



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

## PERMITTEE

Sarasota County  
Solid Waste Operations  
c/o Mr. Frank Coggins, 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:  
Expiration Date:  
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 (CCSWDC),  
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 1 (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

General Information:	Phase I
Disposal acres	55 acres (5 disposal units - "Cells")
Lowest elevation	+24 feet NGVE (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, §L.2.h.2., Attachment L-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]

General Information:	Phase II (see Construction Permit No. 130542-006-SC/01 or its successors)
----------------------	---

Replaces Permit No. 130542-002-SO/01

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), and dated June 5, 2008 (received June 6, 2008). This information includes, but is not limited to:

1) *Operations Plan*, dated March 2008 (Appendix A);

2) *Water Quality Monitoring Plan*, Appendix C; 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, Appendix C referenced in Specific Condition #A.2.a.(2), above).

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, 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.

**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.,

**4. Permit Renewal.** No later than April 15, 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.

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

5. **Professional Certification.** Where required by Chapter 471 (P.E.) or Chapter 492 (P.G.), Florida Statutes, applicable portions of permit applications and supporting documents which are submitted to the Department for public record shall be signed and sealed by the professional(s) who prepared or approved them.
6. **General Conditions.** The permittee shall be aware of and operate under the "General Conditions". General Conditions are binding upon the permittee and enforceable pursuant to Chapter 403, Florida Statutes.
7. **Permit Acceptance.** By acceptance of this Permit, the Permittee certifies that he/she has read and understands the obligations imposed by the Specific and General Conditions contained herein and also including date of permit expiration and renewal deadlines. It is a violation of this permit for failure to comply with all conditions and deadlines.
8. **Regulations.** Chapter 62-701, F.A.C., effective May 27, 2001, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions which are affected by the revision of regulations to incorporate those revisions.
9. **Prohibitions.**
  - a. The prohibitions of Rule 62-701.300, F.A.C., shall not be violated by the activities at this facility.
  - b. In the event that surface depressions 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.
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 L-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.a(1)] , and any other applicable requirements.

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 ten feet of the edge of the liner in Phase I, within five feet of the edge of the north and west liner markers in Phase II, and within twelve feet of the edge of the south liner markers in Phase II. [ref. Op. Plan, Sec L.2.f.].

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. L.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. L.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, Secs. L.11.e]. Trenches cut into the waste shall not be used to extinguish the fire without prior Department approval.

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 L-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.L.2.c]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Attachment L-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. L.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. L.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, smoke) arising from the operation so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.

b. In the event that the odor control measures performed at the facility, do not sufficiently abate objectionable odors offsite, the 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.

**6. Facility Maintenance and Repair.**

a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater and leachate management systems, cover systems and berms, gas monitoring 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.

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.

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.



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

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

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. L.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. L.2.h(3)]. Documentation of all inspections and repairs shall be kept on file at the facility.

c. Maintenance of the surface water management system shall be conducted in accordance with Section L.2.h.3 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.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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 L.8 of the Operations Plan [ref.SC#A.2.a(1)], and other applicable Department rules.
- b. Leachate and potentially contaminated stormwater which has accumulated in low areas within the disposal area shall be removed **daily** for disposal.
- 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 *Operation Plan [ref.SC#A.2.a(1)]*.
  - 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. L.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. L.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 L.8.f of the Operations Plan.



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

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

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 L.8.b of the Operations Plan. Records of these test results shall be maintained on-site 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. L.8.h.].

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 L.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. L.2.h.2.]. 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.

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

9. **Reuse of Leachate for Dust Control.**

a. Small quantities of leachate may be reused within the active cells as an alternate dust control measure in accordance with Section L.11.d., of the *Operation Plan* [ref. SC #A.2.a(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:

- 1) 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;
- 2) Leachate shall not be sprayed on areas with intermediate or final cover or within 150 feet of a side slope steeper than 4H:1V;
- 3) The areas receiving leachate shall be controlled at all times to prevent run-off from entering the stormwater system;
- 4) 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;
- 5) 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;
- 6) 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
- 7) Leachate shall not be reused or sprayed outside the lined disposal area.

b. The following shall be recorded each day leachate is reused for dust control:

- 1) Quantity of leachate sprayed (gal/day);
- 2) Rainfall onsite (inches/day and time/duration of rainfall occurrence); and
- 3) Observed runoff of leachate to retention area (yes/no, inspection time and quantity if yes).

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. L.2.c & Landfill Recycling Plan, Attachment L-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. L.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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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 L-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. L.2.c. & Attachment L-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. L.2.c. & Attachment L-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. L.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 Operation Plan [ref. Op. Plan, Sec. L.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. L.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. L.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. L.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, Sec.L.2.g., L.7., L.7.e., and Attachment L-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. L.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. L.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. L.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. L.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. L.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. L.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 L-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. L.2.f. & L.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 L.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. L.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 *Operation Plan* [ref. SC#A.2a(1)] shall be submitted in writing to the Department for review and may require a permit modification in accordance with Specific Condition #A.3. The *Operation Plan* shall be updated as operations change and for renewal of the permit. Revised pages shall be provided as replacement pages with revisions noted (deletions may be struckthrough (~~struckthrough~~) and additions may be shaded (shaded) or a similar method may be used) and each page numbered with the document title and date of revision.
  - c. Unless specified otherwise in this permit, all submittals, notifications, requests for permit modification, 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. L.2.h.2.].
    - 8) Documentation of incidents reported pursuant to Specific Condition C.6.;



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 and leachate samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 dated February 1, 2004 [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certificates from the Department of Health Environmental Laboratory Certification Program under Chapter 64E-1, F.A.C., as referenced in Rule 62-160.300(1), F.A.C. The SOPs utilized and the laboratory's list of certified test methods and analytes must specifically address the types of sampling and analytical work that are required by the permit and shall be implemented by all persons performing sample collection or analysis related to this permit. Alternate field procedures and laboratory methods may be used if approved according to the requirements of Rules 62-160.220 and 62-160.330, F.A.C., respectively.
  - 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 are designed and shall be constructed in accordance with the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc., dated February 2007, revised June 2007, September 2007, January 2008 and March 2008 [ref.SC#A.2.a.(4)]. The ground water monitor wells and piezometers are located on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received March 19, 2008 (attached), as follow:



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

(Specific Condition #E.3., continued)

<b>WACS</b>					
<b>Testsite</b>		<b>Scheduling</b>			
<b>Well #</b>	<b>ID #</b>	<b>Notes</b>	<b>Aquifer</b>	<b>Designation</b>	<b>Location</b>
MW-1R	20585	A, X	Surficial	Background	See Figure 1
MW-8A	21455	A, X	Surficial	Detection	↓
MW-9	4509	A, X	Surficial	Detection	↓
MW-10R	4510	A, X	Surficial	Detection	↓
MW-13	23029	B, Y	Surficial	Detection	See Figure 1
MW-14	23030	B, Y	Surficial	Detection	↓
MW-15	23031	B, Y	Surficial	Detection	↓
MW-16	23032	B, Y	Surficial	Detection	↓
MW-17	23033	C, Y	Surficial	Detection	↓
MW-18	23034	C, Y	Surficial	Detection	↓
MW-19	23035	C, Y	Surficial	Detection	↓
MW-20	23036	C, 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 January 14, 2008 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.(4)].

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; to be abandoned prior to initiation of construction activities for Phase II, Cell 3; documentation of monitor well abandonment shall be submitted in accordance with Specific Condition #E.6.

C = proposed monitor well to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 3

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. The permittee should keep all monitor wells and piezometers locked to minimize unauthorized access.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. The ground water monitoring system analytical parameter lists for initial and routine sampling events are described in Section 4 of the document entitled "Ground Water Monitoring Plan Addendum, Central County Solid Waste Disposal Complex," prepared by SCS Engineers, dated June 24, 2002, revised by PBS&J, dated February 2007 [ref.SC#A.2.a.(4)]. 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.

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 & sheens (by observation)	Those parameters listed in 40 CFR Part 258, <b>Appdx. 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	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 & sheens (by observation)	Those parameters listed in 40 CFR Part 258, <b>Appdx. II</b>	

Following the completion of the "initial sampling event" at proposed wells MW-13 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.



**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-13 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.

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

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 62-532.440, F.A.C., and the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment within 30 days of abandonment. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

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 Rule 62-701.510(7)(a), 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)(b), F.A.C.

**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 March 19, 2008 (**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.).

b. Surface water sample collection points shall be located as shown on Figure 1, "Water Quality Monitoring Plan," prepared by HDR Engineering, Inc., received March 19, 2008 (**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

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 of the document entitled "Ground Water Monitoring Plan Addendum, Central County Solid Waste Disposal Complex," prepared by SCS Engineers, dated June 28, 2002 [ref.SC#A.2.a.(4)], including:

Field parameters	Laboratory parameters	
Specific conductivity	Chlorophyll A	Nitrate
pH	Total hardness	Total nitrogen
Dissolved oxygen	Total phosphates	Unionized ammonia
Turbidity	Calcium	Biochemical oxygen demand (BOD <sub>5</sub> )
Temperature	Copper	Chemical oxygen demand (COD)
Colors and sheens	Iron	Total organic carbon (TOC)
(by observation)	Magnesium	Total dissolved solids (TDS)
Surface water	Mercury	Total suspended solids (TSS)
elevation	Potassium	Fecal coliform
	Sodium	Bicarbonate
	Zinc	Carbonate
	Sulfate	
	Those parameters listed in 40 CFR Part 258, <b>Appendix I</b>	



**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 2 of the document entitled "Ground Water Monitoring Plan Addendum, Central County Solid Waste Disposal Complex," prepared by SCS, dated June 28, 2002, revised July 24, 2002 [ref. SC#A.2.a.(4)]:

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., received March 19, 2008 (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 2 of the Ground Water Monitoring Plan Addendum prepared by SCS Engineers, dated June 28, 2002, revised July 24, 2002 [ref. SC#A.2.a.(4)]. 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.

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	Bicarbonate	Iron
Dissolved oxygen	Carbonate	Magnesium
Colors & sheens	Chlorides	Mercury
(by observation)	Nitrate	Potassium
	Sulfate	Sodium
	Total dissolved solids (TDS)	

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.

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.

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

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

Electronic Data Deliverable (EDD) Portions of Report:

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

Hard Copy Portions of Report:

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

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

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

b. Specific Condition #E.4.c. - results of ground water semi-annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 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;

c. 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;

d. 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;

e. 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;** and,

f. Specific Condition #E.9.d. - results of monthly leachate sampling events shall be submitted **within 30 days from completion of laboratory analyses.**

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



SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

11. **Monitoring Plan Evaluation.** By October 1, 2010 and March 1, 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:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
November 15, 2010	First half 2007	First half 2010
April 15, 2013	Second half 2010	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:

<u>Measured During</u>	<u>Report Submitted By</u>
Quarter 1 (Jan - Mar)	April 15 <sup>th</sup> of each year
Quarter 2 (Apr - June)	July 15 <sup>th</sup> of each year
Quarter 3 (July - Sep)	October 15 <sup>th</sup> of each year
Quarter 4 (Oct - Dec)	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 March 19, 2008 (**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 4.0 of the document entitled "Central County Solid Waste Disposal Complex, Water Quality Monitoring Plan Addendum," prepared by HDR Engineering, Inc., dated February 2007, revised June 2007, September 2007, January 2008 and March 2008 [ref.SC#A.2.a(2)], 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	↓	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-8	B, Y	↓	West boundary of Phase II, Cell 2
GP-9	C	↓	West boundary of Phase II, Cell 4
GM-1	A	Figure 1	Contractor's maint. 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 probes GP-8 and GP-9 shall be constructed in accordance with the details provided in Figure 3.0 ("Typical Gas Monitoring Probe"), received January 14, 2008 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.x.(x)].

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

C = proposed gas probe to be installed at least 30 days prior to initiation of debris disposal in Phase II, Cell 3

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

Y = to be abandoned prior to initiation of construction activities for Phase II, Cell 3

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

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

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

1. **Closure Permit Requirements.** No later than ninety (90) days prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, 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", dated May 3, 2001, or successor document.

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

\_\_\_\_\_  
Deborah A. Getzoff  
District Director  
Southwest District



ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	No later than April 15, 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 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 results, and semi-annual leachate sampling results
E.10.	Annually, by January 15 <sup>th</sup> of each year	Submit results of annual leachate sampling events
E.11.	October 1, 2010 and March 1, 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