010

Additional information is required to address the requirements of Rules 62-701.510, and 62-701.530, F.A.C., and evaluate the adequacy of the proposed changes to the monitoring plan. Please have the applicant submit responses to the following review comments and 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 pages (including text, figures, tables, plan sheets, appendices, forms, etc.).

The review comments have been referenced to sections of the permit application and are also referenced to the sections of the supporting documents where appropriate, as presented below:

## **SECTION L – WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS**

[Rule 62-701.510, F.A.C.]

### **1. L.1.a., through L.1.h.:**

a. The location of information for these items of the application form are indicated to be "Reference 2" [the document entitled "Water Quality Monitoring Plan Addendum," prepared by HDR, revised April 2009 and/or "WQMP Addendum" [the document entitled "Water Quality Monitoring Plan Addendum," prepared by HDR, revised July 2010. It is noted that while these two documents have identical titles, the more recent document does not replace the previous version, but was indicated to be limited to the amendments to Rule 62-701.510, F.A.C., that were effective on January 6, 2010. In addition, parts of the monitoring plan for the facility are described by a separate document entitled "Ground Water Monitoring Plan Addendum," prepared by SCS Engineers, dated June 28, 2002, with revisions to Section 4.0 of this document prepared by PBSJ dated February 22, 2007 [as referenced in Specific Condition #A.2.a.(4) in permit #130542-007-SO/01]. Please submit a complete monitoring plan document that addresses the combined ground water, surface water and leachate monitoring requirements for the Phase I and Phase II disposal footprint at the facility to meet the requirements of Rule 62-701.510, F.A.C. Please submit revisions to these items of the application form to reference this combined monitoring plan document.

2. **L.1.c.: Ground water monitoring requirements.** [Rule 62-701.510(3), F.A.C.]
  - a. Section 2.2 of the WQMP Addendum referenced the requirements of Rule 62-701.510(3)(d)5, F.A.C., regarding monitor well protection. The first sentence in ¶1 of this section is consistent with the cited rule regarding the need to install bollards around wells in high traffic areas, however the second sentence in ¶1 of this section should be revised to indicate that monitor wells should be "locked" to minimize the potential for unauthorized access. Please include this revision when the combined monitoring plan document is prepared.
3. **L.1.f.(4): Routine surface water sampling and analysis requirements.** [Rule 62-701.510(6)(e), F.A.C.]
  - a. Section 2.3 of the WQMP Addendum referenced the revisions to surface water monitoring parameters listed in Rule 62-701.510(8)(b), F.A.C. ¶2 of this section referenced the removal of copper and zinc from the surface water monitoring parameter list. Please note that while the amendments to Rule 62-701.510(8)(b), F.A.C., did delete the separate entries for copper and zinc from the surface water parameter list, the purpose of these deletions was to eliminate the duplication of these two parameters. Please note that copper and zinc are included in the parameters listed by 40 CFR Part 258, Appendix I, so the amendment to the cited rule corrected the duplication, it did not eliminate copper and zinc from surface water monitoring. **This comment is presented for informational purposes and does not require a response.**

**SECTION N – GAS MANAGEMENT SYSTEM REQUIREMENTS** [Rule 62-701.530, F.A.C.]

4. **N.2.: Provide documentation that will describe locations, construction details and procedures for monitoring gas at ambient monitoring points and soil monitoring probes.** [Rule 62-701.530(2), F.A.C.]
  - a. This item of the application form referred to the Operations Plan. ¶2, Section K.9.b., of the Operations Plan identifies the gas probes for the combined Phase I and II footprint as GP-2, GP-3, GP-4 and GP-8 as shown on Figure 1 of the WQMP Addendum. Please note that the following gas probe designations provided in Section 4.1 and shown on Figure 1 of the document entitled "Water Quality Monitoring Plan Addendum," prepared by HDR, dated April 2009 were reflected in Specific Condition #F.3., of permit #130542-007-SO/01, as follow:
    - GP-2 – located north of Phase I
    - GP-3 – located east of Phase I
    - GP-7 – located near the C&D processing facility
    - GP-9 – located west of Phase II

It is also noted that the gas probe installed west of Phase II has been identified as GP-9 in the Certification of Construction Completion package [Ardaman & Associates, Inc., letter dated August 13, 2009]. Please submit revisions to Section K.9.b., of the Operations Plan to refer to gas probes GP-2, GP-3, GP-7 and GP-9.

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 the comments in this memorandum.

jrm

*Steve M.*

**Southwest District  
Permitting Application**

New Site

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

Existing Site

Site ID: <div style="text-align: center; font-size: 1.2em;">130542 - 015</div>		
Project Name:	WACS ID#:	
Type/Subcode:	New / Modification / Renewal	
Fee submitted:	( ) correct	( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Applicant Information

Name:	
Role:	
Company:	
Address:	
City:	Zip Code:
Phone:	

Fee verified by: \_\_\_\_\_

Application Assigned To: \_\_\_\_\_ Date: \_\_\_\_\_

August 23, 2010

Dept. Of Environmental Protection

AUG 24 2010

Southwest District

Steve Morgan  
Florida Department of Environmental Protection  
Southwest District  
13051 Telecom Parkway  
Temple Terrace, FL 33637-0926

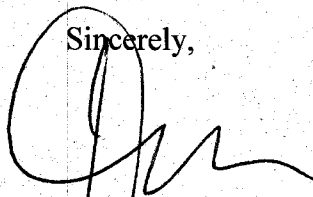
Subject: Central County Solid Waste Disposal Complex  
Minor Modification Permit Application  
Permit Application Fee  
Permit No.: 130542-007-SO/01  
WACS No.: SWD/58/51614

Dear Mr. Morgan:

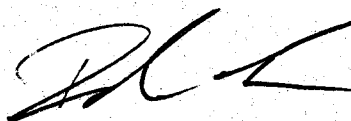
On behalf of Sarasota Solid Waste Operations, HDR Engineering, Inc. has enclosed a check in the amount of \$250.00 for the Minor Modification Permit Application for the Central County Solid Waste Disposal Complex submitted to the Department on July 2, 2010 as requested in your email correspondence dated July 28, 2010.

Please call me at 813-282-2358 if you need any other information regarding the permit modification application.

Sincerely,



Jason Timmons  
Solid Waste Project Manager



Richard A. Siemering  
Solid Waste Section Manager

Enclosure

cc: Lois Rose, Manager, Solid Waste Operations

## Morgan, Steve

---

**From:** Timmons, Jason [Jason.Timmons@hdrinc.com]  
**Sent:** Monday, August 23, 2010 1:26 PM  
**To:** Morgan, Steve  
**Cc:** 'Lois E. Rose'; 'Gary Bennett'; Siemering, Richard  
**Subject:** Phase II Stormwater Operational Piping  
**Attachments:** CCSWDC Phase II Operational Stormwater Piping.pdf

Steve:

As part of the minor modification permit application for the CCSWDC, a description of the proposed temporary stormwater piping that would be used during operations to control stormwater at the working face and on the intermediate cover was provided in Section K.2.h of the revised Operation Plan. To assist in clarifying the intent of the proposed piping and general configuration, please find attached a typical detail for using stormwater pipe to drain the areas with intermediate cover to the cells of Phase II with rain cover and the areas at the working face to drain to the open portion of the protective cover soil at the toe of the operational cell.

We are shipping out the permit application fee check today, your office should receive it tomorrow. Please call me anytime with questions regarding the permit modification application or the attached stormwater pipe information.

Thank you.

Jason

**Jason Timmons, P.E.**

Project Manager

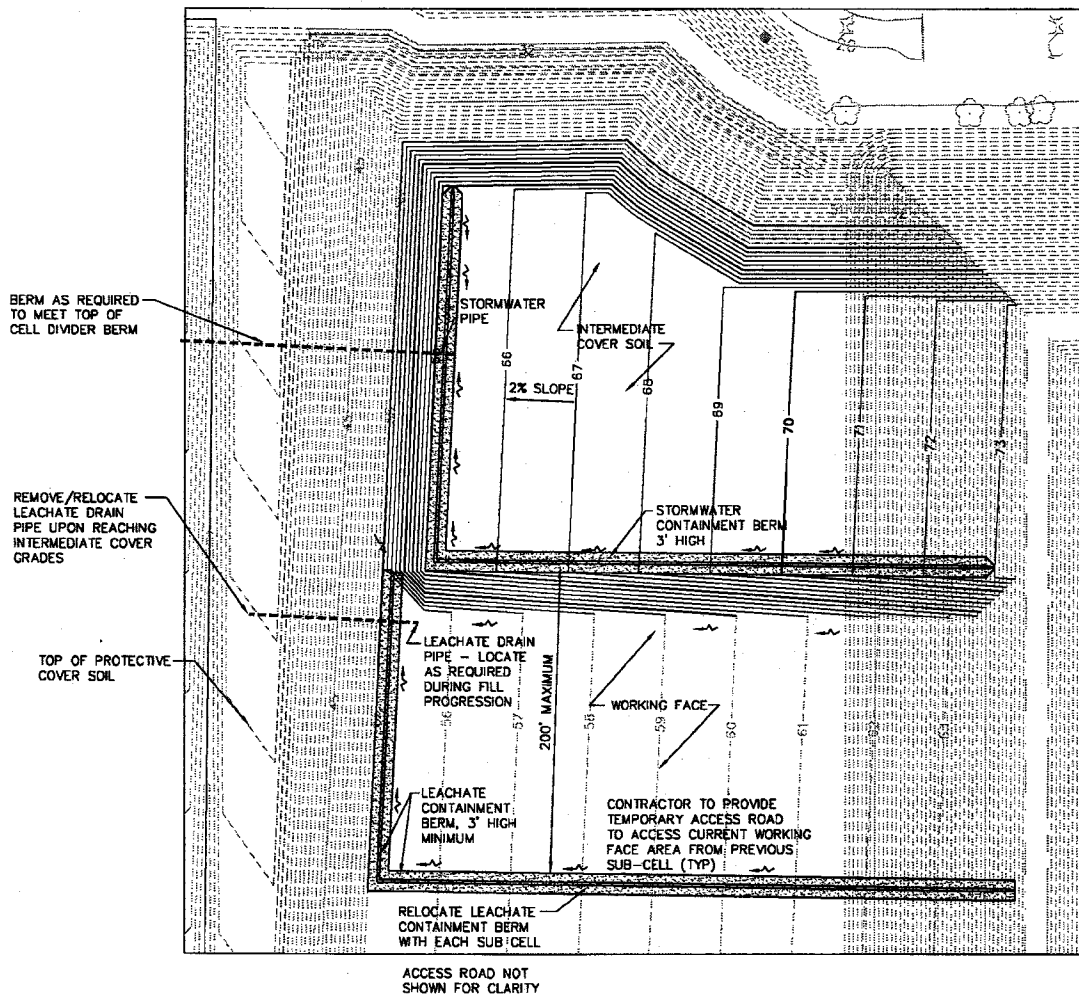
**HDR ONE COMPANY | *Many Solutions***

5426 Bay Center Drive - Suite 400 - Tampa, FL 33609

Phone: 813-282-2358 | Cell: 813-786-1553

Fax: 813-282-2430 | Email: [jason.timmons@hdrinc.com](mailto:jason.timmons@hdrinc.com)

[www.hdrinc.com](http://www.hdrinc.com)



## TYPICAL WORKING FACE

NOT TO SCALE

PERIMETER  
CONTAINMENT

NOT TO SCALE

TOP OF  
INTERMEDIATE  
COVER

TEMPORARY  
DIVIDER

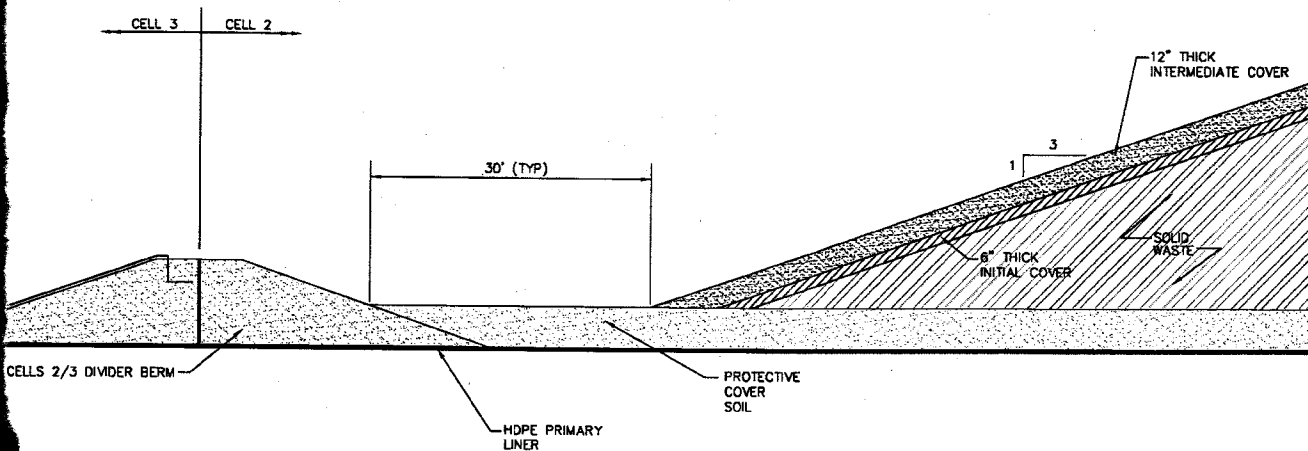
NOT TO SCALE

# HDR

5426 Bay Center Drive, Suite 400  
Tampa, Florida 33609  
813-282-2300  
HDR CERT. ALTH. NO. CA 4213  
FL REG. AA 000467

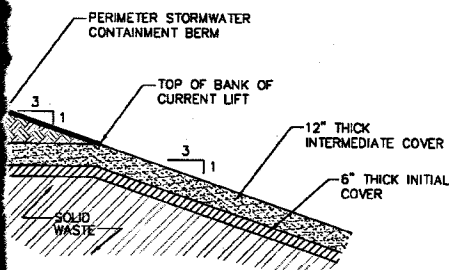
2	07/23/10	SUBMITTED TO COUNTY
1	02/15/10	FOR OPERATIONAL USE
ISSUE	DATE	DESCRIPTION

PROJECT MANAGER	R. SIEMERING
DRAWN BY	B. JOHNSON
CHECKED BY	R. SIEMERING
PROJECT NUMBER	00096-112585-003

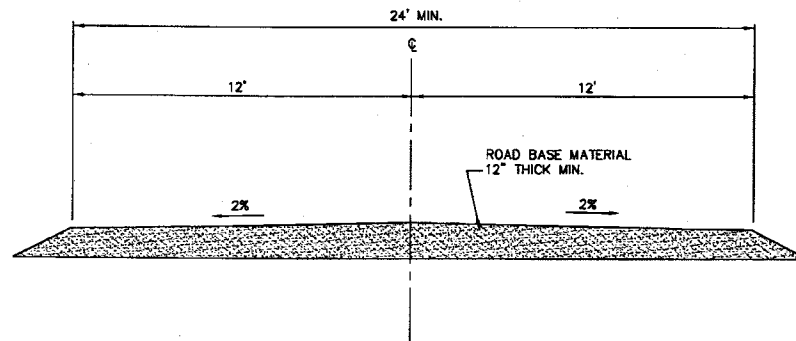


### CELL DIVIDER BERM TIE-IN

NOT TO SCALE

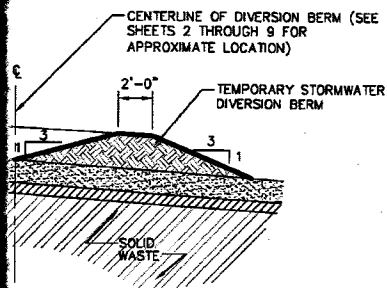


### PERIMETER STORMWATER CONTAINMENT BERM

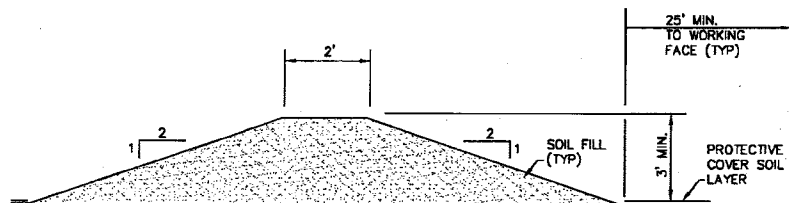


### TYPICAL ACCESS ROAD

NOT TO SCALE



### TEMPORARY STORMWATER DIVERSION BERM

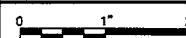


### TYPICAL LEACHATE CONTAINMENT BERM

NOT TO SCALE

SARASOTA COUNTY  
PHASE II - CELL 2  
FILL SEQUENCING

### DETAILS



FILENAME: C30 PHASE II CELL 2 FILL SEQUENCE DETAILS.DWG  
SCALE: NOT TO SCALE

SHEET  
45



**Morris, John R.**

---

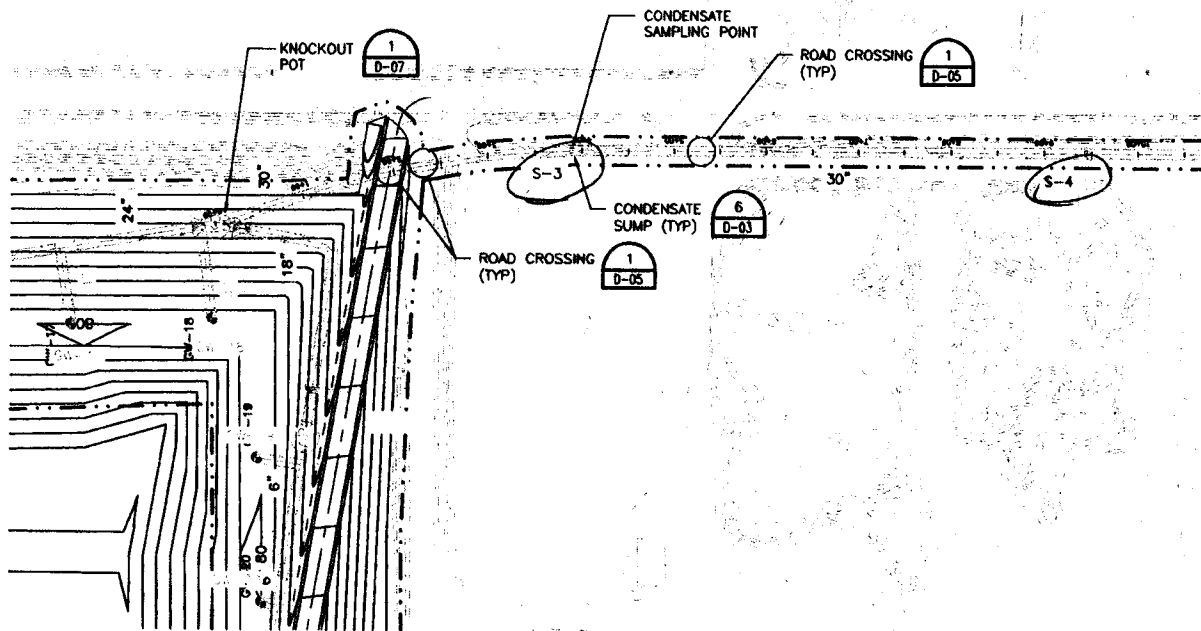
**From:** Lois E. Rose [lerose@scgov.net]  
**Sent:** Tuesday, August 10, 2010 12:55 PM  
**To:** Morris, John R.  
**Subject:** Central County Condensate Sample Point  
**Attachments:** 0335\_001.pdf

See attached map – looking at changing the sampling point to S-5.

Lois Rose

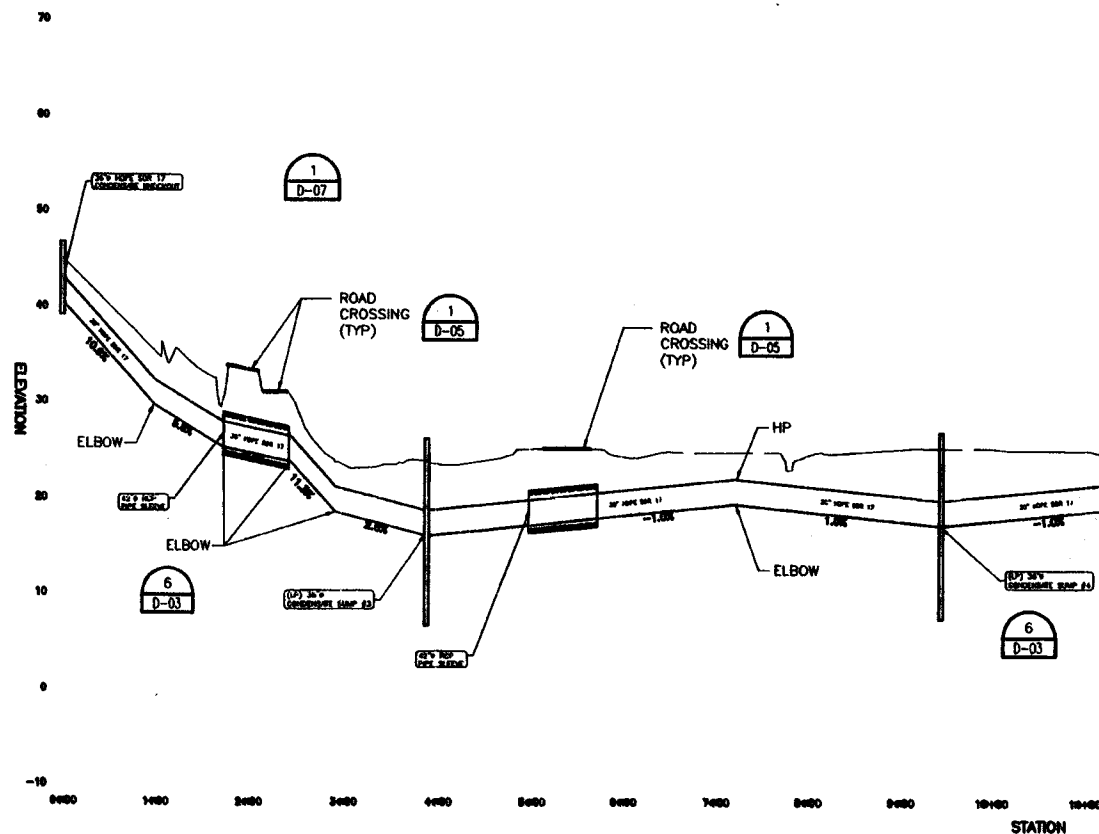
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**From:** iR\_landfill@scgov.net [mailto:iR\_landfill@scgov.net]  
**Sent:** Tuesday, August 10, 2010 12:58 PM  
**To:** Lois E. Rose  
**Subject:** Attached Image



### PLAN VIEW

SCALE: 1"=100'



### PROFILE VIEW

SCALE: 1"=10'V 1"=100'H

C:\pwworking\tpa\00236844\00C-04.dwg, 8/4/2010 3:30:08 PM, irivera

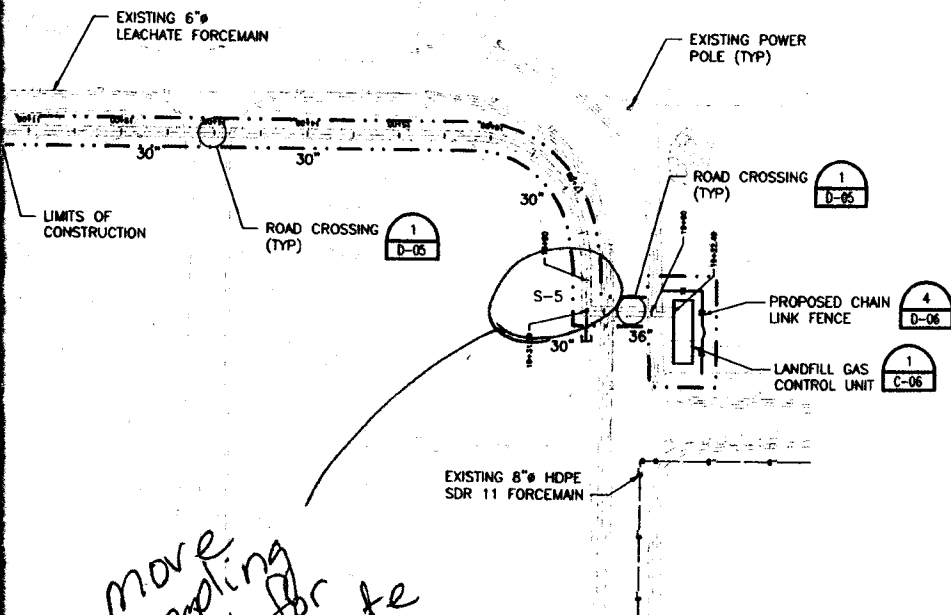


**HDR**

HDR Engineering, Inc.

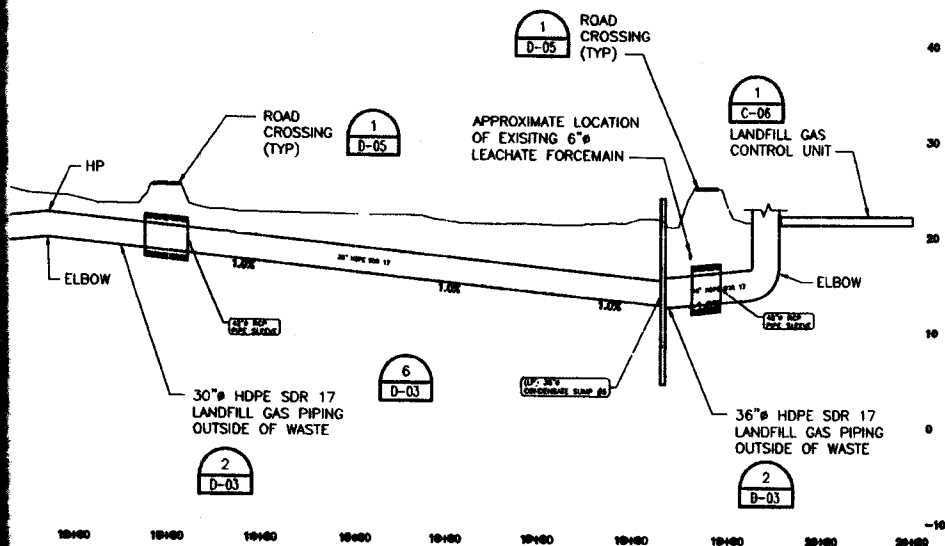
ISSUE	DATE	DESCRIPTION
1	08/10	RECORD DRAWINGS
2	12/09	ISSUED FOR CONSTRUCTION
1	08/09	ISSUED FOR BID
0	05/09	ISSUED FOR CLIENT REVIEW

PROJECT MANAGER	C. KOENIG, P.E.
DESIGNED BY	A. BARKER, E.I.
DRAWN BY	D. SOSA
	B. JOHNSON
CHECKED BY	C. LEBRON, P.E.
PROJECT NUMBER	101628



## NOTES:

1. TOPOGRAPHY WITHIN PHASES I THROUGH IV WAS COMPILED BY KUCERA INTERNATIONAL INC. OF WILLOUGHBY, OHIO USING PHOTOGRAMMETRIC METHODS FROM AERIAL PHOTOGRAPHS DATED APRIL 12, 2008.
2. TRENCH DEPTHS ARE CURRENTLY DESIGNED TO BE NO SHALLOWER THAN 4 FEET AND NO DEEPER THAN 8 FEET FOR ALL PIPING. SEE SUMP DETAIL FOR TOTAL SUMP DEPTH.
3. ONLY PROFILE OF HEADERLINE IS SHOWN FOR CLARITY. HOWEVER, AN AIRLINE AND A CONDENSATE FORCEMAIN SHALL BE INSTALLED IN THE SAME TRENCH.
4. GAS LINE MARKERS SHALL BE INSTALLED EVERY 300 FEET NOTING LOCATION OF HEADERLINE.
5. APPROXIMATE LOCATION OF PHASE I LEACHATE FORCEMAIN OBTAINED FROM RECORD DRAWINGS BY CAMP DRESSER & MCKEE, INC. DATED APRIL 1998. VERIFY LOCATION IN FIELD.
6. CONTRACTOR RESPONSIBLE FOR CONNECTING HEADER PIPE TO LANDFILL GAS CONTROL UNIT. CONTRACTOR RESPONSIBLE FOR CONDENSATE DRAINAGE, ELECTRICAL CONNECTIONS AND PAD CONSTRUCTION.



NOTE: AIRLINE/FORCEMAIN LINES NOT SHOWN FOR CLARITY.

## RECORD DRAWING

THIS DOCUMENT HAS BEEN PREPARED BASED ON INFORMATION PROVIDED BY OTHERS AND DESPITE THE CONTRACTOR'S RECORD OF INVESTIGATION AND ENGINEERING AND DOES NOT WARRANT THE ACCURACY OF SUCH INFORMATION OR COMPLETENESS OR FOR ANY ERRORS OR OMISSIONS THAT MAY BE REPRODUCED INTO THIS DOCUMENT BASED ON THE INFORMATION.

CLAYTON G. KODAK, P.E.  
FLORIDA P.E. NO. 64072

HDR ENGINEERING, INC.

**Central County Solid Waste  
Disposal Complex  
Phase 1 - Sequence 1  
Landfill Gas Collection and Control System**

SARASOTA COUNTY

FLORIDA

**HEADER TO FLARE STATION  
PLAN & PROFILE**

0 1" 2"  
AT FULL SIZE BAR LENGTH EQUALS TWO

FILENAME OOC-04.dwg  
SCALE AS NOTED

SHEET

OOC-04