

**From:** Microsoft Exchange  
**To:** Morris, John R.; Tedder, Richard; Pelz, Susan; Hornbrook, Frank  
**Sent:** Tuesday, March 15, 2011 8:30 AM  
**Subject:** Delivered: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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

Morris, John R.

Tedder, Richard

Pelz, Susan

Hornbrook, Frank

Subject: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

**From:** Microsoft Exchange  
**To:** Moore, Ronni  
**Sent:** Tuesday, March 15, 2011 8:30 AM  
**Subject:** Delivered: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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

Moore, Ronni

Subject: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

---

Sent by Microsoft Exchange Server 2007

**From:** Microsoft Exchange  
**To:** 'casey.stephens@bocc.citrus.fl.us'; Commissioner Dennis Damato; Commissioner Joe Meek; Commissioner John J. Kenney; Commissioner Rebecca Bays; Commissioner Winn Webb; County Administrator Brad Thorpe; Eber E. Brown, Interim County Administrator  
**Sent:** Tuesday, March 15, 2011 8:30 AM  
**Subject:** Relayed: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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

'casey.stephens@bocc.citrus.fl.us'

Commissioner Dennis Damato

Commissioner Joe Meek

Commissioner John J. Kenney

Commissioner Rebecca Bays

Commissioner Winn Webb

County Administrator Brad Thorpe

Eber E. Brown, Interim County Administrator

Subject: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

**From:** Microsoft Exchange  
**To:** 'KGuilbeaut@SCSEngineers.com'  
**Sent:** Tuesday, March 15, 2011 8:30 AM  
**Subject:** Relayed: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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

'KGuilbeaut@SCSEngineers.com'

Subject: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

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Sent by Microsoft Exchange Server 2007

**From:** Brantley, Anna  
**Sent:** Tuesday, March 15, 2011 8:35 AM  
**To:** 'KGuilbeault@SCSEngineers.com'  
**Subject:** FW: NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011]

*Resending due to incorrect email address.*

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

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

---

**From:** Brantley, Anna  
**Sent:** Tuesday, March 15, 2011 8:29 AM  
**To:** 'casey.stephens@bocc.citrus.fl.us'; 'KGuilbeaut@SCSEngineers.com'; Moore, Ronni; Tedder, Richard; Hornbrook, Frank; Pelz, Susan; Commissioner Dennis Damato; Commissioner Joe Meek; Commissioner John J. Kenney; Commissioner Rebecca Bays; Commissioner Winn Webb; County Administrator Brad Thorpe; Eber E. Brown, Interim County Administrator; Representative Ron Schultz; Senator Charles Dean; Senator Mike Fasano  
**Cc:** Morris, John R.  
**Subject:** NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional

Attached please find Modification of Permit for the subject Solid Waste Facility. You will only receive this electronic copy of the document. Hard copy was sent via US Certified Mail.

**NOTE:** If you have questions concerning the content of the document, please contact the DEP permit processor [john.r.morris@dep.state.fl.us](mailto:john.r.morris@dep.state.fl.us)

Acrobat Reader 6.0 or greater is required to read this document. It is available for downloading at:  
<http://www.adobe.com/products/acrobat/readstep.html>

If I may be of assistance, please contact me.

Anna

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**Cc:** Morris, John R.  
**Subject:** NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011].pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** NOP\_Citrus Central Class I 21375-019-SO-MM permit mod SWD-09-39859 [3-15-2011]

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If I may be of assistance, please contact me.

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Inserted Into
OCULUS
Date: 3/23/11
Initials: JEM

Brantley, Anna

**From:** Brantley, Anna  
**Sent:** Tuesday, December 21, 2010 7:41 AM  
**To:** 'casey.stephens@bocc.citrus.fl.us'; 'Bramlett, Dominique'; Tedder, Richard; Hornbrook, Frank; Wick, Fred; Morris, John R.; Pelz, Susan; Commissioner Dennis Damato; Commissioner Joe Meek; Commissioner John J. Kenney; Commissioner Rebecca Bays; Commissioner Winn Webb; County Administrator Brad Thorpe; Eber E. Brown, Interim County Administrator; Representative Ron Schultz; Senator Charles Dean; Senator Mike Fasano  
**Cc:** Morgan, Steve  
**Subject:** Citrus Central Class I 21375-018-SO-01 permit renewal SWD-09-39859 12-20-2010.pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** Citrus Central Class I 21375-018-SO-01 permit renewal SWD-09-39859 12-20-2010

Attached please find the revised Notice of Permit and Final Permit for the subject Solid Waste Facility. The revision is the expiration from 12/20/2010 to 12/20/2015. Sorry for any inconvenience this has caused. These are the only copies you will receive. Hard copy was mailed to addressee only.

NOTE: If you have questions concerning the content of these documents, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

Acrobat Reader 6.0 or greater is required to read these documents. It is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley  
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FL DEP / SWD / Waste Management  
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Temple Terrace FL 33637-0629  
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[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

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# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Mimi Drew  
Secretary

December 21, 2010

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

Re: Citrus County Central Class I Landfill Operation Permit  
Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

Enclosed is revised page 1 of Permit, permit number 21375-018-SO/01, issued pursuant to Section(s) 403.087(1), Florida Statutes, changing the Expiration Date from 12/20/2010 to 12/20/2015.

The Department apologizes for any inconvenience this error has caused. If you have any questions, please contact Steve Morgan at (813) 632-7600 ext. 385 or by email [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us).

Sincerely,

Anna Brantley, AAIL  
Southwest District

AB/  
Attachment  
Copies furnished to:

cc: Citrus County Notification List  
Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Richard Tedder, P.E., FDEP Tallahassee (e-mail)  
Frank Hornbrook/Fred Wick, FDEP Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)  
(Permit Notebook) FDEP Tampa





# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Mimi Drew  
Secretary

## PERMITTEE

Citrus County Board of County  
Commissioners  
110 N. Apopka Avenue  
Inverness, FL 34450

## Attention:

Mr. Casey Stephens, Director  
Citrus County Public Works,  
Division of Solid Waste Mgmt.

## PERMIT/CERTIFICATION

WACS ID No: SWD/09/39859  
Permit No: **21375-018-SO/01**  
Date of Issue: **12/20/2010**  
Expiration Date: **12/20/2015**  
County: Citrus  
Lat/Long: 28° 51' 07"  
82° 26' 12"  
Sec/Town/Rge: 1/19S/18E  
Project: Citrus County Central  
Class I Landfill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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** a Class I landfill with leachate storage and treatment, and related facilities (approx. 80.0 acres), and to provide long-term care, monitoring, and maintenance of a the closed Class I landfill (approx. 60.0 acres), referred to as the **Citrus County Central Landfill** subject to the specific and general conditions attached, located near **S.R. 44, 3 miles east of Lecanto, Citrus County, Florida**. The specific conditions attached are for the operation and maintenance of:

1. Class I Landfill, Leachate Storage and Treatment Facility
2. Closed Class I Landfill and related appurtenances
3. Gas Collection and Control System

## General Information - Phase I, Cells 1, 1A, 2, & 3

Disposal acres	25.8 acres
Bottom liner design & LCS design	Phase 1 - 16.5 acres - Single, 60 mil HDPE, Primary LCS piping Phase 1A - 3.3 acres - Double, 60 mil HDPE, Primary LCS piping, Geonet LDS Phase 2 - 6 acres - Double, 60 mil HDPE, Primary LCS piping, Triplanar Geonet LDS Phase 3 - 6.8 acres - See Construction Permit #21375-013-SC/01, or its successors
Bottom elevation of cell	Phase 1A - min. +35.35 feet NGVD at sump Phase 2 - min +35.00 feet NGVD Phase 3 - min 48.00 feet NGVD, in primary sump
Final top elevation at buildout (including cover)	max. +218.1 feet NGVD (max 215 feet NGVD in Phase 1/1A) [ref. SC#A.2.a(4), Sheet 4 of 9]
Slopes	max. 3H:1V side slopes, 3-5% top slope [ref. SC#A.2.a(4), Sheet 4 of 9]
Gas Collection and Control System	See Construction Permit #21375-016-SC/08, or its successors

## Replaces Permit No. 21375-008-SO/01 and modifications

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.

**From:** Brantley, Anna  
**Sent:** Monday, December 20, 2010 2:18 PM  
**To:** 'dbramlett@SCSEngineers.com'; Tedder, Richard; Hornbrook, Frank; Wick, Fred; Morris, John R.; Pelz, Susan; Commissioner Dennis Damato; Commissioner Joe Meek; Commissioner John J. Kenney; Commissioner Rebecca Bays; Commissioner Winn Webb; County Administrator Brad Thorpe; Eber E. Brown, Interim County Administrator; Representative Ron Schultz; Senator Charles Dean; Senator Mike Fasano  
**Cc:** Morgan, Steve  
**Subject:** Citrus Central Class I 21375-018-SO-01 permit renewal SWD-09-39859 12-20-2010.pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** Citrus Central Class I 21375-018-SO-01 permit renewal SWD-09-39859 12-20-2010

Attached please find Notice of Permit and Final Pemrit for the subject Solid Waste Facility. These are the only copies you will receive. Hard copy was mailed to addressee only.

NOTE: If you have questions concerning the content of these documents, please contact the DEP permit processor [steven.morgan@dep.state.fl.us](mailto:steven.morgan@dep.state.fl.us)

Acrobat Reader 6.0 or greater is required to read these documents. It is available for downloading at:  
<http://www.adobe.com/products/acrobat/readstep.html>

Anna

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Administrative Assistant II  
FL DEP / SWD / Waste Management  
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Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

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# Memorandum

## Florida Department of Environmental Protection

### PERMIT COVER MEMO

TO: X Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

Steve Morgan

ENVIRONMENTAL ADMINISTRATOR

SOLID WASTE MANAGER

SOLID WASTE PERMITTING

DATE: December 20, 2010

FILE NAME: Citrus Central Landfill Class I LF  
Operation Permit Renewal

PERMIT #: 21375-018-SO/01  
COUNTY : Citrus

PROGRAM : Solid Waste

TYPE OF PERMIT ACTION: ISSUE FINAL PERMIT

PERMIT SUMMARY: This permit application is for renewal of the operation permit, of the existing Citrus County Central Class I Landfill, including operation of the Phase 3 lateral expansion area upon construction completion.

PROFESSIONAL RECOMMENDATION: X APPROVE      DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department rules to allow issuance of the permit.

TIH= 322; TTP=170 (to 12/20/10)		TTP
Application rec'd	02/01/10	
RAI #1 sent	03/03/10	30
RAI #1 response rec'd	04/21/10	
RAI #2 sent	05/21/10	30
RAI #2 response rec'd	07/12/10	
RAI #3 sent	08/10/10	29
RAI #3 response rec'd	09/30/10	
Application complete	09/30/10	
Final Permit routed for signature	12/20/10	81

DAY 90/30 FOR THIS ACTION IS: Day 90 = 12-29-10



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Mimi Drew  
Secretary

CERTIFIED MAIL #7008 0150 0003 4893 8794  
RETURN RECEIPT REQUESTED

December 20, 2010

## NOTICE OF PERMIT

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

Re: Citrus County Central Class I Landfill Operation Permit  
Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

Enclosed is permit number 21375-018-SO/01, issued pursuant to  
Section(s) 403.087(1), Florida Statutes.

A person whose substantial interests are affected by this permit may petition for an administrative proceeding (hearing) in accordance with Section 120.57, Florida Statutes. The petition must contain the information set forth below and must be filed (received) in the Department's Office of General Counsel, 3900 Commonwealth Blvd., MS#35, Tallahassee, 32399-3000, within fourteen (14) days of receipt of this notice. Petitioner shall mail a copy of the petition to the applicant at the address indicated above at the time of filing. Failure to file a petition within fourteen (14) days shall constitute a waiver of any right such person has to an administrative determination (hearing) pursuant to Section 120.57, Florida Statutes.

The petition shall contain the following information;

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department Permit File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of Department's action, or proposed action;
- (c) A statement of how each petitioner's substantial interests are affected by the Department's action or proposed action;
- (d) A statement of the material facts disputed by Petitioner, if any;
- (e) A statement of facts which petitioner contends warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of which rules or statutes petitioner contends warrant reversal or modification of the Department's action or proposed action; and

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

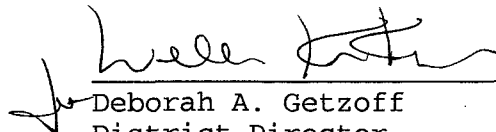
If a petition is filed, the administrative hearing process is designed to formulate agency action. Accordingly, the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any decision of the Department with regard to the application have the right to petition to become a party to the proceeding. The petition must conform to the requirements specified above and be filed (received) within 14 days of publication of this notice in the Office of General Counsel at the above address of the Department. Failure to petition within the allowed time frame constitutes a waiver of any right such person has to request a hearing under Section 120.57, F.S., and to participate as a party to this proceeding. Any subsequent intervention will only be at the approval of the presiding officer upon motion filed pursuant to Rule 28-5.207, F.A.C.

This permit is final and effective on the date filed with the Clerk of the Department unless a petition is filed in accordance with the above paragraphs or unless a request for extension of time in which to file a petition is filed within the time specified for filing a petition and conforms to Rules 62-110 and 28-106, F.A.C. Upon timely filing of a petition or a request for an extension of time this permit will not be effective until further Order of the Department.

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT  
OF ENVIRONMENTAL PROTECTION

  
Deborah A. Getzoff  
District Director  
Southwest District

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** was mailed or transmitted electronically to the addressee and the listed persons before the close of business on December 20, 2010.  
(date stamp)

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

*Dominique Bramlett*      12/20/2010  
Clerk                                      Date

DAG/sgm

Enclosure

cc: Citrus County Notification List  
Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Richard Tedder, P.E., FDEP Tallahassee (e-mail)  
Frank Hornbrook/Fred Wick, FDEP Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)  
(Permit Notebook) FDEP Tampa



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Mimi Drew  
Secretary

## PERMITTEE

Citrus County Board of County  
Commissioners  
110 N. Apopka Avenue  
Inverness, FL 34450

## Attention:

Mr. Casey Stephens, Director  
Citrus County Public Works,  
Division of Solid Waste Mgmt.

## PERMIT/CERTIFICATION

WACS ID No: SWD/09/39859  
Permit No: **21375-018-SO/01**  
Date of Issue: **12/20/2010**  
Expiration Date: **12/20/2015**  
County: Citrus  
Lat/Long: 28° 51' 07"  
82° 26' 12"  
Sec/Town/Rge: 1/19S/18E  
Project: Citrus County Central  
Class I Landfill

This permit is issued under the provisions of Chapter 403, Florida Statutes, and Florida Administrative Code Rule(s) 62-4, 62-302, 62-330, 62-520, 62-522, 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** a Class I landfill with leachate storage and treatment, and related facilities (approx. 80.0 acres), and to provide long-term care, monitoring, and maintenance of a the closed Class I landfill (approx. 60.0 acres), referred to as the **Citrus County Central Landfill** subject to the specific and general conditions attached, located near **S.R. 44, 3 miles east of Lecanto, Citrus County, Florida**. The specific conditions attached are for the operation and maintenance of:

1. Class I Landfill, Leachate Storage and Treatment Facility
2. Closed Class I Landfill and related appurtenances
3. Gas Collection and Control System

## General Information - Phase I, Cells 1, 1A, 2, & 3

Disposal acres	25.8 acres
Bottom liner design & LCS design	Phase 1 - 16.5 acres - Single, 60 mil HDPE, Primary LCS piping Phase 1A - 3.3 acres - Double, 60 mil HDPE, Primary LCS piping, Geonet LDS Phase 2 - 6 acres - Double, 60 mil HDPE, Primary LCS piping, Triplanar Geonet LDS Phase 3 - 6.8 acres - See Construction Permit #21375-013-SC/01, or its successors
Bottom elevation of cell	Phase 1A - min. +35.35 feet NGVD at sump Phase 2 - min +35.00 feet NGVD Phase 3 - min 48.00 feet NGVD, in primary sump
Final top elevation at buildout (including cover)	max. +218.1 feet NGVD (max 215 feet NGVD in Phase 1/1A) [ref. SC#A.2.a(4), Sheet 4 of 9]
Slopes	max. 3H:1V side slopes, 3-5% top slope [ref. SC#A.2.a(4), Sheet 4 of 9]
Gas Collection and Control System	See Construction Permit #21375-016-SC/08, or its successors

## Replaces Permit No. 21375-008-SO/01 and modifications

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

**GENERAL CONDITIONS:**

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

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



**GENERAL CONDITIONS:**

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

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

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

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

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

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

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

13. This permit also constitutes:

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

**GENERAL CONDITIONS:**

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

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

1. **Facility Designation.** This site shall be classified as a **Class I Landfill**, and shall be operated, monitored, and maintained 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 Phases 1, 1A, 2, and 3 of the Class I landfill and other related facilities, and long-term care, monitoring, and maintenance of the closed Class I landfill and related systems, in accordance with all applicable requirements of Department rules and in accordance with the reports, plans and information submitted by SCS Engineers (SCS), (unless otherwise noted), as follows:

a. Citrus County Class I Central Landfill Operations Permit Renewal Application, (one 3-ring binder and plan set) dated and received February 1, 2010, prepared by SCS Engineers, as revised, replaced or amended (information inserted into original\*) dated and received April 21, 2010, July 12, 2010, and September 30, 2010. This information includes, but is not limited to:

- 1) "Operations Plan" (Attachment K-1) dated July 12, 2010;
- 2) "Water Quality and Leachate Monitoring Plan, Central Landfill, Citrus County, Florida," prepared by SCS Engineers, dated September 22, 2010;
- 3) "Closure Plan" (Attachment O-1);
- 4) Plan Sheets titled, Citrus County Solid Waste Management Division Central Landfill Operations Permit Renewal Drawings (9 sheets) dated February 2010 (received February 1, 2010), including revised Sheets 1, 3, 4, & 7 of 9, received April 21, 2010 (revised sheets inserted into original plan set\*); and
- 5) "Emergency Incidents and Contingency Plan" (Op. Plan, Appendix B) dated March 2010.

b. Consent Agreement #05-1078, executed September 20, 2005.

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 changes to the operations at the facility may 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 Phase 1, 1A, 2, and 3 Class I disposal facility, the leachate storage and treatment facility, the landfill gas collection and control system and related appurtenances.

c. This permit authorizes the **long-term care, monitoring, and maintenance** of the closed 60 acre Class I landfill, and related systems.

d. This permit does not authorize the **operation** of the Phase 3 portion of the Class I landfill (including filling over Phases 1, 1A, & 2 associated with Phase 3 operation) until the provisions of Specific Condition #C.1.b. have been completed and approved by the Department.

\* see OCULUS for un-collated submittals

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

4. **Permit Renewal.** On or before June 15, 2015 the permittee shall notify the Department in writing or electronically of its intent to apply for renewal of this permit and of the anticipated date of submittal of the permit renewal application. **No later than October 15, 2015**, 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 62-4.090, F.A.C. and Rule 62-701.320(10)(b), F.A.C. In the event that the regulations governing this operation are revised, the permit renewal shall include modification of those specific operation conditions which are affected by the revision of regulations to incorporate those revisions in accordance with Specific Condition A.8. 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.

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

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

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

8. **Regulations.** Chapter 62-701, F.A.C., effective January 6, 2010, is incorporated into this permit by reference. In the event that the regulations governing this permitted operation are revised, the Department shall notify the permittee, and the permittee shall request modification of those specific conditions, which are affected by the revision of regulations to incorporate those revisions.

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

b. Construction of the Phase 3 portion of the Class I landfill and related appurtenances is authorized by **Construction Permit 21375-013-SC/01**, (including modifications, if any), or its successors.

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 and submitted by the permittee to the Department. Operation of the constructed systems, structures, equipment, etc., shall not be initiated prior to Department approval of the information required by this Specific Condition.

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 **Operations Drawings** [ref. SC#A.2.a(4)], the **Operations Plan** [ref. SC#A.2.a(1)], the **Emergency Incidents and Contingency Plan** [EIC Plan] [ref. SC#A.2.a(5)], and any other applicable requirements.

1) Operation of the Waste Tire Collection Center shall be in accordance with Chapters 62-701 and 62-711, F.A.C., and **Permit #126602-003-WT/02** (including modifications, if any), or its successors.

2) Construction and operation of the proposed Class I transfer station, new Customer Service Area, Yard and Wood Waste Processing Facility, Household Hazardous Waste Facility, and Recycling Collection Center at the existing Citrus Central Solid Waste Management Facility site shall be in accordance with Chapters 62-701, F.A.C., and **Permit #296143-001-SO/30** (including modifications, if any), or its successors.

b. This permit does not authorize the operation of Cell 3 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. 21375-013-SC/01, or its successors;

2) Construction details for the proposed compliance wells MW-20 and MW-21 as required by Specific Conditions #E.3., #E.5.b., and #E.5.d.; the results of the "initial sampling event" conducted at constructed wells for the parameters listed in Specific Condition #E.4.b., to meet the reporting requirements of Specific Condition #E.10.a.;

3) Documentation of compliance with the financial assurance requirements of Specific Condition #D.4.c.

c. This permit does not authorize waste filling in Phases 1 and 1A in accordance with the Step 4 through 7 Fill Sequences, as depicted on the Sheet 5 of 9 of the **Operation Drawings** until the following requirements have been completed and submitted by the permittee, and approved by the Department:

1) Completion of the Phase 1/1A Leachate Riser Rehabilitation and submittal of a final report in accordance with Specific Condition #C.8.j.

d. 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 [ref. Op. Plan, Sec. 5].

e. 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.

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

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

f. 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.

g. The Class I disposal area shall be operated to limit the leachate head to one foot above the liner.

h. 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** [ref. Op. Plan, Sec. 7.9]. The property boundaries shall be inspected for litter **at least weekly**. Litter shall be collected and disposed of in the Class I landfill, **at least once per day**, 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**.

i. 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.

j. 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, Sec. 11.2]. 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.

k. Fires.

1) In accordance with Rule 62-701.320(16), F.A.C., in the event of a fire which requires offsite assistance from the local fire protection authorities, the operator shall implement the procedures outlined in the facility **Operations Plan** [ref. Op. Plan, Sec. 2.3.4; EIC Plan, Sec. G.1.], and shall promptly report the incident to the Department in accordance with Specific Condition #C.6., below. Trenches cut into the waste shall not be used to extinguish fires without prior Department approval.

2) Hot loads that are inadvertently accepted at the facility shall be managed in accordance with the procedures in Section 2.3.4 of the facility **Operations Plan**. Residue from extinguished hot loads shall be disposed of offsite as Class I waste.

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

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

- 3) In the event of a fire within the disposal area, a temporary area, within the disposal footprint away from the affected area, will be established for waste acceptance until the fire is completely extinguished [ref. Op. Plan, Sec. 2.3.4].

1. Temporary Transfer Operation. In the event that the permittee elects to operate a temporary transfer station at the facility, the Department shall be notified at least 48 hours prior to operation. This notification shall specify the final disposal location for the transferred waste, and shall include a site plan (reduced size) that shows the location and configuration of the transfer station within the lined landfill area. Leachate from the temporary transfer station shall not be discharged outside the landfill liner or leachate collection system. The temporary transfer operation shall:

- 1) be operated as described in Section 2.3.5. of the **Operations Plan**;
- 2) be operated for a maximum of 30 days. In the event that the permittee elects to operate the temporary transfer station for greater than 30 days, then a separate permit or modification of this Operation Permit may be required.

m. 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.

2. **Operating Personnel.**

a. A trained operator (trained in accordance with the facility Training Plan) [ref. Op. Plan, Sec. 2.1] 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 (i.e. Citizen's Service Area (CSA) and landfill working face) 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. 2.4]. Training of spotters shall be in accordance with the facility Training Plan [ref. Op. Plan, Sec. 2.1].

c. A sufficient trained personnel shall be available, to adequately operate the facility in compliance with this permit and Department rules. 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.



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

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. 5]. Adequate access to the working face shall be provided for all weather conditions while the facility is receiving waste for disposal [ref. Op. Plan, Sec. 2.3.3].

4. **Monitoring of Waste.**

a. Wastes shall be monitored as required by Rule 62-701.500(6), F.A.C., including a load checking program and associated activities. The owner or operator shall conduct three random load checks per week at the active working face. Documentation of the three random load checks, including descriptions (type and quantity) of unacceptable wastes discovered, shall be maintained on-site, and copies provided to the Department upon request. Load checks shall document the occurrence, type of unacceptable wastes, removal and disposition of unauthorized wastes discovered in the loads [ref. Op. Plan, Sec. 6.1].

b. The permittee shall not accept hazardous waste or any hazardous substance for disposal 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.7. Hazardous waste shall be managed and disposed of in accordance with the procedures in Sections 2.4 and 6.2 of the **Operations Plan**.

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 collection, removal or treatment 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 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. The owner or operator shall inspect the site at least **daily** for the presence of offsite odors [ref. Op. Plan, Sec. 9.5]. In the event that odors are detected at or beyond the property boundary, the owner or operator shall abate the odors in accordance with Section 9.5 of the **Operations Plan**.

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

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

c. In the event that the odor control measures performed at the facility, do not sufficiently abate objectionable odors offsite, **within sixty (60) days** of initial detection, the owner or operator shall submit an odor abatement plan to the Department for approval. The odor abatement plan shall include at a minimum, a description of the proposed corrective actions and a schedule for implementation [ref. Op. Plan, Sec. 9.5].

d. Dust control activities (i.e. application of water sprays from a water tank truck) shall be implemented such that they do not cause the discharge of contact storm water or leachate from the lined disposal areas.

**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, landfill gas collection and control system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in intermediately covered or final covered 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, damaged or dry groundwater monitoring wells, damage to the liner or leachate collection, removal or treatment systems, fire, explosion, the development of sinkhole(s) or other subsurface instability at the site, landfill gas exceedances in onsite structures, etc., the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken, method to prevent reoccurrence, and time needed for repairs. **Written, detailed notification shall be submitted to the Department within seven (7) days following the occurrence.** Routine maintenance does not require notification but shall be noted on daily reports.

c. In the event that any portion of the groundwater or gradient monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Specific Condition #E.5., or as otherwise approved by the Department.

d. In the event that the stormwater or leachate management systems or liner system is damaged or is 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.

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

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

e. Intermediately covered areas, or areas which discharge to the stormwater management system, which exhibit significant erosion shall be repaired as specified below:

- 1) **Within 3 days** if the soil cover materials have eroded such that greater than 50% of the soil in that location has been eroded [ref. Op. Plan, Sec. 7.10.3], 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. Settlement. Areas which exhibit settlement (low spots and improperly graded areas) that may cause ponding of water shall be repaired (additional soil placed, regraded, then seeded, sodded or mulched) **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. All stormwater conveyances shall be inspected at least weekly to verify adequate performance. Conveyances not performing adequately shall be repaired within three (3) working days. Documentation of all inspections and repairs shall be kept on file at the facility.

b. All stormwater conveyances shall be inspected weekly and after a significant rainfall event (greater than 2" rainfall in a 24-hr. period) 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. 10]. 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 10.2 of the **Operations Plan**.

d. The permittee shall operate the facility, maintain grades, or utilize berms and swales, to minimize ponded water within the disposal areas [ref. Op. Plan, Sec. 7.10].

**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., Section 8 of the **Operations Plan**, and other applicable Department rules.

b. The leachate storage tanks (including leachate storage, and treatment, tanks) shall be inspected as required by Rule 62-701.400(6)(c)9., F.A.C.

c. Leachate, which has accumulated in low areas within the disposal area, shall be removed **daily** for disposal.

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

1) **Between June 15, 2015 and September 15, 2015**, the entire leachate collection and removal system shall be water pressure cleaned and/or video inspected to verify adequate performance [ref. Op. Plan, Sec.8.9]. Components not performing adequately shall be cleaned and/or repaired. **No later than October 15, 2015**, 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, if applicable) 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 any inspection videotape at the facility for reference.

2) Unless otherwise specified in this permit, the leachate collection and removal system components shall be inspected and maintained as described in Section 8.2 of the **Operations Plan**.

3) The leachate level indicators in the disposal cells, leachate storage tanks and leachate treatment tanks shall be inspected **at least once each business day**, or more frequently if needed, to ensure proper operation [ref. Op. Plan, Sec.8.2].

4) 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.

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

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

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

6) 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.

e. 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 the number of open, intermediate and closed acres, and the quantities of leachate collected, recirculated, treated and disposed on-site, and hauled/piped off-site to a wastewater treatment facility, and daily precipitation amounts greater than one tenth of an inch. The reports shall include quantities for the leachate collection and leakage detection systems separately [ref. Op. Plan, Sec. 8.2].

f. Leachate Leakage Action Rates. Leakage into the leakage detection systems (LDS) in Phases 1A and 2 should not exceed 930 gpd and 600 gpd respectively (9.3 acres and 6 acres @ 100 gal/acre/day, respectively); and in Phase 3 should not exceed 189 gpd based on EPA recommended action leakage rates published in the Federal Register/Vol. 57 No. 19/ Wednesday January 29, 1992/Rules and Regulations. Exceedance of the leakage action rate indicates that deficiencies in the primary liner system may exist. In the event that the quantity of leachate that is removed from the LDS exceeds the action leakage rate, the Department shall be notified and a corrective action plan provided in accordance with Specific Condition C.6.b. 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. Leachate Tank System Operation.

1) In the event of damage to any portion of the leachate storage tanks systems, the permittee shall **immediately (within 24 hours)** notify the Department explaining such occurrence and remedial measures to be taken and time needed for repairs. Written detailed notification shall be submitted to the Department **within seven (7) days** following the occurrence.

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

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

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

3) The leachate storage tank system (including leachate storage, and treatment, tanks) 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 November 1, 2012 and November 1, 2015** 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.

h. Leachate Disposal.

1) The primary leachate disposal method is treatment in the on-site leachate treatment plant and effluent disposal in on-site effluent ponds. On site treatment and disposal shall be in accordance with Section 8.5 of the **Operations Plan**.

2) In the event that the on-site treatment system is unable to accept leachate for disposal, leachate shall be transported to one of several Citrus County Utilities WWTF [ref. Op. Plan, Sec. 8.2]. The landfill owner or operator shall notify the Department and shall explain the contingency measures and corrective actions which will be implemented in accordance with Specific Condition C.6.b. The contingency measures shall be implemented **within seven (7) days** of the cessation of leachate acceptance at the on-site treatment system or in accordance with an alternate schedule approved by the Department.

3) Leachate shall not be discharged to the environment from leaks, spills or other unpermitted discharges from the force main piping or pumps. Trucking loading shall be operated to prevent to prevent leachate spills from discharging to the environment. 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.

i. Leachate Recirculation.

1) Spray irrigation of leachate effluent from the leachate treatment facility is allowed only within the bermed working face in Phases 2 and 3 from a spray bar mounted on the rear of a tank truck in accordance with the procedures in Section 8 of the **Operations Plan**. Under no circumstance shall leachate be allowed to discharge as runoff to adjacent storm water systems or conveyance ditches. Leachate effluent shall not be sprayed during weather conditions or in quantities that may cause runoff, surface seeps, wind-blown spray, or exceedances of limits of leachate head on the liner. The spray irrigation of treated leachate effluent shall not cause ponding on landfilled areas [ref. Op. Plan, Sec 8].

2) Leachate may be applied in Phase 3 once 30 ft. of waste is in place at a maximum rate of 3,552 gals/day. Once 70 ft of waste is in place in Phases 2 and 3, a maximum of 4,663 gals/day may be applied [ref. Op. Plan, Sec 8].

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

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

j. Phase 1/1A Leachate Riser Rehabilitation.

1) Within 30 days of issuance of this permit, the permittee shall provide a rehabilitation completion report that includes, a narrative description of the work conducted, a video inspection of the repair, detail drawings of the rehabilitated leachate riser pipes and leachate pump system, and information demonstrating that the rehabilitated side slope riser system will adequately function to remove leachate from the Phase 1/1A leachate collection system.

2) Within 30 days of Department approval of the Phase 1/1A leachate riser rehabilitation completion report, the permittee shall either submit a minor permit modification in accordance with Specific Condition #D.2.b. to revise Section 8 of the **Operations Plan** to describe the operation of the revised Phase 1/1A leachate collection system, based on the rehabilitation of the of the side slope riser system or provide written notification that no revision to the **Operations Plan** is required.

9. **Special Wastes Handling Requirements.** The design, operation, and monitoring of disposal or control of any "special wastes" shall be in accordance with the procedures in Section 2.4 of the **Operations Plan**; Rules 62-701.300(8) and 62-701.520, F.A.C.; and any other applicable Department rules, to protect the public safety, health and welfare. The special wastes shall be stored and managed such that discharge of contaminants to the environment is prevented. The special wastes shall be handled on a first-in, first-out basis. The special wastes shall be stored in a location, which does not interfere with the sequence of filling.

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. Special wastes (such as lead acid batteries, white goods, etc.), found at the working face, shall be stored in locations which do not adversely affect the sequence of filling, and shall be managed as described in Section 2.4 of the **Operations Plan**.

c. The special wastes shall be handled on a first-in, first-out basis and stored in the designated areas as identified in Section 2.4 of the **Operations Plan**. Unless otherwise specified in this permit, special wastes shall be removed from the facility for recycling and/or disposal **within 30 days of receipt or when the designated storage area/container is full, whichever occurs first**, unless another frequency for removal is approved in writing by the Department.

d. Asbestos. Asbestos shall be managed in accordance with Section M.3 of the Engineering Report [ref. SC#A.2.a., Eng. Report, Sec M.3], Rule 62-701.520(4), F.A.C., and all other applicable federal and Department rules.

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

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

e. Contaminated Soil. Contaminated soil (except dredge spoil) shall be disposed within the working area and shall have representative analytical results that 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. SC#A.2.a., Eng. Report, Sec. M.4].

f. White Goods. White goods, which may contain chlorofluorocarbons (CFCs, such as freon), shall be stored and managed at the CSA in a manner such that the CFCs are not discharged to the atmosphere. White goods which have had the refrigerant appropriately removed shall be clearly marked.

g. Scrap metals. Scrap metals which may include residual contaminants such as gasoline, oil, paint, antifreeze, PCBs, etc., shall be stored and managed at the CSA such that the residues or constituents thereof are not spilled, leaked, dumped, or otherwise discharged onto the soil or into surface or groundwaters. Scrap metals storage containers shall be tarped at the end of each working day and in the event of inclement weather. The maximum quantity of scrap metal which may be stored at the CSA is limited to 50 tons [ref. EIC Plan, Appendix Three].

h. Lead acid batteries. The batteries shall be stored on two pallets at the CSA in a manner which prevents the discharge of contaminants to the environment. The maximum quantity of batteries which may be stored at the CSA is limited to 150 batteries (50-75 per pallet). [ref. EIC Plan, App. Three].

i. Yard Waste. Yard waste shall be managed in accordance with the **Operations Plan**, the facility's Source-Separated Organics Processing Facility Registration, and Rule 62-701.320, F.A.C. [ref. Op. Plan, Sec 2.4]. A 50/50 mixture of mulched yard trash/land clearing debris and soil may be used for sideslope stabilization and erosion control in the Class I Landfill.

j. Tires. Storage shall be limited to 115 tons of tires. Tires removed from the incoming waste stream shall be managed at the facility's waste tire processing facility in accordance with Chapters 62-701 and 62-711, F.A.C., and **Permit #126602-003-WT/02** (including modifications, if any), or its successors.

k. The household hazardous waste collection/storage ("HHW C/S") facility shall be operated in accordance with the **Hazardous Waste Facility Emergency Incidents and Contingency Plans** [ref. EIC Plan, Appendix Five)], as follows [ref. Op. Plan, Sec 2.4]:

- 1) HHW received at the Citizen Convenience Center shall be identified, and then relocated for storage within the containment area of the HHW Collection/Storage Facility at the end of each collection 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.



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

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

- 4) Latex paints shall be stored within a secondary containment area and may either be collected by a contractor or used in an approved alternate daily cover (ADC) process.
  - 5) Waste received at the HHW C/S Facility shall be stored within containment areas at all times.
  - 6) Records on the quantities of HHW collected and removed for disposal shall be compiled quarterly and maintained at the facility for Department review upon request.
- l. Used Oil & Antifreeze. Used oil and antifreeze are each placed into double-wall containers within the CSA and collected by a contractor.
- m. Citizen Service Area [CSA]: The operation of the citizen waste drop-off facility shall comply with the following procedures:
- 1) Only residential customers and self-haul businesses shall use the facilities, that is, no solid waste collectors or commercial haulers will be allowed usage.
  - 2) An attendant shall be at the CSA when waste is being received. Operating hours shall be posted, and fencing and gates shall be used to prevent unauthorized access when the facility is closed.
  - 3) Only roll-off containers and/or dumpsters shall be utilized for waste storage. No compactors of any type shall be used.
  - 4) All processable and non-processable solid waste, with the exception of recyclables, shall be removed from the site at least daily or when a container is full. At the close of business each day, or in the event of inclement weather, all processable and non-processable waste shall be covered with a waterproof tarp until the facility is again receiving solid waste.
  - 5) The CSA shall be inspected for unauthorized materials and household hazardous waste at least daily. Unauthorized wastes and household hazardous wastes shall be removed from the CSA daily on operating days.
  - 6) The maximum quantities of waste/materials that shall be stored in the CSA are as indicated in Appendix Three of the **Emergency Incidents and Contingency Plan.**

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

**10. Waste Handling Requirements.**

a. **Unauthorized Wastes.** A sufficient number of spotters shall be utilized at the facility for removing unacceptable wastes. Unauthorized wastes shall be removed from the site for proper disposal in accordance with the **Operations Plan** [ref. Op. Plan, Sec. 2.4]. Spotting may be conducted at the working face from the equipment (i.e., not from the ground) while waste is being disposed, under the following conditions:

- 1) The heavy equipment operator is trained as an operator or spotter;
- 2) When unauthorized waste is discovered, the heavy equipment operator shall either move the unauthorized waste away from the active area for subsequent removal and proper management by another person on the ground, or shall stop operation and notify another person on the ground or on other equipment who shall come to the active area and remove the unauthorized waste before operations are resumed; and
- 3) Each load of waste must be visually inspected for unauthorized waste prior to being compacted or covered.

b. A trained spotter shall be at the working face, the CSA, and other special waste management areas at all times that wastes are received.

**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 landfill must be covered with at least 6 inches of compacted earth or other suitable material as approved by the Department (in writing), at the end of each working day [ref. Op. Plan, Sec. 2.8.2]. Working areas which have received initial cover and exhibit erosion which results in exposed waste shall be repaired **by the end of the next working day.**

2) A 50/50 mixture of mulched yard trash/land clearing debris and soil may be spread over initial cover for soil stabilization and erosion control [ref. Op. Plan, Sec 2.8.2].

3). Alternate daily cover materials (ADCM) shall be approved by the Department prior to use at the facility. Tarps, ProGuard SB alternate daily cover material, ConCover, Posi-Shell and FINN Waste Cover alternate daily cover material, and 50/50 mixtures of soil/mulch are approved for use as alternate initial cover [ref. Op. Plan, Sec. 2.8.2]. ADCM shall be utilized as described in Section 2.8.2 of the **Operations Plan**. Other Department-approved ADCM may be used as initial cover only, but shall not be used outside of bermed working face area without specific prior Department approval.

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

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

- b. Intermediate Cover. Intermediate cover shall be applied and maintained in accordance with Rules 62-701.500(7)(a) and (f), F.A.C. Cover materials other than soil (unless identified herein) shall not be used for intermediate cover without prior written Department approval.
  - 1) An intermediate cover of 12 inches of compacted soil and 6 inches of mulch for erosion control and slope stabilization, in addition to the six (6) inch initial cover shall be applied within seven (7) days of cell completion if final cover or an additional lift is not to be applied within 180 days of cell completion. A 50/50 mixture of soil/mulch is approved for use as alternate intermediate cover [ref. Op. Plan, Sec. 2.8.2.].
  - 2) Soil materials, which have been previously used for intermediate or initial cover, shall not be re-used for intermediate cover. These materials may be re-used as initial cover provided the runoff from these areas is managed as leachate.
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 [ref. Op. Plan, Sec. 7.4].
  - b. Interceptor berms shall be maintained around the active working area 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, or waste is exposed.
13. **Method and Sequence of Filling.**
  - a. The method and sequence of filling shall be in accordance with the **Operations Drawings** [ref. SC#A.2.a.(4), Sheet 5 of 9], and as described in the **Operations Plan** [ref. Op. Plan, Sec. 2.8.1], or as otherwise approved in writing by the Department.
  - b. Waste shall be spread in 2 ft thick layers and compacted to 1 ft thickness before applying the next layer of waste and in accordance with the method, procedures, and sequence described in the facility **Operations Plan** [ref. Op. Plan, Sec. 2.7]. Slopes shall be maintained in accordance with the **Operations Drawings**.
  - c. Initial Waste Placement.
    - 1) Protective sand layer placement and rain tarp removal prior to initial waste placement shall be in accordance with the procedures in Section 2.9.1 of the **Operations Plan**.
    - 2) 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.

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

(Specific Condition #C.13.c., cont'd)

- 3) 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 2.8.1 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.
- 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.
- e. The owner or operator shall conduct a topographic survey of, and shall estimate the remaining disposal capacity and site life of each disposal area as required by Rule 62-701.500(13)(c), F.A.C. **Annually, no later than January 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 sideslopes 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 life calculations.

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

**1. Report Submittals.**

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

**2. Operation Plan and Operating Record.**

a. Each landfill owner or operator shall have an operational plan which meets the requirements of Rule 62-701.500(2), F.A.C. A copy of the Department approved permit, operational plan, construction reports and record drawings, and supporting information shall be kept at the facility at all times for reference and inspections. Operating records as required by Rule 62-701.500(3), F.A.C., are part of the operations plan, and shall also be maintained at the site.

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

**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.** In the event that the scales become inoperable, waste may be received for disposal for a maximum time period of 24 hours or as otherwise approved by the Department, until normal operations resume.

b. 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) A list of incidents of disposal of contaminated soil or other industrial wastes or sludges. This list should include the generator's name and address, and a description of the waste disposed; and
- 5) Operator and spotter training certificates and other documentation;
- 6) Log of odor complaints and corrective action;

**SPECIFIC CONDITIONS: PART D - Recordkeeping**

(Specific Condition #D.3.b., cont'd)

- 7) Records as described in Rule 62-701.500(13). These records shall include all certifications for construction completion;
- 8) Documentation of incidents reported pursuant to Specific Condition C.6.; and
- 9) Water quality and gas monitoring reports.
- 10) Gas collection and control system monitoring records [ref. Op. Plan, Sec.2.9.1.3].

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 1st 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.
- c. Proof of the initial funding of the financial assurance mechanism shall be submitted **no later than 60 days prior to** receipt of waste in the Phase 3 portion of the landfill.

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

**1. Water Quality Monitoring Quality Assurance.**

a. All field work done in connection with the facility's Water Quality Monitoring Plan regarding the collection of ground water, surface water, leachate influent, leachate treatment plant effluent, and leachate treatment plant sludge samples shall be conducted in accordance with the Standard Operating Procedures (SOPs) described in DEP-SOP-001/01 (revised March 31, 2008, effective December 3, 2008) [or as replaced by successor SOPs], as referenced in Rule 62-160.210(1), F.A.C. All laboratory analyses done in connection with the facility's Water Quality Monitoring Plan shall be conducted by firms that hold certification 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 shall extend horizontally 100 feet from the limits of the landfill disposal areas or to the property boundary, whichever is less, and shall extend vertically to the first semi-confining unit within the upper Floridan 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(1), F.A.C., and that the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C., will not be exceeded outside the footprint of the landfill disposal areas.

**3. Ground Water Monitor Well Locations.** The ground water monitoring network is designed and shall be constructed in accordance with the document entitled "Water Quality and Leachate Monitoring Plan, Central Landfill, Citrus County, Florida," prepared by SCS Engineers, dated September 22, 2010 [ref. SC#A.2.a.(2)]. The ground water monitor wells are located on the figure entitled "Attachment 1, Site Plan," prepared by SCS Engineers, received September 30, 2010 (**attached**), as follow:

<u>Well #</u>	<u>Scheduling</u> <u>Notes</u>	<u>WACS</u> <u>Testsite #</u>	<u>Aquifer</u> <u>Monitored</u>	<u>Well</u> <u>Designation</u>	<u>Location</u>
MW-3	A	150	Floridan	Background	See figure
MW-7	A	179	Floridan	Background	See figure
MW-10	A	22010	Floridan	Compliance	See figure
MW-11	A	22011	Floridan	Compliance	See figure
MW-12	A	22012	Floridan	Compliance	See figure
MW-13	A	22013	Floridan	Compliance	See figure
MW-14	A	22014	Floridan	Compliance	See figure
MW-15	A	22015	Floridan	Compliance	See figure
MW-17	A	22017	Floridan	Compliance	See figure
MW-20	B, X	23691	Floridan	Compliance	See figure
MW-21	B, Y	27449	Floridan	Compliance	See figure

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

(Specific Condition #E.3., continued)

<u>Well #</u>	<u>Scheduling Notes</u>	<u>WACS Testsite #</u>	<u>Aquifer Monitored</u>	<u>Well Designation</u>	<u>Location</u>
MW-18	A	22709	Floridan	Assessment	See figure
MW-19	A	22710	Floridan	Assessment	See figure
MW-6	A	168	Floridan	Intermediate	See figure
MW-1R	A, Z	165	Floridan	Piezometer	See figure
MW-2	A	149	Floridan	Piezometer	See figure
MW-5	A	167	Floridan	Piezometer	See figure
MW-8R	A	180	Floridan	Piezometer	See figure
MW-9	A	181	Floridan	Piezometer	See figure
MW-16	A	22016	Floridan	Piezometer	See figure
MW-AA	A	169	Floridan	Piezometer	See figure
MW-B	A	65	Floridan	Piezometer	See figure
MW-E	A	171	Floridan	Piezometer	See figure
PZ-1	A	22711	Floridan	Piezometer	See figure
PZ-2	A	22712	Floridan	Piezometer	See figure

Scheduling Notes:

A = existing well/piezometer; construction details previously submitted.

B = proposed compliance wells MW-20 and MW-21 shall be installed in accordance with the construction details provided in Attachment 2 of the document entitled "Water Quality and Leachate Monitoring Plan, Central Landfill, Citrus County, Florida," prepared by SCS Engineers, dated September 22, 2010 [ref. SC#A.2.a(2)]; a ground water "initial sampling event" shall be conducted **within 7 days of well installation and development** for the parameters referenced in Specific Condition #E.5.c.

X = documentation of well construction details prepared in accordance with Specific Conditions #E.5.b., and #E.5.d., and the results of the ground water "initial sampling event" shall be **submitted as part of the certification of the Phase 3 construction completion** [ref. SC#B.3.a(9) of permit #21375-013-SC/01].

Y = documentation of well construction details prepared in accordance with Specific Conditions #E.5.b., and #E.5.d., and the results of the ground water "initial sampling event" shall be **submitted within 30 days of receipt of laboratory results**.

Z = the designation of existing "background well" MW-1R will change to "piezometer" upon initiation of waste disposal in the Phase 3 expansion area.

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



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

4. **Ground Water Sampling.** The locations, parameters, and frequencies specified herein represent the minimum requirements for ground water monitoring. Additional samples, wells, and parameters may be required based upon subsequent analysis. Method Detection Limits must be 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 Rule 62-520.420(1), F.A.C., and with the ground water minimum criteria referenced in Rule 62-520.400(1), F.A.C. Ground water samples for analysis of metals may be field-filtered if the criteria listed in the Department's 1994 technical document entitled *Determining Representative Ground Water Samples, Filtered or Unfiltered* are met, and shall be limited to the monitor wells that are screened in unconsolidated sandy sediments. Otherwise, compliance with ground water standards shall be based on the analysis of unfiltered samples.

a. Ground water levels shall be measured at all active wells and piezometers listed in Specific Condition #E.3., during all sampling events described in Specific Conditions #E.4.b., #E.4.c., and #E.4.d., to a precision of 0.01 foot. The ground water surface contour maps prepared for each sampling event shall include ground water elevations (using a consistent, nationally recognized datum) calculated for each well and piezometer.

b. All active background wells (MW-3, and MW-7) and compliance wells (MW-10, MW-11, MW-12, MW-13, MW-14, MW-15, MW-17, MW-20 and MW-21) listed in Specific Condition #E.3., shall be sampled **semi-annually** (during the periods from Jan. 1 - June 30, and from July 1 - Dec. 31) for analysis of the following parameters:

**Field Parameters**

Static water levels  
before purging  
Specific conductivity  
pH  
Dissolved oxygen  
Temperature  
Turbidity  
Colors & sheens (by obs.)

**Laboratory Parameters**

Total ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total dissolved solids (TDS)	
Those parameters listed in	
40 CFR, Part 258, Appendix I	

Prior to the initiation of waste disposal in the Phase 3 expansion area, existing background well MW-1R shall be included in the routine, semi-annual sampling events. Following completion of the ground water "initial sampling event," proposed compliance wells MW-20 and MW-21 shall be included in subsequent routine, semi-annual sampling events.

c. Intermediate well MW-6 shall be sampled **semi-annually** (during the periods from Jan. 1 - June 30, and from July 1 - Dec. 31) for analysis of the following parameters:

**Field Parameters**

Static water levels  
before purging  
Specific conductivity  
pH  
Dissolved oxygen  
Temperature  
Turbidity  
Colors & sheens (by obs.)

**Laboratory Parameters**

Total ammonia - N	Iron
Chlorides	Mercury
Nitrate	Sodium
Total dissolved solids (TDS)	
Fecal coliform	
Total Trihalomethanes	
Those parameters listed in	
40 CFR, Part 258, Appendix I	

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

(Specific Condition #E.4., continued)

- d. Assessment wells MW-18 and MW-19 shall be sampled **semi-annually** (during the periods from Jan. 1 - June 30, and from July 1 - Dec. 31) for analysis of the following parameters:

Field Parameters

Static water levels  
before purging  
Specific conductivity  
pH  
Dissolved oxygen  
Temperature  
Turbidity  
Colors & sheens (by obs.)

Laboratory Parameters

Benzene  
Methylene chloride  
Vinyl chloride

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

- a. Prior to construction of all new or replacement wells and piezometers (excluding the proposed compliance wells listed in Specific Condition #E.3.), the permittee shall request and receive Department approval of a minor permit modification in accordance with Specific Condition #A.3.

b. Construction details (record drawings) for all new or replacement wells and piezometers shall be provided to the Department's Southwest District Office on Department Form #62-701.900(30), Monitoring Well Completion Report (**attached**).

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

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

6. **Well Abandonment.** All monitor wells and piezometers not a part of the approved Water Quality Monitoring Plan and not listed in Specific Condition #E.3., are to be plugged and abandoned in accordance with Rule 62-532.500(5), F.A.C., and the rules of the Southwest Florida Water Management District (SWFWMD). Documentation of abandonment shall include a map showing well/piezometer locations and SWFWMD abandonment records. The permittee shall submit a written report to the Department providing verification of the well/piezometer abandonment **within 30 days of abandonment**. A written request for exemption to the abandonment of a well must be submitted to the Department's Solid Waste Section for approval.

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

7. **Verification/Evaluation Monitoring.** If at any time monitoring parameters are detected in concentrations that are significantly above background water quality or that are at levels above the Department's water quality standards or minimum criteria specified in Chapter 62-520, F.A.C., 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 as 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 in writing within 14 days of this finding. Upon notification by the Department, the permittee shall initiate evaluation monitoring as described in Rules 62-701.510(7)(a) and 62-701.510(7)(b), F.A.C. If monitoring parameters are detected and confirmed at concentrations that exceed both background water quality and the Department's water quality standards or minimum criteria in any compliance well, the permittee shall notify the Department within 14 days of this finding and shall initiate corrective actions as described in Rule 62-701.510(7)(c), F.A.C.

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.). It is not anticipated that the existing stormwater management system will discharge from the property. However, in the event that surface water discharge occurs from the stormwater management system, representative samples of each discharge event shall be collected for analysis of the parameters listed in Specific Condition #E.8.b. In the event that any modifications to the stormwater management system associated with future uses of the landfill result in periodic surface water discharges from the property, the Department may require the implementation of routine surface water monitoring.

a. 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 reported at or below the surface water criteria established for the individual parameters in Chapter 62-302, F.A.C., to demonstrate compliance with Class III surface water (predominantly freshwater) criteria. Compliance with surface water criteria will be based on analysis of unfiltered samples.

b. Surface water sampling shall be conducted **per discharge event** in accordance with the Department's SOPs to comply with the requirements of Rules 62-701.510(4) and 62-701.510(6)(e), F.A.C. The Solid Waste Section of the Department shall be notified of the occurrence of each discharge event **within 24 hours of discovery**. Surface water samples shall be analyzed for the following parameters:

**Field parameters**

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

**Laboratory parameters**

Unionized ammonia	Total organic carbon (TOC)
Total hardness (as mg/L CaCO <sub>3</sub> )	Total nitrogen
Total phosphorus (as mg/L P)	Chemical oxygen demand (COD)
Iron	Fecal coliform
Mercury	Biochemical oxygen demand (BOD <sub>5</sub> )
Nitrate	Chlorophyll A
Those parameters listed in 40 CFR, Part 258, Appendix I	Total dissolved solids (TDS)
	Total suspended solids (TSS)

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

**9. Leachate Sampling.**

a. Leachate Influent Sampling. Grab samples of leachate influent (unfiltered) shall be collected for the sampling events described in Specific Conditions #E.9.a.(2) and #E.9.a.(3). Method Detection Limits must be reported at or below the regulatory levels established for the individual parameters to demonstrate compliance with 40 CFR, Part 261.24. 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.

- 1) Representative leachate influent samples shall be collected from the locations depicted on the figure entitled "Attachment 1, Site Plan," prepared by SCS Engineers, received September 30, 2010 (attached), as follow:

<u>Landfill</u>	<u>WACS</u>	
<u>Phase #</u>	<u>Testsite #</u>	<u>Leachate Sampling Location Description</u>
Phases 1/1A	172	Master lift station
Phase 2	21790	Primary pump sampling port
Phase 3	23692	Side slope riser pipe sampling port
Composite	27352	Composite leachate influent sample from Phases 1/1A, Phase 2 and Phase 3

The leachate influent samples collected from Phases 1/1A, Phase 2, and Phase 3 may be composited and submitted for laboratory analysis except that individual samples of leachate influent shall be collected from each of the phases for analysis of volatile organic compounds.

- 2) **Annual** leachate influent sampling (for the periods from Jan. 1 to Dec. 31) shall be conducted for analysis of the following parameters:

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

- 3) If the annual leachate influent analysis indicates that a contaminant listed in 40 CFR, Part 261.24 exceeds the regulatory level listed therein, the permittee shall initiate **monthly** sampling at the individual Phase locations listed in Specific Condition #E.9.a.(1) for analysis of the parameters listed in Specific Condition #E.9.a.(2), and shall notify the Department in writing in accordance with Specific Condition #C.6.b. 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**

(Specific Condition #E.9., continued)

b. Leachate Treatment Plant Effluent Sampling. Grab samples of treated leachate effluent (unfiltered) shall be collected at the discharge from the chlorine contact tank (WACS Testsite #175) as shown on the figure entitled "Attachment 1, Site Plan," prepared by SCS Engineers, received September 30, 2010 (**attached**), to comply with the ground water standards and minimum criteria referenced in Rules 62-520.420 and 62-520.400, F.A.C., respectively, with the exception of sodium, chloride and total dissolved solids (TDS). These three parameters shall meet the standards listed in Rule 62-520.420, F.A.C., at the edge of the zone of discharge along the western property boundary (as described in SC#E.2.a.).

1) Leachate effluent shall be sampled at the frequency listed in Specific Condition #E.9.b.(2), and the analytical results shall be submitted **quarterly**, as follows: Quarter 1 results shall be submitted by **April 15<sup>th</sup>**; Quarter 2 by **July 15<sup>th</sup>**; Quarter 3 by **October 15<sup>th</sup>**; and, Quarter 4 by **January 15<sup>th</sup>**.

2) Leachate effluent samples shall be collected for analysis of the following parameters [Table F(2) (b), ref. SC#A.2.a.(2)]:

Parameter	Unit	Minimum	Maximum	Frequency
Flow	gpd	N/A	30,000	Daily
pH	STD UNITS	6.00	8.50	Daily
CBOD <sub>5</sub>	mg/l	N/A	20	Monthly
TSS	mg/l	N/A	20	Monthly
Nitrate - N	mg/l	N/A	10	Monthly
Chloride	mg/l	N/A	N/A	Quarterly
Sodium	mg/l	N/A	N/A	Quarterly
TDS	mg/l	N/A	N/A	Quarterly
Total ammonia - N	mg/L	N/A	2.8	Quarterly
Benzene	µg/l	N/A	1	Quarterly
Toluene	µg/l	N/A	40	Quarterly
Ethylbenzene	µg/l	N/A	30	Quarterly
Total Xylenes	µg/l	N/A	20	Quarterly
Vinyl Chloride	µg/L	N/A	1	Quarterly
Ethylene dibromide (EDB)	µg/l	N/A	0.02	Quarterly
Total Trihalomethanes	µg/l	N/A	100	Semi-annually*
Arsenic	mg/l	N/A	0.01	Annually
Barium	mg/l	N/A	2	Annually
Cadmium	mg/l	N/A	0.005	Annually
Chromium	mg/l	N/A	0.1	Annually
Iron	mg/l	N/A	0.3	Annually
Mercury	mg/l	N/A	0.002	Annually
Lead	mg/l	N/A	0.015	Annually
Selenium	mg/l	N/A	0.05	Annually
Silver	mg/l	N/A	0.1	Annually

\* =to be conducted concurrently with the semi-annual ground water sampling events described in Specific Conditions #E.4.b., and #E.4.c.

If in any two consecutive leachate effluent sampling events the same listed parameter exceeds the regulatory level, the permittee shall immediately cease discharge into the percolation ponds and provide off-site disposal for its leachate and/or effluent, until acceptable leachate treatment is again demonstrated and until on-site discharge into the percolation ponds is again approved by the Department.

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

(Specific Condition #E.9.b., continued)

3) **Annually**, the leachate effluent shall be analyzed for those parameters listed in 40 CFR, Part 258, Appendix I, however the effluent shall be analyzed for those parameters listed in 40 CFR, Part 258, Appendix II during the annual sampling event conducted prior to permit renewal.

c. Leachate Treatment Plant Sludge Sampling. Waste sludge from the leachate treatment plant shall be sampled and analyzed **annually** using Department SOPs for the following parameters:

- Toxicity Characteristic Leaching Potential Test (TCLP) for the organics, metals and pesticides listed in 40 CFR, Part 261.24, Table 1
- pH (standard units)
- Solids (percent)

Waste sludge that is not classified as hazardous waste (Rule 62-730.030, F.A.C.) may be disposed in the Class I landfill. Based upon the results of the analyses, the Department may require further testing and alternative disposal to assure compliance with all Department rules and regulations. The Department shall be notified within thirty (30) days of alternative sludge disposal activities.

**10. Water Quality and Leachate Reporting Requirements.** The results of each ground water, surface water, leachate influent, leachate treatment plant effluent, and leachate treatment plant sludge sampling event conducted at the Citrus Central landfill to comply with the Specific Conditions of this permit shall be included in Electronic Data Deliverable (EDD) reports that provide:

a. Required water quality and leachate (influent, effluent, and sludge) monitoring reports and all analytical results shall be submitted electronically. Water quality and leachate monitoring reports shall be submitted in Adobe pdf file format. The water quality and leachate monitoring EDD reports shall be provided to the Department in an electronic format consistent with requirements for importing the data into the Department's databases as summarized on the Department's web site at: <http://www.dep.state.fl.us/waste/categories/shw/pages/ADaPT.htm>. Water quality and leachate monitoring reports shall be signed and sealed by a Florida registered professional geologist or professional engineer with experience in hydrogeological investigations and shall provide the information required by Rules 62-701.510(9)(a)1 through 62-701.510(9)(a)10, F.A.C., including:

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

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

(Specific Condition #E.10.a., continued)

The report of results shall be submitted to:

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

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

1. Specific Conditions #E.4.b., #E.4.c., #E.4.d. - results of ground water routine 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-Dec. 31, and Jan. 1-June 30, respectively;
2. Specific Condition #E.5.c. - results of ground water "initial sampling events" shall be submitted **within 30 days from completion of laboratory analyses;**
3. Specific Condition #E.7. - results of ground water verification events shall be submitted **within 60 days from completion of laboratory analyses;**
4. Specific Condition #E.8.b. - results of surface water "discharge sampling events" shall be submitted **within 60 days from completion of laboratory analyses;**
5. Specific Condition #E.9.a.(2) - results of leachate influent routine annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the periods Jan. 1-Dec. 31;
6. Specific Condition #E.9.a.(3) - results of leachate influent monthly sampling events shall be submitted **within 30 days from completion of laboratory analyses;**
7. Specific Condition #E.9.b.(1) - results of leachate treatment plant effluent periodic sampling events [see SC #E.9.b.(2)] shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup>, April 15<sup>th</sup>, July 15<sup>th</sup> and October 15<sup>th</sup> of each year** for the periods Oct. 1-Dec. 31, Jan. 1-Mar. 31, Apr. 1-June 30, and July 1-Sep. 30, respectively;
8. Specific Condition #E.9.b.(3) - results of leachate treatment plant effluent routine annual sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the periods Jan. 1-Dec. 31; and,
9. Specific Condition #E.9.c. - results of leachate treatment plant sludge sampling events shall be submitted **within 60 days from completion of laboratory analyses and no later than January 15<sup>th</sup> of each year** for the periods Jan. 1-Dec. 31.

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

**11. Monitoring Plan Evaluation.**

a. By May 15, 2013 and by October 15, 2015, the permittee shall submit an evaluation of the water quality and leachate monitoring data. The periods of time to be covered by the evaluations are summarized below:

<u>Water Quality Monitoring Data Evaluation Due Date</u>	<u>Starting Sampling Event</u>	<u>Ending Sampling Event</u>
May 15, 2013	First half 2010	Second half 2012
October 15, 2015	First half 2013	First half 2015

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

b. The permittee shall implement corrective actions at the facility to address exceedances of ground water standards reported for monitor wells at the south and west property boundaries in accordance with Consent Order OGC File No. 05-1078 [ref. SC#A.2.b.]. Any proposed changes to the monitoring plan (monitoring well locations, sampling frequency or monitoring parameters) that result from the implementation of these corrective actions shall require a modification to the permit in accordance with Specific Conditions #A.3., and #E.5., prior to the implementation of the monitoring plan changes.



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

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

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

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

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

**2. Gas Monitoring and Control.**

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

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

c. The results of **quarterly gas monitoring** required by Rule 62-701.530(2)(c), F.A.C., conducted at the locations listed in Specific Condition #F.3., shall be submitted to the Department by the following dates:

**Measured During**

Quarter 1  
Quarter 2  
Quarter 3  
Quarter 4

**Report Submitted By**

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

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

3. **Gas Monitoring Locations.** The enclosed structures and gas monitoring probes shown on Figure 9-1 entitled "Landfill Gas Monitoring Probe Locations, Citrus County Central Landfill," prepared by SCS Engineers, received April 21, 2010 (**attached**), shall be sampled at least **quarterly** for concentrations of combustible gases determined as a percent of the LEL calibrated to methane, as described in Rule 62-701.530(2), F.A.C.

**Monitoring Probes**

Active Landfill  
(Phases 1/1A, 2, 3)

Closed 60-acre Landfill

**Location Description**

Existing GP-12, GP-13, GP-14, GP-15, GP-16,  
GP-17, GP-18 and GP-19

Existing GP-1, GP-2, GP-3, GP-4, GP-5, GP-6,  
GP-7, GP-8, GP-9, GP-10 and GP-11

**Ambient**

**Monitoring Locations**

Scale House

Administrative Building

Leachate Treatment Plant

Gun Range

**Location Description**

Along baseboards, at cracks in concrete slab  
or flooring, ground-level cabinets,  
electrical outlets and panels

Along baseboards, at cracks in concrete slab  
or flooring, ground-level cabinets,  
electrical outlets and panels

At cracks in concrete slab or flooring,  
ground-level cabinets, electrical outlet  
and panels

At cracks in concrete slabs, concrete slab  
penetrations, electrical outlets and  
switches

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

4. **Gas Remediation.**

a. 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.

b. In the event that the remediation activities required by Consent Agreement OGC File No. 05-1078 for landfill gas migration result in additional gas monitoring locations or gas management systems, the permittee shall request a modification of this permit pursuant to Specific Condition #A.3., above, to incorporate the new systems and monitoring locations.

5. **Gas Collection and Control System.**

a. The permittee shall operate, monitor, and maintain the landfill gas collection and control system in accordance with the procedures provided in the Operations Plan [ref. Op. Plan, Secs. 2.9.1 through 2.9.1.7; Appendices I through M] and any other applicable requirements.

**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 submitted as part of this permit application. [ref. SC #A.2.a., Eng. Report, Section Q].
  - 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. The use of an approximately six-acre area in the southwest corner of the closed 60-acre Class I landfill has been approved by the Department, as follows:
    - **Firearms Training Facility (existing)** - the Citrus County School Board, Withlachoochee Technical Institute (WTI) operates the Criminal Justice Academy (CJA) which includes firearms training. The existing firearms training facility includes five shooting ranges (3 pistol ranges, 1 rifle range, 1 tactical range), each of which contain earthen berms on 3 sides. The CJA provides firearms training for: law enforcement, correctional and correctional probation officer basic recruits and sworn officers; firearms instructors; retired law enforcement officers; hunter safety for the general public through the Florida Fish and Wildlife Conservation Commission (FWC); tactical training for specialty teams; and to provide hunter safety training for the general public through the FWC. Shooting shall be limited into the constructed earthen berms, no skeet or trap shooting shall be allowed.
    - **Firearms Training Facility Maintenance** - areas within the firearms training facilities shall be maintained to provide adequate surface slopes for drainage to the existing storm water retention area. No penetrations of the closed landfill cover system shall be allowed without first obtaining written approval from the Department. Lead removal shall be conducted at least yearly (or more often depending on soil testing results) by a Department-licensed company for proper treatment or disposal. Documentation of soil testing locations and results, lead removal, and subsequent soil treatments to maintain neutral pH shall be maintained by the WTI and made available to the Department upon request. Soil testing and lead removal shall be performed to comply with the Department's document entitled "Best Management Practices for Environmental Stewardship of Florida Shooting Ranges," dated 2004, or successor document.

**Temporary Soil Stockpile Area** - Soils temporarily stockpiled on a portion of the closed landfill area, shall be stockpiled in the area and manner shown on plan sheet titled, "Proposed Soil Stockpile Area", and in accordance with the procedures described in the Section Q.6 of the Engineering Report received November 26, 2008, or as otherwise approved in writing by the Department.

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 July 3, 2009, or successor document. Authorization to use the Citrus County Central Landfill for activities not described in Specific Condition No. G.4.a., may require a modification of this permit to comply with Specific Condition No. A.3.

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	On or before June 15, 2015  No later than October 15, 2015	Notification of date of permit renewal application submittal  Submit application for permit renewal
A.9.a.	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of sinkholes or subsurface instability  Written notification & corrective action plan
B.2.a.	Within 60 days of completion	Submit certification of construction completion, record drawings, etc.
C.1.1.	At least 48 hrs prior to operation	Notification of temporary transfer operation
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.d.(1)	No later than October 15, 2015	Submit leachate collection system assessment report, videotape, inspection results, etc.
C.8.e.(2)	Quarterly, by January 15 <sup>th</sup>	Submit leachate generation reports
F.2.c.	April 15 <sup>th</sup> July 15 <sup>th</sup> October 15 <sup>th</sup> each year	Submit gas monitoring results
C.13.a(1)	No later than January 15, 2006	Submit permit modification for sequence of filling and stormwater management system
C.8.g.(1)	Within 24 hours of discovery  Within 7 days of verbal notification	Notification of damage to leachate tank system  Written notification and corrective action plan
C.8.g.(3)	No later than November 1, 2012 and November 1, 2015  Within 30 days of completion of tank inspection	Conduct inspection of interior of leachate tanks  Submit written inspection report
C.8.j.	Within 30 days of permit issuance	Submit Phase 1/1A leachate riser rehabilitation report

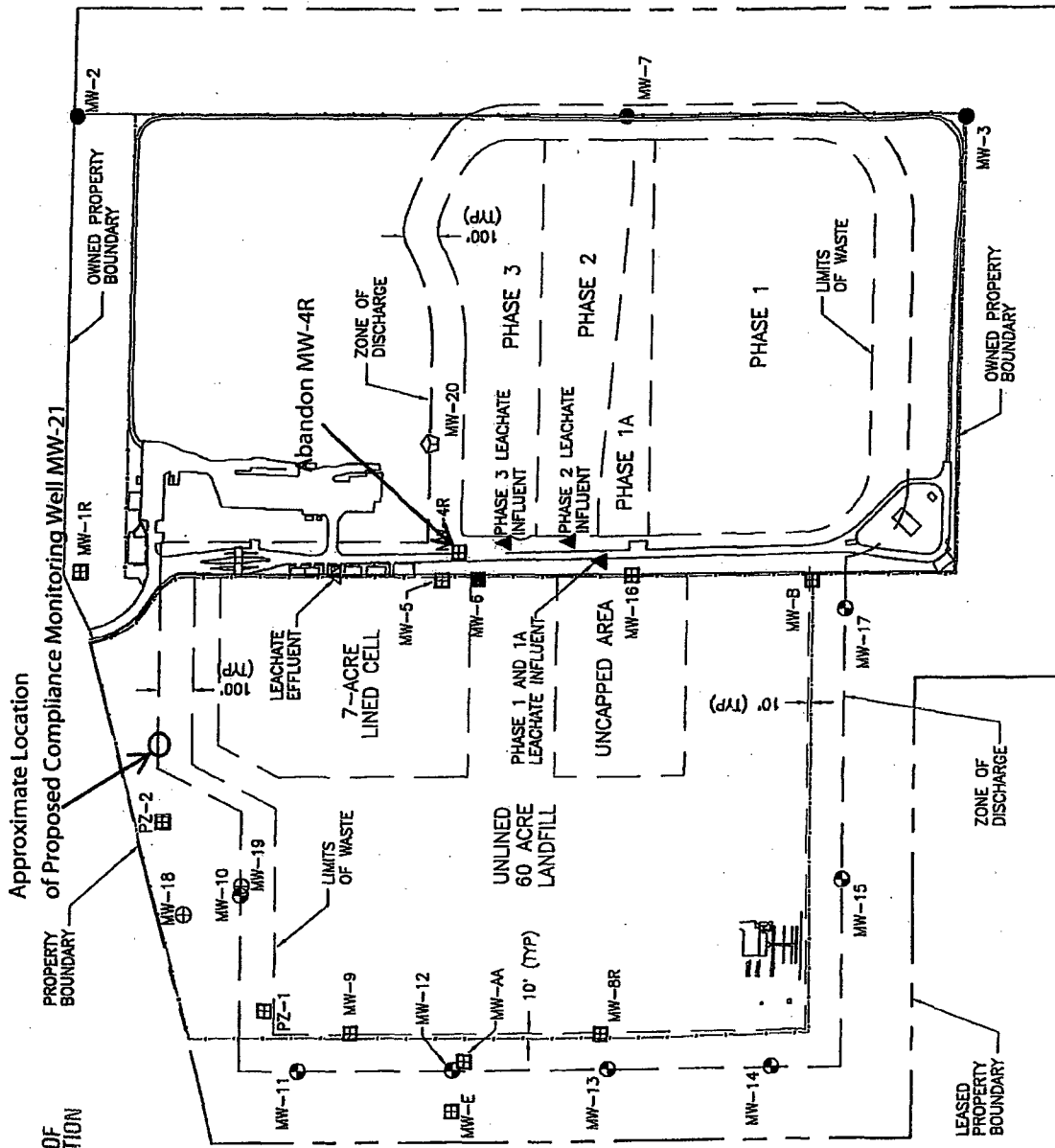
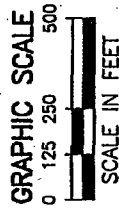
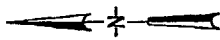
ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
C.13.e.	Annually, by January 15 <sup>th</sup> each year	Submit Topographic survey & remaining capacity calculations
D.4.a.	Annually, by September 1 <sup>st</sup> each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
D.4.c.	No later than 60 days prior to waste acceptance in Phase 3	Submit proof of initial funding for Phase 3 closure
E.3.	Within 45 days of permit #21375-018-SO/01 issuance	Install proposed compliance well MW-21
E.3.	Within 30 days of receipt of ground water "initial sampling event" results	Provide documentation of well MW-21 construction and "initial sampling event" results
E.4.b.	Semi-annually	Sample background and compliance wells
E.4.c.	Semi-annually	Sample MW-6
E.4.d.	Semi-annually	Sample assessment wells
E.5.a., E.5.b., E.5.d.	Within 90 days of installation of new wells	Request permit modification, provide construction details for wells, submit survey
E.5.c.	Within 1 week of well development	Conduct ground water "initial sampling event"
E.6.	Within 30 days of abandonment	Submit documentation of abandonment
E.8.b.	Each discharge event	Conduct surface water sampling
E.9.b.(1)	Quarterly, by Jan. 15 <sup>th</sup> , April 15 <sup>th</sup> , July 15 <sup>th</sup> , and Oct. 15 <sup>th</sup> each year	Submit results of routine leachate effluent sampling events
E.10.b.	Within 60 days from completion of laboratory analyses  Within 30 days from completion of laboratory analyses	Submit results of: - Ground water verification sampling - Surface water discharge sampling  Submit results of: - Ground water initial sampling - Leachate influent monthly sampling (SC#E.9.a.(3))
E.10.b.	Semi-annually, by Jan. 15 <sup>th</sup> and July 15 <sup>th</sup> each year  Annually, by Jan. 15 <sup>th</sup> each year	Submit results of ground water routing sampling (SC#E.4.b., #E.4.c., #E.4.d.)  Submit results of leachate influent, effluent and sludge analyses (SC#E.9.a.(2), #E.9.b.(3), #E.9.c.)

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
E.11.	By May 15, 2013 and by October 15, 2015	Submit water quality monitoring plan evaluations
F.4.a.	Within 7 days of detection	Submit gas remediation plan
	Within 60 days of detection	Complete corrective actions
G.1.	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

FLORIDA DEPARTMENT OF  
ENVIRONMENTAL PROTECTION

SEP 30 2010

SOUTHWEST DISTRICT  
TAMPA



**LEGEND**

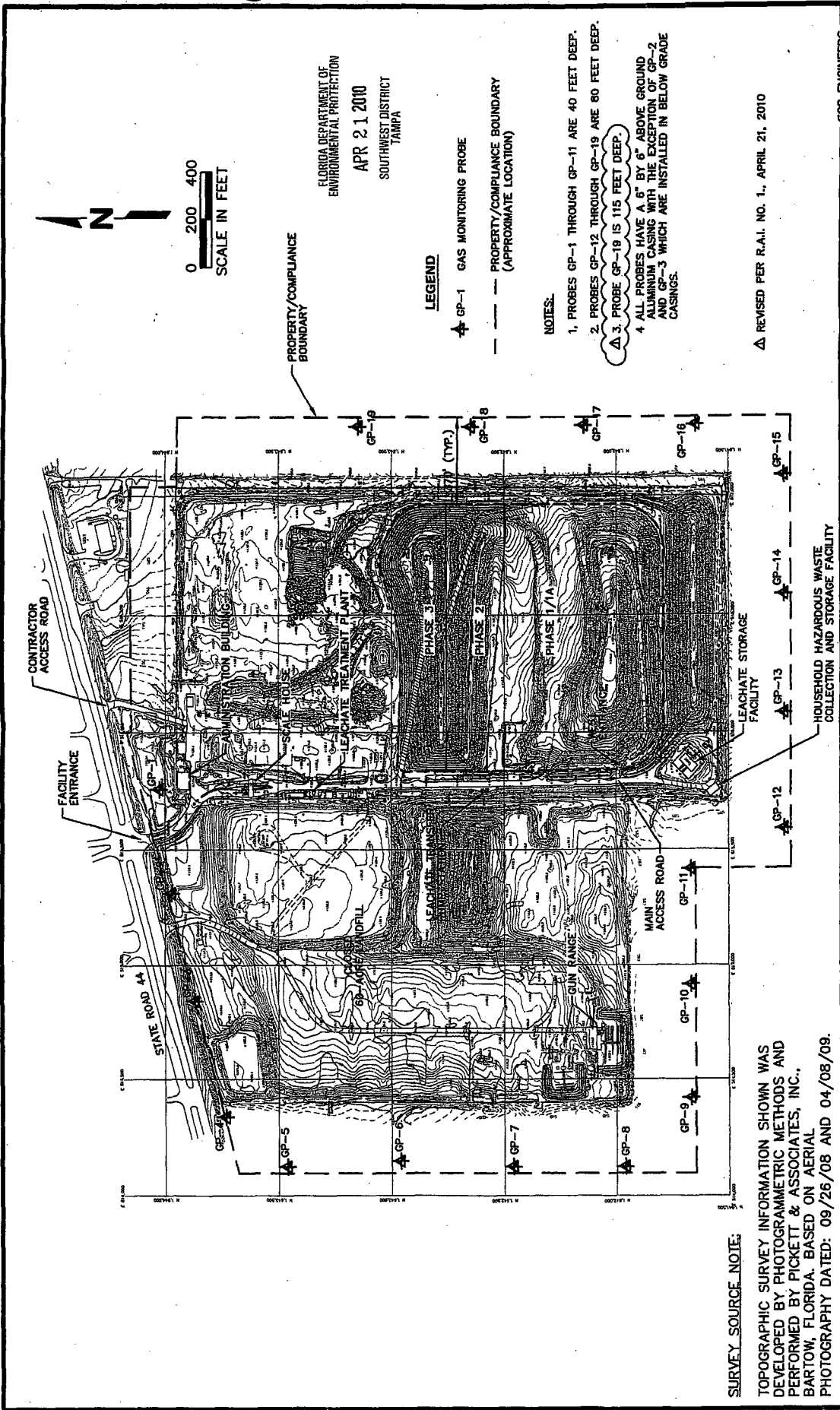
- BACKGROUND WELLS
- ⊕ COMPLIANCE MONITORING WELL
- ⊗ ASSESSMENT MONITORING WELL
- INTERMEDIATE WELL
- ⊞ PIEZOMETERS
- ⬠ PROPOSED COMPLIANCE WELL
- ▲ LEACHATE INFILTRANT SAMPLING LOCATION
- △ LEACHATE EFFLUENT SAMPLING LOCATION
- ZONE OF DISCHARGE
- PROPERTY BOUNDARY (OWNED BY COUNTY)
- LIMITS OF WASTE
- PROPERTY BOUNDARY (LEASED BY COUNTY)

NOTE: THIS MAP REFLECTS CHANGES TO THE MONITORING NETWORK PROPOSED WITH THE PHASE 3 EXPANSION

Modified by SCS Engineers to add proposed compliance monitoring well location and proposed piezometer abandonment-  
**ATTACHMENT 1 SITE PLAN**  
**CITRUS COUNTY CENTRAL LANDFILL** September 22, 2010

**JONES EDMUNDS**







# Department of Environmental Protection

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

DEP Form # 62-701.900(30)  
Form Title: Monitoring Well Completion Report  
Effective Date: January 6, 2010  
Incorporated in Rule 62-701.510(3)

## MONITORING WELL COMPLETION REPORT

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

Brantley, Anna

---

**From:** Brantley, Anna  
**Sent:** Wednesday, August 11, 2010 11:06 AM  
**To:** 'Casey.Stephens@bocc.citrus.fl.us'; 'dbramlett@SCSEngineers.com'; 'Patty Jefferson'; Wick, Fred; Hornbrook, Frank; Morris, John R.; Pelz, Susan  
**Cc:** Morgan, Steve  
**Subject:** Citrus Central Class I Operation Permit Renewal 21375-018-SO-01 RAI #3 emailed 8-11-2010.pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** Citrus Central Class I Operation Permit Renewal 21375-018-SO-01 RAI #3 emailed 8-11-2010

Attached is an electronic copy of the Request for Additional Information (RAI #3) letter and attachments for the above permit application. This is the only copy you will receive.

**NOTE:** If you have questions concerning the content of this document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

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



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

**Transmitted via email only to Casey.Stephens@bocc.citrus.fl.us**

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

August 10, 2010

RE: Citrus County Central Class I Landfill Operation Permit Renewal  
Pending Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

This is to acknowledge receipt of the additional information dated and received July 12, 2010, prepared by SCS Engineers, in support of the above permit application for permit renewal to operate an existing Class I landfill, referred to as the Citrus County Central Class I Landfill, located on S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is incomplete. This is the Department's third request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

## **GENERAL:**

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

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

**SECTION K - LANDFILL OPERATIONS REQUIREMENTS (Rule 62-701.500, F.A.C.)**

**Attachment K-1 - Operations Plan:**

Please provide the following additional information and revisions to the facility Operations Plan. Please provide replacement pages with revisions noted (deletions may be struckthrough [struckthrough] and additions may be underlined [underlined] or a similar method may be used) and each page numbered with the document title and date of revision.

**1. Section 8:**

a. Upon completion of the pipe re-rounding rehabilitation of the collapsed leachate riser pipes in Phase 1/1A, please provide a rehabilitation completion report that includes, a narrative description of the work conducted, a video inspection of the repair, detail drawings of the rehabilitated leachate riser pipes and leachate pump system, and information demonstrating that the rehabilitated side slope riser system will adequately function to remove leachate from the Phase 1/1A leachate collection system.

b. Please revise Section 8 of the Operation Plan to describe the operation of the revised Phase 1/1A leachate collection system, based on the rehabilitation of the of the side slope riser system, as appropriate.

**2. Rule 62-701.320(5)(b), F.A.C.** Please address the comments in John Morris' August 10, 2010 memorandum (attached) regarding this application. You may call Mr. Morris at (813) 632-6100, extension 336, to discuss the items in his memorandum.

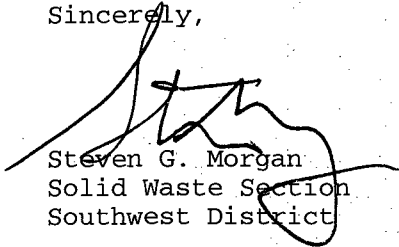
**This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.**

**Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**

Please respond by **September 30, 2010**, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than the above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. If the Department does not receive a timely, complete response to this request for information, the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

Please provide **4 copies** of your response to this letter as one complete package. If there are points that must be discussed and resolved or you would like to set up a meeting to discuss this letter and subsequent submittals, please contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

Attachment

cc: Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Patty Jefferson, Citrus County, [patty.jefferson@bocc.citrus.fl.us](mailto:patty.jefferson@bocc.citrus.fl.us)  
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

# Memorandum

# Florida Department of Environmental Protection

TO: Steve Morgan  
FROM: John R. Morris, P.G. JRM  
DATE: August 10, 2010  
SUBJECT: Citrus Central Class I Landfill, Citrus County  
Operation Permit Renewal Application, Pending Permit #21375-018-S0  
Environmental Monitoring Review Comments (Responses to RAI #2)  
cc: Susan Pelz, P.E.

I have reviewed portions of the materials submitted to the Department in support of the referenced application for renewal of the Class I landfill operations permit that was prepared by SCS Engineers, on behalf of Citrus County Solid Waste Management Division, received July 12, 2010 and July 13, 2010. These materials were prepared in response to the Department's letter dated May 21, 2010 that requested additional information regarding this application for the referenced facility. My review focused on the hydrogeologic and environmental monitoring aspects of the application for the referenced permit and included the following:

- Letter prepared by SCS Engineers dated July 12, 2010, received July 12, 2010, re: "Response to Request for Additional Information No. 2 (RAI No. 2), Citrus County Central Class I Landfill Operation Permit Renewal" [referred to as the "**response letter**"], which transmitted:
  - Attachment C – Document entitled "Citrus County Landfill, Biennial Water Quality Monitoring Report, 2009" [referred to as the "**BWQMR document**"], prepared by SCS Engineers, dated July 12, 2010,
  - Attachment D – Document entitled "Water Quality and Leachate Monitoring Plan, Citrus Central Landfill, Citrus County, Florida" [referred to as the "**WQLMP document**"], prepared by SCS Engineers, dated July 12, 2010,
  - Attachment E – Revised Section L of the Engineering Report [Water Quality and Leachate Monitoring Requirements], prepared by SCS Engineers, dated July 12, 2010,
  - Attachment F – Part L of Department Form #62-701.900(1) [Water Quality and Leachate Monitoring Requirements], pages 30 and 31, undated revisions.
- Letter prepared by SCS Engineers dated July 13, 2010, received July 13, 2010 that transmitted signed/sealed cover pages for the BWQMR document and WQLMP document.

Additional information is required to address the requirements of Rules 62-701.410 and 62-701.510, F.A.C., and to evaluate the adequacy of the proposed monitoring plan. Please have the applicant address all of the review comments that do not include the phrase: "**No additional information is requested.**" Please have the applicant submit responses to the following review comments that provide revised submittals, or replacement pages to the submittals, that use a ~~strike through~~ and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised pages (including text, figures, tables, attachments, forms, plan sheets, etc.).

The review comment numbers presented below are consistent with my memoranda dated March 2, 2010 and May 21, 2010. To facilitate the review process, those comments that were fully addressed by previous submittals [comments #1.a., #1.c., #1.d., #1.e., #1.f., #1.g., #1.h., #1.i., #1.j., #1.k., #1.l., #1.m., #1.o., #1.p., and #1.t.] have been deleted from this memorandum. The information requests have been referenced to sections of the permit application and are also referenced to the sections of the supporting document where appropriate, as presented below:



**PART M – WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS**

(Rule 62-701.510, F.A.C.)

1. **L.1.h.(3): Two and one-half year report requirements, or every five years if in long-term care, signed, dated and sealed by PG or PE [Rule 62-701.510(9)(b), F.A.C.].**

Please submit additional revisions to the BWQMR document to address the following:

Section 1 – Introduction

b. The response letter dated April 21, 2010 itemized the information required by the Department's SOP FS 2212, Sections 3.5.2 and 3.5.3 to determine if elevated dissolved oxygen and turbidity values reported during well purging represent naturally occurring conditions. The response letter dated July 12, 2010 provided additional discussion regarding these elevated dissolved oxygen and turbidity values. Please submit revisions to the appropriate section of the BWQMR document to address the following:

- 1) The response letter and the "Metals Exceedances – Iron" sub-section in Section 3 of the BWQMR document described activities to be conducted prior to the next sampling event [assumed to be performed during the second half 2010 event, with results due to be submitted by January 15, 2011] to remove the dedicated pump, purge well MW-10 of sediment, re-install the pump at a slightly higher elevation, purge the well at an optimal rate to minimize turbidity, and reduce the pumping rate while collecting samples. While the Department does not object to these activities, please note that this discussion did not address chronically elevated turbidity values reported for well MW-18, or provide an explanation why the elevated turbidity values reported for wells MW-10 and MW-18 would be considered to be naturally occurring. Please also note that in the event these proposed activities are not successful in reducing turbidity levels, supplemental activities may be required. **This comment has been presented for informational purposes and does not require a response.**
- 2) The response letter referred to the response provided to comment #1.b.(1) and to the "Comments" and "Notes" sections of the Sampling Logs provided for the ground water sampling events conducted at the facility. It is noted that the discussion provided regarding elevated turbidity values reported for well MW-10 did not address the potential for well construction [screen slot and/or sand pack sizes] or well installation [broken screen, insufficient sand pack, insufficient well development] to be the cause for the elevated turbidity values at these wells. As indicated above, please note that in the event these proposed activities are not successful in reducing turbidity levels, supplemental activities may be required. **This comment has been presented for informational purposes and does not require a response.**
- 3) The response letter referred to the Sampling Logs provided for the ground water sampling events conducted at the facility which indicated the sampling personnel were aware of the need to utilize the SOP procedures to minimize sample dissolved oxygen and collect samples using low flow rates. The response letter also indicated that high recharge in the Brooksville Ridge caused elevated dissolved oxygen levels in the hydraulically upgradient wells [MW-1R, MW-2, MW-3] and in the deeper monitor well [MW-19] that is unaffected by the landfill. Please submit a response that addressed the last two sentences of this review comment in the memorandum dated May 21, 2010:

Please discuss the variability in dissolved oxygen measurements recorded at monitor wells around the facility since the July 2009 sampling event and the causes for the increased dissolved oxygen measurements that no longer meet the purging criterion [see attached table]. Please explain why these conditions would be considered to be naturally occurring.

[Comment #1.b., continued]

4) The response letter referred to the response provided to comment #1.b.(3) and to the "Other Parameter Issues – Dissolved Oxygen" sub-section in Section 3 of the BWQMR document regarding elevated dissolved oxygen levels reported during sampling events conducted at the facility. It does not appear that the information requested by this review comment presented in the memorandum dated May 21, 2010 was provided. Please submit a response that provides the results using a down hole dissolved oxygen probe:

Please indicate when the information described in item #5 was submitted to the Department [A description of conditions at the site that cause the dissolved oxygen to be high and/or dissolved oxygen measurements made within the screened or open borehole portion of the well with a downhole dissolved oxygen probe.]. In the event that dissolved oxygen measurements made within the screened portion the monitor wells using a downhole probe have not been provided, please submit revisions to the appropriate sections of the BWQMR to present this information.

Section 4 – Adequacy of Monitoring Program

n. The response letter referred to the WQLMP document and revised Section L of the Engineering Report. Please submit additional revisions to address the following:

- The WQLMP document meets the requirements of Rule 62-701.510, F.A.C., and replaces the monitoring plan submitted as part of the construction permit for Phase 3 [referenced in Specific Condition #A.2.a.(3) of permit #21375-013-SC/01]. **No additional information is requested.**
- Please submit revisions to Section L of the Engineering Report that addresses the following:  
Section L.1 – Water Quality and Leachate Monitoring Plan  
1) Please revise this paragraph to delete the reference to the November 2008 Jones Edmunds & Associates, Inc., document and replace it by referencing the WQLMP document.

Section L.1.3.2 – Downgradient Compliance Well

2) The third sentence of this section referred to the well locations on "Figure 2 of the Monitoring Plan." Please submit revisions to refer to Attachment 1 of the WQLMP document.

Section L.1.3.3 – Background Wells

3) This section indicated existing background wells MW-1R and MW-2 would be re-designated as piezometers for water level measurements, and that the well network would include background wells MW-3 and MW-7. Please revise the second sentence of ¶2 of this section to indicate "there are no other changes to this subsection."

Section L.1.3.4 – Monitoring Well Location Information

4) The third sentence in ¶1 of this section referred to the well locations on "Figure 2 of the Monitoring Plan." Please submit revisions to refer to Attachment 1 of the WQLMP document.

Section L.1.3.6 – Well Screen Locations

5) Please submit revisions to the second sentence of this section to refer to the table of construction characteristics for proposed wells MW-20 and MW-21 that are provided in Attachment 2 of the WQLMP document.

- The response letter referred to Part L of the application form presented in Attachment F. **No additional information is requested.**

q. The response letter referred ¶5 of Section 2, sub-section entitled "Ground Water Flow Assessment" of the BWQMR document that was revised to reference ground water velocity calculated for the unconfined Floridan aquifer. **No additional information is requested.**

[Comment #1., continued]

r. The response letter referred to the new "Monitoring Frequency" sub-section in Section 4 of the BWQMR document that provided an evaluation of the adequacy of the semi-annual ground water monitoring frequency. **No additional information is requested.**

s. The response letter referred to revised Section 2 and Section 3 of the WQLMP document that indicated existing background wells MW-1R and MW-2 would be re-designated as piezometers and that background water quality would be adequately monitored at wells MW-3 and MW-7. **No additional information is requested.**

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

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

Jrm

Brantley, Anna

---

**From:** Brantley, Anna  
**Sent:** Friday, May 21, 2010 3:30 PM  
**To:** 'Casey.Stephens@bocc.citrus.fl.us'; 'dbramlett@SCSEngineers.com'; 'Patty Jefferson'; Wick, Fred; Hornbrook, Frank; Morris, John R.; Pelz, Susan  
**Cc:** Morgan, Steve  
**Subject:** Citrus Central Class I Operation Permit Renewal 21375-018-SO-01 RAI #2 (emailed 5-21-2010).pdf (SECURED) - Adobe Acrobat Professional  
**Attachments:** Citrus Central Class I Operation Permit Renewal 21375-018-SO-01 RAI #2 (emailed 5-21-2010)

Attached is an electronic copy of the Request for Additional Information (RAI # 2) letter and attachments for the above permit application. Hard copy was sent via US Mail.

**NOTE:** If you have questions concerning the content of this document, please contact the DEP permit processor [steve.morgan@dep.state.fl.us](mailto:steve.morgan@dep.state.fl.us)

This is the only electronic copy you will receive. Acrobat Reader 6.0 or greater is required to read this document, and is available for downloading at: <http://www.adobe.com/products/acrobat/readstep.html>

Anna

Anna Brantley  
Administrative Assistant II  
FL DEP / SWD / Waste Management  
13051 North Telecom Parkway  
Temple Terrace FL 33637-0629  
Tel: 813/632-7600, Ext. 377  
Fax: 813/632-7664  
[anna.brantley@dep.state.fl.us](mailto:anna.brantley@dep.state.fl.us)

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



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

Transmitted via email only to [Casey.Stephens@bocc.citrus.fl.us](mailto:Casey.Stephens@bocc.citrus.fl.us)

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

May 21, 2010

RE: Citrus County Central Class I Landfill Operation Permit Renewal  
Pending Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

This is to acknowledge receipt of the additional information dated and received April 21, 2010, prepared by SCS Engineers, in support of the above permit application for permit renewal to operate an existing Class I landfill, referred to as the Citrus County Central Class I Landfill, located on S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is incomplete. This is the Department's second request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

## GENERAL:

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

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

**SECTION C (Rule 62-701.300, F.A.C.):**

1. It does not appear that Section C (formerly Section D) was revised to discuss the facility's compliance with the prohibitions related to CCA treated wood or dust, as indicated in the April 21, 2010 response letter. Please verify and revise Section C, as appropriate.

**SECTION K - LANDFILL OPERATIONS REQUIREMENTS (Rule 62-701.500, F.A.C.)**

**Attachment K-1 - Operations Plan:**

Please provide the following additional information and revisions to the facility Operations Plan. Please provide replacement pages with revisions noted (deletions may be struckthrough [struckthrough] and additions may be underlined [underlined] or a similar method may be used) and each page numbered with the document title and date of revision.

2. **Table of Contents:** An extraneous document appears to have been included in the Table of Contents of Attachment K-1. Please verify and revise the Table of Contents accordingly.

3. **Section 2.8.2:**

a. Please verify whether the applicant is proposing to use latex paint itself as an alternate daily cover [ADC] or as an additive to the Posi-Shell ADC.

b. Please revise this section to describe the proper formulation and application of each approved ADC material "per manufacturer's specification".

4. **Section 2.9.1:** Please revise the operation procedures for the GCCS to include the following information:

a. Daily start-up and shutdown procedures for the entire system.

b. Operating and maintenance procedures for the vertical wellhead and horizontal collectors. O&M procedure for the wellhead did not appear to be included in the information in Attachments I through M.

c. System readings taken at the wellhead and adjustments to the system made as a result of those readings.

d. Procedures for evaluation of the performance of the system.

e. Procedures for isolation of parts of the system in the event of damage, repair, or maintenance of parts of the system.

f. Condensate management system monitoring and maintenance procedures.

g. As specific description of the safety protocols and considerations relating to subsurface landfill fires.

5. **Section 8:**

a. Your April 21, 2010 response letter indicates that the applicant has chosen the pipe re-rounding option to rehabilitate the collapsing leachate riser pipes in Phase 1/1A.

1) The October 23, 2009 e-mail and attachments provide a general description of this option but does not provide specific details of the work that will be conducted at this facility. Please provide specific information regarding the work to be conducted for the Department's review and approval prior to initiating the rehabilitation.

2) Pending the Department's review of the specific information regarding the proposed rehabilitation, the Department will reserve determination as to whether operation of the revised leachate system will be changed such that changes to Section 8 are required. **This comment is for information purposes only and does not require a response other than acknowledgement of the comment.**

6. **Rule 62-701.320(5)(b), F.A.C.** Please address the comments in John Morris' May 21, 2010 memorandum (attached) regarding this application. You may call Mr. Morris at (813) 744-6100, extension 336, to discuss the items in his memorandum.

**SECTION S - FINANCIAL RESPONSIBILITY REQUIREMENTS (Rule 62-701.630, F.A.C.)**

7. **Revised Attachment S-1:**

a. The closure and long-term care estimates provided in cost estimates provided in Attachment G (total for closing \$5,633,193.00 and long-term care \$168,656.00/year x 30 years = \$5,059,677.00), are approved (see attached letter). A copy of the approval letter will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C.

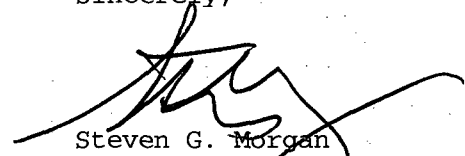
**This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.**

**Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**

Please respond by **July 12, 2010**, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than the above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. If the Department does not receive a timely, complete response to this request for information, the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

Please provide **4 copies** of your response to this letter as one complete package. If there are points that must be discussed and resolved or you would like to set up a meeting to discuss this letter and subsequent submittals, please contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

Attachment

cc: Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Patty Jefferson, Citrus County, [patty.jefferson@bocc.citrus.fl.us](mailto:patty.jefferson@bocc.citrus.fl.us)  
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)





# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

Transmitted via email only to: Casey.Stephens@bocc.citrus.fl.us

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

May 21, 2010

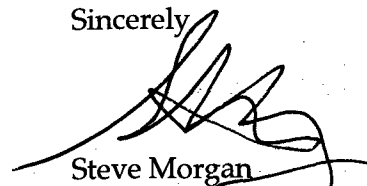
RE: Citrus County Central Class I Landfill  
Financial Assurance Cost Estimates  
Pending Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

This letter is to acknowledge receipt of the revised cost estimates dated April 20, 2010 (received April 21, 2010), prepared by SCS Engineers for closure and long-term care of the Citrus County Landfill (Phases 1, 1A, 2, & 3 and the old 60 acre landfill). The revised cost estimates received on April 21, 2010 (total for closing \$5,633,193.00 and long-term care \$168,656.00/year x 30 years= \$5,059,677.00), are **APPROVED**. The approved estimates are for closing 31.2 acres (Phases 1, 1A, 2, & 3) and long-term care of 91.2 acres. The next annual update (revised or inflation-adjusted estimates) is due no later than **September 1, 2010**.

A copy of these estimates will be forwarded to Mr. Fred Wick, Solid Waste Section, FDEP, 2600 Blair Stone Road, Tallahassee, Florida 32399-2407. Please work with him directly to assess the facility's compliance with the funding mechanism requirements of Rule 62-701.630, F.A.C. If you have any questions, you may contact me at (813) 632-7600 ext. 385.

Sincerely



Steve Morgan  
Solid Waste Section  
Southwest District

sgm

cc: Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Patty Jefferson, Citrus County, [patty.jefferson@bocc.citrus.fl.us](mailto:patty.jefferson@bocc.citrus.fl.us)  
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

**Memorandum**

TO: Steve Morgan  
FROM: John R. Morris, P.G. *JRM*  
DATE: May 21, 2010  
SUBJECT: Citrus Central Class I Landfill, Citrus County  
Operation Permit Renewal Application, Pending Permit #21375-018-S0  
Environmental Monitoring Review Comments (Responses to RAI #1)  
cc: Susan Pelz, P.E.

I have reviewed portions of the materials submitted to the Department in support of the application for renewal of the Class I landfill operations permit that was prepared by SCS Engineers, on behalf of Citrus County Solid Waste Management Division, received April 21, 2010. These materials were prepared in response to the Department's letter dated March 3, 2010 that requested additional information regarding this application for the referenced facility. My review focused on the hydrogeologic and environmental monitoring aspects of the application for the referenced permit and included the following:

- Document entitled "Citrus County Class I Central Landfill, Operations Permit Renewal Application, RAI No. 1 Response" dated April 21, 2010, including:
  - Letter prepared by SCS Engineers dated April 21, 2010, re: "Response to Request for Additional Information No. 1 (RAI No. 1)" [referred to as the **"response letter"**],
  - Attachment B – Department Form #62-701.900(1), effective date January 6, 2010, signed and sealed April 20, 2010,
  - Attachment C – Document entitled "Citrus County Class I Central Landfill, Operation Permit Renewal Application," dated April 21, 2010 [referred to as the **"Engineering Report"**],
  - Attachment H – Document entitled "Citrus County Landfill, Biennial Water Quality Monitoring Report, 2009" [referred to as the **"BWQMR document"**] prepared by SCS Engineers, dated April 21, 2010.

Additional information is required to address the requirements of Rules 62-701.410 and 62-701.510, F.A.C., and to evaluate the adequacy of the proposed monitoring plan. Please have the applicant address all of the review comments that do not include the phrase: **"No additional information is requested."** Please have the applicant submit responses to the following review comments that provide revised submittals, or replacement pages to the submittals, that use a ~~strike-through~~ and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised pages (including text, figures, tables, attachments, forms, plan sheets, etc.).

The review comment numbers presented below are consistent with my memorandum dated March 2, 2010. The information requests have been referenced to sections of the permit application and are also referenced to the sections of the supporting document where appropriate, as presented below:

**PART M – WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS**

(Rule 62-701.510, F.A.C.)

1. **L.1.h.(3): Two and one-half year report requirements, or every five years if in long-term care, signed, dated and sealed by PG or PE** [Rule 62-701.510(9)(b), F.A.C.]. [Renumbered from item #M.1.h.(2)]
  - a. The response letter referred to revised page 31 of the application form that referenced Section L.1.h.(3) of the Engineering Report. **No additional information is requested.**

(Comment #1., continued)

Please submit revisions to the BWQMR document to address the following:

Section 1 – Introduction

b. The response letter itemized the information required by the Department's SOP FS 2212, Sections 3.5.2 and 3.5.3 to determine if elevated dissolved oxygen and turbidity values reported during well purging represent naturally occurring conditions. Please submit revisions to the appropriate section of the BWQMR to address the following:

1) The response letter indicated that turbidity had historically been elevated at well MW-10, however it did not discuss the turbidity measurements recorded during the July 2008 sampling event [4.88 NTU] or the April 2009 resampling event [8.84 NTU] that met the purging criterion [see attached table]. Please discuss the variability in turbidity values measured during successive sampling events conducted at well MW-10, and explain why these conditions would be considered to be naturally occurring.

2) The response letter indicated that the last six items listed in SOP FS 2212, Section 3.5.2 [items #5 through #10] have previously been submitted to describe elevated turbidity. Please indicate when the information described in item #6 was submitted to the Department [*A description of conditions at the site that cause the turbidity to be high and any procedures that will be used to minimize turbidity in the future.*]. In the event that a description of the procedures that will be used to minimize turbidity in the future have not been provided, please submit revisions to the appropriate section of the BWQMR to present this information.

3) The response letter referenced USGS reports that indicated elevated dissolved oxygen can occur in the unconfined Floridan aquifer and in areas such as the Brooksville Ridge, and that based on sampling techniques conducted at the facility it would appear that the elevated dissolved oxygen levels at MW-1R, MW-2, MW-3 and MW-19 are due to naturally occurring conditions. Please discuss the variability in dissolved oxygen measurements recorded at monitor wells around the facility since the July 2009 sampling event and the causes for the increased dissolved oxygen measurements that no longer meet the purging criterion [see attached table]. Please explain why these conditions would be considered to be naturally occurring.

4) The response letter indicated that the last six items listed in SOP FS 2212, Section 3.5.2 [items #5 through #10] have previously been submitted to describe elevated dissolved oxygen. Please indicate when the information described in item #5 was submitted to the Department [*A description of conditions at the site that cause the dissolved oxygen to be high and/or dissolved oxygen measurements made within the screened or open borehole portion of the well with a downhole dissolved oxygen probe.*]. In the event that dissolved oxygen measurements made within the screened portion the monitor wells using a downhole probe have not been provided, please submit revisions to the appropriate sections of the BWQMR to present this information.

Section 3 – Ground Water, Surface Water, and Leachate Monitoring Program

c. The response letter referred the last ¶ of the sub-section entitled "Surface Water Monitoring Program" that was revised to refer to the reporting of surface water discharge sampling events. **No additional information is requested.**

d. The response letter referred to the sub-section entitled "Zone of Discharge" that was revised to refer to Table 3-2. **No additional information is requested.**

e. The response letter referred to the revised summary tables for water quality results reported for wells MW-13 and MW-19 that were provided in Appendix C. **No additional information is requested.**

(Comment #1., continued)

- f. The response letter referred to the revised sub-section entitled "Metals Exceedances – Lead" that described the concentrations reported for the samples collected from well MW-10 during the review period. **No additional information is requested.**
- g. The response letter referred to revised ¶3 in the sub-section entitled "Organic Parameters Exceedances – Benzene" that described the concentrations reported for the samples collected from well MW-10 during the review period. **No additional information is requested.**
- h. The response letter referred to the deletion of ¶4 in the sub-section entitled "Organic Parameters Exceedances – Benzene." **No additional information is requested.**
- i. The response letter referred to the deletion of ¶2 in the sub-section entitled "Organic Parameters Exceedances – Bromodichloromethane and Dibromochloromethane." **No additional information is requested.**
- j. The response letter referred to the deletion of ¶3 in the sub-section entitled "Organic Parameters Exceedances – Methylene Chloride." **No additional information is requested.**
- k. The indication in the response letter that the estimated concentrations of vinyl chloride reported for the samples collected from well MW-18 during July 2008, January 2009, and July 2009 were not "quantifiable detections" is noted. **No additional information is requested.**
- l. The response letter referred to the deletion of ¶5 in the sub-section entitled "Organic Parameters Exceedances – Vinyl Chloride." **No additional information is requested.**
- m. The response letter indicated the low yield/poor quality argument had been removed from the BWQMR. **No additional information is requested.**

Section 4 – Adequacy of Monitoring Program

- n. The response letter referred to new ¶2 of the sub-section entitled "Floridan Aquifer Monitoring Adequacy – Floridan Aquifer Well Locations" that indicated existing compliance wells MW-10 through MW-15, and well MW-17 provided adequate coverage of the west and south sides of the landfill. New ¶2 of this sub-section also proposed a compliance well be installed to the north of the 7-acre lined cell at a location depicted on the figure presented in Appendix F of the revised BWQMR. To authorize this proposed modification of the monitoring plan and the construction of the new compliance well, please submit the following information:
  - A new monitoring plan that meets the requirements of Rule 62-701.510, F.A.C., to replace the monitoring plan submitted as part of the construction permit for Phase 3 [referenced in Specific Condition #A.2.a.(3) of permit #21375-013-SC/01]. The new monitoring plan should include the justification of construction details (well screen length, well screen top/bottom elevations, well screen and sand pack sizes, etc.) for the proposed compliance well;
  - A revised Section L of the Engineering Report that references the new monitoring plan and the proposed compliance well; and,
  - A revised Part L of the application form that replaces the "N/C" entries with references to the new monitoring plan.
- o. The response letter referred to revised ¶1 of Section 2, sub-section entitled "Ground Water Flow Assessment" that referenced the hydrograph provided in Appendix A of the BWQMR. **No additional information is requested.**

(Comment #1., continued)

- p. The response letter referred to new ¶3 of Section 2, sub-section entitled "Ground Water Flow Assessment" that presented an interpretation of the ground water contour maps for the review period provided in Appendix A of the BWQMR. **No additional information is requested.**
- q. The response letter referred to new ¶4 and ¶5 of Section 2, sub-section entitled "Ground Water Flow Assessment" that evaluated ground water velocity calculations for the facility. Please clarify if the reference in ¶5 of this sub-section to "velocity of ground water in the surficial aquifer" was intended to indicate the "unconfined Floridan aquifer," and submit revisions as appropriate.
- r. The reference in the response letter to the hydrograph that was added to the BWQMR does not appear to address the review comment that requested the submission of revision to the appropriate sub-section of the BWQMR document to provide an evaluation of the adequacy of the ground water monitoring frequency based on site conditions [Rule 62-701.510(9)(b)8, F.A.C.]. It does not appear that Section 4 of the BWQMR was revised to address this review comment. Please review this apparent omission and submit revisions to the BWQMR, as appropriate.
- s. The indication in ¶2 of this item in the response letter that water level drawdown observed during purging at well MW-6 caused the water level surface to intercept the well screen at the time of sampling is noted. It does not appear that ¶1 of this item in the response letter provided a similar evaluation regarding the appropriateness of the screened interval at well MW-2. Furthermore, it is unclear if ¶3 of this item in the response letter was intended to indicate that background conditions would be adequately monitored by wells MW-3 and MW-7, and that well MW-2 could be deleted from the monitoring plan. Please submit clarifications regarding the appropriateness of the construction details for well MW-2 and/or the intention to maintain/eliminate this location from the monitoring plan. In the event that a replacement for well MW-2 is proposed, or deletion of this location from the monitoring plan is proposed, please include these modifications in the new monitoring plan referenced in comment #1.n., above.
- t. The indication in the response letter that estimated concentrations of vinyl chloride [at levels below the ground water standard] were reported for the samples collected from wells MW-13 and MW-15 during the January 2010 sampling event is noted. **No additional information is requested.**

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

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

jrm

Attachment – Table entitled "Summary of Selected Field Measurements Conducted During Ground Water Sampling Events at Citrus Central Landfill, Citrus County"

Table A - Summary of Selected Field Measurements Conducted During Ground Water Sampling Events at Citrus Central Landfill, Citrus County

Parameter/ Sampling Event	Purging Criterion	Monitor Well Identification Number															
		MW-1R B/F	MW-2 B/F	MW-3 B/F	MW-7 B/F	MW-10 C/F	MW-11 C/F	MW-12 C/F	MW-13 C/F	MW-14 C/F	MW-15 C/F	MW-17 C/F	MW-18 A/F	MW-19 A/F			
Dissolved oxygen (mg/L)																	
Nov-05	2					1.01	0.4	0.38	0.38	0.36	0.35	0.61					
Jan-06	2										0.66						MW-15 resampled
Jan-06	2										0.29						MW-15 resampled
Jul-06	2	3.01	6.78	4.04	0.71	0.81	1.34	0.46	1.21	0.78	1.22	1.18					MW-10 resampled
Aug-06	2					0.31											
Jan-07	2	3.68	5.87	4.72	0.25	0.21	0.96	0.1	0.2	0.24	0.14	0.11					MW-1R, -10, -18, -19 resampled
Feb-07	2	3.57	1.52	4.07	0.22	0.34	1.2	0.18	0.44	0.36	0.11	0.09	1.61	5.41	0.99		
Jan-08	2	3.68	5.08	5	0.2	0.17	0.87	0.11	0.15	0.2	0.18	0.22	0.52	5.75			
Jul-08	2	3.99	4.95	5.88	0.57	0.19	1.11	0.2	0.24	0.24	0.15	0.16	1.47	5.11			
Jan-09	2	5.05	5.21	3.83	1.12	0.41	1.13	0.45	0.32	0.5	0.24	0.42	2.13	5.51			
Apr-09	2					1.68	3.45	1.24									MW-10, -11, -13 resampled
Jul-09	2	4.25	5.74	3.39	0.26	0.43	1.18	0.31	2.25	0.17	0.24	0.21	2.05	5.23			
Aug-09	2					2.13					0.87						MW-10, -13, -15 resampled
Jan-10	2	4.12	4.39	3.79	0.39	1.16	0.67	3.12	2.78	1.93	5	5.11	1.25	4.15			
MAXIMUM		5.05	6.78	5.88	1.12	2.13	3.45	3.12	2.78	1.93	5	5.11	2.13	5.75			
MINIMUM		2.58	1.52	3.39	0.2	0.17	0.4	0.1	0.15	0.17	0.11	0.09	0.52	0.99			

Turbidity (NTU)																	
Nov-05	20					4.07	0.54	2.18	2.7	2.14	3.04	2.48					
Jan-06	20										9.85						MW-15 resampled
Jan-06	20										2.38						MW-15 resampled
Jul-06	20	1.69	0.37	1.02	0.93	20.7	0.56	4.87	2.8	1.69	4.37	4.23					MW-10 resampled
Aug-06	20					24.1											
Jan-07	20	0.53	0.2	0.63	0.85	7.64	0.34	2.65	2.26	1.57	3.53	4.9					MW-1R, -10, -18, -19 resampled
Feb-07	20	0.57				11.7							13.7	0.99			
Jul-07	20	0.43	0.27	0.19	1.45	2.27	2.06	3.23	4.9	2.19	1.25	4.28	53.5	4.1			
Jan-08	20	0.36	0.22	0.41	2.87	51.4	1.18	4.31	4.05	0.76	3.31	4.33	45	11.5			
Jul-08	20	0.31	0.29	0.89	1.85	4.88	1.75	2.25	4.57	3.37	2.78	4.9	14.2	8.4			
Jan-09	20	1.42	0.6	0.42	2.13	1000	4.2	4.65	8.31	3.56	1.98	10.8	92	6.04			
Apr-09	20					8.84	0.95	4.45									MW-10, -11, -13 resampled
Jul-09	20	2.55	3.73	4.06	4.83	160	10.2	4.91	4.75	4.86	4.43	4.98	31.6	4.87			
Aug-09	20					175			6.69		2.09						MW-10, -13, -15 resampled
Jan-10	20	0.51	1.09	1.14	4.47	83	3.93	4.82	4.9	4.86	2.68	8.48	31	5.63			
MAXIMUM		2.55	3.73	4.06	4.83	1000	10.2	4.91	8.31	4.86	9.85	10.8	92	11.5			
MINIMUM		0.31	0.2	0.19	0.85	2.27	0.34	2.18	2.26	0.76	1.25	2.48	13.7	0.99			

s\_w/jm/citrus/xls/citaml.gwd.co -- trends -- purging criteria

5/19/10



# Florida Department of Environmental Protection

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

Charlie Crist  
Governor

Jeff Kottkamp  
Lt. Governor

Michael W. Sole  
Secretary

Transmitted via email only to [Casey.Stephens@bocc.citrus.fl.us](mailto:Casey.Stephens@bocc.citrus.fl.us)

Mr. Casey Stephens, Director  
Citrus County Solid Waste Division  
P.O. Box 340  
Lecanto, Fl. 34460-0340

March 3, 2010

RE: Citrus County Central Class I Landfill Operation Permit Renewal  
Pending Permit No.: 21375-018-SO/01, Citrus County  
WACS No.: SWD/09/39859

Dear Mr. Stephens:

This is to acknowledge receipt of the permit application prepared by SCS Engineers, dated and received February 1, 2010 for permit renewal to operate an existing Class I landfill, referred to as the Citrus County Central Class I Landfill, located on S.R. 44, 3 miles east of Lecanto, Citrus County, Florida.

This letter constitutes notice that a permit will be required for your project pursuant to Chapter(s) 403, Florida Statutes.

Your application for a permit is incomplete. This is the Department's first request for information. Please provide the information listed below promptly. Evaluation of your proposed project will be delayed until all requested information has been received.

## **GENERAL:**

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

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

1. The Department issued Permit #296143-001-SO/30 to construct and operate a new Class I solid waste transfer station, customer services area, household hazardous waste collection facility and yard and wood waste processing facility at the site. Once construction of these facilities is completed and the facilities are operating, some of drawings, figures and operation procedures provided with this permit application will become outdated, requiring the permittee to modify the Class I landfill operation permit accordingly. **This comment is for informational purposes only and does not require a response, other than acknowledgement of the comment.**

2. **Chapter 62-701, F.A.C. (effective 1/6/10):** Chapter 62-701, F.A.C. was revised, effective January 6, 2010.

a. This revision included a revised Application Form #62-701.900(1). Please complete and submit revised Application Form #62-701.900(1), effective January 6, 2010, for this application. Please revise Section E-4 to reference this form.

b. The Engineering Report submitted with this application appears to be organized to follow the parts and subparts of Application Form #62-701.900(1), effective May 27, 2001. Please verify that all the information required by revised Form #62-701.900(1), effective January 6, 2010 is addressed in the Engineering Report for this application.

c. Chapter 62-701, F.A.C. was revised, effective January 6, 2010. Since this application was not submitted and deemed complete prior to January 6, 2010, the information provided in this application must comply with the provisions of this rule. Please verify and revise information provided as part of this application, if any, that is not in conformance with this rule, as appropriate.

3. **Rule 62-701.320(5)(b), F.A.C.** Please address the comments in John Morris' March 2, 2010 memorandum (attached) regarding this application. You may call Mr. Morris at (813) 744-6100, extension 336, to discuss the items in his memorandum.

**SECTION D (Rule 62-701.300, F.A.C.):**

4. Please revise this section to discuss the facility compliance with the prohibitions related to CCA treated wood and Dust in Rules 62-701.300(14) & (15), F.A.C., effective January 6, 2010.

**SECTION E (Rule 62-701.320, F.A.C.):**

5. **Section E.13:** Please publish the attached Notice of Application and provide proof of publication to the Department.

**Attachment E-1 - Landfill Drawings**

Please provide the following additional information and revisions to the Landfill Drawings in Attachment E-1. The drawings will be reviewed in their entirety after the responses to this request for information.

6. **Sheet 4 of 9:**

a. The top terrace inlet reference on this sheet appears to refer to the bottom and middle terrace inlet detail on Sheet 8 and vice versa. Please verify and revise this sheet, as appropriate.



7. **Sheet 5 of 9:**

a. The general fill sequence narrative on this sheet refers to continued filling operation in Phase 2 during Step 1; however a sequence drawing showing Phase 2 operation sequence does not appear to be provided. Please provide a sequence drawing showing the operation in Phase 2 until operation in Phase 3 as shown on the Step 1 sequence drawing is initiated.

8. **Sheet 7 of 9:**

a. Section B: Please revise this detail to show the cap liner tie-in to the bottom liner.

**SECTION K - VERTICAL EXPANSION OF LANDFILLS (Rule 62-701.430,F.A.C.)**

9. **Section K.2**: Vertical expansion will also occur over the previously permitted buildout of Phase 2. Please verify revise this section accordingly.

**SECTION L - LANDFILL OPERATIONS REQUIREMENTS (Rule 62-701.500,F.A.C.)**

**Attachment L-1 - Operations Plan:**

Please provide the following additional information and revisions to the facility Operations Plan. Please provide replacement pages with revisions noted (deletions may be struckthrough [struckthrough] and additions may be underlined [underlined] or a similar method may be used) and each page numbered with the document title and date of revision.

10. **Section 2.1**: Please revise this section to reference the training rule, effective January 6, 2010.

11. **Section 2.4**:

a. The reference to the 2004 HHW guidelines in this section appears outdated. Please verify that these guidelines are in the plan provided in Appendix B of the Operations Plan and revise this section, as appropriate.

b. This section appear to indicate that latex paints are air-dried, however no procedures for air drying latex paints appear to be provided in the Operation Plan narrative or Appendix B of the Operation Plan. Please verify and revise this section, as appropriate.

12. **Section 2.8.1**: Please revise this section to include the procedures for tarp removal/protective soil layer placement provided in Section H.6 of the Engineering Report for Construction Permit #21375-013-SC/01.

13. **Section 2.8.2**: Please revise this section to include the specific procedures for placement and removal of tarps and geomembranes and the application of the approved spray-on ADC material daily cover.

14. **Section 2.9.1**: Please revise the appropriate section of the Operations Plan to provide the specific operation procedures for the landfill gas collection and control system (GCCS). Alternatively, the permittee will be required to provide this information as part of a permit modification to operate of the GCCS, submitted at a later date in accordance with Specific Condition #C.1.b of Permit #21375-017-SC/08.

15. **Section 2.9.2:**

- a. Please revise this section to discuss leachate control for Phases 1, 1A and 2.
- b. Leachate recirculation appears to an exception to the procedures for minimizing leachate generation discussed in this section. Please revise this section to discuss leachate recirculation, as appropriate.

16. **Section 3:** GCCS operating records, unauthorized waste disposal manifests, and CESQG verification documentation should also be operating records maintained at the facility. Please revise this section accordingly.

17. **Section 4:** Waste records for material accepted at the CSA and HHW facility should also be compiled and maintained at the facility. Please revise this section accordingly.

18. **Section 6.1:**

- a. Subsection 6: The referenced titled plan does not appear to be provided in Appendix B as indicated. Please verify and revise this section and/or Appendix B, as appropriate.
- b. Subsection 8: Please revise this section to clarify how small quantities of identified household hazardous waste will be managed/disposed.

19. **Section 7.9:** Please revise this section to clarify that litter policing will occur at least on a daily basis.

20. **Section 7.10:** The reference to the intermediate soil cover being configured to "collect" stormwater appears confusing. Please revise this section to clarify that it will be configured to channel or convey stormwater to the stormwater management system.

21. **Section 8:**

- a. An October 23, 2009 e-mail from the permittee discuss activities that were to take place to rehabilitate the primary and secondary leachate collection system side slope riser pipes in Phases 1/1A (see attached e-mail and attachments).

- 1) Please verify the status of the proposed riser pipe rehabilitation (i.e. slip-lining and pump installation).
- 2) In the event that the rehabilitation has been completed, please provide a report of activities conducted, including a narrative describing the project, as-built drawings of the slip-lining, pump installation, and annular space backfilling/grouting conducted in each side slope riser pipe, and information on the installed pumps.
- 3) Based on the proposed and/or completed riser pipe rehabilitation, please revise the appropriate sections of Section 8 to discuss operation of the revised leachate system, including how leachate sampling is/will be conducted.

b. The Help Model analyses conducted as part of the Phase 3 construction permit application assumed that leachate is recirculated in Phase 3 once 30 ft of waste in place in Phase 3 at a rate of 3,552 gals/day. The maximum 4,663 gal/day indicated in this section was the assumed recirculation rate in Phases 2 and 3 over 70 ft of waste (see sub-section titled "Leachate Recirculation" in Section H.2.c.2 of the Engineering Report for Construction Permit #21375-013-SC/01). Please verify and revise this section to incorporate these phased leachate recirculation application rates into the leachate recirculation procedures provided.

22. **Section 8.1:** Please revise this section to describe how depth of leachate over the liner in Phases 1/1A and 2 is monitored.

23. **Section 8.2:** Please verify that stormwater is not collected, retained, and pumped from the working face area as part of routine operation of the leachate collection system and revise this section to clarify that this is a temporary activity to address unusual and unforeseen circumstances.

24. **Section 8.5:** Based on the sequence of fill proposed for the vertical expansion, the statement in this section that "... as landfilling in these areas [Phase 1/1A] reaches higher elevations larger areas will be subject to steeper slopes thus less leachate should be generated" no longer appears valid. Please verify and revise this section, as appropriate.

25. **Section 9:**

a. Please revise the narrative in the introductory paragraph to include Phase 3.

b. Please either revise Section 9 or another appropriate section of the Operations Plan to discuss the routine odor control and monitoring procedures for the facility.

c. Figure 9-1: Please revise Figure 9-1 to identify the depth of Probe GP-19.

26. **Appendix A:** Please revise the reduced-sized drawings in Appendix A, as applicable, based on the response to comments above regarding the drawings in Attachment E-1.

27. **Appendix B:** In December 2009 a revised Emergency Incident Plan (dated November 2009) was submitted to the Department's Hazardous Waste Section in response to comments provided as part of their inspection report of the facility. This revised report was both modified and reformatted and approval of the revised report is pending re-submittal of information and/or a revised report to address additional comments provided by the Department's Hazardous Waste Section. Therefore the report in Appendix B is outdated and was not reviewed at this time. Please verify and provide a copy of the approved report and attachments. The revised report will be reviewed upon receipt.

**SECTION S - FINANCIAL RESPONSIBILITY REQUIREMENTS (Rule 62-701.630, F.A.C.)**

28. **Attachment S-1:**

a. The January 6, 2010 revision to Chapter 62-701, F.A.C. included a revised financial assurance cost estimate form (DEP Form #62-701.900(28)). Please complete and submit the revised cost estimates information on DEP Form #62-701.900(28).

b. The closing and long-term care costs associated with the GCCS provided as part of the application for Construction Permit #21375-017-SC/08 do not appear to be included in the revised estimates. Please verify and revise the estimates accordingly.

c. With the exception of a minor change in the landfill footprint square footage calculated by CADD that increased the closing costs and a correction of a math error in groundwater monitoring well maintenance costs that slightly decreased the long-term costs, the cost estimates and supporting third-party quotes appear to be the same submitted and approved as part of Construction Permit #21375-013-SC/01. The cost estimates approved with the construction permit application were subsequently inflation-adjusted and approved by the Department on August 11, 2010 (copy of letter attached). Therefore the cost estimates provided with this application should reflect an increase based on the 2009 inflation factor (1.02). Please inflation-adjust the revised cost estimates accordingly.

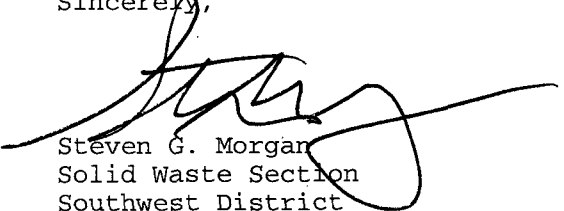
**This staff assessment is preliminary and is designed to assist in the review of the application prior to final agency action. The comments provided herein are not the final position of the Department and may be subject to revision pursuant to additional information and further review.**

**Please provide all responses that relate to engineering for design and operation, including plan sheets, signed and sealed by a professional engineer. Responses that relate to the facility operations should be included as part of the Operation Plan. All replacement pages should be numbered, and with revision date.**

Please respond by **April 21, 2010**, responding to all of the information requests and indicating when a response to any unanswered questions will be submitted. If the response will require longer than the above schedule, you should develop an alternate timetable for the submission of the requested information for Department review and consideration. If the Department does not receive a timely, complete response to this request for information, the Department may issue a final order denying your application. A denial for lack of information or response will be unbiased as to the merits of the application. The applicant may reapply as soon as the requested information is available.

Please provide **4 copies** of your response to this letter as one complete package. If there are points that must be discussed and resolved or you would like to set up a meeting to discuss this letter and subsequent submittals, please contact me at (813) 632-7600 ext. 385.

Sincerely,



Steven G. Morgan  
Solid Waste Section  
Southwest District

SM/sgm

Attachments

cc: Dominique Bramlett, P.E., SCS Engineers, [dbramlett@scsengineers.com](mailto:dbramlett@scsengineers.com)  
Patty Jefferson, Citrus County, [patty.jefferson@bocc.citrus.fl.us](mailto:patty.jefferson@bocc.citrus.fl.us)  
Fred Wick/Frank Hornbrook, FDEP, Tallahassee (e-mail)  
John Morris, P.G., FDEP Tampa (e-mail)  
Susan Pelz, P.E., FDEP Tampa (e-mail)

# Memorandum

# Florida Department of Environmental Protection

TO: Steve Morgan  
FROM: John R. Morris, P.G. *JRM*  
DATE: March 2, 2010  
SUBJECT: Citrus Central Class I Landfill, Citrus County  
Operation Permit Renewal Application, Pending Permit #21375-018-S0  
Environmental Monitoring Review Comments  
cc: Susan Pelz, P.E.

I have reviewed portions of the permit application materials submitted to the Department in support of the application for renewal of the Class I landfill operations permit that was prepared by SCS Engineers, on behalf of Citrus County Solid Waste Management Division, received February 1, 2010. My review focused on the hydrogeologic and environmental monitoring aspects of the application for the referenced permit and included the following:

- Document entitled "Citrus County Class I Central Landfill, Operations Permit Renewal Application," dated February 1, 2010 [referred to as the "**Engineering Report**"], including:
  - Department Form #62-71.900(1), signed and sealed February 1, 2010
  - Part I – Hydrogeological Investigation Requirements
  - Part M – Water Quality and Leachate Monitoring Requirements
    - Attachment M-1 – document entitled "Citrus County Landfill, Biennial Water Quality Monitoring Report, 2009" [referred to as the "**BWQMR document**"] prepared by SCS Engineers, dated February 1, 2010

Additional information is required to address the requirements of Rules 62-701.410 and 62-701.510, F.A.C., and to evaluate the adequacy of the proposed monitoring plan. Please have the applicant submit responses to the following review comments that provide revised submittals, or replacement pages to the submittals, that use a strike-through and underline format, or similar format, to facilitate review. Please also have the applicant include the revision date as part of the header/footer for all revised pages (including text, figures, tables, attachments, forms, plan sheets, etc.).

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

## **PART M – WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS**

(Rule 62-701.510, F.A.C.)

### **1. M.1.h.(2): Bi-annual report requirements signed, dated and sealed by PG or PE [Rule 62-701.510(9)(b), F.A.C.].**

- a. This item of the application form was identified with an "N/C" entry, however the BWQMR document provided in Attachment M-1 was submitted to provide an evaluation of the results reported for the monitoring events conducted between the second half 2007 and the second half 2009. Please submit a replacement page 33 of the application form for this item that references the BWQMR document.

Please submit revisions to the BWQMR document to address the following:

#### **Section 1 – Introduction**

- b. ¶3 of this section indicated that field work, sampling methodologies, data evaluation, and data Quality Assurance/Quality Control were conducted in accordance with the Standard Operating Procedures referenced in Chapter 62-160, F.A.C. Please submit revisions to the appropriate section of the BWQMR document to discuss the adequacy of the monitor wells and/or sampling methodologies and/or sampling equipment for those locations that report elevated dissolved oxygen [wells MW-1, MW-2, MW-3, MW-18 and MW-19] or elevated turbidity [wells MW-10 and MW-18] that do not meet the purging criteria in SOP FS 2200. Please specifically address the supplemental information required by FS 2212, Section 3.5.2 to determine if elevated dissolved oxygen and turbidity represent naturally occurring conditions.

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

*Printed on recycled paper.*

(Comment #1., continued)

Section 3 – Ground Water, Surface Water, and Leachate Monitoring Program

c. The last ¶ of the sub-section entitled “Surface Water Monitoring Program” [top of page 3-3] referred to semi-annual reporting of results for surface water sampling events conducted at the facility, however Specific Condition #E.10.b.4., of permit #21375-008-SO requires submittal of “discharge sampling event” results within 60 days from completion of laboratory analyses. Please submit revisions to this section to refer to reporting of surface water discharge sampling events.

d. The sub-section entitled “Zone of Discharge” referred to monitor well construction details in Table 3-3. Please submit revisions to this section to refer to Table 3-2.

e. ¶2 of the sub-section entitled “Floridan Aquifer Ground Water Quality” referred to the tables presented in Appendix C that listed water quality detections and exceedances. Selected entries of the tables in Appendix C appear to be inconsistent with the results of the routine sampling events conducted during the review period. Please review the following results and submit revisions, as appropriate:

Well MW-13

- 1) January 2009 sampling event: total xylenes reported as <0.5 µg/L rather than “not analyzed”
- 2) April 2009 sampling event: total xylenes reported as <0.5 µg/L rather than “not analyzed”
- 3) July 2009 sampling event: total xylenes reported as <0.5 µg/L rather than “not analyzed”
- 4) August 2009 sampling event: total xylenes reported as <0.5 µg/L rather than “not analyzed”

Well MW-19

5) July 2007 sampling event: specific conductance was reported on the Sampling Log as 168 µmhos/cm rather than 1.68 µmhos/cm. While the ENCO Laboratories report of results also indicated a specific conductivity value of 1.68 µmhos/cm, review of the field data for the July 2007 sampling event and the range of specific conductivity values reported for the other events at well MW-19 during the review period appear to indicate the higher value is more representative of conditions at this location.

f. ¶2 in the sub-section entitled “Metals Exceedances – Lead” referred to the exceedances of the primary ground water standard reported for well MW-3 in samples collected during July 2007 and July 2008. Please submit revisions to this section to also discuss the exceedances of lead reported for well MW-10 in the samples collected during January 2009 and July 2009.

g. ¶3 in the sub-section entitled “Organic Parameters Exceedances – Benzene” indicated the samples collected from well MW-10 during the review period were reported at concentrations within the historical range of data. Please submit revisions to this section to also indicate that a benzene concentration of 2.5 µg/L was reported for samples collected from well MW-10 during the July 2007, January 2008 and July 2009 sampling events. Please submit additional revisions to this section to indicate that a concentration of benzene at 2.5 µg/L represented the high end of the range of concentrations reported for well MW-10.

h. ¶4 in the sub-section entitled “Organic Parameters Exceedances – Benzene” referred to “Poor Quality Ground Water criterion.” Please submit revisions to this section to be consistent with the response to comment #1.m., below.

i. ¶2 in the sub-section entitled “Organic Parameters Exceedances – Bromodichloromethane and Dibromochloromethane” referred to “Poor Quality Ground Water criterion.” Please submit revisions to this section to be consistent with the response to comment #1.m., below.

j. ¶3 in the sub-section entitled “Organic Parameters Exceedances – Methylene Chloride” referred to “Poor Quality Ground Water criterion.” Please submit revisions to this section to be consistent with the response to comment #1.m., below.

(Comment #1., continued)

k. ¶2 in the sub-section entitled "Organic Parameters Exceedances – Vinyl Chloride" indicated the exceedance of the sample collected from well MW-18 during January 2008 was "considered to be an outlier and is not meaningful." This statement does not appear to be consistent with the detectable concentrations of vinyl chloride that were reported for the samples collected during July 2008 [0.22 µg/L], January 2009 [0.71 µg/L], and July 2009 [0.91 µg/L]. Please review this inconsistency and submit revisions, as appropriate.

l. ¶5 in the sub-section entitled "Organic Parameters Exceedances – Vinyl Chloride" referred to "Poor Quality Ground Water criterion." Please submit revisions to this section to be consistent with the response to comment #1.m., below.

m. ¶1 in the sub-section entitled "Applicability of Poor Quality Ground Water" Criteria requested that the ground water of low yield/poor quality criteria listed in Chapter 62-777, F.A.C., be applied to the facility. ¶2 in the same sub-section referred to Rule 62-780.680(2)(c)1, F.A.C., which allows the use of the low yield/poor quality CTLs presented in Chapter 62-777, F.A.C., Table I for ground water within the property boundaries. Please note that Rule 62-780.680(2), F.A.C., presents the requirements for a No Further Action, Risk Management Options Level II conclusion to be met for the Department to approve a Site Assessment Report. Please also note that Rule 62-780.680(2)(c)1, F.A.C., requires an institutional control (i.e., a deed restriction) be applied, and may require an engineering control be applied to the source property to protect human health, public safety, and the environment agreed to by the current real property owner. Furthermore, Rule 62-780.680(2)(c), F.A.C., requires a minimum of one year of ground water monitoring data that demonstrates ground water contaminant concentrations at the property boundary do not, and will not exceed the appropriate ground water CTLs specified in Rule 62-780.680(1)(c)1, F.A.C. [i.e., the ground water CTLs in Chapter 62-777, F.A.C., Table I ground water criteria column, background concentrations, or the best achievable detection limits]. As site assessment activities have not been initiated in the vicinity of wells MW-13 and MW-15 to demonstrate ground water quality in areas downgradient from these locations at the property boundaries meet ground water standards, an institutional control has not been prepared for the impacted areas, and the need for an engineering control has not been determined, it is not appropriate to apply the low yield/poor quality CTLs to monitoring results reported for the facility. Please submit revisions to this section and all related sections of the BWQMR document to delete the reference to poor quality ground water criteria.

Section 4 – Adequacy of Monitoring Program

n. The sub-section entitled "Floridan Aquifer Monitoring Adequacy – Floridan Aquifer Well Locations" indicated that the four existing background well locations (MW-1R, MW-2, MW-3 and MW-7) appeared to provide sufficient background data for the facility. Please submit revisions to this section to evaluate the adequacy of the locations of intermediate well MW-6 and of compliance wells MW-10 through MW-15, and compliance well MW-17 to provide sufficient data for areas downgradient of the disposal footprints at the facility.

o. Please submit revisions to the appropriate sub-section of the BWQMR document to provide hydrographs for all monitor wells for the review period [Rule 62-701.510(9)(b)1, F.A.C.].

p. Please submit revisions to the appropriate sub-section of the BWQMR document to provide an interpretation of the ground water contour maps for the review period [Rule 62-701.510(9)(b)7, F.A.C.].

q. Please submit revisions to the appropriate sub-section of the BWQMR document to provide an evaluation of ground water flow rates for the review period [Rule 62-701.510(9)(b)7, F.A.C.].

r. Please submit revisions to the appropriate sub-section of the BWQMR document to provide an evaluation of the adequacy of the ground water monitoring frequency based on site conditions [Rule 62-701.510(9)(b)8, F.A.C.].

(Comment #1., continued)

s. Please submit revisions to the appropriate sub-section of the BWQMR document to provide an evaluation of the adequacy of the sampling locations based on site conditions [Rule 62-701.510(9)(b)8, F.A.C.]. The attached table summarizes monitor well construction details and water levels measured at the current monitor wells since the compliance wells were installed. Please evaluate the appropriateness of the screened intervals at wells MW-2 and MW-6 to allow collection of representative ground water samples from the uppermost aquifer at the facility. In the event that replacement wells are proposed, please submit revisions to the monitoring plan submitted with the application for the Phase 3 construction permit (JEA document entitled "Citrus County Central Landfill, Water Quality and Leachate Monitoring Plan," dated November 2008).

t. Specific Condition #E.10.c., of permit #21375-008-SO/01 follows:  
The permittee shall implement corrective actions at the facility to address exceedances of ground water standards reported for monitor wells at the south and west property boundaries in accordance with Consent Order OGC File No. 05-1078 [ref. SC#A.2.c.]. Any proposed changes to the monitoring plan (monitoring well locations, sampling frequency or monitoring parameters) that result from the implementation of these corrective actions shall require a modification to the permit in accordance with Specific Condition Nos. A.3., and E.5., prior to the implementation of the monitoring plan changes.

Based on the concentrations of vinyl chloride reported for the most recently submitted sampling events conducted at well MW-13 [7/09 @ 1.2 µg/L; 8/09 @ 1.7 µg/L] and at well MW-15 [7/09 @ 1.1 µg/L; 8/09 @ 1.2 µg/L], it appears that exceedances of the ground water standard have been confirmed at the edge of the zone of discharge at these locations. Please submit the results of the routine semi-annual ground water sampling event conducted during the first half 2010 with the responses to these review comments. Please submit revisions to Section 4 of the BWQMR document to evaluate the trend of vinyl chloride concentrations at wells MW-13 and MW-15 (including the first half 2010 sampling event results) and determine if it is appropriate to conduct corrective actions in accordance with Specific Condition #E.10.c., at this time.

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

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

jrm

Attachment – Table entitled "Ground Water Elevation Summary, Citrus Central Landfill, Citrus County"



Ground Water Elevation Summary, Citrus Central Landfill, Citrus County

	Monitor Well Identification Number													
	MW-1R	MW-2	MW-3	MW-6	MW-7	MW-10	MW-11	MW-12	MW-13	MW-14	MW-15	MW-17	MW-18	MW-19
Top of Well Screen Elevation	3.1	-9.7	16.5	6.5	11.7	14.9	13.3	14.7	13.2	12.7	14.2	13.4	16.4	-16
Bottom of Well Screen Elevation	-6.9	-24.7	1.5	-3.5	-8.3	-5.1	-6.7	-5.3	-6.8	-7.3	-5.8	-6.6	-3.6	-26
Lithology in Screened Interval	Limestone	Silty sand	Silty sand	N/A	N/A	Clayey sand & silty clayey sand	Limestone & clayey sand	Limestone & clayey sand	Limestone, clay & silty clay	Sand, sandy clay & limestone	Sand	Sand, clay & sandy clay	Sand	Sand
Ground Water Elevation														
11/16/05						7.84	6.37	6.35	6.65	6.37	6.98	6.55		
7/17/06	5.33	6.86	6.27	6.52	6.45	6.06	5.15	4.83	5.35	5.15	5.57	5.29		
1/25/07	4.83	6.21	5.73		5.93	5.94	4.89	4.98	5.29	4.98	5.41	5.14		
2/28/07	4.76					5.81								
7/17/07	4.43	5.37		5.33	5.09	5.59	4.58	4.75	4.86	4.65	4.86	4.81	5.15	5.27
1/21/08	4.8	5.72		5.9	5.47	5.64	4.79	4.95	5.05	4.85	5.12	5.04	5.48	5.65
7/22/08	5.27	5.98	6.18	6.33	5.80	6.06	5.47	5.58	5.52	5.55	5.45	5.64	6.02	5.98
1/26/09	5.03	7.09	6.89	6.89	6.84	7.00	5.26	5.38	5.68	5.36	5.88	5.59	6.89	6.83
7/20/09	5.29	6.45	6.76	6.42	6.17	6.44	5.60	5.72	5.78	5.70	5.80	5.92	6.30	6.31
MAXIMUM	5.33	7.09	6.89	6.89	6.84	7.84	6.37	6.35	6.65	6.37	6.98	6.55	6.89	6.83
MINIMUM	4.43	5.37	5.73	5.33	5.09	5.59	4.58	4.75	4.86	4.65	4.86	4.81	5.15	5.27

All elevations reported in feet NGVD

NOTE: 4.83 = top of well screen submerged below water table surface

- Lithology of screened interval at wells MW-1R, MW-2 and MW-3 from JEA document received 7/21/01 as part of operating permit renewal
- Lithology of screened interval at wells MW-10 through MW-15, and MW-17 from document entitled "Citrus County Central Landfill Ground Water Investigation Report," prepared by JEA, dated September 2006
- Lithology of screened interval at wells MW-18 and MW-19 transmitted via letter prepared by JEA dated 4/11/07

s\_w/firm/citrus/xls/citentr.gw\_levels

3/1/10

Steve m.

**Southwest District  
Permitting Application**

New Site

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

Existing Site

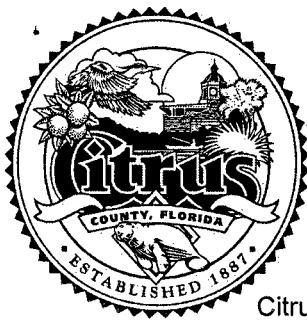
Site ID: 21375 - 018		
Project Name: CITRUS COUNTY CLASS I LFOI RENEWAL	WACS ID#:	39859
Type/Subcode: SO/01	New / Modification	<u>Renewal</u>
Fee submitted: \$10,000	<input checked="" type="checkbox"/> correct	( ) incorrect
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Applicant Information

Name: CASEY STEPHENS	
Role: APPLICANT	
Company: CITRUS COUNTY BOCC	
Address:	
City: ON-FILE	Zip Code:
Phone:	

Fee verified by: S. MORGAN

Application Assigned To: S. MORGAN Date: 2/4/10



**Board of County Commissioners**  
**DEPARTMENT OF PUBLIC WORKS**  
**SOLID WASTE MANAGEMENT DIVISION**

P.O. Box 340, Lecanto, Florida 34460

Telephone: (352) 527-7670 FAX: (352) 527-7672

email: [landfillinfo@bocc.citrus.fl.us](mailto:landfillinfo@bocc.citrus.fl.us)

TDD Telephone: (352) 527-5303

Citrus Springs/Dunnellon/Inglis/Yankeetown area Toll Free (352) 489-2120

**Document Transmittal**

Certified Return Receipt Requested  
7005 1820 0006 7377 0658

Dept. Of Environmental Protection  
**FEB 01 2010**  
Southwest District

TO: SCS Engineers

Att: Dominique Bramlett

FROM: Cathy Winter, Contract Services Specialist  
Citrus County, Division of  
Solid Waste Management  
Fax #352/527-7672  
Phone 352/527-7670

**Re: Citrus County Landfill Operating Permit Renewal**

Transmittal Date: January 13, 2010

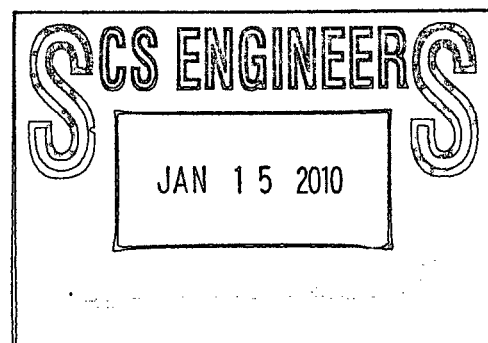
Enclosed please find the following:

- Check #317258 payable to the Department of Environmental Protection for the permit renewal fee in the sum of \$10,000.00.

If you should have any questions, please call me or Casey Stephens at 527-7670.

Thank you.

CC: Casey Stephens, Director – route to 30 day file



## SCS ENGINEERS

February 1, 2010  
File No. 09208040.03

Mr. Steve Morgan  
Solid Waste Program  
Florida Department of Environmental Protection  
Southwest District  
13051 N. Telecom Parkway  
Temple Terrace, FL 33637-0926

Dept. Of Environmental Protection  
FEB 01 2010  
Southwest District

Subject: Application for Operations Permit Renewal  
Class I Central Landfill  
Citrus County, Florida

Dear Mr. Morgan:

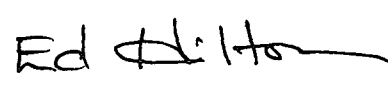
On behalf of the Citrus County Board of County Commissioners, SCS Engineers (SCS) hereby provides four sets of the original permit application for the operations permit renewal of the Class I Central Landfill located in Citrus County Florida. Also included is a check in the amount of \$10,000 for the permit application fee. Please note that there is included in this package one set of the videos of the pipe system.

If you have any questions concerning this submittal please feel free to give us a call.

Very truly yours,

  
2/1/10  
Dominique H. Bramlett, P.E.  
Project Manager  
SCS ENGINEERS

CEH/DHB:ceh

  
C. Ed Hilton, Jr. P.E.  
Vice President  
SCS ENGINEERS

cc: Casey Stephens, Citrus County, with enclosures

Enclosures