

Phase II construction

Memorandum

Florida Department of
Environmental Protection
Solid Waste SectionTALLAHASSEE SOLID WASTE PROGRAM
TECHNICAL SUBMITTAL/DOCUMENT FORWARDING MEMO

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

Date: February 18, 2009

Facility: Hardee County Class I LF, Hardee County

WACS Id: 40612

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

These documents WILL BE/HAVE BEEN input into OCULUS by the SWD.

DOCUMENT/SUBMITTAL

Response to Request for Additional Information,
Hardee County Landfill, Phase II Section I
Landfill Expansion, Construction Certification,...
prepared by SCS Engineers

one -
spiral bound
document

DATE
April 29, 2008
(rec'd 04/29/08)

Hardee County Phase II Section I Construction
Expansion, Minor Construction Permit
Modifications,... prepared by SCS Engineers

One - spiral
bound document

October 3, 2006
(rec'd 11/13/06)

COPY/FYI ONLY

X

FOR YOUR REVIEW

FOR YOUR REVIEW & COMMENT

BY



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Ms. Teresa Carver, Director
Hardee County Solid Waste Department
685 Airport Road
Wauchula, Fl. 33873

May 1, 2008

RE: Hardee County Landfill
Construction permit 38414-008-SC/01
Phase II, Section I (Construction Certification
WACS Facility Id.: 40612

Dear Ms. Carver:

The Department has reviewed the following documents prepared by SCS Engineers (unless otherwise noted) related to the certification of construction completion of the Hardee County Phase II Section I Class I landfill:

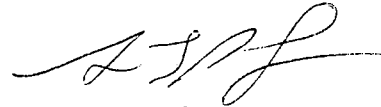
1. Monthly Progress Reports, Phase II Section I Landfill Expansion Construction, Hardee County,... (1 volume) dated September 2006 (received September 26, 2006) (note: the Department has placed all Monthly progress reports in this binder);
2. Certification of Construction Completion Report Hardee County Landfill Phase II Section I Landfill Expansion,... (2 volumes), dated June 4, 2007 (received June 5, 2007);
3. Drawings titled, Hardee County Landfill Expansion Construction Drawings Phase II Section I,... (Record Drawings) dated May 2007 (received June 5, 2007) (16 sheets);
4. Response to Request for Additional Information,... dated April 29, 2008 (received April 29, 2008) (spiral bound document) and DVD of leachate collection system pipe inspection received May 1, 2008.

In addition to reviewing these documents, the Department conducted an inspection of the Phase II, Section I construction on June 25, 2007.

Based on the information submitted, the Department approves the operation of the Phase II, Section I Class I Landfill expansion in accordance with Operation Permit #38414-011-SO/01. Please be reminded that operation in Phase II, Section I is not authorized until Operation Permit #38414-011-SO/01 is issued.

If you have any questions, please contact me at (813) 632-7600
ext. 386.

Sincerely,



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

sjp

cc: Shane Fischer, P.E., SCS Engineers, Inc., 3012 US Hwy 301 N., Ste. 700,
Tampa, FL 33619
Richard Tedder, P.E., FDEP Tallahassee (email)
Fred Wick, FDEP Tallahassee (email)
Mara Nasca, FDEP Tampa Air (email)
Douglas Hyman, P.E., FDEP Tampa, ERP (email)
Roger Evans, FDEP Tampa (email)
Steve Morgan, FDEP Tampa (email)

SCS ENGINEERS

April 29, 2008
File No. 09199033.16

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Dept. Of Environmental Protection

APR 29 2008

Southwest District

Subject: Response to Request for Additional Information
Hardee County Landfill
Phase II Section I Landfill Expansion Construction Certification

Dear Ms. Pelz:

SCS Engineers (SCS) previously submitted to the Florida Department of Environmental Protection (FDEP) on August 31, 2007 responses to the Request for Additional Information (RAI) No. 1 regarding the Hardee County Landfill Phase II Section I Landfill Expansion Construction Certification.

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS submits the following responses to your email request dated April 20, 2008 for additional settlement calculations for the leachate collection system (LCS) and groundwater interceptor piping. In addition, soil boring logs, a plan view of the LCS piping, a plan view of the groundwater interceptor piping and a final buildout site plan has been provided which identifies the settlement points that were analyzed. It is the professional opinion of SCS that the slopes of the LCS and groundwater interceptor piping are sufficient both before and after settlement to efficiently remove leachate.

SCS has included two signed and sealed copies of the additional LCS and groundwater interceptor piping settlement calculations.

Please do not hesitate to call should you have any questions or require additional information.

Hardee County's Phase I landfill area is quickly approaching capacity. Any efforts that can be made to expedite this information so the County may receive approval from the Department for operation within the Phase II Section I Landfill Expansion area is greatly appreciated.

Sincerely,


Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS



C. Ed Hilton, P.E.
Vice President/Solid Waste Division Director
SCS ENGINEERS

SRF/CEH:srf


cc: Teresa Carver, Hardee County Solid Waste Director

Memorandum

Florida Department of
Environmental Protection
Solid Waste Section

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

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

DATE: 09/05/2007 

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

DOCUMENT/SUBMITTAL

DATE

Response to request for Additional Information
Certification of Construction Completion Report
Hardee County Landfill Phase II, Section I Landfill
Expansion, prepared by SCS Engineers

One - August 31, 2007
3-ring (rec'd 8/31/07)
binders

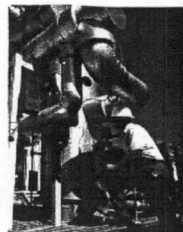
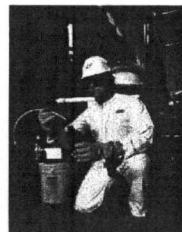
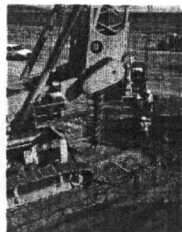
COPY/FYI ONLY X

FOR YOUR REVIEW

FOR YOUR REVIEW & COMMENT BY

COMMENTS:

This document to be scanned in SWD



**Response to Request
For Additional Information
Certification of Construction Completion Report
Hardee County Landfill
Phase II Section I Landfill Expansion**

Presented to:
Hardee County



Board of County Commissioners
c/o Teresa Carver, Solid Waste Director
685 Airport Road
Wauchula, Florida 33873
(863) 773-5089

Presented by:

SCS ENGINEERS

4041 Park Oaks Blvd., Suite 100
Tampa, Florida 33610
(813) 621-0080
June 4, 2007

File No. 09199033.16
August 31, 2007

Offices Nationwide
www.scsengineers.com

7AL
FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
AUG 31 2007
SOUTHWEST DISTRICT
TAMPA



Florida Department of Environmental Protection

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

38414
Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Ms. Teresa Carver, Director
Hardee County Solid Waste Department
685 Airport Road
Wauchula, Fl. 33873

July 3, 2007

RE: Hardee County Landfill
Construction permit 38414-008-SC/01
Phase II, Section I Construction Certification

Dear Ms. Carver:

The Department has reviewed the following documents prepared by SCS Engineers (unless otherwise noted) related to the certification of construction completion of the Hardee County Phase II Section I Class I landfill:

1. Monthly Progress Reports, Phase II Section I Landfill Expansion Construction, Hardee County,... (1 volume) dated September 2006 (received September 26, 2006) (note: the Department has placed all Monthly progress reports in this binder);
2. Certification of Construction Completion Report Hardee County Landfill Phase II Section I Landfill Expansion,... (2 volumes), dated June 4, 2007 (received June 5, 2007); and
3. Drawings titled, Hardee County Landfill Expansion Construction Drawings Phase II Section I,... (Record Drawings) dated May 2007 (received June 5, 2007) (16 sheets).

In addition to reviewing these documents, the Department conducted an inspection of the Phase II, Section I construction on June 25, 2007. Based on the information submitted, the Department **does not approve** the operation of the Phase II, Section I Class I Landfill expansion, at this time.

The following information is needed to fully evaluate the construction activities with respect to compliance with the construction permit 38414-008-SC/01, and Department rules. Please respond to the following comments and/or provide the following information:

1. Please submit 2 **copies** of all requested information. Please submit all revised plans and reports as a complete package. If possible, please provide revised pages which may be inserted into the original submittal (holes punched for a three-ring binder). 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.

**Certification of Construction Completion Report Hardee County Landfill
Phase II Section I Landfill Expansion,...** dated June 4, 2007 (received
June 5, 2007)

Volume I of II

2. **Section 2, Plans and Specifications.** Please identify the detail on the drawings that show the change in the forcemain tie-in.

3. **Section 3, Attachment 3-1, Daily Field Reports (DFR).**

a. Please provide reports, or explain why no reports exist, from 9/12/06 through 9/15/06.

b. 10/12/06. Please clarify which photos (in Section 10) show the pipeline installation between MH 6 and MH 7 as described in this daily report.

c. 12/09/06. Please clarify which groundwater sample was collected by Nodarse as described in this report and if the results have been submitted to the Department.

d. 01/18/07. Please clarify which daily reports include observation of destructive tests SDS 1 through SDS 14.

e. 01/29/07. Please specify which destructive tests were shipped to TRI as documented in this report.

f. 02/27/07 & 02/28/07. Please specify the detail on the drawing and which photographs show the leachate "discharge pipe for tie in."

g. 03/13/07. Please specify the detail on the drawing and which photographs show the "toe drain."

4. **Section 4, Preliminary Sitework.**

a. Attachment 4-4, Leachate piping survey. The Record Survey in this attachment appears to indicate that the north LCS pipe in Phase II (approx. 0.41% slope) and the replacement LCS piping between MH 7 and MH 8 (0.18%) were not constructed in accordance with the approved plans. Please provide revised calculations based on the expected settlement at final buildout that demonstrates that these pipes will continue to perform as designed.

(Comment #4 cont'd)

b. Attachment 4-5, Groundwater control piping survey. The Record Survey in this attachment appears to indicate that several portions of the groundwater interceptor piping were not constructed in accordance with the approved plans (design slope=0.5%, as-built slopes as flat as 0.09%). Please provide revised calculations based on the expected settlement at final buildout that demonstrates that these pipes will perform as designed.

c. Attachment 4-7, Subbase survey. Please clarify the contours shown on this sheet. It appears that the contour lines do not correlate with the design or as-built elevations. Please add a note to this sheet that defines the contour lines as appropriate.

5. **Section 5, Geosynthetic Clay Liner.** Please confirm that there were no repairs to the GCL or areas that were damaged or pre-hydrated and needed to be replaced.

a. Attachment 5-1, Placement logs. Please explain why the printed name and signature on the GCL Placement Log (Sheet 11 of 11) are different and confirm who the CQA monitor was on that date (1/18/07).

b. Attachment 5-3, TRI conformance tests. Please note that the TRI reports identify the required hydraulic conductivity as 1×10^{-8} cm/sec max. However, the project specifications require 5×10^{-9} cm/sec. max. Since all of the CQA tests met the project requirements, **this comment is for information only and does not require a response.**

c. Attachment 5-4, GCL hydraulic conductivity testing. Please clarify which rolls were tested. Rolls #5162, #9661 and #9722 do not appear to have been included on the packing list for this project (see Attachment 5-2). Please provide hydraulic conductivity tests for materials used on this project. Please specify the back pressure utilized during the test.

Volume II of II

6. **Section 6, Leachate Collection and Detection System.**

a. Attachment 6-1, Florida Jet Clean report.

1) Several of the video logs of the leachate collection system piping are not viewable (i.e., screen is just black or all that is visible is the rope that the camera was attached to). The video inspection is intended to document that there were no obstructions in the pipes or failures of the pipe, low areas, ponding water, and if the perforations are aligned and functioning properly. Please review each of the leachate collection video inspections and verify that this information can be ascertained from the inspection. The inspection of the piping from MH 6 to MH 7 and MH 7 to MH 8 meets these objectives.

2) Please provide revised log sheets that document the occurrence of sediment and ponded water in the LCS piping.

(Comment #6.a. cont'd)

- 3) Please clarify the source of the vapor that is seen on Cassette 5A, Sump Riser to North CO, at approximately 42 ft.

7. **Section 7, Geomembrane Installation Report**

- a. §7.10. Please revise this section to include the strength requirement for peel for wedge welded seams (98 ppi).
- b. Attachment 7-1, Comanco Primary
 - 1) Section E, Repair Records and Section F, As-Built Panel Layout. Please show repair #32 on the panel layout drawing.
- c. Attachment 7-9, SCS Secondary repair logs. Please provide revised log sheets that include repairs #R88-R90.
- d. Attachment 7-13, Secondary destructive test results. Please provide the TRI report for SDS-17 and SDS-17B1.
- e. Attachment 7-16, Geomembrane CQA conformance tests. Please clarify why the TRI results on Sheet 11 of 11 show 0 for the SP-NCTL test.
- f. Attachments 7-17 and 7-18, Interface friction angle test results.
 - 1) The GCL vs. subbase soil test appears to have been run at normal stresses that are greater than those required by the project. Please provide test results for this interface that use 1000, 3000 and 6000 psf normal stresses.

8. **Section 8, Geocomposite installation.**

- a. Table 9. Please revise this table to include the required transmissivity, MQC and CQA results.
- b. Attachment 8-5, Biplanar conformance tests. Sample id. #131216624 (TRI report, page 2 of 10) does not appear to have met the thickness requirement for the project. Please verify if this roll was used on the project.

9. **Section 10, Construction photographs.** Please provide a compact disk with all available photographs from the project.

Drawings titled, Hardee County Landfill Expansion Construction Drawings Phase II Section I, Record Drawings, dated May 2007 (received June 5, 2007) (16 sheets).

10. Please provide record drawings that identify (e.g., by "clouding" or symbol, etc.) the changes from the permitted plans.

Monthly Progress Reports, Phase II Section I Landfill Expansion
Construction, Hardee County,... dated September 2006 (received September 26, 2006)

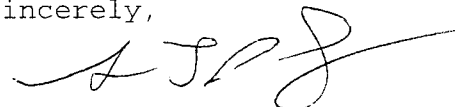
11. Report dated October 13, 2006 (received October 13, 2006).
 - a. Please clarify where the "water building up in the area for the pipe replacement" was discharged (Preconstruction Meeting minutes, Item #5).
12. Report dated November 15, 2006 (received November 15, 2006).
 - a. Please clarify where soils excavated from the cell are were used as borrow material (Meeting #6, page 3).

The following comments are for information only, at this time, and do not require an immediate response:

1. Please be advised that operation in Phase II, Section I is not authorized, at this time. Operation in Phase II, Section I cannot be authorized until the Department has approved the Construction Certification Documents and the pending operation permit modification.

Please provide the requested information within 30 days of the date of this letter. You are requested to submit two copies of your response to this letter together, as one complete package. If there are points which must be discussed and resolved, please contact me at (813) 632-7600 ext. 386.

Sincerely,



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

sjp

cc: Shane Fischer, P.E., SCS Engineers, Inc., 3012 US Hwy 301 N., Ste. 700,
Tampa, FL 33619
Richard Tedder, P.E., FDEP Tallahassee (email)
Fred Wick, FDEP Tallahassee (email)
Mara Nasca, FDEP Tampa Air (email)
Douglas Hyman, P.E., FDEP Tampa, ERP (email)
Roger Evans, FDEP Tampa (email)
Steve Morgan, FDEP Tampa (email)

SCS ENGINEERS

TO Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

DATE March 20, 2007

JOB NO. 09199033.16

ATTENTION Susan J. Pelz, P.E.

Re: Hardee County Phase II Section I

Construction Expansion Monthly Report

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____

☐ Shop drawings ☐ Prints

☐ Copy of letter ☐ Change Order

☐ The following items: ☐ Plans ☐ Samples

☐ Specifications ☐ _____

*Dept. of Environmental
Protection
MAR 20 2007*

COPIES	DATE	DESCRIPTION
1	3/20/07	Hardee County Phase II Section I Construction Expansion Monthly Report

THESE ARE TRANSMITTED as check below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ Copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ Copies distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ Corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 20 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS Susan,

Please find enclosed the monthly report for February 15, 2007 to March 17, 2007 for the Hardee County Landfill Phase II Section I
Landfill Expansion Construction.

Thank You

Shane

COPY TO File SIGNED: Shane R. Fischer, P.E.

If enclosures are not as noted, kindly notify us at once.

See Bond report

SCS ENGINEERS

Dept. of Environmental Protection

MAR 20 2007

Southwest District

March 19, 2007
File No. 09199033.16

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Subject: Monthly Progress Report - February 15, 2007 to March 17, 2007
Hardee County Landfill Phase II Section I
Landfill Expansion Construction
Construction Permit No. 38414-008-SC/01

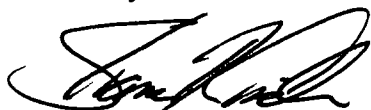
Dear Ms. Pelz:

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS Engineers (SCS) is submitting this Monthly Progress Report per Specific Condition Number B.6.b of the construction permit for the Hardee County Landfill Phase II Section I Landfill Expansion Construction. The attached monthly report covers the month of February 15, 2007 to March 17, 2007 and includes the following:


- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, piping, liner penetrations, etc.).
- 2) A summary of submittals and change order requests.
- 3) Progress meeting minutes.
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (i.e., liner penetrations, lift station construction, etc.).

Please place this Monthly Progress Report into the 3-ring Project Binder that was previously submitted to the Florida Department of Environmental Protection in September 2006.

Sincerely,



Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS


for C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

SRF/CEH:srf

cc: Teresa Carver, Hardee County



SCS ENGINEERS

TO Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

DATE February 15, 2007JOB NO. 09199033.16ATTENTION Susan J. Pelz, P.E.Re: Hardee County Phase II Section IConstruction Expansion Monthly Report

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____☐ Shop drawings ☐ Prints☐ Copy of letter ☐ Change Order☐ The following items: ☐ Plans ☐ Samples☐ Specifications ☐ _____

COPIES	DATE	DESCRIPTION
1	2/15/07	Hardee County Phase II Section I Construction Expansion Monthly Report

THESE ARE TRANSMITTED as check below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ Copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ Copies distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ Corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 20 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS Susan,

Please find enclosed the monthly report for January 15, 2007 to February 15, 2007 for the Hardee County Landfill Phase II Section I
Landfill Expansion Construction.

Thank You

Shane

**Dept. of Environmental
Protection****FEB 15 2007****Southwest District**COPY TO FileSIGNED: Shane R. Fischer, P.E. 

If enclosures are not as noted, kindly notify us at once.

*See Board Report*

SCS ENGINEERS

February 15, 2007
File No. 09199033.16

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION
FEB 15 2007
SOUTHWEST DISTRICT
TAMPA

Subject: Monthly Progress Report - January 15, 2007 to February 15, 2007
Hardee County Landfill Phase II Section I
Landfill Expansion Construction
Construction Permit No. 38414-008-SC/01

Dear Ms. Pelz:

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS Engineers (SCS) is submitting this Monthly Progress Report per Specific Condition Number B.6.b of the construction permit for the Hardee County Landfill Phase II Section I Landfill Expansion Construction. The attached monthly report covers the month of January 15, 2007 to February 15, 2007 and includes the following:


- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, piping, liner penetrations, etc.).
- 2) A summary of submittals and change order requests.
- 3) Progress meeting minutes.
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (i.e., liner penetrations, lift station construction, etc.).

Please place this Monthly Progress Report into the 3-ring Project Binder that was previously submitted to the Florida Department of Environmental Protection in September 2006.

Sincerely,



Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS


for C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

SRF/CEH:srf



SCS ENGINEERS

**Dept. of Environmental
Protection**

January 15, 2007
File No. 09199033.16

JAN 16 2007

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Southwest District

Subject: Monthly Progress Report - December 15, 2006 to January 15, 2007
Hardee County Landfill Phase II Section I
Landfill Expansion Construction
Construction Permit No. 38414-008-SC/01

Dear Ms. Pelz:

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS Engineers (SCS) is submitting this Monthly Progress Report per Specific Condition Number B.6.b of the construction permit for the Hardee County Landfill Phase II Section I Landfill Expansion Construction. The attached monthly report covers the month of December 15, 2006 to January 15, 2007 and includes the following:

- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, piping, liner penetrations, etc.).
- 2) A summary of submittals and change order requests.
- 3) Progress meeting minutes.
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (i.e., liner penetrations, lift station construction, etc.).

Please place this Monthly Progress Report into the 3-ring Project Binder that was previously submitted to the Florida Department of Environmental Protection in September 2006.

Sincerely,




Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS



C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

SRF/CEH:srf

cc: Teresa Carver, Hardee County
Offices Nationwide

(See Board Report) 

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

ENVIRONMENTAL ADMINISTRATOR
SOLID WASTE PROGRAM MANAGER

DATE: January 8, 2007

FILE NAME: Hardee Co. LF Phase II LF Exp.
PROGRAM : Solid Waste

Mod #38414-010-SC/MM to
PERMIT #: 38414-008-SC/01
COUNTY : Hardee

TYPE OF PERMIT ACTION: ISSUE

PUBLIC NOTICE PERIOD CLOSED? YES PETITION FILED? NO

PERMIT SUMMARY: This permit modification allows installation of a geosynthetic clay liner (GCL) instead of the 6-inch clay subbase below the double liner system. Revised slope stability calculations, specifications and CQA Plan were provided.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department Rules.

To 11/21/06	TIH=50, TTP=50	TTP
Application received	10/03/06	
Application complete	10/03/06	
Draft permit emailed to applicant for comment (No comments rec'd)	11/21/06	
Intent to Issue sent (day 58)	11/29/06	58
Proof of publication rec'd	12/13/06	
Application active (day=59)	12/27/06	
Final permit for routing	01/08/07	12

Total processing time (TIH)= 97 days (to 01/08/07)
Department processing time (TTP) = 80 days (to 01/08/07)

DAY 90/30 FOR THIS ACTION IS:

ASAP - (contractor has mobilized to site)

Day 90=01/27/07

UNITED STATES POSTAL SERVICE LAKELAND FL 338

17 JAN 2007 PM 2 T

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

JAN 19 2007

Southwest District



7004 1350 0002 5571 4572

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Teresa Carver, Director Hardee County Solid Waste Dept. 685 Airport Road Wauchula, FL 33873	
PS Form 3800, June 2002 See Reverse for Instructions	

Is your RETURN ADDRESS completed on the reverse side?

Issued Mod Permit # 38414-010-SC/MM

- SENDER:** to existing Permit 38414-008-SC/01
- Complete items 1 and/or 2 for additional services.
 - Complete items 3, 4a, and 4b. *Hard copy if Express*
 - Print your name and address on the reverse of this form so that we can return this card to you.
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1. ☐ Addressee's Address

2. ☐ Restricted Delivery

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3. Article Addressed to:

Teresa Carver, Director
 Hardee County Solid Waste Dept.
 685 Airport Road
 Wauchula, FL 33873

4a. Article Number

7004 1350 0002 551

4b. Service Type

- ☐ Registered ☒ Certified
- ☐ Express Mail ☐ Insured
- ☒ Return Receipt for Merchandise ☐ COD

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1-17-07

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

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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

Michael W. Sole
Secretary - Designee

CERTIFIED MAIL 7004 1350 0002 5571 4572
RETURN RECEIPT REQUESTED

January 12, 2007

NOTICE OF PERMIT

Hardee County Solid Waste Department
Ms. Teresa Carver, Director
685 Airport Road
Wauchula, Fl. 33873

RE: Hardee County Landfill
Geosynthetic Clay Liner modification
Modification #38414-010-SC/MM to existing
Construction Permit #38414-008-SC/01

Dear Ms. Carver:

Attached is modified Construction Permit 38414-008-SC/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 38414-010-SC/MM:

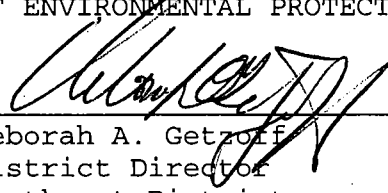
SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
General Information Table	Existing	Amended	Bottom liner layers-added GCL
A.2.d.	Existing	Amended	Clarify drawing reference
A.2.g.	N/A	New	References GCL documentation
A.9.d.	Existing	Amended	Clarify bottom liner elevation
B.4.b.,	Existing	Amended	Added reference to GCL
B.11.a(1), B.11.j., B.11.k., B.11.a(3)	N/A	New	GCL conformance testing
B.11.e.	Existing	Amended	Clarified interface friction angle testing
B.11.m.	N/A	New	GCL requirements

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

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

DAG/sjp
Attachment

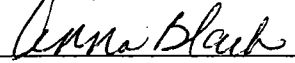
Copies furnished to:

C. Ed Hilton, P.E., SCS Engineers, Inc., 3012 US Hwy 301 North, Ste. 700, Tampa,
Fl. 33619-2242
Hardee County Board of County Commissioners
Hardee County Notification List
Patricia Comer, OGC Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
Fred Wick, FDEP Tallahassee
Permit Notebook

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on January 12, 2007 to the listed persons.
(date stamp)

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


Clerk

1-12-2007
Date



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary - Designee

PERMITTEE

Hardee County Solid Waste
Department
Ms. Teresa Carver, Director
685 Airport Road
Wauchula, Florida 33873

PERMIT/CERTIFICATION

WACS Facility ID No: SWD/25/40612
Permit No: **38414-008-SC/01**
Date of Issue: 02/27/06
Expiration Date: **02/27/11**
County: Hardee
Lat/Long: 27°34'17"N
81°46'58"W
Sec/Town/Rge: 35/33S/25E
Project: Hardee County Landfill
Phase II Construction

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

To **construct** an expansion of a Class I landfill (approximately 5 acres), referred to as the **Hardee County Landfill (Phase II, Section I)**, subject to the specific and general conditions attached, located specific and general conditions attached, **located at 685 Airport Rd., Wauchula, Hardee County, Florida**. The specific conditions attached are for the construction of:

1. Class I Landfill, Phase II, Section 1

and related appurtenances

Replaces Permit No.: N/A, new

Includes modification #38414-009-SC/MM, dated 08/08/2006, and
#38414-010-SC/MM, dated 01/12/2007

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 information, Phase II (unless noted):

Disposal acres	Approx. 5 acres (Phase II, Section I only) [ref. SC#A.2.a, Section S]
Lowest Bottom elevation of cell - NE corner of Phase II, Section I (Point 9C)	+79.2 ft. NGVD (pipe, pre-settlement), +78.66 ft. NGVD (pipe, post settlement) [ref. SC#A.2.d., Sheet 12 of 27; SC#A.2.a, Section J, <i>Settlement Calculations</i>] Bottom of GCL = +78.5 ft. NGVD [ref. SC#A.2.a, Section J, page 15] Amended 01/12/2007
Top elevation at final buildout (entire landfill-including cover)	max. +159.5 feet NGVD [ref. SC#A.2.a, Part H.1; SC#A.2.d., Sheet 14 of 27]
Sideslopes max.	3H:1V [ref. SC#A.2.d., Sheets 14, 16 and 17 of 27]
Liner system (bottom to top)	Groundwater interceptor layer; 12-inch compacted subgrade, geosynthetic clay liner (GCL) (5×10^{-9} cm/sec), 60 mil textured HDPE geomembrane, triplanar geocomposite (geotextile/geonet/geotextile), 60 mil textured HDPE geomembrane, biplanar geocomposite (geotextile/geonet/geotextile), 2-foot drainage sand [ref. SC#A.2.d., Detail 1/Sheet 24 of 27] Amended 01/12/2007
LCS drainage system	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec [ref. SC#A.2.d., Detail 1/Sheet 24 of 27; Spec. 02220-2.06] Two trenches draining from west to east. 8-inch SDR 11 HDPE perforated LCS piping. [ref. SC#A.2.d., Section A, Sheet 23 of 27, Detail 5, Sheet 24 of 27] LCS pipes drain to sumps on east side, then pumped through sideslope risers through forcemain to lift station; from lift station through existing HDPE force main to tanks [ref. SC#A.2.d., Sheets 9 and 19 of 27]
LDS drainage system	Triplanar geocomposite to sump, then same as LCS
Action leakage rate (ALR)	260 gal/ac/day [ref. SC#A.2.a, Part H.2.c.4, page H-14]
Design life	5 years [ref. Appl. Form #A.14.],
Interface friction angles	All interfaces=20.5°; GM/bi-planar composite drainage net (CDN) [Spec. 02776-2.02.F.]; GM/tri-planar CDN [Spec. 02776-2.02.G.], bi-planar CDN/soil [Table 02931-3, Note 2]; GCL/soil [Spec. 02077-2.01.G.]; GCL/GM [Spec. 02077-2.01.H.]. Amended 08/08/2006; 01/12/2007
Leachate storage tanks	Two epoxy painted steel, open top tanks; approximately 79,000 gallons each; secondary containment: tank in a tank nominal diameter= 30 feet, 16 ft tall

GENERAL CONDITIONS:

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

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

GENERAL CONDITIONS:

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

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

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

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

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

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

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

13. This permit also constitutes:

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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

2. **Permit Application Documentation.** This permit is valid for construction of the Phase II expansion of the Class I landfill and related systems (including but not limited to: lined Class I disposal unit, modification of leachate collection and removal system, groundwater interceptor system) in accordance with Department rules, and the reports, plans and other information prepared by SCS Engineers [SCS], Inc. (unless otherwise specified) as follows:

a. Hardee County Landfill Expansion, Construction Permit Application,... (Volumes I and II, 3-ring binders) dated April 2004 (received April 8, 2004), as revised, replaced or amended (information inserted into original) dated November 19, 2004, May 20, 2005 (received May 23, 2005 and July 27, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006). This information includes, but is not limited to:

1) Volume I, Attachment H-2, *Construction Quality Assurance Plan, [CQAP]*,
Replaced 08/08/2006 {See SC#A.2.f.}.

2) Volume I, Attachment H-1, *Technical Specifications [Specs.]*;
Replaced 08/08/2006 {See SC#A.2.f.}.

3) "Hardee County Phase II Section I Construction Expansion,... Geocomposite/HDPE Geomembrane Interface Friction Angle,..." dated May 9, 2006 (received May 18, 2006) and additional information dated July 7, 2006 (received July 10, 2006) (inserted into 3-ring binders listed in SC #A.2.a).
New 08/08/2006.

b. Responses to Request for Additional Information,... (three-ring bound document) dated November 15, 2004 (received November 19, 2004) as revised, replaced or amended May 20, 2005 (received May 23, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006) (attachments inserted into original [ref. SC#A.2.a];

c. Operations Plan for Hardee County Landfill,... (three-ring binder) dated November 19, 2004, as revised, replaced or amended May 20, 2005 (received May 23, 2005 and July 27, 2005), and January 24, 2006 (received January 25, 2006).

d. Plan Sheets titled, Hardee County Landfill Expansion Construction permit,... (29 sheets) dated April 2004 (received January 25, 2006) including sheets revised November 19, 2004, May 13, 2005, May 20, 2005, September 23, 2005, and December 2, 2005. Note: Conformed plan sheets received August 9, 2006 and October 3, 2006 (see SC#A.2.f. and #A.2.g.) **do not replace** the plan sheets (29 sheets) referenced in this condition.
Amended 01/12/2007

e. Operational drawings (reduced size), sheets OP-1 through OP-7, dated May 2005 (received May 23, 2005);

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

f. Conformed Documents, Phase II Section I Landfill Expansion, Hardee County,... dated June 20, 2006 (received June 29, 2006), including (replaces information in SC#A.2.a(1), and A.2.a(2) above):

- 1) Conformed Technical Specifications [Specs.]
- 2) CQA Plan (Exhibit A)

New 08/08/2006.

g. The following information that include GCL in bottom liner system in place of 6-inch low permeability soil, Hardee County Phase II Section I Construction Expansion, Minor Permit Modification,... (spiral bound document) dated October 3, 2006 (received October 3, 2006), including, but not limited to:

- 1) Specification Section 02077, Geosynthetic Clay Liner (inserted into documents ref. SC#A.2.f.),
- 2) Revised CQA Plan (inserted into documents ref. SC#A.2.f.).

New 01/12/2007

3. Permit Modifications.

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

b. This permit does not authorize landfill closure construction or construction of the Phase II, Section II Landfill. This permit does not authorize operation of the Phase II landfill.

4. Permit Renewal. No later than one hundred eighty (180) days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C.

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

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

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

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

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

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

d. The lowest cell bottom elevation is **+78.5 feet NGVD** (bottom of GCL/top of subgrade, pre-settlement at NE corner of Phase II, Section I) and the Phase II design includes a groundwater control layer below the liner system. However, in the event that subsequent groundwater monitoring indicates that the groundwater elevation is not effectively removed by the groundwater control layer, information that addresses the requirements of Rule 62-701.400(11), F.A.C. shall be submitted for Department review and approval. In the event that corrective actions are required, a permit modification may be required.

Amended 01/12/2007

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit authorizes the construction of the Phase II, Section I, Class I disposal facility, leachate force mains and related appurtenances (including groundwater control system). This permit does not authorize the **operation** of Phase II. Operation of Phase II shall require a new permit or modification of Operation Permit no. 38414-007-SO 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.

a. **Within sixty (60) days** after construction has been completed and **prior to the acceptance of waste**, the following activities shall be completed and submitted by the permittee, and shall be approved by the Department:

- 1) The owner or operator shall submit a Certification of Construction Completion, Form 62-701.900(2), signed and sealed by the professional engineer in charge of construction and quality assurance to the Department for approval, and shall arrange for Department representatives to inspect the construction in the company of the permittee, the engineer, and the facility operator.
- 2) The owner or operator shall submit Record Drawings/Documents showing all changes (i.e. all additions, deletions, revisions to the plans previously approved by the Department including site grades and elevations). The Record Documents shall include as-built plans details and elevations (survey) as appropriate.
- 3) The owner or operator shall submit a narrative indicating all changes in plans, the cause of the deviations, and certification of the Record Drawings/Documents by the Engineer to the Department.
- 4) The professional engineer of record shall submit to the Department a final report to verify conformance with the plans and specifications in accordance with Rules 62-701.400(7) and (8), F.A.C.

3. **Record Drawings/Documents.**

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

- 1) Location of all anchor trenches,
- 2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts);
- 3) Daily construction reports (CQA and general contractor);

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

- 4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;
 - 5) All geomembrane destructive test results;
 - 6) Copies of photographs documenting all stages of the construction project.
 - 7) Details for the groundwater control system, including but not limited to, elevations for piping; discharge location details, etc.;
 - 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken; and
 - 9) Surveys of the top of subgrade, and top of drainage sand layer for the constructed cell (including sideslopes) (see Response #H.2.d.3., dated November 19, 2004).
- b. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed no lower than **+79.2 feet NGVD (at NE corner of Section 1 LCS)** [ref. SC#A.2.d., Sheet 12 of 27], or as otherwise approved by the Department.

4. Pre-Construction Submittals.

- a. **At least thirty (30) days prior** to initiation of construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:
 - 1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. If no changes have been made to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction;
 - 2) The borrow source qualification information required by Rule 62-701.400(8)(c), F.A.C., for the low permeability soil materials [see Spec. 02212-1.03.C.1.]. The Borrow Source Report shall demonstrate that the low permeability soil material meets the required hydraulic conductivity at the 98% confidence level [Spec. 02212-2.02.B.1.]; and
 - 3) The role and name of the specific company/organization for each of the parties in the Project team [CQAP Figure 1].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

b. **At least 30 days prior to initiation** of installation of the geosynthetics, the results of the interface friction testing using actual construction materials shall be submitted to the Department [ref. SC#A.2.a., Part H.2.d.7., page H-16; Spec. 02776-1.04.A.13 & 14, 02776-2.02.F & G.]. The results must demonstrate that each liner system interface exhibits a minimum safety factor of 1.5 against sliding. Placement of the GCL shall not proceed prior to the Engineer's receipt of the results of the interface friction testing which meet the requirements of this condition.

Amended 01/12/2007

c. **Prior to initiation of construction**, the Permittee shall submit a copy of the contractor's dewatering plan to the Department for review. [See Spec. 02140-1.03.A.] Two copies shall be provided: one copy to the Solid Waste Section, and one copy to the Industrial Wastewater Section. In the event that a dewatering permit is required by the Department's Industrial Wastewater Section, dewatering shall not proceed until that permit is obtained. Dewatering water shall only be discharged into areas that have been properly prepared to receive the discharge [Spec. 02140-3.02.F.].

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

- 1) the construction of groundwater control system;
- 2) connection of new LCS and LDS to lift station and/or manholes;
- 3) the construction of liner penetrations;
- 4) spark testing of any welds; and
- 5) seaming performed using a method other than double-fusion (wedge) or extrusion welding.

e. **At least 1 week prior to full scale construction** of the low permeability soil layer, the permittee shall submit the Test Section Report [Spec. 02212-1.03.D.] to the Department.

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

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

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

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

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

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

7. Construction Tolerances.

a. Invert elevations of the leachate collection pipes shall be recorded at least every 50 feet to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. The tolerance for the elevations of the top of the leachate collection/detection trenches, and invert elevations of piping above the liner system shall be ± 0.10 ft. The leachate collection/detection sumps, trenches, piping shall be constructed no lower than the elevations specified on the drawings.

c. As-built topographic surveys shall demonstrate that each liner component, groundwater control system, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance required by the Drawings and Specifications.

d. The sand drainage layer shall be constructed to a minimum installed thickness of 24 inches.

8. Construction Quality Assurance.

a. Liner and leachate collection systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#A.2.a(1)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference. Work shall not be concealed until required information is recorded. [Spec. 01300-1.07.B.; CQAP 7.0.]

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.2 and #B.3.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetic materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week** in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

g. Where sod is used over lined areas, pegging of sod shall not damage the liner.

h. All portions of the leachate collection system, liner and groundwater control system construction shall be observed and documented by the CQA Consultant.

i. CQA daily reports shall include weather conditions (e.g., precipitation, temperature).

j. Areas to be backfilled, including trenches, shall be free of building debris, rubbish, and water.

k. Runoff from stockpiled soils shall not discharge to surface water bodies or wetlands such that Department surface water standards are violated at the point of discharge.

l. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

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

SPECIFIC CONDITIONS: PART B - Construction Requirements

10. Soil Materials.

a. Surfaces adjacent to geosynthetics (including the subgrade) shall be smooth and free of depressions, rocks, stones, sticks, roots, sharp objects, or debris.

b. The low permeability soil shall be free from organics, roots, rubbish, debris or rocks greater than ¼ inch in any dimension, sticks greater than ¼ inch in diameter, calcareous deposits or any other deleterious material [Spec. 02212-2.01.B; 02776-3.03.A.].

c. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec. [Spec. 02220-2.06.A.] A sufficient number of permeability tests shall be performed on the drainage sand material to demonstrate the required permeability [see Table 02220-3].

d. Soils shall not be imported or used for construction in the low permeability soil layer until approved by the Department [see Spec. 02212-1.03.C.2.c.].

e. In the event that portions of the low permeability soil layer must be replaced, a minimum of 4 additional permeability tests shall be conducted for each area of low permeability soil to be retested [Spec. 02212-3.03.G.]. Hydraulic conductivity tests for the low permeability soil layer shall be conducted in accordance with ASTM D5084. Two stage borehole procedures shall not be used exclusively [See CQA 5.3.2.].

f. The frequency of thickness, moisture content, permeability and density tests listed in Table 02212-3 shall be doubled for the first 5 acres of low permeability soil installation as required by Rule 62-701.400(8)(e), F.A.C. The frequency of the tests listed in Table 02212-4 shall be doubled for the first 5 acres of low permeability soil installation.

g. Conformance tests of the rounded river rock [Spec. 02220-2.04] that will be used in the leachate collection and detection systems shall be taken in accordance with Table 02220-3.

11. Geosynthetic Materials.

a. Conformance testing.

1) The CQA Consultant or designee shall take conformance samples of the geosynthetics materials [CQAP 6.1.2.2.]. Conformance testing for the geosynthetic materials shall be in accordance with the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), Tables 02930-1, 2 and 3 (tri-planar composite drainage net (CDN)), Tables 02931-1, 2 and 3 (bi-planar CDN), Spec. 02077-2.01.F., G., H., I., and J (GCL) or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include environmental stress cracking and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.

Amended 01/12/2007

2) Conformance samples of the geosynthetics may be taken by the permittee's representative or CQA consultant prior to shipment of the material to the jobsite. In this case, once sampled geosynthetics shall not be added to or removed from the shipment [Spec. 02776-3.02.A.2.].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

- 3) Conformance testing of the GCL shall include hydraulic conductivity and hydrated internal shear strength [Spec. 02077-2.01.I and J].

New 01/12/2007

b. Seaming.

- 1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.
- 2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.
- 3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.]. Seaming shall only take place with the "master seamer" present. No geomembrane seaming shall be performed unless the CQA Consultant is on-site.
- 4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Destructive testing.

- 1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. This frequency shall not be based on an average throughout the entire facility. [see CQAP 6.1.9.2]
- 2) Geomembrane seams shall meet the requirements of Geomembrane Specifications, Table 02776-3, but in all cases destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested [Spec. 02776-3.05.B.6.].
- 3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.
- 4) All areas which fails nondestructive testing shall be marked for repair by the CQA Consultant or onsite CQA inspector or the Engineer [Spec. 02776-3.07.B.].
- 5) Trial welds [Spec. 02776-3.05.A.] shall be tested for shear and peel and shall meet the requirements for seams in Table 02776-3.

d. Transmissivity.

- 1) The transmissivity test results required by the Specifications shall be submitted to the Engineer for review before the proposed materials are approved for use on the project. [Spec. 02930-1.03.B.; 02931-1.03.B.]

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

2) The transmissivity of the tri-planar CDN material (LDS) shall be a minimum of $4 \times 10^{-3} \text{ m}^2/\text{sec}$ based upon a gradient of 2% and a normal load of 5,000 psf. [Spec. Table 02930-3.] The transmissivity of the bi-planar CDN material (LCS) shall be a minimum of $2.7 \times 10^{-3} \text{ m}^2/\text{sec}$ based upon a gradient of 2% and a normal load of 5,000 psf [Spec. Table 02931-3].

e. Interface friction angles. The minimum peak interface friction angle for cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar), GCL/soil, GCL/geomembrane interfaces shall be **20.5 degrees** [Spec. 02776-2.02.F. & G.; Table 02930-3; SC#A.2.a(3), A.2.f]. The tests shall be run at normal loads of 1,000, 3,000 and 6,000 psf. The interface friction angle testing shall be conducted by the CQA Consultant or the QA laboratory, and not the Contractor. Results provided by the Contractor will not be acceptable as QA certification.

Amended 08/08/2006, 01/12/2007

f. The construction methods used shall minimize wrinkles. All wrinkles higher than they are wide (across their base) or more than 6 inches high shall be removed, repaired and retested [CQAP 6.1.10]. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan.

g. The liner system shall not be damaged by excessive traffic.

h. The geocomposite drainage net (CDN) material and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

i. In areas where stakes are used, stakes shall not be of a type or used in a way that may damage the geomembrane.

j. Prior to placement of materials on the subgrade, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. The subgrade shall be accepted by the GCL and Liner Installers and Engineer in writing before placement of the next layer.

Amended 01/12/2007

k. During the construction of, and until the geomembrane and GCL are placed on the subgrade, the subgrade shall be inspected daily for signs of desiccation, excessive moisture, or other damage. In the event that the condition of the subgrade deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the subgrade shall be repaired immediately. Prehydration of the GCL shall not be allowed.

[Spec. 02776-3.03.A & B; 02776-3.04.C.; CQAP 6.1.7.]

Amended 01/12/2007

l. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation [Spec. 02776-3.04.C.; CQAP 6.1.7.].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

m. No geomembrane or GCL shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane or GCL installation. In the event that GCL becomes prematurely hydrated, the affected portions shall be removed and not used in the project. The GCL shall have free swell index of 24 mL/2g (MARV).

New 01/12/2007

12. Leachate collection and removal system.

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work [Spec. 15080-3.03.E.].

c. All non-pressurized (perforated and nonperforated) HDPE piping shall be jet cleaned and video inspected prior to final acceptance in accordance with Specification Section 15080. The cleaning report and/or videotapes shall be provided as part of the Record Documents required in Specific Condition #B.3. [Spec. 15080-3.07.B.]

d. Quantities of leachate from the leakage detection system shall be recorded (metered) separately from the quantities of leachate recorded from the leachate collection system.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. **Facility Operation Requirements.**
 - a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit no. 38414-007-SO, or its successors.
 - b. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to soils, surface water or groundwater outside the liner and leachate management systems at any time during the construction or operation of this facility.
 - c. In the event of a peak storm event (25yr/24 hr storm), the permittee shall increase leachate disposal (hauling) rates to ensure that the storage tanks' capacity is not exceeded (see SC#A.2.a., Attachment 9B-1, Sheet 3, received November 19, 2004). At the end of each week, the permittee shall ensure that sufficient storage capacity is available in the leachate storage tanks to accommodate leachate generated from rainfall that occurs when the facility is closed (i.e., weekends and holidays).
2. **Operating Personnel.** The owner or operator shall provide adequate personnel for constructing, operating, monitoring and maintaining the facility in an orderly, safe, and sanitary manner.
3. **Control of Access.** Access to, and use of, the facility shall be controlled as required by Rule 62-701.500(5), F.A.C.
4. **Monitoring of Waste.** In no event shall waste be accepted in Phase II, Section I until the following requirements have been completed and submitted by the Permittee, and approved by the Department:
 - a. Certification of Construction Completion requirements of Specific Condition #B.2.,
 - b. financial assurance requirements of Specific Condition #D.4.c.,
 - c. construction of groundwater monitoring wells and gas probes as required by Specific Condition #E.1.,
 - d. construction of the stormwater management system, and
 - e. issuance of a separate permit or modification of Operation Permit #38414-007-SO (or its successors) that authorizes operation of Phase II.
5. **Control of Nuisance Conditions.** The owner or operator shall control odors, vectors (mosquitoes, other insects, rodents), and fugitive particulates (dust, smoke) arising from the construction so as to protect the public health and welfare. Such control shall minimize the creation of nuisance conditions on adjoining property. Complaints received from the general public, and confirmed by Department personnel upon site inspection, shall constitute a nuisance condition, and the permittee must take immediate corrective action to abate the nuisance.
6. **Facility Maintenance and Repair.**
 - a. The site shall be properly maintained including maintenance of access roads to disposal areas, equipment, stormwater/leachate management systems, cover systems and berms, gas monitoring system, surface water monitoring system, and groundwater monitoring system. Erosion and ponded water in disposal areas shall be prevented.

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

c. In the event that any portion of the groundwater monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Operation Permit #38414-007-SO, or its successors, or as otherwise approved by the Department.

d. In the event that the leachate management system is damaged or is not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

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

SPECIFIC CONDITIONS: PART D - Recordkeeping

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Monitor Well/Piezometer Construction.

a. The proposed monitor wells and piezometers shall be designed and constructed in accordance with revised Attachment M-1 ("Revised Ground Water Monitoring Plan") to the "Engineering Report," prepared by SCS Engineers, dated April 2, 2004, revised November 15, 2004, and May 4, 2005 [Ref.S.C.#A.2.a]. The locations of the proposed monitor wells and piezometers are shown on Figure M-1 entitled "Hardee County Solid Waste, Ground Water, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida," received November 19, 2004 (**attached**), as described below:

Well No.	WACS Testsite		Designation	Location
	ID Number	Aquifer		
MW-10 *	21063	Surficial	Detection	See Figure M-1
MW-11 *	21882	Surficial	Detection	↓
MW-12 *	21883	Surficial	Detection	↓
P-17 * *	N/A	Surficial	Piezometer	See Figure M-1
P-18 * *	N/A	Surficial	Piezometer	↓
P-19 * *	N/A	Surficial	Piezometer	↓
P-20 * *	N/A	Surficial	Piezometer	↓
P-21 * *	N/A	Surficial	Piezometer	↓
P-22 * *	N/A	Surficial	Piezometer	↓
P-23 * *	N/A	Surficial	Piezometer	↓

* = to be installed **at least 30 days prior to completion of construction activities for the Phase II, Section I cell** in accordance with the construction details presented in Table M-2 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a]; documentation of well construction shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

* = to be installed **at least 30 days prior to completion of construction activities for the Phase II, Section I cell** in accordance with the construction details presented in Table M-4 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a]; documentation of piezometer shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

b. Construction details for the proposed monitor wells and piezometer shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Report (**attached**) and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.1., continued)

c. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitoring wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

2. **Monitor Well/Piezometer Abandonment.** Existing monitor well MW-9 and existing piezometers P-3, P-4, P-5 and P-12 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell.** These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of monitor well and piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

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).

d. **Within 90 days of issuance of this permit**, the permittee shall submit all information required by the Department's Air Resources Division to comply with Title V air requirements for the expanded landfill.

2. Gas Monitoring and Control. Landfill gas shall be monitored and controlled as required by Operation Permit #38414-007-SO or its successors.

3. Gas Monitoring Locations.

a. Gas monitoring probes shall be located as listed in Operation Permit #38414-007-SO or its successors, and the conditions of this permit.

b. Landfill Gas Probe Construction. Proposed gas probes GP-12 and GP-13 shall be designed and constructed in accordance with the inset table entitled "Landfill Gas Monitoring Probe Schedule" on Sheet 26 of 27 of the "Site Plans," prepared by SCS Engineers, revised November 19, 2004 [Ref.S.C.#A.2.d]. The locations of proposed gas probes GP-12 and GP-13 are shown on Figure O-1 entitled "Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida," received November 19, 2004 (**attached**). Written confirmation of proposed gas probe construction shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

c. Landfill Gas Probe Abandonment. Existing gas probes GP-7 and GP-8 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell**. Written confirmation of gas probe abandonment shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

PERMITTEE: Hardee County Solid Waste Dept.
Ms. Teresa Carver, Director

PERMIT NO: 38414-008-SC/01
Hardee County LF, Phase II

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

1. Closure Requirements.

a. Long-Term Care Requirements.

1) The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Permit Operation Permit #38414-007-SO or its successors.

2) 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.

b. Closing Requirements.

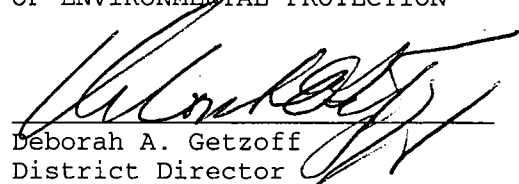
1) **No later than ninety (90) days** prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all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

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

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



Deborah A. Getzoff
District Director
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	180 days prior to permit expiration	Submit permit renewal application
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion of construction	Submit certification of construction completion, record drawings, etc.
B.4.a.	At least 30 days prior to construction	Submit complete plans, specification, CQA plan, or statement that no changes have occurred; borrow source report; org. chart with parties/roles
B.4.b.	At least 30 days prior to installation of the geosynthetics	Submit interface friction testing results
B.4.c.	Prior to construction	Submit dewatering plan
B.4.d.	No later than 2 weeks prior to construction of: groundwater control system; connections to manholes; liner penetrations; spark testing; alternate seaming	Notify of construction initiation to allow for observation
B.4.e.	At least 1 week prior to full scale construction of low permeability layer	Submit Test Section Report
B.5.	At least 1 week prior	Notify of preconstruction meeting
B.6.a.	No later than 1 week after pre-construction meeting	Submit meeting minutes
B.6.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
B.8.e.	At least 1 week prior	Notify of night work

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
C.6.b.	Within 24 hours of discovery	Notification of: hazardous waste receipt, failure of landfill systems or equipment
	Within 7 days of verbal notification	Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.4.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
D.4.c.	No later than 60 days prior to receipt of waste	Submit proof of initial funding
E.1.a.	At least 30 days prior to completion of construction	Install new wells
E.1.b..	Within 60 days of completion of construction	Submit construction details and survey information for new wells
E.2.	At least 30 days prior to construction	Abandon MW-9, P-3, P-4, P-5, and P-12
F.1.	Within 90 days of permit issuance	Submit information to Air Resources Division in Tallahassee for Title V
F.3.b.	Within 60 days of completion of construction	Submit gas probe construction details
F.3.c.		Submit gas probe abandonment information
F.4.	Within 7 days of detection	Submit gas remediation plan
	Within 60 days of detection	Complete corrective actions
G.1.b(1)	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

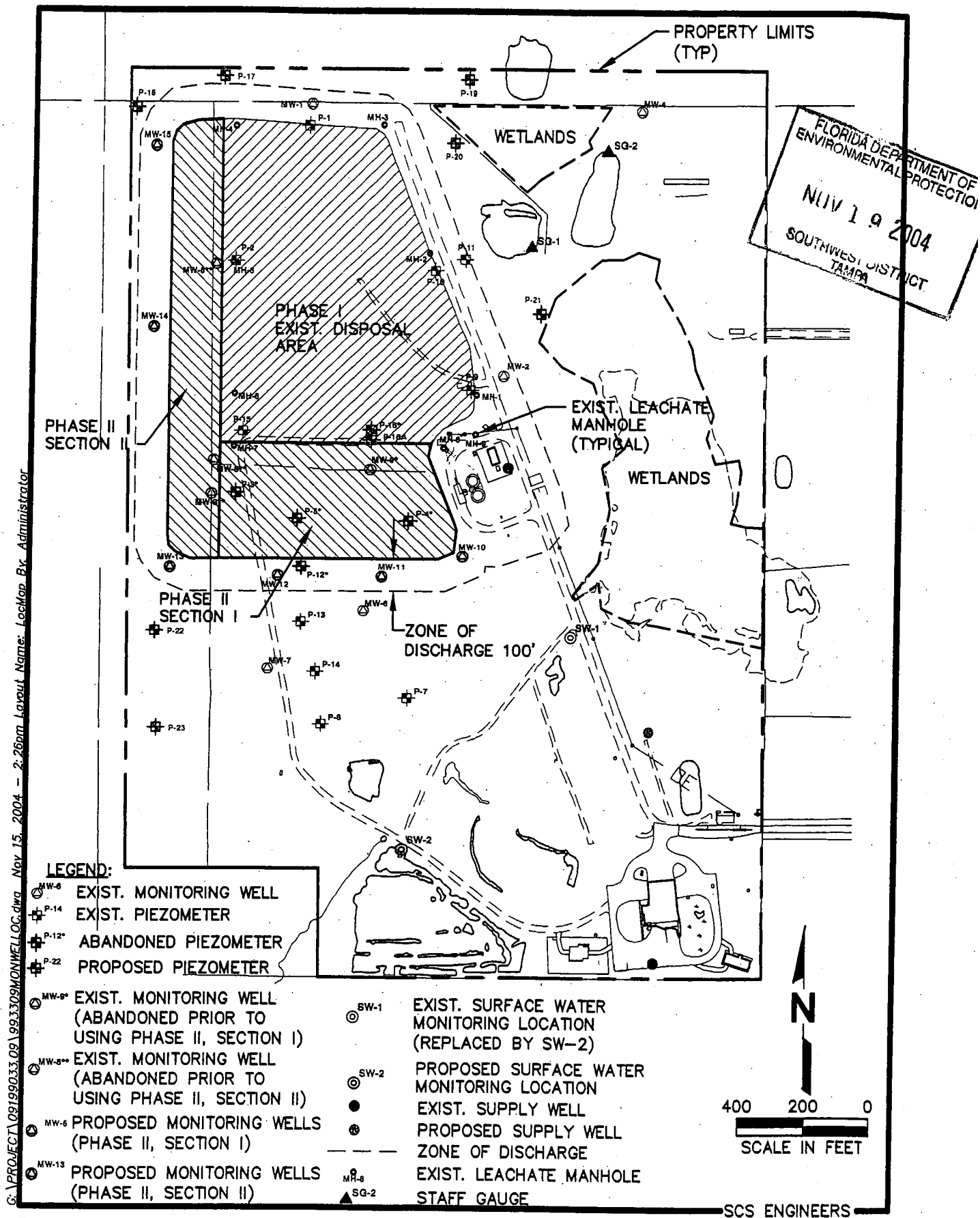


Figure M-1. Hardee County Solid Waste, Groundwater, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida.

NOV 19 2004

SOUTHWEST DISTRICT
TAMPA

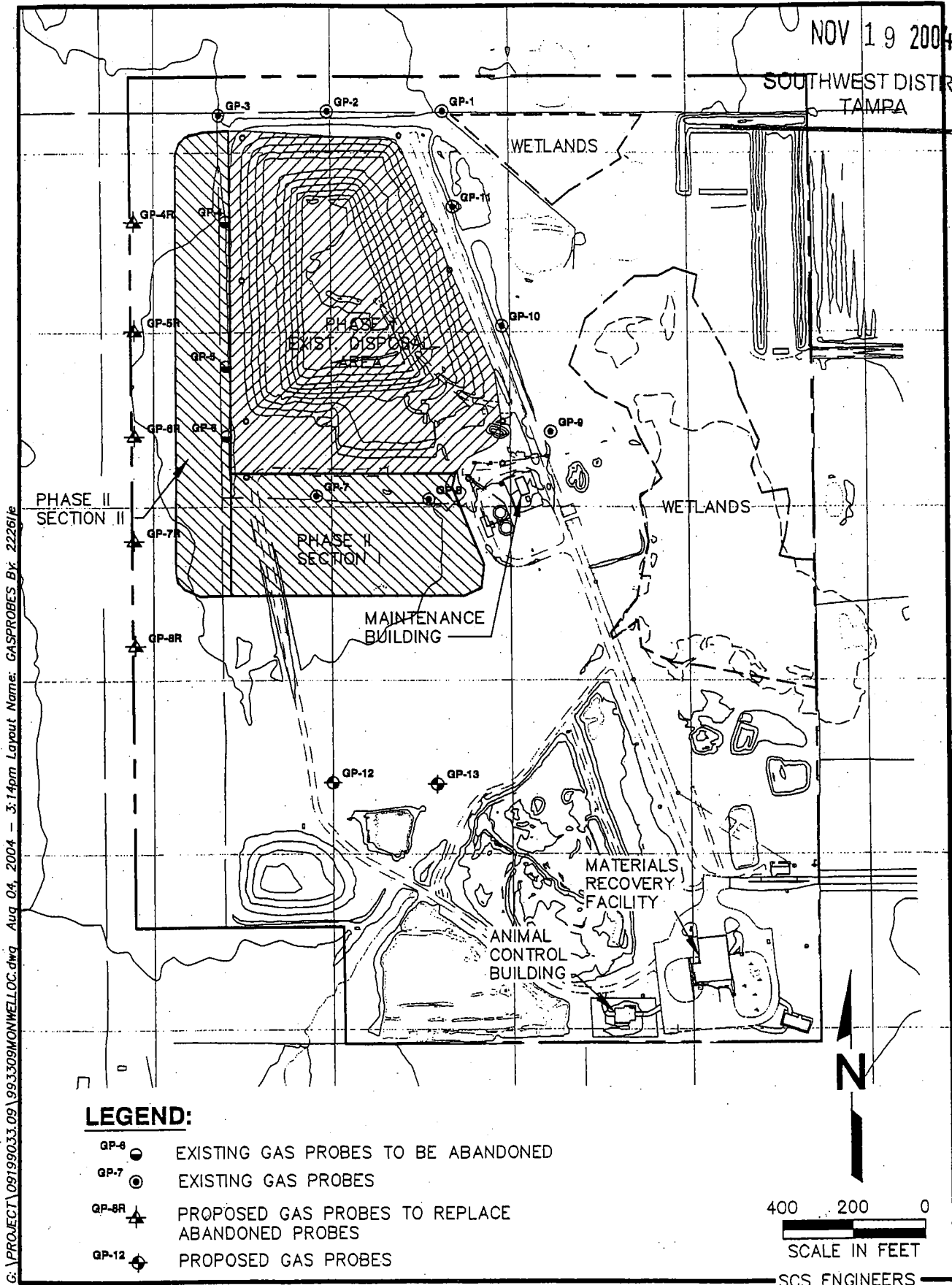


Figure O-1. Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida

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

DEP Form # 62-522.900(3)

Form Title MONITOR WELL COMPLETION REPORT

Effective Date _____

DEP Application No. _____
(Filled in by DEP)

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

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

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

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

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

REPORT PREPARED BY: _____

(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

SCS ENGINEERS

TO Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

DATE December 15, 2006

JOB NO. 09199033.16

ATTENTION Susan J. Pelz, P.E.

Re: Hardee County Phase II Section I

Construction Expansion Monthly Report

WE ARE SENDING YOU

- ☒ Attached ☐ Under separate cover via _____
- ☐ Shop drawings ☐ Prints
- ☐ Copy of letter ☐ Change Order
- ☐ The following items: ☐ Plans ☐ Samples
- ☐ Specifications ☐ _____

Dept. of Environmental Protection
DEC 15 2006
Southwest District

COPIES	DATE	DESCRIPTION
1	12/15/06	Hardee County Phase II Section I Construction Expansion Monthly Report

THESE ARE TRANSMITTED as check below:

- ☐ For approval ☐ Approved as submitted ☐ Resubmit _____ Copies for approval
- ☒ For your use ☐ Approved as noted ☐ Submit _____ Copies distribution
- ☐ As requested ☐ Returned for corrections ☐ Return _____ Corrected prints
- ☐ For review and comment ☐ _____
- ☐ FOR BIDS DUE _____ 20 _____ ☐ PRINTS RETURNED AFTER LOAN TO US

REMARKS Susan,

Please find enclosed the monthly report for November 15, 2006 to December 15, 2006 for the Hardee County Landfill Phase II Section I
Landfill Expansion Construction.

Thank You

COPY TO _____

SIGNED: Shane R. Fischer, P.E.

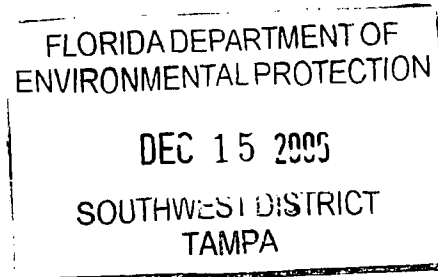
If enclosures are not as noted, kindly notify us at once.



SCS ENGINEERS

December 15, 2006
File No. 09199033.16

Susan J. Pelz, P.E.
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637



Subject: Monthly Progress Report - November 15, 2006 to December 15, 2006
Hardee County Landfill Phase II Section I
Landfill Expansion Construction
Construction Permit No. 38414-008-SC/01

Dear Ms. Pelz:

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS Engineers (SCS) is submitting this Monthly Progress Report per Specific Condition Number B.6.b of the construction permit for the Hardee County Landfill Phase II Section I Landfill Expansion Construction. The attached monthly report covers the month of November 15, 2006 to December 15, 2006 and includes the following:

- 1) A narrative explaining the status (and any delays) of major stages of the construction (i.e., liner, piping, liner penetrations, etc.).
- 2) A summary of submittals and change order requests.
- 3) Progress meeting minutes.
- 4) Color copies of photographs which are representative of the typical construction activities for the reporting period, and photographs which show overall views and details of major stages of construction (i.e., liner penetrations, lift station construction, etc.).

Please place this Monthly Progress Report into the 3-ring Project Binder that was previously submitted to the Florida Department of Environmental Protection in September.

Sincerely,

A handwritten signature in black ink, appearing to read "Shane R. Fischer".

Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS

A handwritten signature in black ink, appearing to read "Ed Hilton".

C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

SRF/CEH:srf

cc: Teresa Carver, Hardee County
Offices Nationwide

See Bond Document

SCS ENGINEERSDept. of
Protection

DEC 13 2006

Southwest District

December 11, 2006
File No. 09199033.16

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Subject: Hardee County Phase II Section I Construction Expansion
Interface Friction Angle Test Results
Construction Permit No. 3814-008-SC/01
Hardee County Landfill Facility

Dear Susan:

Per Specific Condition B.4.b of Construction Permit No. 38414-008-SC/01 and also the Draft Permit dated November 29, 2006 that includes Modification No. 38414-010-SC/MM "At least 30 days prior to initiation of installation of the geosynthetics, the results of the interface friction testing using actual construction materials shall be submitted to the Department. The results must demonstrate that each liner system interface exhibits a minimum safety factor of 1.5 against sliding. Placement of the GCL shall not proceed prior to the Engineer's receipt of the results of the interface friction testing which meet the requirements of this condition."

SCS has received the following interface friction angle test results for the materials required from the contractor (Comanco) as required by the technical specifications and the results all meet the permit requirement of at least 20.5 degrees which therefore also meet the minimum safety factor of 1.5 against sliding. The interface friction angle test results are as follows. Copies of the reports are contained in Attachment A of this letter.

- GCL Internal Shear - 39.4 degrees
- GCL vs. Subbase Soil - 21.6 degrees
- GCL vs. Liner - 22.6 degrees
- Tri-planar CDN vs. Liner - 21.0 degrees with 122 psf adhesion
- Bi-planar CDN vs. Liner - 21.3 degrees
- Bi-planar CDN vs. Drainage Sand - 28.1 degrees with 180 psf adhesion

SCS has received the following interface friction angle test results for the materials required for the CQA conformance testing as required by the technical specifications. The test results all meet the permit requirement of at least 20.5 degrees which therefore also meet the minimum safety factor of 1.5 against sliding. The CQA interface friction angle test results are as follows. Copies of the reports are contained in Attachment B of this letter.

685 Airport Road
Wauchula, FL 33873
Phone: 863-773-5089
Fax: 863-773-3907
Email: teresa.carver@hardeecounty.net

Dept. of Environmental
Hardee County Solid Waste Department

DEC 13 2006

December 11, 2006

Southwest District

Department of Environmental Protections
Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926
Attention: Susan Pelz

Dear Ms Pelz:

Per the draft permit Hardee County Solid Waste Department is required to run a proof of publication for the modification utilizing a geosynthetic clay liner instead of the 6-inch low permeability soil sub base. Please find enclosed the newspaper publication.

Should you need anything else please feel free to contact me.

Thank you,



Teresa Carver
Hardee County Solid Waste Director

Tc/TC

Please Recycle

AFFIDAVIT OF PUBLICATION

The Herald-Advocate

Published Weekly at Wauchula, Florida

FLORIDA DEPT. OF
ENVIRONMENTAL PROTECTION

DEC 13 2006

SOUTHWEST DISTRICT
TAMPA

STATE OF FLORIDA,
COUNTY OF HARDEE

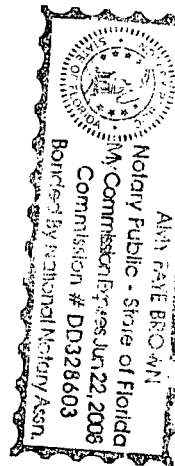
Before the undersigned authority personally appeared Ann Basey
who on oath says he is the Secretary of The Herald-Advocate, a
newspaper published at Wauchula, in Hardee County, Florida; that the attached copy of advertise-
ment, being a State of Florida
in the matter of Department of Environmental Protection
in the _____ Court, was published in said newspaper in the issues
of December 7 2006

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

Ann Basey

Sworn to and subscribed before me this 7 day of December
A.D. 2006

My Commission Expires June 22 2008
Amy Jane Brown
Notary Public



FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

DEC 13 2006

SOUTHWEST DISTRICT
TAMPA

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

The Department gives notice of its intent to issue a permit to **Ms. Teresa Carver, Director, Hardee County Solid Waste Department**, who applied for a permit modification on October 3, 2006, to the Department of Environmental Protection to modify the existing construction permit for a lateral expansion (Phase II, Section I) of the Class I Landfill, referred to as the **Hardee County Landfill**, located at 685 Airport Road, Wauchula, Hardee County, Florida. **This modification includes utilizing a geosynthetic clay liner instead of the 6-inch low permeability soil subbase.**

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

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

- (a) The name, address, and telephone number of each petitioner, the applicant's name and address, the Department File Number and the county in which the project is proposed;
- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts, which the petitioner contends, warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and
- (g) A statement of the relief sought by the petitioner, stating precisely the action the petitioner wants the Department to take with respect to the Department's action or proposed action.

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

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

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

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

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

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: x Deborah A. Getzoff, District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

ENVIRONMENTAL ADMINISTRATOR
SOLID WASTE PROGRAM MANAGER

DATE: November 21, 2006

FILE NAME: Hardee Co. LF Phase II LF Exp.
PROGRAM : Solid Waste

Mod #38414-010-SC/MM to
PERMIT #: 38414-008-SC/01
COUNTY : Hardee

TYPE OF PERMIT ACTION: INTENT to ISSUE

PUBLIC NOTICE PERIOD CLOSED?

PETITION FILED?

PERMIT SUMMARY: This permit modification allows installation of a geosynthetic clay liner (GCL) instead of the 6-inch clay subbase below the double liner system. Revised slope stability calculations, specifications and CQA Plan were provided.

PROFESSIONAL RECOMMENDATION: X APPROVE DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department Rules.

To 11/21/06 TIH=50, TTP=50		TTP
Application received	10/03/06	
Application complete	10/03/06	
Draft permit emailed to applicant for comment (No comments rec'd)	11/21/06	50
Intent to Issue sent (day ____)		
Proof of publication rec'd		
Application active (day=____)		
Final permit for routing		

Total processing time (TIH)= 50 days (to 11/21/06)

Department processing time (TTP) = 50 days (to 11/21/06)

DAY 90/30 FOR THIS ACTION IS:

ASAP - (contractor has mobilized to site)

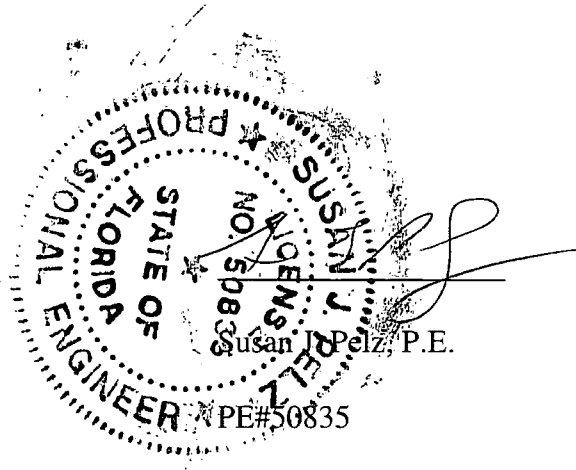
Day 90=12/31/06

CERTIFICATION

Application #38414-010-SC/MM, Hardee County GCL modification

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

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



11/21/06
date

8

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

Code in this box

CONCLUSION

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

DEC 04 2006

Southwest District



7004 1350 0002 5571 4435

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

Teresa Carver, Director
 Hardee County Solid Waste Dept.
 685 Airport Road
 Wauchula, FL 33873

PS Form 3800, June 2002 See Reverse for Instructions

Is your RETURN ADDRESS completed on the reverse side?

SENDER: *Intent To Issue Permt #3841408 SC/47*
 ■ Complete items 1 and/or 2 for additional services.
 ■ Complete items 3, 4a, and 4b. *Hardee County Landfill*
 ■ Print your name and address on the reverse of this form so that we can return this card to you.
 ■ Attach this form to the front of the mailpiece, or on the back if space does not permit.
 ■ Write "Return Receipt Requested" on the mailpiece below the article number.
 ■ The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):
 1. ☐ Addressee's Address
 2. ☐ Restricted Delivery
 Consult postmaster for fee.

3. Article Addressed to:

 Teresa Carver, Director
 Hardee County Solid Waste Dept.
 685 Airport Road
 Wauchula, FL 33873

4a. Article Number
 7004 1350 0002 5571 4435

4b. Service Type
☐ Registered ☒ Certified
☐ Express Mail ☐ Insured
☒ Return Receipt for Merchandise ☐ COD

7. Date of Delivery
12-1-06

5. Received By: (Print Name)
Otelia Reynolds

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

6. Signature (Addressee or Agent)
X Otelia Reynolds

Thank you for using Return Receipt Service.



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

CERTIFIED MAIL 7004 1350 0002 5571 4435
RETURN RECEIPT REQUESTED

November 29, 2006

NOTICE OF PERMIT

Hardee County Solid Waste Department Mod #38414-010-SC/MM to existing
Ms. Teresa Carver, Director Construction Permit #38414-008-SC/01
685 Airport Road
Wauchula, Fl. 33873

INTENT TO ISSUE

The Department of Environmental Protection hereby gives notice of its Intent to Issue a permit (copy attached) for the proposed project as detailed in the application specified above, for the reasons stated below. The applicant, Hardee County Board of County Commissioners, Solid Waste Department, Ms. Teresa Carver, Solid Waste Director, applied for a permit modification on October 3, 2006, from the Department of Environmental Protection for a permit to modify the construction of a Class I landfill (Phase II) expansion of the existing Class I Landfill, located at 685 Airport Road, Wauchula, Hardee County, Florida. **This modification includes utilizing a geosynthetic clay liner instead of the 6-inch low permeability soil subbase.**

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

The Department intends to issue this permit based on its belief that reasonable assurances have been provided to indicate that the proposed

"More Protection, Less Process"

Printed on recycled paper.

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

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

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

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

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

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- (b) A statement of how and when each petitioner received notice of the Department's action or proposed action;
- (c) A statement of how each petitioner's substantial interests are or will be affected by the Department's action or proposed action;
- (d) A statement of all material facts disputed by petitioner or a statement that there are no disputed facts;
- (e) A statement of the ultimate facts alleged, including a statement of the specific facts, which the petitioner contends, warrant reversal or modification of the Department's action or proposed action;
- (f) A statement of the specific rules or statutes the petitioner contends require reversal or modification of the Department's action or proposed action; and

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

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

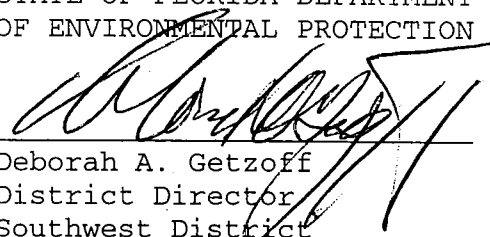
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In accordance with Section 120.573, F.S., the Department advises that mediation is not available in this case under the provisions of that statute. This does not prevent any interested parties from agreeing to other forms of alternate dispute resolution.

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

Executed in Tampa, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


Deborah A. Getzoff
District Director
Southwest District

DAG/sjp
Attachments

Copies furnished to:

Hardee County Board of County Commissioners
Hardee County Notification List
C. Ed Hilton, P.E., SCS Engineers, 3012 US Highway 301 North, Ste. 700, Tampa, Fl. 33619
Patricia Comer, OGC Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
Fred Wick, FDEP Tallahassee
Cece McKiernan, FDEP WaRM

CERTIFICATE OF SERVICE

The undersigned duly designated deputy agency clerk hereby certifies that this **NOTICE OF INTENT TO ISSUE** and all copies were mailed before the close of business on November 29, 2006 to the listed persons.

Clerk Stamp

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

Ann Stew
(Clerk)

11/29/2006
(Date)

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

The Department gives notice of its intent to issue a permit to **Ms. Teresa Carver, Director, Hardee County Solid Waste Department**, who applied for a permit modification on October 3, 2006, to the Department of Environmental Protection to modify the existing construction permit for a lateral expansion (Phase II, Section I) of the Class I Landfill, referred to as the **Hardee County Landfill**, located at 685 Airport Road, Wauchula, Hardee County, Florida. **This modification includes utilizing a geosynthetic clay liner instead of the 6-inch low permeability soil subbase.**

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

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

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

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

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

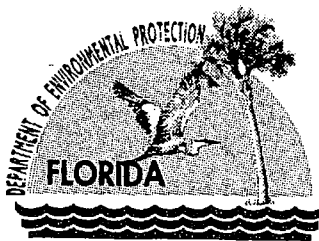
A petition that does not dispute the material facts on which the Department's action is based shall state that no such facts are in dispute and otherwise shall contain the same information as set forth above, as required by Rule 28-106.301, F.A.C.

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

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

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

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



Department of Environmental Protection

Jeb Bush
Governor

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

Colleen M. Castille
Secretary

PERMITTEE

Hardee County Solid Waste
Department
Ms. Teresa Carver, Director
685 Airport Road
Wauchula, Florida 33873

PERMIT/CERTIFICATION

WACS Facility ID No: SWD/25/40612
Permit No: **38414-008-SC/01**
Date of Issue: 02/27/06
Expiration Date: **02/27/11**
County: Hardee
Lat/Long: 27°34'17"N
81°46'58"W
Sec/Town/Rge: 35/33S/25E
Project: Hardee County Landfill
Phase II Construction

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

To **construct** an expansion of a Class I landfill (approximately 5 acres), referred to as the **Hardee County Landfill (Phase II, Section I)**, subject to the specific and general conditions attached, located specific and general conditions attached, **located at 685 Airport Rd., Wauchula, Hardee County, Florida**. The specific conditions attached are for the construction of:

1. Class I Landfill, Phase II, Section 1

and related appurtenances

Replaces Permit No.: N/A, new

Includes modification #38414-009-SC/MM, dated 08/08/2006, and
#38414-010-SC/MM, dated _____

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.

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General information, Phase II (unless noted):

Disposal acres	Approx. 5 acres (Phase II, Section I only) [ref. SC#A.2.a., Section S]
Lowest Bottom elevation of cell - NE corner of Phase II, Section I (Point 9C)	+79.2 ft. NGVD (pipe, pre-settlement), +78.66 ft. NGVD (pipe, post settlement) [ref. SC#A.2.d., Sheet 12 of 27; SC#A.2.a., Section J, <i>Settlement Calculations</i>] Bottom of GCL = +78.5 ft. NGVD [ref. SC#A.2.a., Section J, page 15] Amended _____.
Top elevation at final buildout (entire landfill-including cover)	max. +159.5 feet NGVD [ref. SC#A.2.a., Part H.1; SC#A.2.d., Sheet 14 of 27]
Sideslopes max.	3H:1V [ref. SC#A.2.d., Sheets 14, 16 and 17 of 27]
Liner system (bottom to top)	Groundwater interceptor layer; 12-inch compacted subgrade, geosynthetic clay liner (GCL) (5×10^{-9} cm/sec), 60 mil textured HDPE geomembrane, triplanar geocomposite (geotextile/geonet/geotextile), 60 mil textured HDPE geomembrane, biplanar geocomposite (geotextile/geonet/geotextile), 2-foot drainage sand [ref. SC#A.2.d., Detail 1/Sheet 24 of 27] Amended _____.
LCS drainage system	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec [ref. SC#A.2.d., Detail 1/Sheet 24 of 27; Spec. 02220-2.06] Two trenches draining from west to east. 8-inch SDR 11 HDPE perforated LCS piping. [ref. SC#A.2.d., Section A, Sheet 23 of 27, Detail 5, Sheet 24 of 27] LCS pipes drain to sumps on east side, then pumped through sideslope risers through forcemain to lift station; from lift station through existing HDPE force main to tanks [ref. SC#A.2.d., Sheets 9 and 19 of 27]
LDS drainage system	Triplanar geocomposite to sump, then same as LCS
Action leakage rate (ALR)	260 gal/ac/day [ref. SC#A.2.a., Part H.2.c.4, page H-14]
Design life	5 years [ref. Appl. Form #A.14.],
Interface friction angles	All interfaces= 20.5° ; GM/bi-planar composite drainage net (CDN) [Spec. 02776-2.02.F.]; GM/tri-planar CDN [Spec. 02776-2.02.G.], bi-planar CDN/soil [Table 02931-3, Note 2]; GCL/soil [Spec. 02077-2.01.G.]; GCL/GM [Spec. 02077-2.01.H.]. Amended 08/08/2006; _____.
Leachate storage tanks	Two epoxy painted steel, open top tanks; approximately 79,000 gallons each; secondary containment: tank in a tank nominal diameter= 30 feet, 16 ft tall

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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.

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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

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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.

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SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

2. **Permit Application Documentation.** This permit is valid for construction of the Phase II expansion of the Class I landfill and related systems (including but not limited to: lined Class I disposal unit, modification of leachate collection and removal system, groundwater interceptor system) in accordance with Department rules, and the reports, plans and other information prepared by SCS Engineers [SCS], Inc. (unless otherwise specified) as follows:

a. Hardee County Landfill Expansion, Construction Permit Application,... (Volumes I and II, 3-ring binders) dated April 2004 (received April 8, 2004), as revised, replaced or amended (information inserted into original) dated November 19, 2004, May 20, 2005 (received May 23, 2005 and July 27, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006). This information includes, but is not limited to:

1) Volume I, Attachment H-2, *Construction Quality Assurance Plan*, [CQAP],
Replaced 08/08/2006 (See SC#A.2.f.).

2) Volume I, Attachment H-1, *Technical Specifications* [Specs.];
Replaced 08/08/2006 (See SC#A.2.f.).

3) "Hardee County Phase II Section I Construction Expansion,... Geocomposite/HDPE Geomembrane Interface Friction Angle,..." dated May 9, 2006 (received May 18, 2006) and additional information dated July 7, 2006 (received July 10, 2006) (inserted into 3-ring binders listed in SC #A.2.a).
New 08/08/2006.

b. Responses to Request for Additional Information,... (three-ring bound document) dated November 15, 2004 (received November 19, 2004) as revised, replaced or amended May 20, 2005 (received May 23, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006) (attachments inserted into original [ref. SC#A.2.a];

c. Operations Plan for Hardee County Landfill,... (three-ring binder) dated November 19, 2004, as revised, replaced or amended May 20, 2005 (received May 23, 2005 and July 27, 2005), and January 24, 2006 (received January 25, 2006).

d. Plan Sheets titled, Hardee County Landfill Expansion Construction permit,... (29 sheets) dated April 2004 (received January 25, 2006) including sheets revised November 19, 2004, May 13, 2005, May 20, 2005, September 23, 2005, and December 2, 2005. Note: Conformed plan sheets received August 9, 2006 and October 3, 2006 (see SC#A.2.f. and #A.2.g.) **do not replace** the plan sheets (29 sheets) referenced in this condition.
Amended _____.

e. Operational drawings (reduced size), sheets OP-1 through OP-7, dated May 2005 (received May 23, 2005);

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SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

f. Conformed Documents, Phase II Section I Landfill Expansion, Hardee County... dated June 20, 2006 (received June 29, 2006), including (replaces information in SC#A.2.a(1), and A.2.a(2) above):

- 1) Conformed Technical Specifications [Specs.]
- 2) CQA Plan (Exhibit A)

New 08/08/2006.

g. The following information that include GCL in bottom liner system in place of 6-inch low permeability soil, Hardee County Phase II Section I Construction Expansion, Minor Permit Modification... (spiral bound document) dated October 3, 2006 (received October 3, 2006), including, but not limited to:

- 1) Specification Section 02077, Geosynthetic Clay Liner (inserted into documents ref. SC#A.2.f.),
- 2) Revised CQA Plan (inserted into documents ref. SC#A.2.f.).

New _____.

3. Permit Modifications.

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

b. This permit does not authorize landfill closure construction or construction of the Phase II, Section II Landfill. This permit does not authorize operation of the Phase II landfill.

4. Permit Renewal. No later than one hundred eighty (180) days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C.

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

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

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

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SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

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

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

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

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

d. The lowest cell bottom elevation is **+78.5 feet NGVD** (bottom of GCL/top of subgrade, pre-settlement at NE corner of Phase II, Section I) and the Phase II design includes a groundwater control layer below the liner system. However, in the event that subsequent groundwater monitoring indicates that the groundwater elevation is not effectively removed by the groundwater control layer, information that addresses the requirements of Rule 62-701.400(11), F.A.C. shall be submitted for Department review and approval. In the event that corrective actions are required, a permit modification may be required.

Amended _____.

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit authorizes the construction of the Phase II, Section I, Class I disposal facility, leachate force mains and related appurtenances (including groundwater control system). This permit does not authorize the **operation** of Phase II. Operation of Phase II shall require a new permit or modification of Operation Permit no. 38414-007-SO 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.

a. **Within sixty (60) days** after construction has been completed and **prior to the acceptance of waste**, the following activities shall be completed and submitted by the permittee, and shall be approved by the Department:

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

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

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

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

3. **Record Drawings/Documents.**

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

1) Location of all anchor trenches,

2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts);

3) Daily construction reports (CQA and general contractor);

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

- 4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;
 - 5) All geomembrane destructive test results;
 - 6) Copies of photographs documenting all stages of the construction project.
 - 7) Details for the groundwater control system, including but not limited to, elevations for piping; discharge location details, etc.;
 - 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken; and
 - 9) Surveys of the top of subgrade, and top of drainage sand layer for the constructed cell (including sideslopes) (see Response #H.2.d.3., dated November 19, 2004).
- b. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed no lower than **+79.2 feet NGVD (at NE corner of Section 1 LCS)** [ref. SC#A.2.d., Sheet 12 of 27], or as otherwise approved by the Department.

4. Pre-Construction Submittals.

- a. **At least thirty (30) days prior** to initiation of construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:
 - 1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. If no changes have been made to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction;
 - 2) The borrow source qualification information required by Rule 62-701.400(8)(c), F.A.C., for the low permeability soil materials [see Spec. 02212-1.03.C.1.]. The Borrow Source Report shall demonstrate that the low permeability soil material meets the required hydraulic conductivity at the 98% confidence level [Spec. 02212-2.02.B.1.]; and
 - 3) The role and name of the specific company/organization for each of the parties in the Project team [CQAP Figure 1].

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

b. **At least 30 days prior to initiation** of installation of the geosynthetics, the results of the interface friction testing using actual construction materials shall be submitted to the Department [ref. SC#A.2.a., Part H.2.d.7., page H-16; Spec. 02776-1.04.A.13 & 14, 02776-2.02.F & G.]. The results must demonstrate that each liner system interface exhibits a minimum safety factor of 1.5 against sliding. Placement of the GCL shall not proceed prior to the Engineer's receipt of the results of the interface friction testing which meet the requirements of this condition.

Amended _____.

c. **Prior to initiation of construction**, the Permittee shall submit a copy of the contractor's dewatering plan to the Department for review. [See Spec. 02140-1.03.A.] Two copies shall be provided: one copy to the Solid Waste Section, and one copy to the Industrial Wastewater Section. In the event that a dewatering permit is required by the Department's Industrial Wastewater Section, dewatering shall not proceed until that permit is obtained. Dewatering water shall only be discharged into areas that have been properly prepared to receive the discharge [Spec. 02140-3.02.F.].

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

- 1) the construction of groundwater control system;
- 2) connection of new LCS and LDS to lift station and/or manholes;
- 3) the construction of liner penetrations;
- 4) spark testing of any welds; and
- 5) seaming performed using a method other than double-fusion (wedge) or extrusion welding.

e. **At least 1 week prior to full scale construction** of the low permeability soil layer, the permittee shall submit the Test Section Report [Spec. 02212-1.03.D.] to the Department.

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

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

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

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

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

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

7. Construction Tolerances.

a. Invert elevations of the leachate collection pipes shall be recorded at least every 50 feet to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.

b. The tolerance for the elevations of the top of the leachate collection/detection trenches, and invert elevations of piping above the liner system shall be ± 0.10 ft. The leachate collection/detection sumps, trenches, piping shall be constructed no lower than the elevations specified on the drawings.

c. As-built topographic surveys shall demonstrate that each liner component, groundwater control system, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance required by the Drawings and Specifications.

d. The sand drainage layer shall be constructed to a minimum installed thickness of 24 inches.

8. Construction Quality Assurance.

a. Liner and leachate collection systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref. SC#A.2.a(1)]; and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection) to monitor construction activities.

b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference. Work shall not be concealed until required information is recorded. [Spec. 01300-1.07.B.; CQAP 7.0.]

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.2 and #B.3.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetics materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week** in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

g. Where sod is used over lined areas, pegging of sod shall not damage the liner.

h. All portions of the leachate collection system, liner and groundwater control system construction shall be observed and documented by the CQA Consultant.

i. CQA daily reports shall include weather conditions (e.g., precipitation, temperature).

j. Areas to be backfilled, including trenches, shall be free of building debris, rubbish, and water.

k. Runoff from stockpiled soils shall not discharge to surface water bodies or wetlands such that Department surface water standards are violated at the point of discharge.

l. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

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

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SPECIFIC CONDITIONS: PART B - Construction Requirements

10. Soil Materials.

- a. Surfaces adjacent to geosynthetics (including the subgrade) shall be smooth and free of depressions, rocks, stones, sticks, roots, sharp objects, or debris.
- b. The low permeability soil shall be free from organics, roots, rubbish, debris or rocks greater than ¼ inch in any dimension, sticks greater than ¼ inch in diameter, calcareous deposits or any other deleterious material [Spec. 02212-2.01.B; 02776-3.03.A.].
- c. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec. [Spec. 02220-2.06.A.] A sufficient number of permeability tests shall be performed on the drainage sand material to demonstrate the required permeability [see Table 02220-3].
- d. Soils shall not be imported or used for construction in the low permeability soil layer until approved by the Department [see Spec. 02212-1.03.C.2.c.].
- e. In the event that portions of the low permeability soil layer must be replaced, a minimum of 4 additional permeability tests shall be conducted for each area of low permeability soil to be retested [Spec. 02212-3.03.G.]. Hydraulic conductivity tests for the low permeability soil layer shall be conducted in accordance with ASTM D5084. Two stage borehole procedures shall not be used exclusively [See CQA 5.3.2.].
- f. The frequency of thickness, moisture content, permeability and density tests listed in Table 02212-3 shall be doubled for the first 5 acres of low permeability soil installation as required by Rule 62-701.400(8)(e), F.A.C. The frequency of the tests listed in Table 02212-4 shall be doubled for the first 5 acres of low permeability soil installation.
- g. Conformance tests of the rounded river rock [Spec. 02220-2.04] that will be used in the leachate collection and detection systems shall be taken in accordance with Table 02220-3.

11. Geosynthetic Materials.

- a. Conformance testing.
 - 1) The CQA Consultant or designee shall take conformance samples of the geosynthetics materials [CQAP 6.1.2.2.]. Conformance testing for the geosynthetic materials shall be in accordance with the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), Tables 02930-1, 2 and 3 (tri-planar composite drainage net (CDN)), Tables 02931-1, 2 and 3 (bi-planar CDN), Spec. 02077-2.01.F., G., H., I., and J (GCL) or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include environmental stress cracking and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.
Amended _____.
 - 2) Conformance samples of the geosynthetics may be taken by the permittee's representative or CQA consultant prior to shipment of the material to the jobsite. In this case, once sampled geosynthetics shall not be added to or removed from the shipment [Spec. 02776-3.02.A.2.].

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

3) Conformance testing of the GCL shall include hydraulic conductivity and hydrated internal shear strength [Spec. 02077-2.01.I and J].

New _____.

b. Seaming.

1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.

2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.

3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.]. Seaming shall only take place with the "master seamer" present. No geomembrane seaming shall be performed unless the CQA Consultant is on-site.

4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Destructive testing.

1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. This frequency shall not be based on an average throughout the entire facility. [see CQAP 6.1.9.2]

2) Geomembrane seams shall meet the requirements of Geomembrane Specifications, Table 02776-3, but in all cases destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested [Spec. 02776-3.05.B.6.].

3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.

4) All areas which fails nondestructive testing shall be marked for repair by the CQA Consultant or onsite CQA inspector or the Engineer [Spec. 02776-3.07.B.].

5) Trial welds [Spec. 02776-3.05.A.] shall be tested for shear and peel and shall meet the requirements for seams in Table 02776-3.

d. Transmissivity.

1) The transmissivity test results required by the Specifications shall be submitted to the Engineer for review before the proposed materials are approved for use on the project. [Spec. 02930-1.03.B.; 02931-1.03.B.]

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

2) The transmissivity of the tri-planar CDN material (LDS) shall be a minimum of 4×10^{-3} m²/sec based upon a gradient of 2% and a normal load of 5,000 psf. [Spec. Table 02930-3.] The transmissivity of the bi-planar CDN material (LCS) shall be a minimum of 2.7×10^{-3} m²/sec based upon a gradient of 2% and a normal load of 5,000 psf [Spec. Table 02931-3].

e. Interface friction angles. The minimum peak interface friction angle for cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar), GCL/soil, GCL/geomembrane interfaces shall be **20.5 degrees** [Spec. 02776-2.02.F. & G.; Table 02930-3; SC#A.2.a(3), A.2.f.]. The tests shall be run at normal loads of 1,000, 3,000 and 6,000 psf. The interface friction angle testing shall be conducted by the CQA Consultant or the QA laboratory, and not the Contractor. Results provided by the Contractor will not be acceptable as QA certification.

Amended 08/08/2006, _____.

f. The construction methods used shall minimize wrinkles. All wrinkles higher than they are wide (across their base) or more than 6 inches high shall be removed, repaired and retested [CQAP 6.1.10]. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan.

g. The liner system shall not be damaged by excessive traffic.

h. The geocomposite drainage net (CDN) material and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

i. In areas where stakes are used, stakes shall not be of a type or used in a way that may damage the geomembrane.

j. Prior to placement of materials on the subgrade, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. The subgrade shall be accepted by the GCL and Liner Installers and Engineer in writing before placement of the next layer.

Amended _____.

k. During the construction of, and until the geomembrane and GCL are placed on the subgrade, the subgrade shall be inspected daily for signs of desiccation, excessive moisture, or other damage. In the event that the condition of the subgrade deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the subgrade shall be repaired immediately. Prehydration of the GCL shall not be allowed. [Spec. 02776-3.03.A & B; 02776-3.04.C.; CQAP 6.1.7.]

Amended _____.

l. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation [Spec. 02776-3.04.C.; CQAP 6.1.7.].

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SPECIFIC CONDITIONS: PART B - Construction Requirements

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

m. No geomembrane or GCL shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane or GCL installation. In the event that GCL becomes prematurely hydrated, the affected portions shall be removed and not used in the project. The GCL shall have free swell index of 24 mL/2g (MARV).

New _____.

12. Leachate collection and removal system.

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work [Spec. 15080-3.03.E.].

c. All non-pressurized (perforated and nonperforated) HDPE piping shall be jet cleaned and video inspected prior to final acceptance in accordance with Specification Section 15080. The cleaning report and/or videotapes shall be provided as part of the Record Documents required in Specific Condition #B.3. [Spec. 15080-3.07.B.]

d. Quantities of leachate from the leakage detection system shall be recorded (metered) separately from the quantities of leachate recorded from the leachate collection system.

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SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit no. 38414-007-SO, or its successors.

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

c. In the event of a peak storm event (25yr/24 hr storm), the permittee shall increase leachate disposal (hauling) rates to ensure that the storage tanks' capacity is not exceeded (see SC#A.2.a., Attachment 9B-1, Sheet 3, received November 19, 2004). At the end of each week, the permittee shall ensure that sufficient storage capacity is available in the leachate storage tanks to accommodate leachate generated from rainfall that occurs when the facility is closed (i.e., weekends and holidays).

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

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

4. Monitoring of Waste. In no event shall waste be accepted in Phase II, Section I until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

a. Certification of Construction Completion requirements of Specific Condition #B.2.,

b. financial assurance requirements of Specific Condition #D.4.c.,

c. construction of groundwater monitoring wells and gas probes as required by Specific Condition #E.1.,

d. construction of the stormwater management system, and

e. issuance of a separate permit or modification of Operation Permit #38414-007-SO (or its successors) that authorizes operation of Phase II.

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

6. Facility Maintenance and Repair.

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

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SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

c. In the event that any portion of the groundwater monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Operation Permit #38414-007-SO, or its successors, or as otherwise approved by the Department.

d. In the event that the leachate management system is damaged or is not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

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

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SPECIFIC CONDITIONS: PART D - Recordkeeping

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

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SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Monitor Well/Piezometer Construction.

a. The proposed monitor wells and piezometers shall be designed and constructed in accordance with revised Attachment M-1 ("Revised Ground Water Monitoring Plan") to the "Engineering Report," prepared by SCS Engineers, dated April 2, 2004, revised November 15, 2004, and May 4, 2005 [Ref.S.C.#A.2.a]. The locations of the proposed monitor wells and piezometers are shown on Figure M-1 entitled "Hardee County Solid Waste, Ground Water, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida," received November 19, 2004 (**attached**), as described below:

		WACS Testsite			
<u>Well No.</u>		<u>ID Number</u>	<u>Aquifer</u>	<u>Designation</u>	<u>Location</u>
MW-10 *		21063	Surficial	Detection	See Figure M-1
MW-11 *		21882	Surficial	Detection	↓
MW-12 *		21883	Surficial	Detection	↓
P-17 **		N/A	Surficial	Piezometer	See Figure M-1
P-18 **		N/A	Surficial	Piezometer	↓
P-19 **		N/A	Surficial	Piezometer	↓
P-20 **		N/A	Surficial	Piezometer	↓
P-21 **		N/A	Surficial	Piezometer	↓
P-22 **		N/A	Surficial	Piezometer	↓
P-23 **		N/A	Surficial	Piezometer	↓

* = to be installed **at least 30 days prior to completion of construction activities for the Phase II, Section I cell** in accordance with the construction details presented in Table M-2 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a]; documentation of well construction shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

* = to be installed **at least 30 days prior to completion of construction activities for the Phase II, Section I cell** in accordance with the construction details presented in Table M-4 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a]; documentation of piezometer shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

b. Construction details for the proposed monitor wells and piezometer shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Report (**attached**) and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

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SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.1., continued)

c. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitoring wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

2. **Monitor Well/Piezometer Abandonment.** Existing monitor well MW-9 and existing piezometers P-3, P-4, P-5 and P-12 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell.** These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of monitor well and piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

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SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

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

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

d. **Within 90 days of issuance of this permit,** the permittee shall submit all information required by the Department's Air Resources Division to comply with Title V air requirements for the expanded landfill.

2. Gas Monitoring and Control. Landfill gas shall be monitored and controlled as required by Operation Permit #38414-007-SO or its successors.

3. Gas Monitoring Locations.

a. Gas monitoring probes shall be located as listed in Operation Permit #38414-007-SO or its successors, and the conditions of this permit.

b. Landfill Gas Probe Construction. Proposed gas probes GP-12 and GP-13 shall be shall be designed and constructed in accordance with the inset table entitled "Landfill Gas Monitoring Probe Schedule" on Sheet 26 of 27 of the "Site Plans," prepared by SCS Engineers, revised November 19, 2004 [Ref.S.C.#A.2.d.]. The locations of proposed gas probes GP-12 and GP-13 are shown on Figure O-1 entitled "Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida," received November 19, 2004 (**attached**). Written confirmation of proposed gas probe construction shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

c. Landfill Gas Probe Abandonment. Existing gas probes GP-7 and GP-8 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell.** Written confirmation of gas probe abandonment shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

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SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

1. Closure Requirements.

a. Long-Term Care Requirements.

1) The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Permit Operation Permit #38414-007-SO or its successors.

2) 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.

b. Closing Requirements.

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

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

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION

DRAFT

Deborah A. Getzoff
District Director
Southwest District

DRAFT

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	180 days prior to permit expiration	Submit permit renewal application
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion of construction	Submit certification of construction completion, record drawings, etc.
B.4.a.	At least 30 days prior to construction	Submit complete plans, specification, CQA plan, or statement that no changes have occurred; borrow source report; org. chart with parties/roles
B.4.b.	At least 30 days prior to installation of the geosynthetics	Submit interface friction testing results
B.4.c.	Prior to construction	Submit dewatering plan
B.4.d.	No later than 2 weeks prior to construction of: groundwater control system; connections to manholes; liner penetrations; spark testing; alternate seaming	Notify of construction initiation to allow for observation
B.4.e.	At least 1 week prior to full scale construction of low permeability layer	Submit Test Section Report
B.5.	At least 1 week prior	Notify of preconstruction meeting
B.6.a.	No later than 1 week after pre-construction meeting	Submit meeting minutes
B.6.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
B.8.e.	At least 1 week prior	Notify of night work

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ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
C.6.b.	Within 24 hours of discovery	Notification of: hazardous waste receipt, failure of landfill systems or equipment
	Within 7 days of verbal notification	Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.4.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
D.4.c.	No later than 60 days prior to receipt of waste	Submit proof of initial funding
E.1.a.	At least 30 days prior to completion of construction	Install new wells
E.1.b..	Within 60 days of completion of construction	Submit construction details and survey information for new wells
E.2.	At least 30 days prior to construction	Abandon MW-9, P-3, P-4, P-5, and P-12
F.1.	Within 90 days of permit issuance	Submit information to Air Resources Division in Tallahassee for Title V
F.3.b.	Within 60 days of completion of construction	Submit gas probe construction details
F.3.c.		Submit gas probe abandonment information
F.4.	Within 7 days of detection	Submit gas remediation plan
	Within 60 days of detection	Complete corrective actions
G.1.b(1)	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application

Pelz, Susan

From: Pelz, Susan
Sent: Tuesday, November 21, 2006 4:30 PM
To: Teresa Carver (teresa.carver@hardeecounty.net); Shane Fischer (SFischer@scsengineers.com); Ed Hilton (ehilton@scsengineers.com)
Subject: Draft GCL Mod
Importance: High
Attachments: 38414-10.SC.MM.DOC

Teresa,

Please find attached the draft permit for the GCL modification. Changes are in **GREEN**. Please let me know as early as possible next week if you have any comments/questions.

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

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

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



38414-10.SC.M
V.DOC (208 KB)

Pelz, Susan

From: Pelz, Susan
Sent: Tuesday, November 21, 2006 3:48 PM
To: Teresa Carver (teresa.carver@hardeecounty.net); Shane Fischer (SFischer@scsengineers.com); Ed Hilton (ehilton@scsengineers.com)
Subject: GCL modification
Importance: High

Teresa,

I am in the process of drafting the modified permit, and the request seems to imply that the County wants to have both options of installing the 6-inch low permeability layer or the GCL.

The design does not include provisions for having GCL under some portions of the LF and clay under other portions, so the County must choose. I believe since insufficient clay was found onsite, that the County wants to use GCL under the entire LF. Is this correct?

The Intent will likely go out next week, you'll need to publish, provide proof of publication, wait 2 weeks, then I will issue the modification (if no petitions).

I will be sending a separate letter concerning the conformed drawings.

Thanks & have a good Thanksgiving.

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

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

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

SCS ENGINEERS

TO Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, FL 33637

DATE November 9, 2006

JOB NO. 09199033.16

ATTENTION Susan Pelz

Re: Hardee County Phase II Section I

Construction Expansion

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____

☐ Shop drawings ☐ Prints

☐ Copy of letter ☐ Change Order

☐ The following items: ☐ Plans ☐ Samples

☐ Specifications ☐ _____

COPIES	DATE	DESCRIPTION
2	10/3/06	Minor Construction Permit Modification - Hardee County Phase II Section I Construction Expansion <i>(2 extra copies)</i>

THESE ARE TRANSMITTED as check below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ Copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ Copies distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ Corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 20 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS _____

COPY TO _____ SIGNED: Shane Fischer

*Dept. of Environmental
Protection
NOV 13 2006
Southwest District*

Pelz, Susan

From: Pelz, Susan
Sent: Wednesday, November 01, 2006 7:46 AM
To: Shane Fischer (SFischer@scsengineers.com); Teresa Carver (teresa.carver@hardeecounty.net)
Cc: Ed Hilton (ehilton@scsengineers.com); Morris, John R.; Morgan, Steve
Subject: Hardee GCL mod

Shane,

I reviewed the GCL mod information. Please provide two additional copies of the information submitted. I am considering the request to be complete and will be drafting revised permit conditions in November.

Please note that the revised permit will require the CQA consultant to conduct (or subcontract) the interface friction angle and GCL internal shear strength testing, instead of the Contractor (as stated in the specs). These results will be required to be provided to the Department prior to installation of GCL.

Please note also that since it is a construction project, an Intent will be sent out (with draft permit), publication of notice & 14-day petitioning period will be required prior to the modified permit being issued.

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

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

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

Tracking:	Recipient	Read
	Shane Fischer (SFischer@scsengineers.com)	
	Teresa Carver (teresa.carver@hardeecounty.net)	
	Ed Hilton (ehilton@scsengineers.com)	
	Morris, John R.	Read: 11/1/2006 7:52 AM
	Morgan, Steve	Read: 11/1/2006 7:55 AM

SCS ENGINEERS

TO Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

DATE October 6, 2006

JOB NO. 09199033.16

ATTENTION Susan J. Pelz *11/21/06*

Re: Hardee County Phase II Section 1

WE ARE SENDING YOU

☒ Attached ☐ Under separate cover via _____

☐ Shop drawings ☐ Prints

☐ Copy of letter ☐ Change Order

☐ The following items: ☐ Plans ☐ Samples

☐ Specifications ☐ _____

Landfill Expansion

Permit No. 38414-009-SC/MM

(Modification in accordance with 8/8/06) **Dept. of Environmental**

Protection

OCT 06 2006

COPIES	DATE	DESCRIPTION
1	9/25/06	Dewater Plan per Specific Condition B.4.c Southwest District

THESE ARE TRANSMITTED as check below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ Copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ Copies distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Returned for corrections | <input type="checkbox"/> Return _____ Corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ 20 _____ | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US | |

REMARKS _____

COPY TO _____

SIGNED: Shane R. Fischer, P.E./jlh

If enclosures are not as noted, kindly notify us at once.



Construction Corporation

September 25, 2006

Mr. Shane R. Fischer, P.E.
SCS Engineers
3012 U.S. Highway 301 North
Suite 700
Tampa, FL 33619-2242

Via Email sfischer@scsengineers.com.com
This Page Only!

RE: Hardee County Landfill Phase II Section I Expansion
COMANCO Job No. 03061189
Subj: Dewatering Plan

Dear Mr. Fischer:

Per the specifications, 00800, COMANCO is required to submit the above referenced plan which will encompass the specifications, permit and sequencing with notes identified on plan page 6 of 16. Additional points addressing general descriptions of equipment and operations are as follows:

- The basic equipment includes a 10" hydraulic submersible with environment friendly oil and associated rubber layflat hoses ranging from 6" to 8" for discharge that will run 300 ft lengths from a 6" hard hose or suction attached to the remote unit
- The basic equipment includes a 4" vacuum assist centrifugal self contained unit that is pulled behind, self priming, with a 4" hard hose or suction attached directly to the unit and discharges through rubber layflat hoses ranging from 4" to 6" and will run in 300 ft lengths
- The basic equipment includes 3" Honda Trash Pumps, very portable that can move daily water around operations to the temporary dewatering ponds through 2" and 3" rubber layflat hoses
- The basic equipment includes 2" electric submersibles run from portable generators and discharging 200 lf through 2" rubber layflat hoses to dry up puddles, sumps, structures, and pipe trenches daily as required
- The initial phase would include to investigate and verify the displacement over time of water from the Storm Water Management Area with a 10" hydraulic submersible, to the NE while excavating the Temporary Construction Dewatering Ponds
- The working phase includes the completion of the TCDP and temporary sumps with scrap pipes and gravel placed accordingly to transfer water as needed out of the SWMA to the TCDP
- The working phase includes the excavation of the new cell with temporary ditches and sumps placed accordingly to transfer water as needed out of the excavation area to the TCDP
- Heavy equipment will be utilized daily to construct swales or berms to direct surface water away from excavation areas and to the TCDP
- The excavation of the new cell includes a groundwater piping system that will be utilized as a sump to transfer water to the TCDP
- Pumping operations will be planned for minimal risk in the face of heavy equipment traffic, buried where necessary and routed per the sequence indicated on plan page 6 of 16

If you have any questions or require any additional information, please do not hesitate to contact me at (813) 988-8829 ext 137.

Sincerely,
COMANCO ENVIRONMENTAL CORPORATION

Paul T. Moore
Project Manager

SCS ENGINEERS

October 3, 2006
File No. 09199033.16

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Subject: Hardee County Phase II Section I Construction Expansion
Minor Construction Permit Modification
Construction Permit No. 38414-008-SC/01
Hardee County Landfill Facility

Dept. of Environmental
Protection
OCT 03 2006
Southwest District

Dear Susan:

On behalf of the Hardee County Board of County Commissioners (BOCC), SCS Engineers (SCS) submits the following request to the Florida Department of Environmental Protection (FDEP) for a minor modification to Specific Condition B.4.2 of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill Phase II Section I Construction Expansion. The purpose of the minor modification to the construction permit is to provide an alternative to the installation of the 6-inch low permeability soil layer. Rather than installing the 6-inch low permeability soil layer, a Geosynthetic Clay Liner (GCL) would be installed. This request for a minor permit modification is due to the lack of availability of the low permeability soil within the project area.

In addition, the 12-inch minimum compacted subbase which was to be installed prior to the installation of the low permeability soil layer would be increased so that the elevation of the top of the GCL material would be placed where the top of the 6-inch low permeability soil layer would have been placed. This will be done to keep all of the elevations as they are currently designed and permitted.

Please find enclosed the following information to support the request for the minor modification to Construction Permit No. 38414-008-SC/01:

- A slope stability factor of safety summary for the circular and block slope stability analyses in the east-west direction for the Phase II Section I Expansion area and the north-south direction is presented at the beginning of Attachment A.
- Revised slope stability calculations in the east-west direction for both circular and block failure planes, both with and without equipment loading, within the Hardee County Landfill Phase II Section I Construction Expansion area with a GCL material placed instead of the low permeability soil layer. Please refer to Attachment B for copies of the slope stability analyses. SCS did not change any of the material properties (waste strength, geomembrane interface friction angle, subgrade friction angle, etc.) from the

FILE

GCL mod
10/3/06

SCS ENGINEERS

PHONE 813-621-0080
3012 U.S. HIGHWAY 301 N., STE. 700
TAMPA, FL 33619

6391

DATE 10/2/2006

63-27/631 FL
28

PAY
TO THE
ORDER OF

Florida Dept of Environmental Protection

\$ 100.00

One Hundred and 00/100

DOLLARS

Security features
are included.
Details on back.

Bank of America



ACH R/T 063100277

FOR

Hardec Permit Mod

Rep J Ferri

MP


⑈006391⑈ ⑈063100277⑈ 003600948423⑈

SW

10.03.06

For Deposit Only
U.S. Dept. of Environmental Protection
Plot # 5585840

DO NOT WRITE, STAMP OR SIGN BELOW THIS LINE
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- You do not clearly see the words "Original Document"
- The Security Weave® pattern is absent
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- Colored stains or spots appear in dollar or amount area

U.S. Patent No. 5,510,199

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**Southwest District
Permitting Application**

Susan

New Site

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

Existing Site

Site ID:	38414-010	
Project Name:	Hardee Co GCL Mod	
Type/Subcode:	SC MM	
Fee submitted:	<input checked="" type="checkbox"/> correct	() incorrect
	\$100 SMALL COUNTY fee waiver	
Total Fee Required \$ _____ Need \$ _____ Refund \$ _____		

Applicant Information

Name:	Teresa Carver	
Role:	Applicant	
Company:		
Address:	ON file	
City:		Zip Code:
Phone:		

Fee verified by: PIELZ

Application Assigned To: PIELZ Date: 10/4/06

SCS ENGINEERS

September 26, 2006
File No. 09199033.16

Susan J. Pelz, P.E. *8/10/4*
Florida Department of Environmental Protection
13051 N. Telecom Parkway
Temple Terrace, Florida 33637

Subject: Hardee County Landfill
Phase II Section I Landfill Expansion Construction
Permit Number 38414-008-SC/01
Project Schedule

Dept. of Environmental
Protection
SEP 27 2006
Southwest District

Dear Ms. Pelz:

In accordance with Specific Condition 6.a of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill - Phase II Section I Expansion Construction, and on behalf of the Hardee County Board of County Commissioners, SCS Engineers (SCS) is supplying the Florida Department of Environmental Protection (FDEP) a copy of the estimated construction schedule provided by COMANCO Environmental Corporation (COMANCO).

The construction schedule currently reflects the installation of the low permeability soil layer. Based on email correspondence between SCS and FDEP, a minor modification to the construction permit will be submitted within the week that will replace the low permeability soil layer with a Geosynthetic Clay Liner (GCL). After the modification to the construction permit has been approved by FDEP, the construction schedule will be revised by COMANCO to indicate the installation of the GCL as apposed to the low permeability soil layer. The construction schedule will be submitted with the monthly progress reports as required by Specific Condition 6.b of Construction Permit No. 38414-008-SC/01.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,



Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS



C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Teresa Carver, Hardee County Solid Waste Director
Jeff Glass, FDEP

SRF/CEH:srf



ID	Task Name	Duration	Start	Finish	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16	Week 17	Week 18	Week 19	Week 20	Week 21	Week 22	Week 23	Week 24	Week 25	Week 26
					9/10	9/17	9/24	10/1	10/8	10/15	10/22	10/29	11/5	11/12	11/19	11/26	12/3	12/10	12/17	12/24	12/31	1/7	1/14	1/21	1/28	2/4	2/11	2/18	2/25	3/4
1	Mobilization & Survey	14 days	Tue 9/12/06	Sat 9/30/06																										
2	Temp Erosion & Sed Control	14 days	Tue 9/12/06	Sat 9/30/06																										
3	Excavation Temp Dewater Ponds	12 days	Mon 10/2/06	Wed 10/18/06																										
4	Repiece Existing Leachate Lines	8 days	Mon 10/2/06	Thu 10/12/06																										
5	Dewater SWMA	6 days	Mon 10/9/06	Tue 10/17/06																										
6	Excavation & Dewater SWMA	24 days	Mon 10/16/06	Fri 11/17/06																										
7	SWMA Littoral & Structures, Stabilize	18 days	Thu 11/2/06	Thu 11/30/06																										
8	Excavate & Dewater Landfill Cell	24 days	Thu 10/19/06	Tue 11/21/06																										
9	Provide & Install Groundwater Collection	30 days	Wed 11/15/06	Mon 1/1/07																										
10	12" Landfill Cell Subbase	12 days	Mon 12/4/06	Wed 12/20/06																										
11	Low Permeability Soil Layer	23 days	Mon 12/18/06	Sat 1/20/07																										
12	Primary 60 Mil & Triplaner Composite	3 days	Mon 1/22/07	Thu 1/25/07																										
13	Leachate Collection System	16 days	Mon 1/15/07	Mon 2/5/07																										
14	Secondary 60 Mil & Biplaner Composite	5 days	Mon 1/29/07	Sat 2/3/07																										
15	Sand Layer	18 days	Mon 2/5/07	Thu 3/1/07																										
16	Rain Tarp	3 days	Fri 3/2/07	Tue 3/6/07																										
17	Shell & Asphalt Roads	6 days	Wed 2/28/07	Thu 3/8/07																										

Project: Hardee County Schedule
Date: Tue 9/19/06
COMANCO Environmental Corp
Project Number 03061189

Task
Split

Progress
Milestone

Summary
Project Summary

External Tasks
External Milestone

Deadline

Southwest District
SEP 27 2006
Dept. of Environmental Protection

SCS ENGINEERS

September 1, 2006
File No. 09199033.16

Florida Department of Environmental Protection
Environmental Administrator
Environmental Resource Management Program
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Subject: Hardee County Landfill
Phase II Section I Landfill Expansion
Permit Number 25-0124892-002
Progress Report

Dept. of Environ
Protect

SEP 01

Dept. of Environmental
South Protection

SEP 01 2006

Southwest District

Dear Sir or Madam:

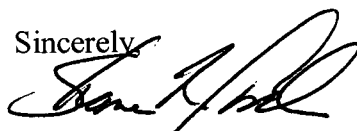
In accordance with Specific Condition 10 of Permit No. 25-0124892-002 for the Hardee County Landfill, and on behalf of the Hardee County Board of County Commissioners, SCS Engineers (SCS) is submitting this initial Biannual Report for the permitted project.


Currently no construction activities have been initiated for the permitted project. A pre-construction meeting has been scheduled for Tuesday, September 12, 2006 at 10 a.m. between representatives with the County, COMANCO Environmental Corporation (the contractor awarded construction of Phase II Section I) and SCS. In addition, Susan J. Pelz, P.E., the Florida Department of Environmental Protection (FDEP) Solid Waste Program Manager, has been notified of the pre-construction meeting. At the time of the pre-construction meeting, COMANCO will be providing SCS with an anticipated schedule and amount of future work that will be conducted. Once the schedule is obtained from COMANCO SCS will forward a copy to the Department.

This report represents a true and accurate description of the activities conducted during the six month period covered by this report.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,

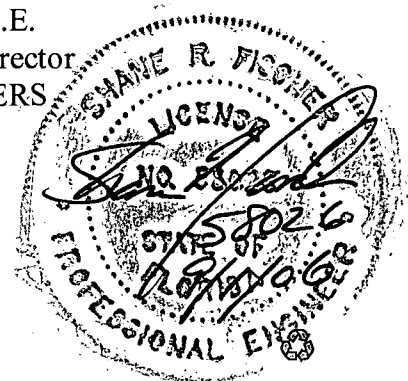

Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS


for C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Teresa Carver, Hardee County Solid Waste Director

SRF/CEH:srf

Offices Nationwide



SCS ENGINEERS

pt. of Environmental
Protection

September 1, 2006
File No. 09199033.16

SEP 01 2006

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Southwest District

Subject: Hardee County Landfill
Phase II Section I Landfill Expansion Construction
Permit Number 38414-008-SC/01
Pre-construction Meeting

Dear Ms. Pelz:

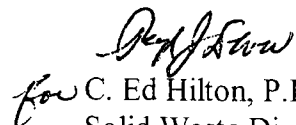
In accordance with Specific Condition B.5 of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill - Phase II Section I Construction, and on behalf of the Hardee County Board of County Commissioners, SCS Engineers (SCS) is notifying the Florida Department of Environmental Protection (FDEP) of a scheduled date for the pre-construction meeting.

The pre-construction meeting has been scheduled for Tuesday, September 12, 2006 at 10 a.m. Unfortunately, due to the limited space available at the Hardee County Landfill administration building and scheduling conflicts with the installation of electricity within the construction trailer at the time of the pre-construction meeting, SCS would like to hold the meeting at our office rather than at the Hardee County Landfill as stated within the construction permit. This location has been mutually agreed upon between the County, COMANCO Environmental Corporation and SCS.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,


Shane R. Fischer, P.E.
Project Manager
SCS ENGINEERS


for C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Jeff Glas, FDEP
Teresa Carver, Hardee County Solid Waste Director

SRF/CEH:srf



SCS ENGINEERS

August 9, 2006
File No. 09199033.16

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Dept. of Environmental
Protection

AUG 09 2006

Southwest District

Subject: Hardee County Phase II Section I Construction Expansion
Clarifications of Conformed Documents
Construction Permit No. 3814-008-SC/01
Hardee County Landfill Facility

Dear Susan:

SCS Engineers (SCS) previously submitted to the Florida Department of Environmental Protection (FDEP) the Conformed Construction Documents dated June 20, 2006 per Specific Condition B.4(a)(1) of Construction Permit No. 3814-008-SC/01 for the Hardee County Landfill Phase II Section I Construction Expansion.

Based on your comments in the email dated August 7, we have prepared an updated submittal of the plans for your use. This was done to simplify your review process in comparing the permit set with the Conformed set. In going through this process we have developed a spreadsheet that relates by sheet number and detail number each detail on the Conformed Plans to the corresponding detail from the permit set of drawings and comments explaining any modifications or noting "No change". No details were added nor removed from the plan sets attached to this document; however, some were modified to clarify the conditions and conformance with the original permitted plans.

As a general comment the plan sheets have not been changed except to remove from the construction drawings any construction plans for Phase II, Section II, which was not included in the construction permit. Some comments were added to certain plan sheets as follows:

- Sheets 5 and 7 of the Conformed Plans show notes related to the groundwater control pumps. Previous discussion on this issue has provided for the County to monitor the actual amount of groundwater collected in the groundwater collection system prior to installing the permanent pump system into the wet well.
- Sheet 7 shows the leachate pipe replacement for the existing 8-inch pipe to be replaced by a 10-inch leachate pipe between MH6, MH7, and MH8 (pump station), as per previous discussion. The plan view also shows the new connection from the leachate collection and detection pumps to the forcemain to the leachate storage tanks.



Ms. Susan Pelz, P.E.
August 9, 2006
Page 2

Beyond these comments and those on the attached spreadsheet we are not aware of other modifications. The intent of the permit documents are vested in the Conformed Plans.

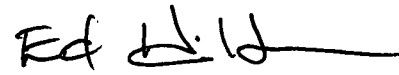
As you are aware the County is utilizing the last of the available capacity of Phase I. It is very important that the construction begin to avoid the County running out of capacity before the operations permit is issued. We request that the County be allowed to proceed immediately with the construction activities and if any remaining issues from the review of the Conformed Plans arise we will coordinate directly with you to resolve them.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,



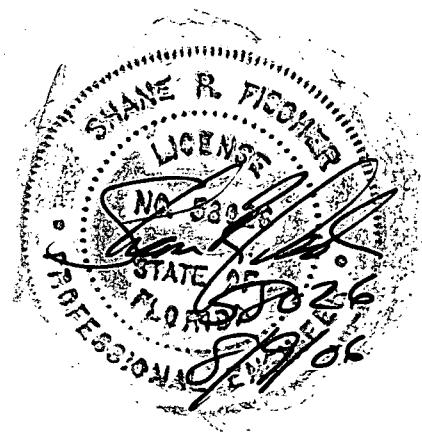
Shane R. Fischer, P.E.
Senior Project Professional
SCS ENGINEERS



C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Teresa Carver, Hardee County Solid Waste Director

SRF/CEH:srf



HARDEE COUNTY DETAIL REFERENCE BETWEEN CONFORMED DOCUMENTS AND PERMIT DOCUMENTS

8/7/2006

Permit Documents		Conformed Documents		Comments
Sheet #	Detail #	Sheet #	Detail #	
18A	A	9	A	No change
18A	B	9	B	No change
18	1	10	1	The Conformed Documents detail does not show the relationship with the future waste fill nor its associated dimensions since it does not effect construction. Other than that there is no change.
18	3	10	2	The Conformed Documents detail does not show the relationship with the future waste fill nor its associated dimensions since it does not effect construction. Other than that there is no change.
18	4	10	3	The Conformed Documents detail does not show the relationship with the future waste fill nor its associated dimensions since it does not effect construction. Other than that there is no change. A stormwater diversion berm has been added on the Conformed Documents detail to attempt to prevent stormwater from the south face of Phase 1 from washing into the new cell.
27	5	10	4	No change
27	4	10	5	No change
17	F	10	A	The Conformed Documents do not show components of Phase II, Section II, as shown on the permit detail. Other than that there are no changes.
20	4	11	1	Text in detail on Conformed Documents was modified to not allow limestone rock in the leachate collection system
20	3	11	2	No change
20	5	11	3	The Conformed Documents detail does not show the relationship with the future waste fill nor its associated dimensions. Other than that there is no change.

Permit Documents		Conformed Documents		Comments
Sheet #	Detail #	Sheet #	Detail #	
20	1	11	4	The Conformed Documents Detail notes that the stormwater power & pumps will be provided outside of the construction contract from another source. Since the pumps will not be installed by the contractor the schedule of valves and fittings shown on the permit detail were not included on the Conformed Plans. See note #2 on the detail on the Conformed Plans for clarification of work to be done on this contract..
20	2	11	5	The Conformed Documents do not show the part of the permit detail that applies to Phase II, Section II.
23	1	12	1	The County will be provided by the contractor two sets of 200 gpm pumps for the leachate collection system with one as a spare. The County will be provided two sets of 10 gpm pumps for the leachate detection system with one as a spare. At any point if needed the spare 200 gpm pump can be substituted for the 10 gpm pump. Other than that there is no change.
23	2	12	2	No change
23	3	12	3	No change
23	A	12	A	Details were added to the Conformed Documents detail to show piping due to change in connection point of collection and detection forcemains from the existing pump station to the forcemain to the leachate storage tanks. Site power supply is 240 volt-3 phase as shown on Conformed Plans. A sleeve was added under the access road for leachate collection and detection leachate line to connect to existing forcemain that connects to the leachate storage tank. A note was added for thrust blocks.

Permit Documents		Conformed Documents		Comments
Sheet #	Detail #	Sheet #	Detail #	
23	B	12	B	Details were added to the Conformed Documents detail to show piping due to change in connection point of collection and detection forcemains from the existing pump station to the forcemain to the leachate storage tanks. Details modified to show site power supply is 240 volt-3 phase as shown on Conformed Documents.
24	1	13	1	No change
24	2	13	2	The plan view on the permit documents detail was not included on the Conformed Documents for clarity of piping
24	5	13	3	No change
24	2A	13	4	No change
24	6	13	5	No change
21	1	14	1	No change
5	1	14	2	No change
21	2	14	3	No change
21	4	14	4	Detail D-D was modified as per meeting with DEP ERP group to show only one 3 inch bleeder. Note this meeting was held after the solid waste permit was issued.
18	D	14	A	No change
18	A	14	B	No change
18	B	14	C	No change
18	E	14	D	No change
18	C	14	E	No change
21	3	15	1	No change
15		15	2	No change
18	F	15	3	No change
18	5	15	4	No change
15	1	15	5	No change
15		15	6	No change
15		15	7	No change

Permit Documents		Conformed Documents		Comments
Sheet #	Detail #	Sheet #	Detail #	
19	5	16	1	The Conformed Documents detail provides for the replacement of the existing 8 inch leachate collection pipe with a 10 inch pipe. The leachate transmission lines are removed from this detail as they now will tie directly to the existing leachate forcemain that connects directly to the leachate storage tanks. These modification were previously discussed with Susan Pelz.
19	1	16	2	The Conformed Documents detail provides for the replacement of the existing 8 inch leachate collection pipe with a 10 inch pipe as per previous discussion with Susan Pelz.
19	4	16	3	No change
19	2	16	4	The Conformed Documents detail provides for the replacement of the existing 8 inch leachate collection pipe with a 10 inch pipe as per previous discussion with Susan Pelz.
19	3	16	5	The Conformed Documents detail provides for the replacement of the existing 8 inch leachate collection pipe with a 10 inch pipe as per previous discussion with Susan Pelz.

Memorandum

Florida Department of Environmental Protection

PERMIT COVER MEMO

TO: ☒ J.M. Farley, Interim District Director

FROM/THROUGH:

William Kutash

Susan Pelz, P.E.

ENVIRONMENTAL ADMINISTRATOR
SOLID WASTE PROGRAM MANAGER

DATE: August 6, 2006

FILE NAME: Hardee Co. LF Phase II LF Exp.
PROGRAM : Solid Waste

Mod #38414-009-SC/MM to
PERMIT #: 38414-008-SC/01
COUNTY : Hardee

TYPE OF PERMIT ACTION: ISSUE

PUBLIC NOTICE PERIOD CLOSED?

N/A

PETITION FILED? N/A

PERMIT SUMMARY: This permit modification allows a revised interface friction angle for the liner materials. Revised slope stability calculations, specifications and CQA Plan were provided.

PROFESSIONAL RECOMMENDATION: ☒ APPROVE ☐ DENY

EVALUATION SUMMARY: The applicant has provided sufficient information to demonstrate compliance with Department Rules.

		TTP
Application received	05/18/06	
Application complete	05/18/06	
Conformed documents rec'd	06/29/06	
Requested additional information via email	07/02/06	46
Additional information rec'd	07/10/06	
Final permit for routing	08/07/06	28

Total processing time (TIH)= 80 days (to 08/06/06)
Department processing time (TTP) = 74 days (to 08/06/06)

DAY 90/30 FOR THIS ACTION IS: ASAP - Day 90=08/20/06

UNITED STATES POSTAL SERVICE
LANEALAND FL 333

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

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



7004 0750 0003 0516 5001

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Teresa Carver, Director
Hardee County Solid Waste Dept.
685 Airport Road
Wauchula, FL 33873

PS Form 3800, June 2002

See Reverse for Instructions

Is your RETURN ADDRESS completed on the reverse side?

SENDER: ISSUED PERMIT MOD # 38414-009-SC/MH

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b to ~~EXISTING~~ PERMIT 38414-009-SC
- Write your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

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

- ☐ Addressee's Address
- ☐ Restricted Delivery

Consult postmaster for fee.

3. Article Addressed to:

1a. Article Number

7004 0750 0003 0516 5001

Teresa Carver, Director
Hardee County Solid Waste Dept.
685 Airport Road
Wauchula, FL 33873

4b. Service Type

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

7. Date of Delivery

8-11-06

5. Received By: (Print Name)

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

6. Signature: (Addressee or Agent)

PS Form 3811, December 1994

Domestic Return Receipt

Thank you for using Return Receipt Service.



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

CERTIFIED MAIL 7004 0750 0003 0516 5001
RETURN RECEIPT REQUESTED

August 8, 2006

NOTICE OF PERMIT

Hardee County Solid Waste Department
Ms. Teresa Carver, Director
685 Airport Road
Wauchula, Fl. 33873

RE: Hardee County Landfill
Geocomposite friction angle modification
Modification #38414-009-SC/MM to existing
Construction Permit #38414-008-SC/01

Dear Ms. Carver:

Attached is modified Construction Permit 38414-008-SC/01, issued pursuant to Section(s) 403.087(1), Florida Statutes. The following Conditions have been revised in modification number 38414-009-SC/MM:

SPECIFIC CONDITIONS	FROM	TO	TYPE OF MODIFICATION
General Information Table	Existing	Amended	Revised interface friction angle.
A.2.a(1), A.2.a(2)	Existing	Replaced	Specs & CQA Plan replaced by conformed docs
A.2.a(3)	N/A	New	Geocomposite interface friction angle documentation
A.2.f.	N/A	New	References conformed Specs & CQA Plan
B.11.e.	Existing	Amended	Revised interface friction angle.

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

"More Protection, Less Process"

Printed on recycled paper.

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

A person whose substantial interests are affected by the Department's proposed permitting decision may petition for an administrative proceeding (hearing) under Sections 120.569 and 120.57, F.S. The petition must contain the information set forth below and must be filed (received) in the Office of General Counsel of the Department at 3900 Commonwealth Boulevard, Mail Station 35, Tallahassee, Florida 32399-3000.

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

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

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

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

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

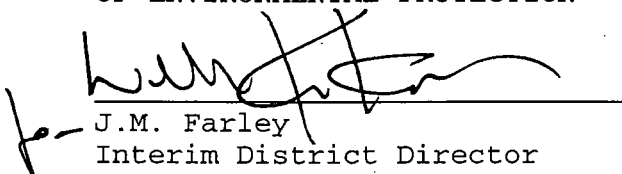
Because the administrative hearing process is designed to formulate final agency action, the filing of a petition means that the Department's final action may be different from the position taken by it in this notice. Persons whose substantial interests will be affected by any such final decision of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

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

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

Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


J.M. Farley
Interim District Director
Southwest District

JMF/sjp
Attachment

Copies furnished to:

C. Ed Hilton, P.E., SCS Engineers, Inc., 3012 US Hwy 301 North, Ste. 700, Tampa,
Fl. 33619-2242
Hardee County Board of County Commissioners
Hardee County Notification List
Pat Comer, OGC Tallahassee
Richard Tedder, P.E., FDEP Tallahassee
Fred Wick, FDEP Tallahassee
Permit Notebook

CERTIFICATE OF SERVICE

This undersigned duly designated deputy clerk hereby certifies that this **NOTICE OF PERMIT** and all copies were mailed before the close of business on August 8, 2006 to the listed persons.
(date stamp)

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

Anna Slaw
Clerk

8/8/06
Date



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

PERMITTEE

Hardee County Solid Waste
Department
Ms. Teresa Carver, Director
685 Airport Road
Wauchula, Florida 33873

PERMIT/CERTIFICATION

WACS Facility ID No: SWD/25/40612
Permit No: **38414-008-SC/01**
Date of Issue: 02/27/06
Expiration Date: **02/27/11**
County: Hardee
Lat/Long: 27°34'17"N
81°46'58"W
Sec/Town/Rge: 35/33S/25E
Project: Hardee County Landfill
Phase II Construction

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

To **construct** an expansion of a Class I landfill (approximately 5 acres), referred to as the **Hardee County Landfill (Phase II, Section I)**, subject to the specific and general conditions attached, located specific and general conditions attached, **located at 685 Airport Rd., Wauchula, Hardee County, Florida**. The specific conditions attached are for the construction of:

1. Class I Landfill, Phase II, Section 1

and related appurtenances

Replaces Permit No.: N/A, new

Includes modification #38414-009-SC/MM, dated 08/08/2006.

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

"More Protection, Less Process"

General information, Phase II (unless noted):

Disposal acres	Approx. 5 acres (Phase II, Section I only) [ref. SC#A.2.a., Section S]
Lowest Bottom elevation of cell - NE corner of Phase II, Section I (Point 9C)	+79.2 ft. NGVD (pipe, pre-settlement), +78.66 ft. NGVD (pipe, post settlement) [ref. SC#A.2.d., Sheet 12 of 27; SC#A.2.a., Section J, <i>Settlement Calculations</i>] Bottom of 6-inch low permeability layer= +78.5 ft. NGVD [ref. SC#A.2.a., Section J, page 15]
Top elevation at final buildout (entire landfill-including cover)	max. +159.5 feet NGVD [ref. SC#A.2.a., Part H.1; SC#A.2.d., Sheet 14 of 27]
Sideslopes max.	3H:1V [ref. SC#A.2.d., Sheets 14, 16 and 17 of 27]
Liner system (bottom to top)	12-inch compacted subgrade, 6-inch low permeability soil (1×10^{-5} cm/sec), 60 mil textured HDPE geomembrane, triplanar geocomposite (geotextile/geonet/geotextile), 60 mil textured HDPE geomembrane, biplanar geocomposite (geotextile/geonet/geotextile), 2-foot drainage sand [ref. SC#A.2.d., Detail 1/Sheet 24 of 27]
LCS drainage system	Drainage/protective sand $\geq 1 \times 10^{-3}$ cm/sec [ref. SC#A.2.d., Detail 1/Sheet 24 of 27; Spec. 02220-2.06] Two trenches draining from west to east. 8-inch SDR 11 HDPE perforated LCS piping. [ref. SC#A.2.d., Section A, Sheet 23 of 27, Detail 5, Sheet 24 of 27] LCS pipes drain to sumps on east side, then pumped through sideslope risers through forcemain to lift station; from lift station through existing HDPE force main to tanks [ref. SC#A.2.d., Sheets 9 and 19 of 27]
LDS drainage system	Triplanar geocomposite to sump, then same as LCS
Action leakage rate (ALR)	260 gal/ac/day [ref. SC#A.2.a., Part H.2.c.4, page H-14]
Design life	5 years [ref. Appl. Form #A.14.],
Interface friction angles	All interfaces=20.5°; GM/bi-planar composite drainage net (CDN) [Spec. 02776-2.02.F.]; GM/tri-planar CDN [Spec. 02776-2.02.G.], bi-planar CDN/soil [Table 02931-3, Note 2] Amended 08/08/2006.
Leachate storage tanks	Two epoxy painted steel, open top tanks; approximately 79,000 gallons each; secondary containment: tank in a tank nominal diameter= 30 feet, 16 ft tall

GENERAL CONDITIONS:

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

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

GENERAL CONDITIONS:

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

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

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

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

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

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

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

13. This permit also constitutes:

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

GENERAL CONDITIONS:

14. The permittee shall comply with the following:

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

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

(c) Records of monitoring information shall include:

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

2. **Permit Application Documentation.** This permit is valid for construction of the Phase II expansion of the Class I landfill and related systems (including but not limited to: lined Class I disposal unit, modification of leachate collection and removal system, groundwater interceptor system) in accordance with Department rules, and the reports, plans and other information prepared by SCS Engineers [SCS], Inc. (unless otherwise specified) as follows:

a. Hardee County Landfill Expansion, Construction Permit Application,... (Volumes I and II, 3-ring binders) dated April 2004 (received April 8, 2004), as revised, replaced or amended (information inserted into original) dated November 19, 2004, May 20, 2005 (received May 23, 2005 and July 27, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006). This information includes, but is not limited to:

1) Volume I, Attachment H-2, *Construction Quality Assurance Plan*, [CQAP],
Replaced 08/08/2006 {See SC#A.2.f.}.

2) Volume I, Attachment H-1, *Technical Specifications* [Specs.];
Replaced 08/08/2006 {See SC#A.2.f.}.

3) "Hardee County Phase II Section I Construction Expansion,... Geocomposite/HDPE Geomembrane Interface Friction Angle,..." dated May 9, 2006 (received May 18, 2006) and additional information dated July 7, 2006 (received July 10, 2006) (inserted into 3-ring binders listed in SC #A.2.a).
New 08/08/2006.

b. Responses to Request for Additional Information,... (three-ring bound document) dated November 15, 2004 (received November 19, 2004) as revised, replaced or amended May 20, 2005 (received May 23, 2005), November 30, 2005, and January 24, 2006 (received January 25, 2006) (attachments inserted into original [ref. SC#A.2.a];

c. Operations Plan for Hardee County Landfill,... (three-ring binder) dated November 19, 2004, as revised, replaced or amended May 20, 2005 (received May 23, 2005 and July 27, 2005), and January 24, 2006 (received January 25, 2006).

d. Plan Sheets titled, Hardee County Landfill Expansion Construction permit,... (29 sheets) dated April 2004 (received January 25, 2006) including sheets revised November 19, 2004, May 13, 2005, May 20, 2005, September 23, 2005, and December 2, 2005;

e. Operational drawings (reduced size), sheets OP-1 through OP-7, dated May 2005 (received May 23, 2005);

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

f. Conformed Documents, Phase II Section I Landfill Expansion, Hardee County,... dated June 20, 2006 (received June 29, 2006), including (replaces information in SC#A.2.a(1), and A.2.a(2) above):

- 1) Conformed Technical Specifications [Specs.]
- 2) CQA Plan (Exhibit A)

New 08/08/2006.

3. **Permit Modifications.**

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

b. This permit does not authorize landfill closure construction or construction of the Phase II, Section II Landfill. This permit does not authorize operation of the Phase II landfill.

4. **Permit Renewal.** No later than one hundred eighty (180) days before the expiration of the Department Permit, the permittee shall apply for a renewal of a permit on forms and in a manner prescribed by the Department, in order to assure conformance with all applicable Department rules. Permits shall be renewed at least every five years as required by Rule 62-701.320(10)(b), F.A.C.

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

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

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

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

SPECIFIC CONDITIONS: PART A -Solid Waste Facility General Requirements

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

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

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

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

d. The lowest cell bottom elevation is **+78.5 feet NGVD** (subgrade, pre-settlement at NE corner of Phase II, Section I) and the Phase II design includes a groundwater control layer below the liner system. However, in the event that subsequent groundwater monitoring indicates that the groundwater elevation is not effectively removed by the groundwater control layer, information that addresses the requirements of Rule 62-701.400(11), F.A.C. shall be submitted for Department review and approval. In the event that corrective actions are required, a permit modification may be required.

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

a. This permit authorizes the construction of the Phase II, Section I, Class I disposal facility, leachate force mains and related appurtenances (including groundwater control system). This permit does not authorize the **operation** of Phase II. Operation of Phase II shall require a new permit or modification of Operation Permit no. 38414-007-SO 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.

a. **Within sixty (60) days** after construction has been completed and **prior to the acceptance of waste**, the following activities shall be completed and submitted by the permittee, and shall be approved by the Department:

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

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

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

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

3. **Record Drawings/Documents.**

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

- 1) Location of all anchor trenches,
- 2) As-built elevations for the leachate collection pipes (including elevations in the trenches and inverts);
- 3) Daily construction reports (CQA and general contractor);

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

- 4) As-built drawings showing the geomembrane panel installation layout, locations of fabricated and field seams, type of seams, destructive sampling locations, locations of all repairs, panel designations;
 - 5) All geomembrane destructive test results;
 - 6) Copies of photographs documenting all stages of the construction project.
 - 7) Details for the groundwater control system, including but not limited to, elevations for piping; discharge location details, etc.;
 - 8) Documentation that demonstrates that all leachate collection system piping has been video inspected and/or pressure cleaned. This documentation shall also detail all deficiencies discovered and corrective actions taken; and
 - 9) Surveys of the top of subgrade, and top of drainage sand layer for the constructed cell (including sideslopes) (see Response #H.2.d.3., dated November 19, 2004).
- b. The Record Documents shall include as-built surveys which demonstrate that the lowest elevation of the cell floor has been constructed no lower than **+79.2 feet NGVD (at NE corner of Section 1 LCS)** [ref. SC#A.2.d., Sheet 12 of 27], or as otherwise approved by the Department.
4. **Pre-Construction Submittals.**
- a. **At least thirty (30) days prior** to initiation of construction activity, unless otherwise specified, the permittee shall submit the following information to the Department:

- 1) A complete set of Plans, Specifications and CQA Plan to be used for construction which includes all changes (i.e., all additions, deletions, revisions to the plans previously approved by the Department). Significant changes in the plans, as determined by the Department, shall require a permit modification. All changes in the plans shall be noted on the plans and accompanied by a narrative indicating the change, the cause of the deviation, and a re-certification of the alternate design by the design engineer. These alternate designs shall be approved by the Department prior to construction. If no changes have been made to the construction plans, Specifications or CQA Plan, the permittee shall notify the Department in writing that no changes have been made, and re-submittal of these documents will not be required prior to construction;
- 2) The borrow source qualification information required by Rule 62-701.400(8)(c), F.A.C., for the low permeability soil materials [see Spec. 02212-1.03.C.1.]. The Borrow Source Report shall demonstrate that the low permeability soil material meets the required hydraulic conductivity at the 98% confidence level [Spec. 02212-2.02.B.1.]; and
- 3) The role and name of the specific company/organization for each of the parties in the Project team [CQAP Figure 1].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

b. **At least 30 days prior to initiation** of installation of the geosynthetics, the results of the interface friction testing using actual construction materials shall be submitted to the Department [ref. SC#A.2.a., Part H.2.d.7., page H-16; Spec. 02776-1.04.A.13 & 14, 02776-2.02.F & G.]. The results must demonstrate that each liner system interface exhibits a minimum safety factor of 1.5 against sliding. Placement of the geomembrane shall not proceed prior to the Engineer's receipt of the results of the interface friction testing which meet the requirements of this condition.

c. **Prior to initiation of construction**, the Permittee shall submit a copy of the contractor's dewatering plan to the Department for review. [See Spec. 02140-1.03.A.] Two copies shall be provided: one copy to the Solid Waste Section, and one copy to the Industrial Wastewater Section. In the event that a dewatering permit is required by the Department's Industrial Wastewater Section, dewatering shall not proceed until that permit is obtained. Dewatering water shall only be discharged into areas that have been properly prepared to receive the discharge [Spec. 02140-3.02.F.].

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

- 1) the construction of groundwater control system;
- 2) connection of new LCS and LDS to lift station and/or manholes;
- 3) the construction of liner penetrations;
- 4) spark testing of any welds; and
- 5) seaming performed using a method other than double-fusion (wedge) or extrusion welding.

e. **At least 1 week prior to full scale construction** of the low permeability soil layer, the permittee shall submit the Test Section Report [Spec. 02212-1.03.D.] to the Department.

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

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

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

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

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

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

7. Construction Tolerances.

- a. Invert elevations of the leachate collection pipes shall be recorded at least every 50 feet to demonstrate that the leachate collection system has been constructed to the slopes and grades shown on the drawings. This information shall be included with the Record Documents.
- b. The tolerance for the elevations of the top of the leachate collection/detection trenches, and invert elevations of piping above the liner system shall be ± 0.10 ft. The leachate collection/detection sumps, trenches, piping shall be constructed no lower than the elevations specified on the drawings.
- c. As-built topographic surveys shall demonstrate that each liner component, groundwater control system, top of sand drainage layer, leachate collection system, piping, etc., was constructed within the tolerance required by the Drawings and Specifications.
- d. The sand drainage layer shall be constructed to a minimum installed thickness of 24 inches.

8. Construction Quality Assurance.

- a. Liner and leachate collection systems shall have a construction quality assurance plan to provide personnel with adequate information to achieve continuous compliance with the construction requirements. The Construction Quality Assurance Plan shall be in accordance with Rules 62-701.400(7) and (8), F.A.C., the CQA Plan [ref.SC#A.2.a(1)], and the conditions of this permit. The professional engineer or his designee shall be on-site at all times during construction (including liner system and leachate collection) to monitor construction activities.
- b. A complete set of construction drawings and shop drawings, which include daily additions, deletions and revisions, shall be maintained on-site at all times for reference. Drawings which show the locations of geomembrane panel seams and repairs shall be kept on-site at all times for reference. Work shall not be concealed until required information is recorded. [Spec. 01300-1.07.B.; CQAP 7.0.]

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

c. Leachate shall not be deposited, injected, dumped, spilled, leaked, or discharged in any manner to the land, surface water or groundwater outside the liner system at any time during the construction activities.

d. Unsatisfactory, defective or non-conforming work shall be reported to the Engineer and shall be corrected, or the reasons for not correcting the work shall be recorded and maintained onsite for reference and inspections. Documentation of the corrections or reasons for not correcting the work shall be submitted with the Record Documents required by Specific Conditions #B.2 and #B.3.

e. Construction activities such as geomembrane seaming, QA/QC testing of the geosynthetic materials, surveying, etc. shall not be carried out in non-daylight hours without prior Department approval. [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.] If these activities will be conducted during nighttime hours, the Department shall be notified **at least 1 week** in advance to allow for Department observation. This notification shall include a description of the methods which will be used to provide adequate illumination to ensure that the quality of the construction is not compromised.

f. Sandbags or other temporary anchoring devices shall be removed prior to subsequent placement of materials over the geosynthetics.

g. Where sod is used over lined areas, pegging of sod shall not damage the liner.

h. All portions of the leachate collection system, liner and groundwater control system construction shall be observed and documented by the CQA Consultant.

i. CQA daily reports shall include weather conditions (e.g., precipitation, temperature).

j. Areas to be backfilled, including trenches, shall be free of building debris, rubbish, and water.

k. Runoff from stockpiled soils shall not discharge to surface water bodies or wetlands such that Department surface water standards are violated at the point of discharge.

l. All excavations shall be maintained free from standing water. Except for the stormwater management system construction, no construction, including pipe laying, shall be allowed in water. Groundwater shall be maintained at least 12 inches below excavations. In the event that it appears that the excavation is being impacted by groundwater, the contractor shall take the corrective actions necessary to demonstrate that the groundwater is sufficiently below the bottom of the excavation.

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

SPECIFIC CONDITIONS: PART B - Construction Requirements

10. Soil Materials.

- a. Surfaces adjacent to geosynthetics (including the subgrade) shall be smooth and free of depressions, rocks, stones, sticks, roots, sharp objects, or debris.
- b. The low permeability soil shall be free from organics, roots, rubbish, debris or rocks greater than ¼ inch in any dimension, sticks greater than ¼ inch in diameter, calcareous deposits or any other deleterious material [Spec. 02212-2.01.B; 02776-3.03.A.].
- c. The protective cover soil/sand shall have a minimum permeability of 1×10^{-3} cm/sec. [Spec. 02220-2.06.A.] A sufficient number of permeability tests shall be performed on the drainage sand material to demonstrate the required permeability [see Table 02220-3].
- d. Soils shall not be imported or used for construction in the low permeability soil layer until approved by the Department [see Spec. 02212-1.03.C.2.c.].
- e. In the event that portions of the low permeability soil layer must be replaced, a minimum of 4 additional permeability tests shall be conducted for each area of low permeability soil to be retested [Spec. 02212-3.03.G.]. Hydraulic conductivity tests for the low permeability soil layer shall be conducted in accordance with ASTM D5084. Two stage borehole procedures shall not be used exclusively [See CQA 5.3.2.].
- f. The frequency of thickness, moisture content, permeability and density tests listed in Table 02212-3 shall be doubled for the first 5 acres of low permeability soil installation as required by Rule 62-701.400(8)(e), F.A.C. The frequency of the tests listed in Table 02212-4 shall be doubled for the first 5 acres of low permeability soil installation.
- g. Conformance tests of the rounded river rock [Spec. 02220-2.04] that will be used in the leachate collection and detection systems shall be taken in accordance with Table 02220-3.

11. Geosynthetic Materials.

- a. Conformance testing.
 - 1) The CQA Consultant or designee shall take conformance samples of the geosynthetics materials [CQAP 6.1.2.2.]. Conformance testing for the geosynthetic materials shall be in accordance with the Specifications. The geosynthetics shall meet the requirements listed in Specification Tables 02776-2 (geomembrane), Tables 02930-1, 2 and 3 (tri-planar composite drainage net (CDN)), Tables 02931-1, 2 and 3 (bi-planar CDN) or this permit, whichever is more stringent. Conformance testing of the geomembrane shall include environmental stress cracking and oxidative induction time. In all cases, the test results shall meet or exceed the property values in the Specifications.
 - 2) Conformance samples of the geosynthetics may be taken by the permittee's representative or CQA consultant prior to shipment of the material to the jobsite. In this case, once sampled geosynthetics shall not be added to or removed from the shipment [Spec. 02776-3.02.A.2.].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

b. Seaming.

- 1) Seaming processes other than fusion or extrusion welding shall be approved by the Engineer and submitted to the Department prior to implementation.
- 2) Seaming apparatus or personnel which have failed trial welds shall not be used for seaming until passing welds are achieved.
- 3) Geomembrane seaming activities shall only be conducted during daylight hours and within the weather requirements of the Specifications, unless otherwise specifically approved by the Department [see Spec. 02776-3.04.J.; see CQAP 6.1.8.6.]. Seaming shall only take place with the "master seamer" present. No geomembrane seaming shall be performed unless the CQA Consultant is on-site.
- 4) The procedure used to temporarily bond adjacent geomembrane panels together shall not damage the geomembrane.

c. Destructive testing.

- 1) Destructive tests of the geomembrane seams shall be taken at random locations, at a minimum frequency of one test location per 500 feet of seam. This frequency shall not be based on an average throughout the entire facility. [see CQAP 6.1.9.2]
- 2) Geomembrane seams shall meet the requirements of Geomembrane Specifications, Table 02776-3, but in all cases destructive tests conducted on the geomembrane field seams shall demonstrate that the actual shear strength is at least 90 percent of the yield strength of the geomembrane, and failure is outside of the seam area. All of the samples shall meet the requirements for each test method (peel and shear) listed in Geomembrane Specifications, Table 02776-3. The strength results shall not be averaged and both sides of fusion welds shall be tested [Spec. 02776-3.05.B.6.].
- 3) Work shall not proceed with any materials which will cover locations which have been destructively tested or repaired until laboratory test results which demonstrate passing values are provided to the onsite CQA manager/inspector.
- 4) All areas which fails nondestructive testing shall be marked for repair by the CQA Consultant or onsite CQA inspector or the Engineer [Spec. 02776-3.07.B.].
- 5) Trial welds [Spec. 02776-3.05.A.] shall be tested for shear and peel and shall meet the requirements for seams in Table 02776-3.

d. Transmissivity.

- 1) The transmissivity test results required by the Specifications shall be submitted to the Engineer for review before the proposed materials are approved for use on the project. [Spec. 02930-1.03.B.; 02931-1.03.B.]
- 2) The transmissivity of the tri-planar CDN material (LDS) shall be a minimum of 4×10^{-3} m²/sec based upon a gradient of 2% and a normal load of 5,000 psf. [Spec. Table 02930-3.] The transmissivity of the bi-planar CDN material (LCS) shall be a minimum of 2.7×10^{-3} m²/sec based upon a gradient of 2% and a normal load of 5,000 psf [Spec. Table 02931-3].

SPECIFIC CONDITIONS: PART B - Construction Requirements

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

e. Interface friction angles. The minimum peak interface friction angle for cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar) interfaces shall be **20.5 degrees** [Spec. 02776-2.02.F. & G.; Table 02930-3; SC#A.2.a(3), A.2.f.]. The tests shall be run at normal loads of 1,000, 3,000 and 6,000 psf.

Amended 08/08/2006.

f. The construction methods used shall minimize wrinkles. All wrinkles higher than they are wide (across their base) or more than 6 inches high shall be removed, repaired and retested [CQAP 6.1.10]. Excessive wrinkles shall be removed, and the areas repaired. Areas where wrinkles are removed shall be repaired and re-tested in accordance with the Specifications and CQA Plan.

g. The liner system shall not be damaged by excessive traffic.

h. The geocomposite drainage net (CDN) material and geotextile shall be handled (stored, placed, etc.) in a manner which prevents the infiltration of dirt and protects the CDN and geotextile from abrasion, punctures and excessive moisture.

i. In areas where stakes are used, stakes shall not be of a type or used in a way that may damage the geomembrane.

j. Prior to placement of materials on the subgrade, an as-built topographic survey shall be provided to the Engineer to verify conformance with the Drawings and Specifications. The subgrade shall be accepted by the Liner Installer and Engineer in writing before placement of the next layer.

k. During the construction of, and until the geomembrane is placed on the subgrade, the subgrade shall be inspected daily for signs of desiccation, excessive moisture, or other damage. In the event that the condition of the subgrade deteriorates, corrective actions shall be implemented immediately. Washouts or erosion of the subgrade shall be repaired immediately. [Spec. 02776-3.03.A & B; 02776-3.04.C.; CQAP 6.1.7.]

l. No geomembrane shall be placed in an area that has become softened by precipitation or desiccated and cracked due to lack of moisture. No standing water or excessive moisture shall be allowed on the area to be lined before the geomembrane installation [Spec. 02776-3.04.C.; CQAP 6.1.7.].

12. Leachate collection and removal system.

a. HDPE pipe or fittings shall not be dropped during loading, unloading or placement.

b. Under no circumstances shall pipe be laid in water, and no pipe shall be laid when trench or weather conditions are unsuitable for such work [Spec. 15080-3.03.E.].

c. All non-pressurized (perforated and nonperforated) HDPE piping shall be jet cleaned and video inspected prior to final acceptance in accordance with Specification Section 15080. The cleaning report and/or videotapes shall be provided as part of the Record Documents required in Specific Condition #B.3. [Spec. 15080-3.07.B.]

PERMITTEE: Hardee County Solid Waste Dept.
Ms. Teresa Carver, Director

PERMIT NO: 38414-008-SC/01
Hardee County LF, Phase II

SPECIFIC CONDITIONS: PART B - Construction Requirements

(Specific Condition #B.12., cont'd)

- d. Quantities of leachate from the leakage detection system shall be recorded (metered) separately from the quantities of leachate recorded from the leachate collection system.

SPECIFIC CONDITIONS: PART C - Operation Requirements

1. Facility Operation Requirements.

a. The permittee shall operate this facility in accordance with Chapter 62-701, F.A.C., and Operation Permit no. 38414-007-SO, or its successors.

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

c. In the event of a peak storm event (25yr/24 hr storm), the permittee shall increase leachate disposal (hauling) rates to ensure that the storage tanks' capacity is not exceeded (see SC#A.2.a., Attachment 9B-1, Sheet 3, received November 19, 2004). At the end of each week, the permittee shall ensure that sufficient storage capacity is available in the leachate storage tanks to accommodate leachate generated from rainfall that occurs when the facility is closed (i.e., weekends and holidays).

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

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

4. Monitoring of Waste. In no event shall waste be accepted in Phase II, Section I until the following requirements have been completed and submitted by the Permittee, and approved by the Department:

a. Certification of Construction Completion requirements of Specific Condition #B.2.,

b. financial assurance requirements of Specific Condition #D.4.c.,

c. construction of groundwater monitoring wells and gas probes as required by Specific Condition #E.1.,

d. construction of the stormwater management system, and

e. issuance of a separate permit or modification of Operation Permit #38414-007-SO (or its successors) that authorizes operation of Phase II.

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

6. Facility Maintenance and Repair.

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

SPECIFIC CONDITIONS: PART C - Operation Requirements

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

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

c. In the event that any portion of the groundwater monitoring system is damaged or unable to be sampled, corrective actions shall be completed **within sixty (60) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department. Corrective actions which include relocation or installation of new groundwater monitoring wells shall be in accordance with Operation Permit #38414-007-SO, or its successors, or as otherwise approved by the Department.

d. In the event that the leachate management system is damaged or is not operating effectively, corrective actions shall be initiated **within thirty (30) days** of the written notification specified in Specific Condition #C.6.b., unless otherwise approved by the Department.

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

SPECIFIC CONDITIONS: PART D - Recordkeeping

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

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

1. Monitor Well/Piezometer Construction.

a. The proposed monitor wells and piezometers shall be designed and constructed in accordance with revised Attachment M-1 ("Revised Ground Water Monitoring Plan") to the "Engineering Report," prepared by SCS Engineers, dated April 2, 2004, revised November 15, 2004, and May 4, 2005 [Ref.S.C.#A.2.a.]. The locations of the proposed monitor wells and piezometers are shown on Figure M-1 entitled "Hardee County Solid Waste, Ground Water, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida," received November 19, 2004 (**attached**), as described below:

Well No.	WACS Testsite		Designation	Location
	ID Number	Aquifer		
MW-10 *	21063	Surficial	Detection	See Figure M-1
MW-11 *	21882	Surficial	Detection	↓
MW-12 *	21883	Surficial	Detection	↓
P-17 **	N/A	Surficial	Piezometer	See Figure M-1
P-18 **	N/A	Surficial	Piezometer	↓
P-19 **	N/A	Surficial	Piezometer	↓
P-20 **	N/A	Surficial	Piezometer	↓
P-21 **	N/A	Surficial	Piezometer	↓
P-22 **	N/A	Surficial	Piezometer	↓
P-23 **	N/A	Surficial	Piezometer	↓

* = to be installed at least 30 days prior to completion of construction activities for the Phase II, Section I cell in accordance with the construction details presented in Table M-2 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a.]; documentation of well construction shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

** = to be installed at least 30 days prior to completion of construction activities for the Phase II, Section I cell in accordance with the construction details presented in Table M-4 of Part M of the "Engineering Report," prepared by SCS Engineers, revised November 15, 2004 [Ref.S.C.#A.2.a.]; documentation of piezometer shall be provided in accordance with Specific Condition Nos. E.1.b. and E.1.c.

b. Construction details for the proposed monitor wells and piezometer shall be provided to the Department's Southwest District Office on Department Form No. 62-522.900(3), Monitor Well Completion Report (**attached**) and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

SPECIFIC CONDITIONS: PART E - Water Quality Monitoring Requirements

(Specific Condition #E.1., continued)

c. A surveyed drawing shall be submitted in accordance with Rule 62-701.510(3)(d)(1), F.A.C., showing the location of all monitoring wells (active and abandoned), horizontally located in degrees, minutes and seconds of latitude and longitude, and showing the elevation of the top of the well casing to the nearest 0.01 foot, National Geodetic Vertical Datum. The surveyed drawing shall include the monitor well identification numbers, locations and elevations of all permanent benchmarks and/or corner monument markers at the site. The survey shall be conducted by a Florida Registered Surveyor and shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

2. **Monitor Well/Piezometer Abandonment.** Existing monitor well MW-9 and existing piezometers P-3, P-4, P-5 and P-12 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell.** These locations shall be plugged and abandoned in accordance with Rule 62-532.440, F.A.C., and the rules of the Southwest Florida Water Management District. The written documentation of monitor well and piezometer abandonment shall be included in the Certification of Construction Completion described in Specific Condition No. B.2.

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).

d. **Within 90 days of issuance of this permit**, the permittee shall submit all information required by the Department's Air Resources Division to comply with Title V air requirements for the expanded landfill.

2. Gas Monitoring and Control. Landfill gas shall be monitored and controlled as required by Operation Permit #38414-007-SO or its successors.

3. Gas Monitoring Locations.

a. Gas monitoring probes shall be located as listed in Operation Permit #38414-007-SO or its successors, and the conditions of this permit.

b. Landfill Gas Probe Construction. Proposed gas probes GP-12 and GP-13 shall be designed and constructed in accordance with the inset table entitled "Landfill Gas Monitoring Probe Schedule" on Sheet 26 of 27 of the "Site Plans," prepared by SCS Engineers, revised November 19, 2004 [Ref.S.C.#A2.d]. The locations of proposed gas probes GP-12 and GP-13 are shown on Figure O-1 entitled "Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida," received November 19, 2004 (**attached**). Written confirmation of proposed gas probe construction shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

c. Landfill Gas Probe Abandonment. Existing gas probes GP-7 and GP-8 shall be abandoned **at least 30 days prior to the initiation of construction activities for the Phase II, Section I cell**. Written confirmation of gas probe abandonment shall be included in the Certification of Construction Completion described in Specific Condition #B.2.

PERMITTEE: Hardee County Solid Waste Dept.
Ms. Teresa Carver, Director

PERMIT NO: 38414-008-SC/01
Hardee County LF, Phase II

SPECIFIC CONDITIONS: PART F - Landfill Gas Management

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

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

1. Closure Requirements.

a. Long-Term Care Requirements.

1) The owner or operator shall perform long-term care for the site in accordance with Rule 62-701.620, F.A.C., and the conditions of Permit Operation Permit #38414-007-SO or its successors.

2) 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.

b. Closing Requirements.

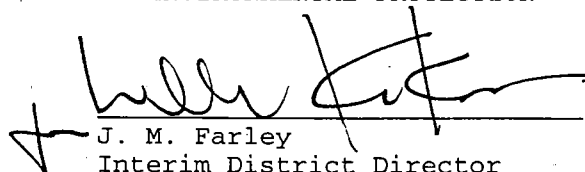
1) **No later than ninety (90) days** prior to the date when wastes will no longer be accepted for portions of the landfill which have reached closure design dimensions, the landfill owner or operator shall submit a closure permit application to the Department, in order to assure conformance with all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

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

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

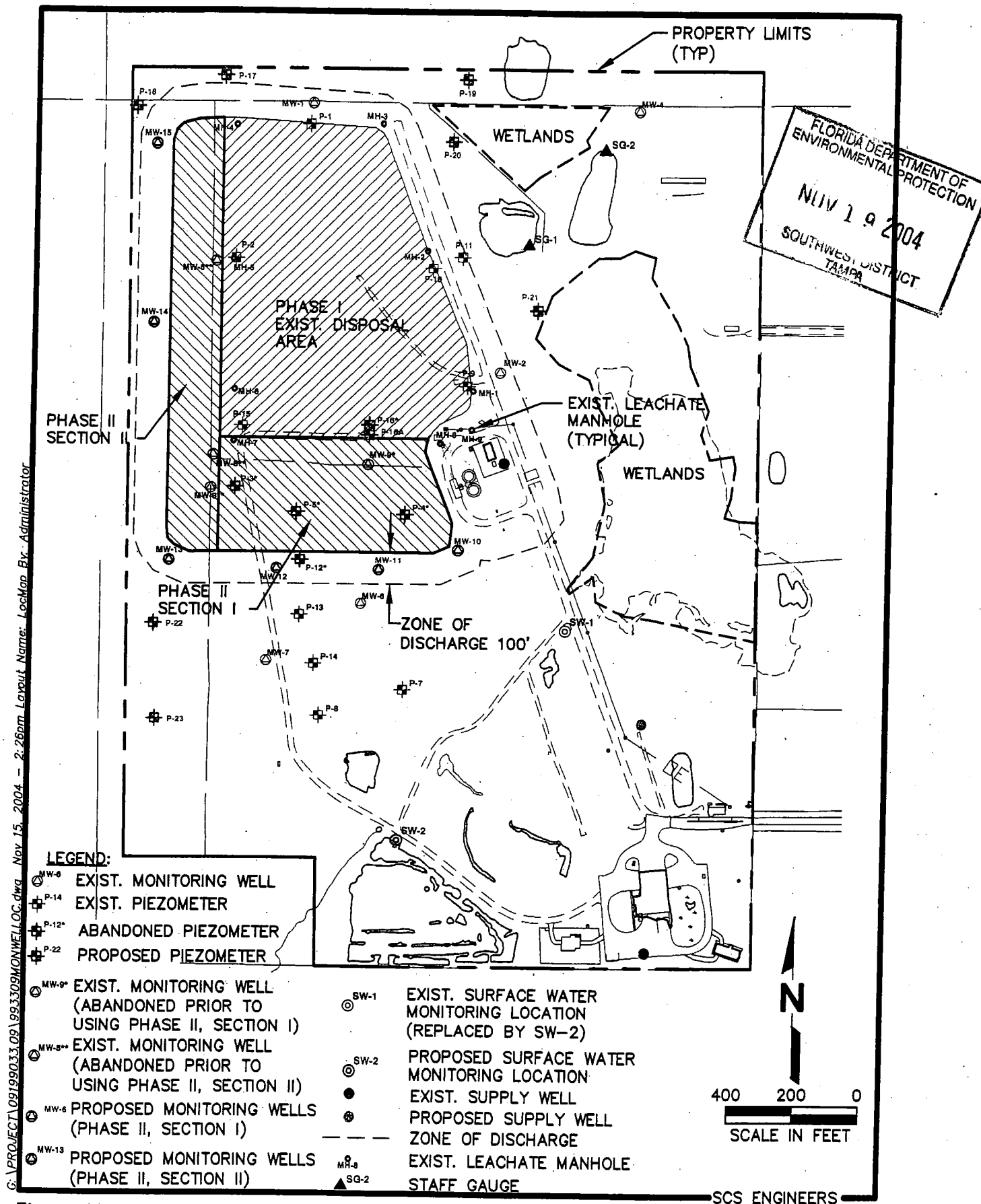
Executed in Hillsborough County, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION


J. M. Farley
Interim District Director
Southwest District

ATTACHMENT 1		
Specific Condition	Submittal Due Date	Required Item
A.4.	180 days prior to permit expiration	Submit permit renewal application
A.9.a.	Within 24 hours of discovery Within 7 days of verbal notification	Notification of sinkholes or subsurface instability Written notification & corrective action plan
B.2.a.	Within 60 days of completion of construction	Submit certification of construction completion, record drawings, etc.
B.4.a.	At least 30 days prior to construction	Submit complete plans, specification, CQA plan, or statement that no changes have occurred; borrow source report; org. chart with parties/roles
B.4.b.	At least 30 days prior to installation of the geosynthetics	Submit interface friction testing results
B.4.c.	Prior to construction	Submit dewatering plan
B.4.d.	No later than 2 weeks prior to construction of: groundwater control system; connections to manholes; liner penetrations; spark testing; alternate seaming	Notify of construction initiation to allow for observation
B.4.e.	At least 1 week prior to full scale construction of low permeability layer	Submit Test Section Report
B.5.	At least 1 week prior	Notify of preconstruction meeting
B.6.a.	No later than 1 week after pre-construction meeting	Submit meeting minutes
B.6.b.	Monthly, by the 15 th each month	Submit monthly progress report & schedule
B.8.e.	At least 1 week prior	Notify of night work

ATTACHMENT 1, cont'd		
Specific Condition	Submittal Due Date	Required Item
C.6.b.	Within 24 hours of discovery	Notification of: hazardous waste receipt, failure of landfill systems or equipment
	Within 7 days of verbal notification	Written notification & corrective action plan
C.6.c.	Within 60 days of written notification	Complete corrective actions for groundwater monitoring system
C.6.d.	Within 30 days of written notification	Implement corrective actions for leachate management system
D.4.a.	Annually, by September 1 st each year	Submit revised cost estimates
D.4.b.	Annually	Submit proof of funding
D.4.c.	No later than 60 days prior to receipt of waste	Submit proof of initial funding
E.1.a.	At least 30 days prior to completion of construction	Install new wells
E.1.b..	Within 60 days of completion of construction	Submit construction details and survey information for new wells
E.2.	At least 30 days prior to construction	Abandon MW-9, P-3, P-4, P-5, and P-12
F.1.	Within 90 days of permit issuance	Submit information to Air Resources Division in Tallahassee for Title V
F.3.b.	Within 60 days of completion of construction	Submit gas probe construction details
F.3.c.		Submit gas probe abandonment information
F.4.	Within 7 days of detection	Submit gas remediation plan
	Within 60 days of detection	Complete corrective actions
G.1.b(1)	No later than 90 days prior to the date when wastes will no longer be received	Submit Closure Permit application



NOV 19 2004

SOUTHWEST DISTRICT
TAMPA

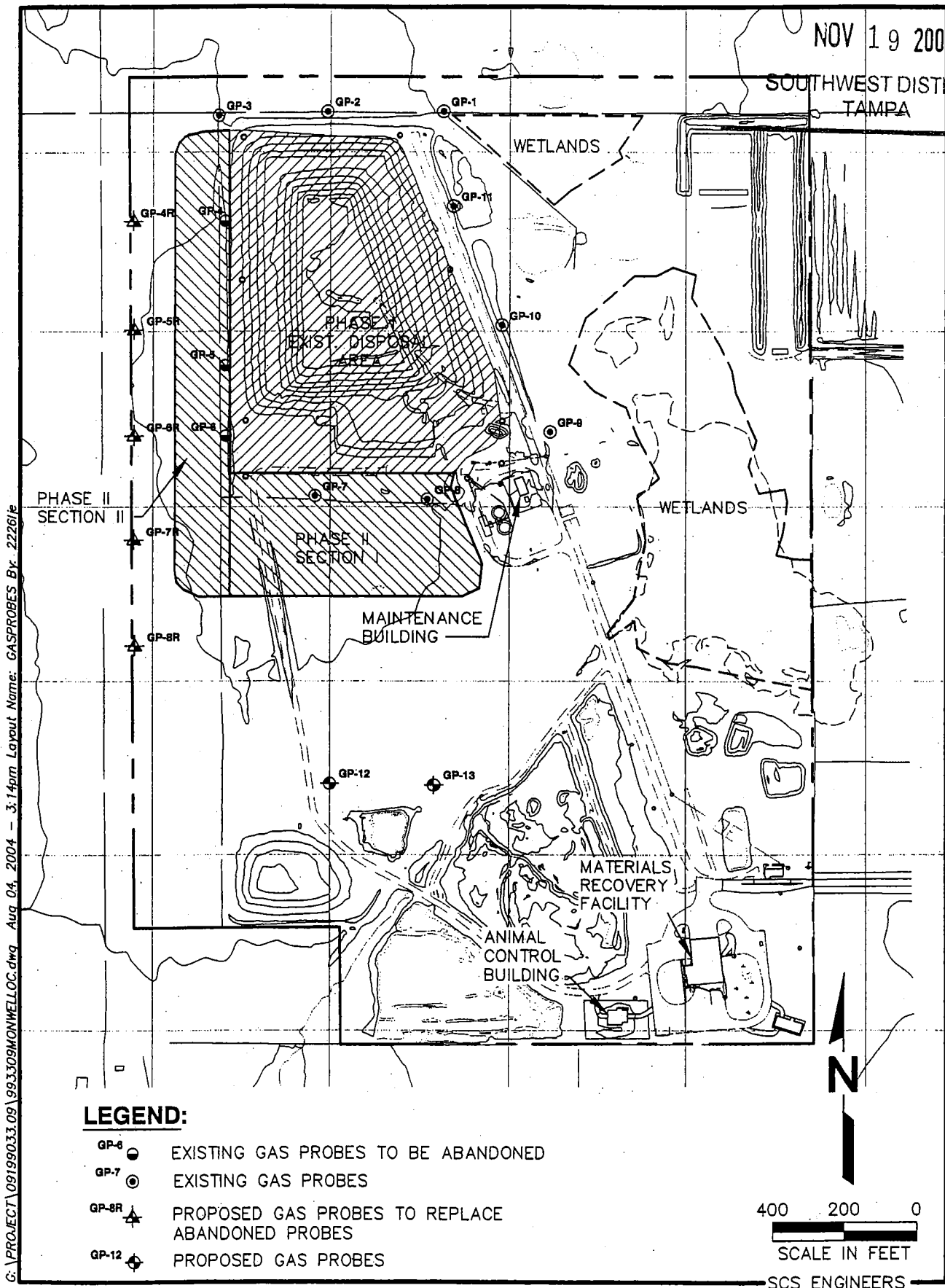


Figure O-1. Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida

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

DEP Form # 82-522.900(3)
Form Title <u>MONITOR WELL COMPLETION REPORT</u>
Effective Date _____
DEP Application No. _____ (Filled in by DEP)

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

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

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

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

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

REPORT PREPARED BY: _____

(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

Pelz, Susan

From: Pelz, Susan
Sent: Sunday, August 06, 2006 11:51 AM
To: Pelz, Susan; Teresa Carver (E-mail)
Cc: Ed Hilton (E-mail); Shane Fischer (E-mail); Evans, Roger; Morgan, Steve; Morris, John R.
Subject: RE: Hardee CO LF expansion conformed documents

Teresa,

Unfortunately, I have discovered that the plan sheet set (16 sheets) that was provided as part of the conformed documents (received June 29, 2006) is different from the permitted plans (29 sheets). The summary of changes that was provided for the conformed documents does not reference the sheets/details in the permitted plans.

Therefore, until information that describes the changes from the permitted plans is provided, the Department cannot approve the conformed plans. The construction should proceed in accordance with the permitted plans.

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

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

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

-----Original Message-----

From: Pelz, Susan
Sent: Sunday, August 06, 2006 10:13 AM
To: Teresa Carver (E-mail)
Cc: Ed Hilton (E-mail); Shane Fischer (E-mail); Evans, Roger; Morgan, Steve
Subject: Hardee CO LF expansion conformed documents

Teresa,

The Department has reviewed the supplemental information dated July 7, 2006 (received July 10, 2006), prepared by SCS Engineers, regarding the conformed documents for the landfill expansion project. The Department has no additional requests for information on these documents, and does not object to the changes proposed.

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

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

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

SCS ENGINEERS**Dept. of Environmental
Protection**

July 7, 2006
File No. 09199033.16

JUL 10 2006

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

Southwest District

Subject: Hardee County Phase II Section I Construction Expansion
Clarifications of Conformed Documents
Construction Permit No. 3814-008-SC/01
Hardee County Landfill Facility

Dear Susan:

SCS Engineers (SCS) previously submitted to the Florida Department of Environmental Protection (FDEP) the Conformed Construction Documents dated June 20, 2006 per Specific Condition B.4(a)(1) of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill Phase II Section I Construction Expansion.

Per your request via the email entitled "Hardee LF Conformed Documents" dated July 2, 2006, the following information is being supplied by SCS to clarify the Conformed Documents. For ease of review, the items listed in the email have been reiterated in bold type followed by our response.

- 1. Please confirm that the CQA Plan has not changed from the version listed in the permit.**

SCS did not modify the Construction Quality Assurance (CQA) Plan from the version that is listed in Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill Phase II Section I Construction Expansion.

- 2. Also, as indicated in Item #7.e., the Phase II leachate collection (and detection?) sump was changed to connect directly to the forcemain from the existing MH-8 to the tanks. Please clarify how the collection and detection sump discharges are maintained separate.**

The 3-inch HDPE leachate detection piping from the leachate detection sump connects via a 3"x3"x3" Tee into the 3-inch HDPE leachate collection piping from the leachate collection sump. This 3-inch HDPE line is then connected to a 3"x4" reducer connected to the 4-inch HDPE pipe that will connect directly into the existing 4-inch PVC forcemain between MH-8 and the existing above ground leachate storage tanks. Flow meters are placed in the leachate detection piping and leachate collection piping to monitor the



see 3-ring binder

Ms. Susan Pelz, P.E.
July 7, 2006
Page 2

amount of flow within each line separately. In addition, a ¼-inch labcock valve is located in the leachate detection piping and leachate collection piping that will enable sampling from each line separately before they are joined in the 4-inch HDPE pipe that will connect directly into the existing 4-inch PVC forcemain between MH-8 and the existing above ground leachate storage tanks.

3. Please clarify if backflow preventers are proposed to ensure that the leachate from Phase II does not backflow into MH-8.

SCS reviewed the Record Drawings created by Post, Buckley, Schuh & Jernigan, Inc. (PBS&J) for MH-8 and the 4-inch PVC forcemain between MH-8 and the existing above ground leachate storage tanks. The Record Drawings indicate that check valves were previously installed in the 4-inch PVC forcemain located directly next to MH-8. These check valves will prevent backflow into MH-8 when the 4-inch HDPE pipe from Phase II Section I is connected into the existing 4-inch PVC forcemain between MH-8 and the existing above ground leachate storage tanks. In addition, a plug valve was also previously installed to control on/off service and flow in the existing 4-inch forcemain.

4. Please provide additional details of the "pipe sleeve."

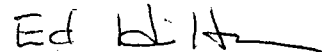
The 4-inch HDPE pipe that will connect directly into the existing 4-inch PVC forcemain between MH-8 and the existing above ground leachate storage tanks will be placed within a pipe sleeve where the portion of the 4-inch HDPE pipe goes under the asphalt roadway to the leachate loading station. The purpose of the pipe sleeve is to protect the 4-inch HDPE pipe from damage due to vehicles traveling on the roadway above the 4-inch HDPE pipe. The pipe sleeve will be a ductile iron pipe and a minimum of 8-inches in diameter. The ductile iron pipe sleeve that will encase the 4-inch HDPE pipe will extend a minimum of five feet beyond the edges of the asphalt roadway.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,



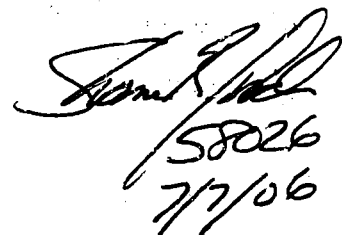
Shane R. Fischer, P.E.
Senior Project Professional
SCS ENGINEERS



C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Teresa Carver, Hardee County Solid Waste Director

SRF/CEH:srf



58026
7/7/06

Pelz, Susan

From: Pelz, Susan
Sent: Sunday, July 02, 2006 2:33 PM
To: Shane Fischer (E-mail); Ed Hilton (E-mail)
Cc: Teresa Carver (E-mail)
Subject: Hardee LF conformed documents

Shane/Ed,

The Department has received the conformed documents for the Hardee Co. Phase II, Section 1 landfill expansion. This information was received June 29, 2006.

Please confirm that the CQA Plan has not changed from the version listed in the permit.

Also, as indicated in Item #7.e., the Phase II leachate collection (and detection?) sump was changed to connect directly to the forcemain from the existing MH-8 to the tanks. Please clarify how the collection and detection sump discharges are maintained separate. Please clarify if backflow preventers are proposed to ensure that the leachate from Phase II does not backflow into MH-8. Please provide additional details of the "pipe sleeve."

I will be referencing the conformed documents in the pending modification.

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

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

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

SCS ENGINEERS

June 28, 2006
File No. 09199033.16

Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637

FLORIDA DEPARTMENT OF
ENVIRONMENTAL PROTECTION

JUN 29 2006

SOUTHWEST DISTRICT
TAMPA

Subject: Hardee County Landfill Phase II Section I Construction
Conformed Documents, Specific Condition B.4(a)(1)
Construction Permit No. 3814-008-SC/01
Hardee County Landfill Facility

Dear Ms. Pelz:

On behalf of Hardee County, SCS Engineers (SCS) is submitting to the Florida Department of Environmental Protection (FDEP) the Conformance Documents per Specific Condition B.4(a)(1) of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill Phase II Section I Construction.

In addition, the following revisions or clarifications were implemented by SCS to the Technical Specifications and Construction Drawings from the original permitted documents. It is the professional opinion of SCS that the following changes performed by SCS to these documents do not impact the original permitted concept or design.

1. Conformed Technical Specification SECTION 01025 MEASUREMENT AND PAYMENT
 - a. The MEASUREMENT AND PAYMENT Technical Specification was revised from the original approved documents during Addendum Number 2 of the bidding process to include Item No. 036 - RipRap and Rock Lining.
 - b. Table 01025-1 BID FORM was revised from the original approved documents during Addendum Number 2 of the bidding process to include and/or update units and quantities for Bid Item Numbers 015 Install 12" Groundwater Collection Pipe, 036 Riprap and 037 Topsoil, Sodding, Seeding and Mulching. In addition, the Bid Item Numbers and Item Descriptions have been updated to correspond to the revised Technical Specification SECTION 01025 MEASUREMENT AND PAYMENT.
2. Conformed Technical Specification SECTION 02221 SUB-BASE
 - a. The SUB-BASE Technical Specification was revised from the original approved documents during Addendum Number 2 of the bidding process. The original

Technical Specification required the sub-base material to meet specified hydraulic conductivity requirements. The design intent of the sub-base material is for stability and not to act as an impermeable layer. The hydraulic conductivity requirements have been removed from the amended SUB-BASE Technical Specification and requirements based on compaction efforts have been included.

3. Conformed Technical Specification SECTION 02371 RIPRAP AND ROCK LINING
 - a. A RIPRAP AND ROCK LINING Technical Specification was added during Addendum Number 2 of the bidding process for clarity to the Construction Documents. This additional Technical Specification is based on requirements from the Florida Department of Transportation (FDOT) Drainage Specifications.
4. Conformed Technical Specification SECTION 02776 HIGH DENSITY POLYETHYLENE (HDPE) GEOMEMBRANE LINER
 - a. A minor modification to Specific Condition # B.11e of the Construction Permit was requested to change the minimum Interface Friction Angle for the cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar) interfaces from 26.9 degrees to 20.5 degrees.
5. Conformed Technical Specification SECTION 02930 TRI-PLANAR GEOCOMPOSITE
 - a. A minor modification to Specific Condition # B.11e of the Construction Permit was requested to change the minimum Interface Friction Angle for the cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar) interfaces from 26.9 degrees to 20.5 degrees.
6. Conformed Technical Specification SECTION 02931 BI-PLANAR GEOCOMPOSITE
 - a. A minor modification to Specific Condition # B.11e of the Construction Permit was requested to change the minimum Interface Friction Angle for the cover sand/geocomposite, geomembrane/geocomposite (bi-planar and tri-planar) interfaces from 26.9 degrees to 20.5 degrees.
7. Conformed Construction Drawings
 - a. SCS modified the revision block as required for any revisions made to the original permitted documents and included Conformed Drawings on all the sheets.
 - b. Drawing Sheets 5 and 11 of 16 - The Groundwater Interceptor Pump Station pumps located within the lift station, that will be constructed by the contractor, will be determined for size based upon field observations. The County will provide an

Ms. Susan Pelz, P.E.
June 28, 2006
Page 3

interim pump system and use onsite pumps until permanent pumps are efficiently sized, selected and installed at a later date.

- c. Drawing Sheet 7 of 16 - The existing 8-inch diameter leachate line between Manhole 6 (MH-6) and Manhole 7 (MH-7) will be replaced with a 10-inch diameter SDR 11 pipe instead of being repaired as previously indicated. The existing 8-inch connection to the Manholes will be cored such as to accommodate the new 10-inch diameter pipe. Details for the leachate line replacement are shown on Detail 2, Sheet 16.
- d. Drawing Sheet 7 of 16 - The existing 8-inch diameter leachate line between MH-7 and Manhole 8 (MH-8) will be replaced with a 10-inch diameter SDR 11 pipe instead of being repaired as previously indicated. The existing 8-inch connection to the Manholes will be cored such as to accommodate the new 10-inch diameter pipe. Details for the leachate line replacement are shown on Detail 5, Sheet 16.
- e. Drawing Sheet 7 of 16 - The sump for Phase II - Section I connects directly into the 4-inch forcemain between MH-8 and the existing above ground leachate storage tanks. The original Permit Drawings indicted the sump was piped directly into MH-8.
- f. Drawing Sheet 14 of 16 - Detail 4 *Wetland Discharge Structure* was revised from referring to Sheet 6 to Sheet 7.
- g. Drawing Sheet 16 of 16 - The *Typical Exist. Collection Improvement Pipe Installation* Detail was revised from Detail 3 to Detail 2.

Please do not hesitate to call should you have any questions or require additional information.

Sincerely,



Shane R. Fischer, P.E.
Senior Project Engineer
SCS ENGINEERS



C. Ed Hilton, P.E.
Solid Waste Director
SCS ENGINEERS

cc: Teresa Carver, Hardee County Solid Waste Director

SRF/CEH:srf

SCS ENGINEERSEnvironmental
Protection

JUL 10 2006

Southwest District

July 7, 2006
File No. 09199033.16Susan J. Pelz, P.E.
Solid Waste Program Manager
Florida Department of Environmental Protection
Southwest District
13051 N. Telecom Parkway
Temple Terrace, FL 33637Subject: Hardee County Phase II Section I Construction Expansion
Geocomposite/HDPE Geomembrane Interface Friction Angle
Construction Permit No. 38414-008-SC/01
Hardee County Landfill Facility

Dear Susan:

SCS Engineers (SCS) previously submitted to the Florida Department of Environmental Protection (FDEP) a request for a minor modification to Specific Condition B.11.e of Construction Permit No. 38414-008-SC/01 for the Hardee County Landfill Phase II Section I Construction Expansion. The purpose of the minor modification is to reduce the minimum interface friction angle as specified in the Construction Permit from 26.9 degrees for the high density polyethylene (HDPE) geomembrane/geocomposite (bi-planar and tri-planar) interfaces to 20.5 degrees.

Per your request via the email entitled "Hardee Co LF Friction Angle Mod" dated July 2, 2006, the following information is being supplied by SCS to clarify the minor modification request to the minimum interface friction angle. For ease of review, the items listed in the email have been reiterated in bold type followed by our response.

- 1. Please send me two copies of the cover letter dated May 9, 2006 that was submitted with the mod request that are sealed. The copies of the cover letter that I received are not sealed.**

Please find enclosed in Attachment A two signed and sealed copies of the cover letter that was previously dated May 9, 2006. This letter has been modified to include revising the date to July 7, 2006 from the original May 9, 2006 date and the engineer of record signing and sealing the letter is Shane R. Fischer, P.E. No other changes have been made by SCS to this letter.

(See 3-ring binder for construction permit)



Jeb Bush
Governor

Department of Environmental Protection

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

Colleen M. Castille
Secretary

*Hardee Co. Exp.
construction
permit*

ENVIRONMENTAL RESOURCE PERMIT

PERMITTEE/AUTHORIZED ENTITY:

Hardee County Board of Co. Commissioners
C/o Janice Williamson, Solid Waste Director
685 Airport Road
Wauchula, FL 33873

Permit/Authorization Number:

25-0124892-002

Date of Issue: JUL 10, 2006

Expiration Date of Construction Phase:

JUL 10, 2011

County: Hardee

AGENT:

Lindsey Kennelly
SCS Engineers
3012 US Highway 301 North, Suite 700
Tampa, FL 33619

Project: Class I County Landfill Expansion
& Stormwater Management System

This permit is issued under the authority of Part IV of Chapter 373, F.S., and Title 62, Florida Administrative Code (F.A.C.). The activity is not exempt from the requirement to obtain an environmental resource permit. Pursuant to Operating Agreements executed between the Department and the water management districts, as referenced in Chapter 62-113, F.A.C., the Department is responsible for reviewing and taking final agency action on this activity.

This permit also constitutes a finding of consistency with Florida's Coastal Zone Management Program, as required by Section 307 of the Coastal Management Act.

This permit also constitutes certification compliance with water quality standards under Section 401 of the Clean Water Act, 33 U.S.C. 1341.

As staff to the Board of Trustees, the Department has reviewed the activity described below, and has determined the activity is not on state-owned submerged lands. Therefore, your project is exempt from the further requirements of Chapter 253, Florida Statutes.

A copy of this authorization has also been sent to the U.S. Army Corps of Engineers (USACOE) for review. The USACOE may require a separate permit. Failure to obtain this authorization prior to construction could subject you to enforcement action by that agency. You are hereby advised that authorizations also may be required by other federal, state, and local entities. This authorization does not relieve you from the requirements to obtain all other required permits and authorizations.

"More Protection, Less Process"

Printed on recycled paper.

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 2 of 20

The above named permittee is hereby authorized to construct the work shown on the application and approved drawing(s), plans, and other documents attached hereto or on file with the Department and made a part hereof. This permit is subject to the limits, conditions, and locations of work shown in the attached drawings, and is also subject to the attached one through 25 General Conditions and 56 Specific Conditions, which are a binding part of this permit. You are advised to read and understand these drawings and conditions prior to commencing the authorized activities, and to ensure the work is conducted in conformance with all the terms, conditions, and drawings. If you are utilizing a contractor, the contractor also should read and understand these drawings and conditions prior to commencing the authorized activities. Failure to comply with all drawings and conditions shall constitute grounds for revocation of the permit and appropriate enforcement action.

Operation of the facility is not authorized except when determined to be in conformance with all applicable rules and with the general and specific conditions of this permit/certification/authorization, as specifically described below.

ACTIVITY DESCRIPTION:

The project is to expand the existing Class I solid waste landfill by constructing an additional 10 acres to the south and west (Phase II) of the existing landfill footprint along with modifying the existing surface water management system (SWMS). The SWMS consists of a perimeter and at-grade series of swales and ditches, which has been designed to channel runoff from the surrounding waste disposal units and grade level portions of the contiguous landfill site, into two wet detention ponds. The Phase II (Section I and Section II) surface water management system shall be constructed in entirety prior to landfill operations occurring within the Phase II area.

The project shall not impact the adjacent on site wetlands noted as Wetland No. 1, a hardwood forested system, and Wetland No. 2, a mixed hardwood forest. The SWMS shall provide treatment prior to discharging to the wetlands. Wetland No. 1 shows evidence that the hydrology within the system has become insufficient to maintain the optimum functionality for a wetland hardwood forest. Therefore, a vertical weir shall be installed on the outer southwest corner within a remnant ditch adjacent to the main haul road for the purpose of maintaining the normal pool elevation at 80.5 NGVD within the wetland.

The SWMS shall provide treatment and attenuation for the first 1" of runoff from 118.5 acres of contributing area consisting of waste disposal units and surrounding at-grade contiguous landfill area, including approximately 2.7 acres of off-site areas.

SWMS Features

1. The Primary Pond, depicted as "Existing Stormwater Pond" on Sheet 3 of 27, is an existing wet detention pond located near the eastern face of the landfill. The existing control structure is being replaced and modified, as depicted on Sheets 14 and 21 of the attached project drawings,

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 3 of 20

along with the construction of a littoral shelf in the Primary Pond. This drainage pond receives runoff from the existing 11 acre landfill waste disposal units and is not designed to receive runoff from the expansion area. The drainage pond is designed to treat the first 1" of runoff from the 11-acre contributing area, and provide attenuation for the 25-year/24 hour design storm event.

2. The existing Yard Waste Processing area is located to the south of Wetland No. 1 and to the southeast of the landfill cells. Runoff from this area shall receive 1/4" of water quality pre-treatment by entering a grassed swale system before sheet flowing to Wetland No. 1.

3. The Borrow Pit Treatment Pond (BPTP), depicted as "Stormwater Management Area" on Sheet 8 of the attached project drawings, located in the southern portion of the landfill shall receive runoff from the 10 acre expansion area that is conveyed through a stabilized ditch system. The BPTP is a wet detention system that shall provide 1" of water quality pre-treatment and attenuation for the 25 year, 24 hour design storm event for the entire 118.5-acre contributing project area, since the BPTP is the ultimate SWMS receiving structure prior to discharge off-site.

ACTIVITY LOCATION:

The project is located at 685 Airport Road, Wauchula, Sections 26 & 35, Township 33 South, Range 25 East, Hardee County.

GENERAL CONDITIONS:

1. All activities shall be implemented as set forth in the plans, specifications and performance criteria as approved by this permit. Any deviation from the permitted activity and the conditions for undertaking that activity shall constitute a violation of this permit.
2. This permit or a copy thereof, complete with all conditions, attachments, exhibits, and modifications, shall be kept at the work site of the permitted activity. The complete permit shall be available for review at the work site upon request by Department staff. The permittee shall require the contractor to review the complete permit prior to commencement of the activity authorized by this permit.
3. Activities approved by this permit shall be conducted in a manner which does not cause violations of state water quality standards. The permittee shall implement best management practices for erosion and a pollution control to prevent violation of state water quality standards. Temporary erosion control shall be implemented prior to and during construction and permanent control measures shall be completed within 7 days of any construction activity. Turbidity barriers shall be installed and maintained at all locations where the possibility of transferring suspended solids into the receiving waterbody exists due to the permitted work. Turbidity barriers shall remain in place at all locations until construction is completed and soils are stabilized and vegetation has been established. Thereafter the permittee shall be responsible for

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 4 of 20

the removal of the barriers. The permittee shall correct any erosion or shoaling that causes adverse impacts to the water resources.

4. Water quality data for the water discharged from the permittee's property or into the surface waters of the state shall be submitted to the Department as required by the permit. Analyses shall be performed according to procedures outlined in the current edition of Standard Methods for the Examination of Water and Wastewater by the American Public Health Association or Methods for Chemical Analyses of Water and Wastes by the U.S. Environmental Protection Agency. If water quality data are required, the permittee shall provide data as required on volumes of water discharged, including total volume discharged during the days of sampling and total monthly volume discharged from the property or into surface waters of the state.

5. Department staff must be notified in advance of any proposed construction dewatering. If the dewatering activity is likely to result in offsite discharge or sediment transport into wetlands or surface waters, a written dewatering plan must either have been submitted and approved with the permit application or submitted to the Department as a permit prior to the dewatering event as a permit modification. The permittee is advised that the rules of the Southwest Florida Water Management District state that a water use permit may be required prior to any use exceeding the thresholds in Chapter 40D-2, F.A.C.

6. Stabilization measures shall be initiated for erosion and sediment control on disturbed areas as soon as practicable in portions of the site where construction activities have temporarily or permanently ceased, but in no case more than 7 days after the construction activity in that portion of the site has temporarily or permanently ceased.

7. Off site discharges during construction and development shall be made only through the facilities authorized by this permit. Water discharged from the project shall be through structures having a mechanism suitable for regulating upstream stages. Stages may be subject to operation schedules satisfactory to the Department.

8. The permittee shall complete construction of all aspects of the surface water management system, including wetland compensation (grading mulching, planting), water quality treatment features, and discharge control facilities prior to beneficial occupancy or use of the development being served by this system.

9. The following shall be properly abandoned and/or removed in accordance with the applicable regulations:

- a. Any existing wells in the path of construction shall be properly plugged and abandoned by a licensed well contractor.

- b. Any existing septic tanks on site shall be abandoned at the beginning of construction.
 - c. Any existing fuel storage tanks and fuel pumps shall be removed at the beginning of construction.
10. All surface water management systems shall be operated to conserve water in order to maintain environmental quality and resource protection; to increase the efficiency of transport, application and use; to decrease waste; to minimize unnatural runoff from the property and to minimize dewatering of offsite property.
11. At least 48 hours prior to commencement of activity authorized by this permit, the permittee shall submit to the Department a written notification of commencement using an "Environmental Resource Permit Construction Commencement" notice (Form No. 62-343.900(3), F.A.C.) indicating the actual start date and the expected completion date.
12. Each phase or independent portion of the permitted system must be completed in accordance with the permitted plans and permit conditions prior to the occupation of the site or operation of site infrastructure located within the area served by that portion or phase of the system. Each phase or independent portion of the system must be completed in accordance with the permitted plans and permit conditions prior to transfer of responsibility for operation and maintenance of that phase or portion of the system to a local government or other responsible entity.
13. Within 30 days after completion of construction of the permitted activity, the permittee shall submit a written statement of completion and certification by a registered professional engineer or other appropriate individual as authorized by law, utilizing the required "Environmental Resource Permit As-Built Certification by a Registered Professional" (Form No. 62-343.900(5), F.A.C.), and "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" (Form 62-343-900(7), F.A.C.). Additionally, if deviations from the approved drawings are discovered during the certification process the certification must be accompanied by a copy of the approved permit drawings with deviations noted.
14. This permit is valid only for the specific processes, operations and designs indicated on the approved drawings or exhibits submitted in support of the permit application. Any substantial deviation from the approved drawings, exhibits, specifications or permit conditions, including construction within the total land area but outside the approved project area(s), may constitute grounds for revocation or enforcement action by the Department, unless a modification has been applied for and approved. Examples of substantial deviations include excavation of ponds, ditches or sump areas deeper than shown on the approved plans.

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 6 of 20

15. The operation phase of this permit shall not become effective until the permittee has complied with the requirements of the conditions herein, the Department determines the system to be in compliance with the permitted plans, and the entity approved by the Department accepts responsibility for operation and maintenance of the system. The permit may not be transferred to the operation and maintenance entity approved by the Department until the operation phase of the permit becomes effective. Following inspection and approval of the permitted system by the Department, the permittee shall request transfer of the permit to the responsible operation and maintenance entity approved by the Department, if different from the permittee. Until a transfer is approved by the Department pursuant to Section 62-343.110(1)(d), F.A.C., the permittee shall be liable for compliance with the terms of the permit.

16. Should any other regulatory agency require changes to the permitted system, the Department shall be notified of the changes prior to implementation so that a determination can be made whether a permit modification is required.

17. This permit does not eliminate the necessity to obtain any required federal, state, local and special district authorizations including a determination of the proposed activities' compliance with the applicable comprehensive plan prior to the start of any activity approved by this permit.

18. This permit does not convey to the permittee or create in the permittee any property right, or any interest in real property, nor does it authorize any entrance upon or activities on property which is not owned or controlled by the permittee, or convey any rights or privileges other than those specified in the permit and Chapter 40D-4 or Chapter 40D-40, F.A.C.

19. The permittee is hereby advised that Section 253.77, F.S., states that a person may not commence any excavation, construction, other activity involving the use of sovereign or other lands of the state, the title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund without obtaining the required lease, license, easement, or other form of consent authorizing the proposed use. Therefore, the permittee is responsible for obtaining any necessary authorizations from the Board of Trustees prior to commencing activity on sovereignty lands or other state-owned lands.

20. The permittee shall hold and save the Department harmless from any and all damages, claims, or liabilities which may arise by reason of the activities authorized by the permit or any use of the permitted system.

21. Any delineation of the extent of a wetland or other surface water submitted as part of the permit application, including plans or other supporting documentation, shall not be considered binding unless a specific condition of this permit or a formal determination under section 373.421(2), F.S., provides otherwise.

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 7 of 20

22. The permittee shall notify the Department in writing within 30 days of any sale, conveyance, or other transfer of ownership or control of the permitted system or the real property at which the permitted system is located. All transfers of ownership or transfers of a permit are subject to the requirements of section 62-343.130, F.A.C. The permittee transferring the permit shall remain liable for any corrective actions that may be required as a result of any permit violations prior to such sale, conveyance or other transfer.

23. Upon reasonable notice to the permittee, Department authorized staff with proper identification shall have permission to enter, inspect, sample and test the system to insure conformity with Department rules, regulations and conditions of the permits.

24. If historical or archaeological artifacts are discovered at any time on the project site, the permittee shall immediately notify the Department and the Florida Department of State, Division of Historical Resources.

25. The permittee shall immediately notify the Department in writing of any previously submitted information that is later discovered to be inaccurate.

SPECIFIC CONDITIONS:

1. The permittee shall notify the Department in writing at least 48 hours prior to commencing the work authorized in this permit (see General Condition #11).

2. Submittals required herein shall be directed to:

Department of Environmental Protection
Environmental Administrator
Environmental Resource Management Program
Southwest District
13051 North Telecom Parkway
Temple Terrace, FL 33637-0926

hereafter referred to as "the Department". Submittals include, but are not limited to, record drawings, progress reports, mitigation monitoring reports and water quality monitoring reports.

Submittals shall include the permittee's name and permit number.

3. The permittee shall be aware of and operate under #1 through #25 of the attached "General Conditions for Environmental Standard General and Individual Permits". General Permit Conditions are binding upon the permittee and enforceable pursuant to Chapter 403 of the Florida Statutes.

4. The permittee is hereby advised that Florida law states: "No person shall commence any excavation, construction, or other activity involving the use of sovereign or other lands of the state, title to which is vested in the Board of Trustees of the Internal Improvement Trust Fund or the Department of Environmental Protection under Chapter 253, until such person has received from the Board of Trustees of the Internal Improvement Trust Fund the required lease, license, easement, or other form of consent authorizing the proposed use." Pursuant to Rule 18-14.002(1), Florida Administrative Code; if such work is done without consent, or if a person otherwise damages state land or products of state land, the Board of Trustees may levy administrative fines of up to \$10,000 per offense.
5. The work authorized by this permit shall not be placed/conducted on any property, other than that owned by the permittee, without the prior written approval of that property owner.
6. In the event the permittee files for bankruptcy prior to completion of work permitted and required by this permit, the permittee must notify the Department within 30 days of filing. The notification shall identify the bankruptcy court and case number and shall include a copy of the bankruptcy petition.
7. Subsequent to the selection of the contractor to perform the authorized activity and prior to the initiation of work authorized by this permit, the permittee, (or authorized agent) and the contractor, shall attend a pre-construction conference with a representative of the Department's Submerged Lands and Environmental Resources staff. The permittee shall notify the Department in writing subsequent to contractor selection to request scheduling of the subject conference.
8. The permittee shall notify the Department in writing within 14 days of change in agents designated in the approved permit application.
9. If the approved permit drawings and the Specific Conditions contradict each other, then the Specific Conditions shall prevail.
10. Progress reports for the project shall be submitted to the Department beginning September 1, 2006, and shall continue to be submitted biannually until construction of the permitted project and mitigation creation is completed. The cover page shall indicate the permit number, project name and the permittee name. Progress reports must be submitted to the Department if there is no ongoing construction. Reports shall include the current project status and the construction schedule for the following six months.

The report shall include the following information:

- a. Date permitted activity was begun; if work has not begun on-site, please indicate.
 - b. Brief description and extent of the work (i.e., dredge, fill, management, maintenance) completed since the previous report or since the permit was issued. Show on copies of the permit drawings those areas where work has been completed.
 - c. Brief description and extent of the work (i.e. dredge, fill, management, maintenance) anticipated in the next six months. Indicate on copies of the permit drawings those areas where it is anticipated that work will be done.
 - d. This report shall include on the first page, just below the title, the certification of the following statement by the individual who supervised preparation of the report: "This report represents a true and accurate description of the activities conducted during the six month period covered by this report."
11. The permittee is responsible for retaining a professional engineer registered in the State of Florida to certify the construction of the project is in compliance with the approved permit plans.
12. Drawings, record drawings, land surveys, and as-built surveys required herein shall be certified by a Professional Engineer or Registered Land Surveyor, as appropriate, registered in the State of Florida.
13. The permittee shall submit two copies of signed, dated and sealed as-built drawings to the Department for review and approval within 30 days of completion of construction of the stormwater management system for the facility. The as-built drawings shall be based on the Department permitted construction drawings, which should be revised to reflect changes made during construction. Both the original design and constructed elevation must be clearly shown. The plans must be clearly labeled as "as-built" or "record" drawings. Surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered surveyor or engineer. ***As-builts shall be submitted to the Department regardless of whether or not deviations are present. In addition to the "As-built Certification" form, the permittee shall submit the "Request for Transfer of Environmental Resource Permit Construction Phase to Operation Phase" form as required in General Condition #13 prior to operation of the landfill expansion area.***

The following information shall be verified on the as-built drawings:

From the engineered, signed and sealed full-size drawing:
Joseph H. O'Neill, P.E., #52049
November 15, 2004

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 10 of 20

<u>Plan View/ Cross-Section</u>	<u>Sheet/ Page Number</u>
Landfill Expansion Cross-sections	Sheet 16
Landfill Expansion Cross-sections	Sheet 17

From the engineered, signed and sealed full-size drawing:
Joseph H. O'Neill, P.E., #52049
May 13, 2005

<u>Plan View/ Cross-Section</u>	<u>Sheet/ Page Number</u>
Stormwater Management Improvements	Sheet 8
Details	Sheet 22

From the engineered, signed and sealed full-size drawing:
Raymond J. Dever, P.E., #34031
September 30, 2005

<u>Plan View/ Cross-Section</u>	<u>Sheet/ Page Number</u>
Temporary Construction Dewatering Pond West	Sheet 8A
Temporary Construction Dewatering Pond Central (once restored to grade)	Sheet 18A
Sections and Details	

From the engineered, signed and sealed full-size drawing:
Charles E. Hilton, P.E., #46916
January 16, 2006

<u>Plan View/ Cross-Section</u>	<u>Sheet/ Page Number</u>
Sections and Details	Sheet 18

From the engineered, signed and sealed full-size drawing:
Charles E. Hilton, P.E., #46916
April 13, 2006

<u>Plan View/ Cross-Section</u>	<u>Sheet/ Page Number</u>
PH I/II Expansion	Sheet 13
Details	Sheet 21

From the engineered, signed and sealed full-size drawing:
Shane R. Fischer, P.E., #58026
June 23, 2006

Plan View
Rookery Screen Planting Schedule

Sheet/ Page Number
Sheet 6A

Construction

14. The surface water management system serving Phase II (Section I and Section II) shall be entirely constructed prior to landfill operations occurring within the Phase II area.
15. Storage or stockpiling of tools, materials (i.e., lumber, pilings, debris.) within wetlands, along the shoreline, within the littoral zone or elsewhere within waters of the state is prohibited.
16. The temporary construction sites for construction trailers, storage, parking, etc. shall be restored to natural conditions, including building removal and graveled areas being restored to grade, within 14 days of completion of construction.
17. Areas of exposed soils shall be isolated from surface waters and wetlands of the State to prevent erosion and deposition of these soils into State waters during permitted activities.
18. Best management practices for erosion control shall be implemented prior to construction commencement and shall maintained at all times during construction to prevent siltation and turbid discharges in excess of **State water quality standards pursuant to Rule 62-302, F.A.C.** Methods shall include, but are not limited to the use of staked hay bales, staked filter cloth, sodding, seeding, staged construction and the installation of turbidity screens around the immediate project site. Erosion control methods shall be implemented as depicted on Sheet **15 of 27** of the attached permit drawings.

The permittee shall be responsible for ensuring erosion control devices/procedures are inspected and maintained daily during all phases of construction authorized by this permit until areas disturbed during construction are sufficiently stabilized to prevent erosion, siltation, and turbid discharges.

The following measures shall be taken immediately by the permittee when turbidity levels within waters of the State surrounding the project site, **exceed 29 NTUs above background**:

- a. Immediately cease work contributing to the water quality violation.
- b. Stabilize exposed soils contributing to the violation. Modify the work procedures responsible for the violation, install additional turbidity containment devices and repair non-functioning turbidity containment devices.
- c. Notify the Department within 24 hours of the time the violation is first detected.

19. Wetland areas or surface waters, which are outside the specific limits of construction authorized by this permit, must be protected from erosion, siltation, scouring and/or dewatering. There shall be no discharge in violation of the water quality standards in Chapter 62-302, Florida Administrative Code. Turbidity/erosion controls shall be installed prior to clearing, excavation or placement of fill material, shall be maintained until construction is completed, disturbed areas are stabilized, and turbidity levels have fallen to less than **29 NTU's above background**. The turbidity and erosion control devices shall be removed within 14 days once these conditions are met.

20. Staked filter cloth shall be positioned at the edge of the permitted fill slopes adjacent to wetlands to prevent turbid run-off and erosion.

21. Grass seed, or sod shall be installed and maintained on exposed slopes and disturbed soil areas within 48 hours of completing final grade, and at other times as necessary, to prevent erosion, sedimentation or turbid discharges into waters of the state and/or adjacent wetlands. A vegetative cover that stabilizes and prevents erosion of the fill material shall be established within 60 days of sodding or seeding. Turbidity barriers/erosion control devices shall be removed upon establishment of a substantial vegetative cover.

22. Material used for fill to construct the stormwater management system shall be clean sand/shell material and shall not be contaminated with vegetation, garbage, trash, tires, hazardous, toxic waste or other materials that are not suitable for construction within waters of the State as determined by the Department.

23. Riprap shall be installed along the outfall of ditches, culverts, chutes, etc. at a maximum slope of 2:1 (Horizontal/Vertical). This shall be done within 14 days of completion of construction of the stormwater management system.

24. "Riprap" used for erosion control shall consist of unconsolidated boulders, rocks, or clean concrete rubble with no exposed reinforcing rods or similar protrusions. The riprap shall be free of sediment, debris and toxins or otherwise deleterious substances. Riprap shall have a diameter of at least 6 inches to 3 feet.

Dewatering

25. The dewatering shall be conducted in a manner which shall prevent the escape of turbid waters or sediments into wetlands and surface waters. Discharge of sediments to waters of the State shall not be allowed.

26. Sediments dredged from the construction of the BPTP shall be stored or disposed of in a self-contained upland site except for the sediments used to achieve grade within the BPTP.

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 13 of 20

27. The authorized dewatering sites are from the BPTP to the existing East Borrow Pit, and to the Temporary Construction Dewatering Pond (TCDP) Central and TCDP West, as indicated by the hashed arrows shown on Sheet 8A of 27 of the attached project drawings. This specific condition shall prevail over the dewatering plan shown on Sheet 8 of 27 of the attached project drawings.

28. The Central and West temporary construction dewatering ponds shall not be dredged to a depth greater than 82.0 feet NGVD.

29. Within 30 days of completing the dewatering activities TCDP West shall be filled in and restored to grade. The area shall be stabilized in accordance with Specific Condition No. 21.

30. TCDP Central shall be authorized to remain with a maximum depth of 82.0 feet NGVD. The berms above existing grade may be removed for cover at the landfill once dewatering activities have been completed. The design of the TDCP Central on Sheet 8A shall replace the design of the proposed borrow pit shown on Sheet 8 of the project drawings.

31. The authorized dewatering site from the Primary Pond is east to the Target Pond, located between the Primary Pond and the Target Range. The Target Pond will discharge into the temporary grassed recharge swale, shown on Sheet 15 of 27 of the project drawings, which may discharge into Wetland 2.

32. Best Management Practices shall be implemented and maintained to prevent erosion, siltation, scouring, etc. from occurring during the dewatering process.

33. Temporary piezometers shall be installed between the recharge swale and the wetland to monitor the groundwater elevations in the vicinity of the Wetland #2. The groundwater elevation shall be recorded prior to dewatering activities commencing at the beginning of each day and continued to be monitored every 4 hours while dewatering. If the water level varies more than 12 inches from the pre-construction level dewatering will cease until water levels return and the Department shall be notified immediately.

34. The baseline monitoring of the temporary piezometers shall be submitted to the Department prior to dewatering activities occurring. The subsequent monitoring reports shall be kept on site while dewatering activities commence. Within 30 days of completing the dewatering activities the monitoring reports shall be submitted to the Department.

35. The recharge swale shall be restored to grade within 30 days of completing the dewatering activities and as-builts submitted to the Department along with the as-built requirements specified in Specific Condition No. 13.

Stormwater

36. The purpose of the wetland weir is to improve hydration within Wetland No. 1 and shall be constructed in accordance with the approved project drawings on Sheet 8 and 21 of 27 prior to transferring the expansion area to operation phase.

37. Excavation of the detention pond is limited to the permitted design specifications as depicted on Sheet 8 of 27. If limestone bedrock is encountered during construction the Department shall be immediately notified and construction in the affected area shall cease.

38. The successful establishment and survival of littoral shelf vegetation within the Borrow Pit stormwater pond and the Primary pond are necessary for stormwater quality treatment and permit compliance. A minimum of 35 percent littoral shelf coverage of non-nuisance native vegetation, concentrated at the outfall is required before the system will be approved and transferred to the operation phase. The successful establishment of non-emergent vegetation, such as trees and shrubs, may also be included in the littoral shelf area. Periodic replanting is required if coverage falls below the 35 percent level.

39. Within 90 days from the date of issuance the permittee shall submit a topographic survey showing existing conditions of the Primary Pond and a proposed plan to establish a littoral shelf within the Primary Pond for Department approval. The littoral shelf plan shall include project drawings, calculations, and a planting schedule. Construction on the littoral shelf shall not commence until the plan has been approved by the Department. The littoral shelf construction shall be completed and as-builts approved prior to the expansion area being transferred to operation phase.

40. Signs shall be posted a minimum of every 100 feet around the perimeter of all wet detention ponds stating **"Stormwater Treatment Pond – No mowing or spraying of aquatic vegetation allowed unless authorized by FDEP. Call 813/632-7600 for more information."** These information signs shall be installed prior to the Transfer to Operation Phase and are required for the proper operation and maintenance of the stormwater treatment system.

41. The authorized stormwater management system shall be completed as depicted in the attached project drawings and prior to or simultaneously with associated upland development. Beneficial use (acceptance of waste/debris) shall not occur prior to transferring the expansion area to operation phase as required in General Condition 13.

43. The Operation and Maintenance Entity shall submit inspection reports in the form required by the Department, FDEP Form # 62-343.900(6), *Inspection Certification*, in accordance with the following schedule unless specified otherwise herein or in Application Information.

For systems utilizing retention and wet detention, the inspections shall be performed 24 months after operation is authorized and every 24 months thereafter.

44. The permittee shall notify the Department of any sinkhole development in the surface water management system within 48 hours after discovery and must submit a detailed sinkhole evaluation and repair plan for approval by the Department within 30 days of discovery. Repair of the sink hole shall not occur until written approval of the plan has been received by the Department.

45. If during the progress of this project prehistoric or historic artifacts, such as pottery or ceramics, stone tools or metal implements, dugout canoes, or any other physical remains that could be associated with Native American cultures are encountered at any time within the project site area, work shall cease in the immediate vicinity of such discoveries. The permittee, or other designee, should contact the Florida Department of State, Division of Historical Resources, Review and Compliance Section at 850/245-6333, or 800/847-7278, as well as the Department at 813/632-7600. Project activities should not resume without verbal and/or written authorization from the Division of Historical Resources.

In the event that any unmarked human remains are encountered anywhere on the subject property, all work shall stop immediately and the proper authorities notified in accordance with Section 872.05, Florida Statutes. The permittee, or other designee, should contact the authority cited in this Section. Thereafter, project activities should not resume without verbal and/or written authorization from the designated official

46. The permitted surface water management system shall only be used for the purpose of controlling stormwater runoff and not be used to dispose of, store, or otherwise contain any landfill material or for other operational aspects of the landfill.

47. The issuance of this Environmental Resource Permit does not constitute the review or approval of a NPDES Storm water permit or Pollution Prevention Plan. Construction activities that disturb more than one (1) acres of land are required to obtain a NPDES permit. Permittee is advised to contact the Department's NPDES stormwater program at (850) 245-7522 prior to the commencement of any construction.

Wetland Boundary Signs

48. Wetland buffers shall remain in an undisturbed condition except for approved drainage facility construction/maintenance.

49. Permanent signs shall be installed at the landward edge of all wetland boundaries. Permanent signs shall consist of 3/4-inch diameter aluminum posts, driven 30 inches into the ground and extending at least 3 feet above the ground with a highly visible aluminum sign (12 in by 12 in) bolted to the post. The sign should read:

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 16 of 20

WETLAND AREA
UNAUTHORIZED ACTIVITIES PROHIBITED
FDEP 813-632-7600

and shall include the Department's local phone number for contact if information is needed regarding activities within the designated wetland areas. The permanent signs as described above shall be posted at 200 ft. intervals and in conspicuous locations throughout the wetland buffer areas.

Protected Species and Plantings

50. Prior to construction activities the BPTP shall be surveyed for the american alligator. If an american alligator is located within the construction area the permittee shall cease construction activities until FWC can relocate the alligator.

51. Prior to construction activities of the expansion area and temporary ponds, the area shall be resurveyed to ensure that tortoises do not occur in the construction areas. If tortoises or tortoise burrows are located then the appropriate permits shall be obtained from FWC and a copy submitted to the Department prior to construction.

52. A portion of the borrow pit stormwater pond is located within a 300 foot buffer zone of an adjacent wading bird rookery, shown on Exhibit 5 of the attached project drawings. To minimize impacts to this rookery, the rookery shall be monitored for disturbances while construction activities are on-going between the months of March through August. If the rookery appears disturbed then construction activities must be moved outside the 300 foot buffer area.

53. The permittee shall create a visual buffer between the landfill and the bird rookery as shown on sheet 6A. At a minimum, the buffer shall consist of 5 foot tall slash pines planted on 10-foot centers with two 3 gallon wax myrtles, ranging in height from 3-6 feet, planted between each pair of slash pines. The buffer shall be planted within 60 days of the issuance date of this permit.

54. A "Time Zero" Monitoring Report shall be submitted within 30 days of completion of the planting. The report shall include the following:

- a. Date the planting was completed.
- b. Enough color photographs to show the entire completed restoration area taken from fixed reference points shown on a plan-view drawing.
- c. Nursery receipts for all plants used in the Restoration Actions.

- d. Number and spacing of each species planted.
- e. Description of any exotic vegetation removal or control conducted to date including the acreage of exotic vegetation removal and how vegetation removal or control was conducted.

55. A subsequent monitoring report shall be submitted in 1 year following completion of the trees being planted. The monitoring report shall include the following information:

- a. Permittee's name, address, file number, and site location.
- b. Date of inspection.
- c. Color photographs taken from the previously established fixed benchmark locations, to accurately depict site conditions.
- d. Percentage or number of species that has survived.
- e. A written summary describing the condition of the buffer area including steps needed and/or taken to promote future success such as replanting and/or nuisance or exotic species removal.

56. At the time of the subsequent monitoring event the buffer planting will be considered successful if at least 70% percent of the trees have survived and the survivors exhibit natural vigorous growth consistent with the species. If survival of the buffer planting is less than 70% than replanting is required. If less than 50% of trees have survived the area shall be replanted and subsequent monitoring performed in one year following the guidelines in Specific Condition No. 54 and 55.

BIBLIOGRAPHY

Approved references for methodology are listed below, other methodologies must be approved in advance by the Department.

Daubenmire, R. 1968, Plant Communities: A Textbook of Synecology, Harper and Row, New York, 300 pp.

Green, R.H. 1979. Sampling Design and Statistical Methods for Environmental Biologists. John Wiley & Sons, New York. 257 pp.

Grieg-Smith, P. 1983, 3rd Ed. Quantitative Plant Ecology. University of California Press, Berkley.

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 18 of 20

Mueller-Dombois, D. and H. Ellenberg, 1974, Aims and Methods of Vegetation Ecology, John Wiley, New York, 547 pp.
Oosting, H. J. 1956. The study of Plant Communities: An Introduction to Plant Ecology. W.H. Freeman, San Francisco.

Poole, R.W. 1974. An Introduction to Quantitative Ecology. McGraw-Hill, New York.

Ryan, J.D., Calder, F.D., and Burney, L.C. December, 1984. Deepwater Ports Maintenance Dredging and Disposal Manual, A Guide to Planning, Estuarine Chemical Data Collection, Analysis, and Interpretation. State of Florida, Department of Environmental Regulation. Fourth Revision.

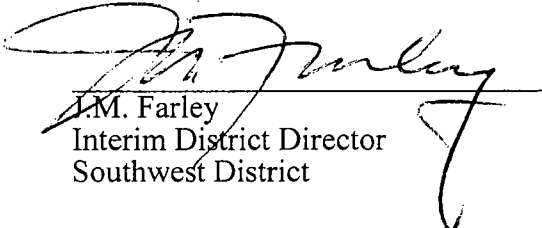
Southwood, T.R.E. 1978. Ecological Methods. Chapman & Hall, London.

END OF SPECIFIC CONDITIONS

Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 19 of 20

Executed in Temple Terrace, Florida.

STATE OF FLORIDA DEPARTMENT
OF ENVIRONMENTAL PROTECTION



J.M. Farley
Interim District Director
Southwest District

Copies furnished to:

DEP, Office of General Counsel

DEP, Solid Waste

U.S. Army Corps of Engineers

FWC, Imperiled Species Management Section,

att: Stephen R. Lau, 255 154th Avenue, Vero Beach, FL 32968

USFWS, South Florida Ecological Services Office, 1339 20th Street, Vero Beach, FL 32960

Strickland Environmental, Inc., 127 West Fairbanks Ave., Winter Park, FL 32789

File

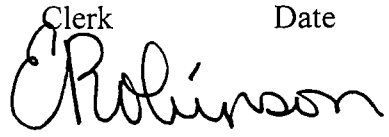
Permittee: Hardee Co. BOCC
Project: Hardee Co. Landfill
Permit No: 25-0124892-002
Page 20 of 20

CERTIFICATE OF SERVICE

The undersigned duly designated deputy clerk hereby certifies that this permit and authorization to use sovereign submerged lands, including all copies, were mailed before the close of business on 7/10/06, to the above listed persons.

FILING AND ACKNOWLEDGMENT

FILED, on this date, under 120.52(7) of the
Florida Statutes, with the designated Department Clerk,
receipt of which is hereby acknowledged.

Clerk Date
 7/10/06

Attachments:

Joint ERP Application, 5 pages
Project Drawings, Pages 1-8, 6A, 8A, 9-18, 18A, 19-22
Exhibit 1, Project Location
Exhibit 2, Boundary and Topographic Survey
Exhibit 5, T&E Species Map
SWMS Operation and Maintenance Guidelines, 6 pages
Commencement notice/ 62-343.900(3)
Annual status report/62-343.900(4)
As-built certification/62-343.900(5)
Inspection certification/62-343.900(6)
Transfer construction to operation phase/ 62-343.900(7)
Application for transfer of an ERP permit/62-343.900(8)

SECTION A

FOR AGENCY USE ONLY

ACOE Application #
Date Application Received
Proposed Project Lat.
Proposed Project Long.

DEP/WMD Application #
Date Application Received
Fee Received \$
Fee Receipt #

PART 1:

Are any of the activities described in this application proposed to occur in, on, or over wetlands or other surface waters?

☒ yes ☐ no

Is this application being filed by or on behalf of a government entity or drainage district? ☒ yes ☐ no

PART 2:

A. Type of Environmental Resource Permit Requested (check at least one). See Attachment 2 for thresholds and descriptions.

- ☐ Noticed General - include information requested in Section B.
☐ Standard General (Single Family Dwelling) - include information requested in Sections C and D.
☐ Standard General (all other Standard General projects) - include information requested in Sections C and E.
☐ Individual (Single Family Dwelling) - include information requested in Sections C and D.
☒ Individual (all other Individual projects) - include information requested in Sections C and E.
☐ Conceptual - include information requested in Sections C and E.
☐ Mitigation Bank Permit (construction) - include information requested in Sections C and F. (If the proposed mitigation bank involves the construction of a surface water management system requiring another permit defined above, check the appropriate box and submit the information requested by the applicable section.)
☐ Mitigation Bank (conceptual) - include information requested in Sections C and F.

B. Type of activity for which you are applying (check at least one)

- ☐ Construction or operation of a new system, other than a solid waste facility, including dredging or filling in, on or over wetlands and other surface waters.
☒ Construction, expansion or modification of a solid waste facility.
☐ Alteration or operation of an existing system which was not previously permitted by a WMD or DEP.
☐ Modification of a system previously permitted by a WMD or DEP.
Provide previous permit numbers:
☐ Alteration of a system ☐ Extension of permit duration
☐ Abandonment of a system ☐ Construction of additional phases of a system
☐ Removal of a system

C. Are you requesting authorization to use Sovereign Submerged Lands?

☐ yes ☒ no

(See Section G and Attachment 5 for more information before answering this question.)

D. For activities in, on, or over wetlands or other surface waters, check type of federal dredge and fill permit requested:

- ☐ Individual ☐ Programmatic General ☐ General
☐ Nationwide ☒ Not Applicable

E. Are you claiming to qualify for an exemption? ☐ yes ☒ no
If yes, provide rule number if known.

PART 3:	B. ENTITY TO RECEIVE PERMIT (IF OTHER THAN OWNER)
A. OWNER(S) OF LAND	
Name Hardee County Board of County Commissioners	Name Janice Williamson
Title and Company	Title and Company Solid Waste Director, Hardee County
Address 412 W. Orange Street	Address 685 Airport Road
City, State, Zip Wauchula, FL 33873	City, State, Zip Wauchula, FL 33873
Telephone and Fax	Telephone and Fax (863)773-5089 phone (863)773-3907 fax
C. AGENT AUTHORIZED TO SECURE PERMIT	D. CONSULTANT (IF DIFFERENT FROM AGENT)
Name Joseph H. O'Neill, P.E.	Name
Title and Company SCS Engineers, Senior Project Engineer	Title and Company
Address 3012 U.S. Highway 301 North, Suite 700	Address
City, State, Zip Tampa, FL 33619	City, State, Zip
Telephone and Fax (813)621-0080 phone (813)623-6757 fax	Telephone and Fax

PART 4: (Please provide metric equivalent for federally funded projects):

A. Name of Project, including phase if applicable: Hardee County Landfill Expansion

B. Is this application for part of a multi-phase project?
☒ yes ☐ no

C. Total applicant-owned area contiguous to the project?
115.8 ac.; 46.9 ha.

D. Total area served by the system: 118.5 ac.; 48.0 ha.

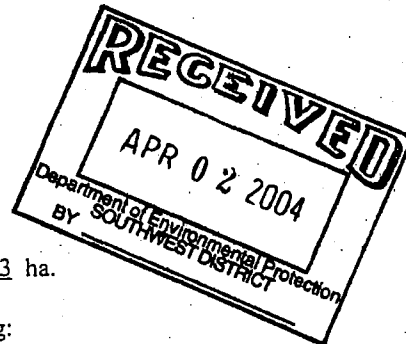
E. Impervious area for which a permit is sought: 10.7 ac.; 4.3 ha.

F. Volume of water that the system is capable of impounding:
7.5 ac. ft.; ___ m

G. What is the total area of work in, on, or over wetlands or other surface waters?
0.02 ac.; 0.008 ha. 870 sq. ft.; 80.9 sq. m.

H. Total volume of material to be dredged: 0 yd; ___ m

I. Number of new boat slips proposed: 0 wet slips; ___ dry slips



PART 5:

Project location (use additional sheets if needed):

County(ies) Hardee

Section(s) 35 Township 33S

Range 25E

Section(s) 26 Township 33S

Range 25E

Section(s) Township

Range

Land Grant name, if applicable: N/A

Tax Parcel Identification Number:

Street Address Road or other location: 685 Airport Road

City, Zip Code, if applicable: Wauchula, FL 33873

PART 6: Describe in general terms the proposed project, system, or activity.

A 10-acre expansion to the south and west swathes of land adjacent to the existing solid waste landfill footprint.

PART 7:

A. If there have been any pre-application meetings, including on-site meetings, with regulatory staff, please list the date(s), location(s), and names of key staff and project representatives.

3/18/03, FDEP Southwest District Office, Susan Pelz, Kim Ford, John Moris, Janice Williamson, Joe O'Neill, Lindsey Kennelly

4/30/03, FDEP Southwest District Office, David Smith, Cathy Litscher, Teresa Carver, Janice Williamson, Jean Strickland, Raymond Dever, Joseph O'Neill, Lindsey Kennelly

B. Please identify by number any MSSW/Wetland Resource/ERP/ACOE Permits pending, issued or denied for projects at the location, and any related enforcement actions.

Agency	Date	No./Type of Application	Action Taken
<u>SWFWMD</u>	<u>June 30, 1990</u>	<u>407767.00</u>	<u>Solid Waste Recycling Center</u>
<u>FDEP</u>	<u>Nov. 3, 1997</u>	<u>25-0124892-001</u>	<u>Leachate Storage Tank Facility</u>
<u>SWFWMD</u>	<u>May 29, 1996</u>	<u>477767.01</u>	<u>Animal Control Building</u>

MSSW Permits and ERPs are located in Attachment A-1

C. Note: The following information is required for projects proposed to occur in, on or over wetlands that need a federal dredge and fill permit or an authorization to use state owned submerged lands. Please provide the names, addresses and zip codes of property owners whose property directly adjoins the project (excluding application) and/or (for proprietary authorizations) is located within a 500 ft. radius of the applicant's land. Please attach a plan view showing the owner's names and adjoining property lines. Attach additional sheets if necessary.

- | | |
|----|----|
| 1. | 2. |
| 3. | 4. |
| 5. | 6. |
| 7. | 8. |

PART 8:

A. By signing this application form, I am applying, or I am applying on behalf of the applicant, for the permit and any proprietary authorizations identified above, according to the supporting data and other incidental information filed with this application. I am familiar with the information contained in this application and represent that such information is true, complete and accurate. I understand this is an application and not a permit, and that work prior to approval is a violation. I understand that this application and any permit issued or proprietary authorization issued pursuant thereto, does not relieve me of any obligation for obtaining any other required federal, state, water management district or local permit prior to commencement of construction. I agree, or I agree on behalf of the applicant, to operate and maintain the permitted system unless the permitting agency authorizes transfer of the permit to a responsible operation entity. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Joseph H. O'Neill, P.E.

Typed/Printed Name of Applicant (If no Agent is used) or Agent (If one is so authorized below)

Signature of Applicant/Agent

Date

SCS Engineers, Project Manager

(Corporate Title if applicable)

AN AGENT MAY SIGN ABOVE ONLY IF THE APPLICANT COMPLETES THE FOLLOWING:

B. I hereby designate and authorize the agent listed above to act on my behalf, or on behalf of my corporation, as the agent in the processing of this application for the permit and/or proprietary authorization indicated above; and to furnish, on request, supplemental information in support of the application. In addition, I authorize the above-listed agent to bind me, or my corporation, to perform any requirements which may be necessary to procure the permit or authorization indicated above. I understand that knowingly making any false statement or representation in this application is a violation of Section 373.430, F.S. and 18 U.S.C. Section 1001.

Janice Williamson

Typed/Printed Name of Applicant

Signature of Applicant

Date

Hardee County Landfill, Solid Waste Director
 (Corporate Title if applicable)

Please note: The applicant's original signature (not a copy) is required above.

PERSON AUTHORIZING ACCESS TO THE PROPERTY MUST COMPLETE THE FOLLOWING:

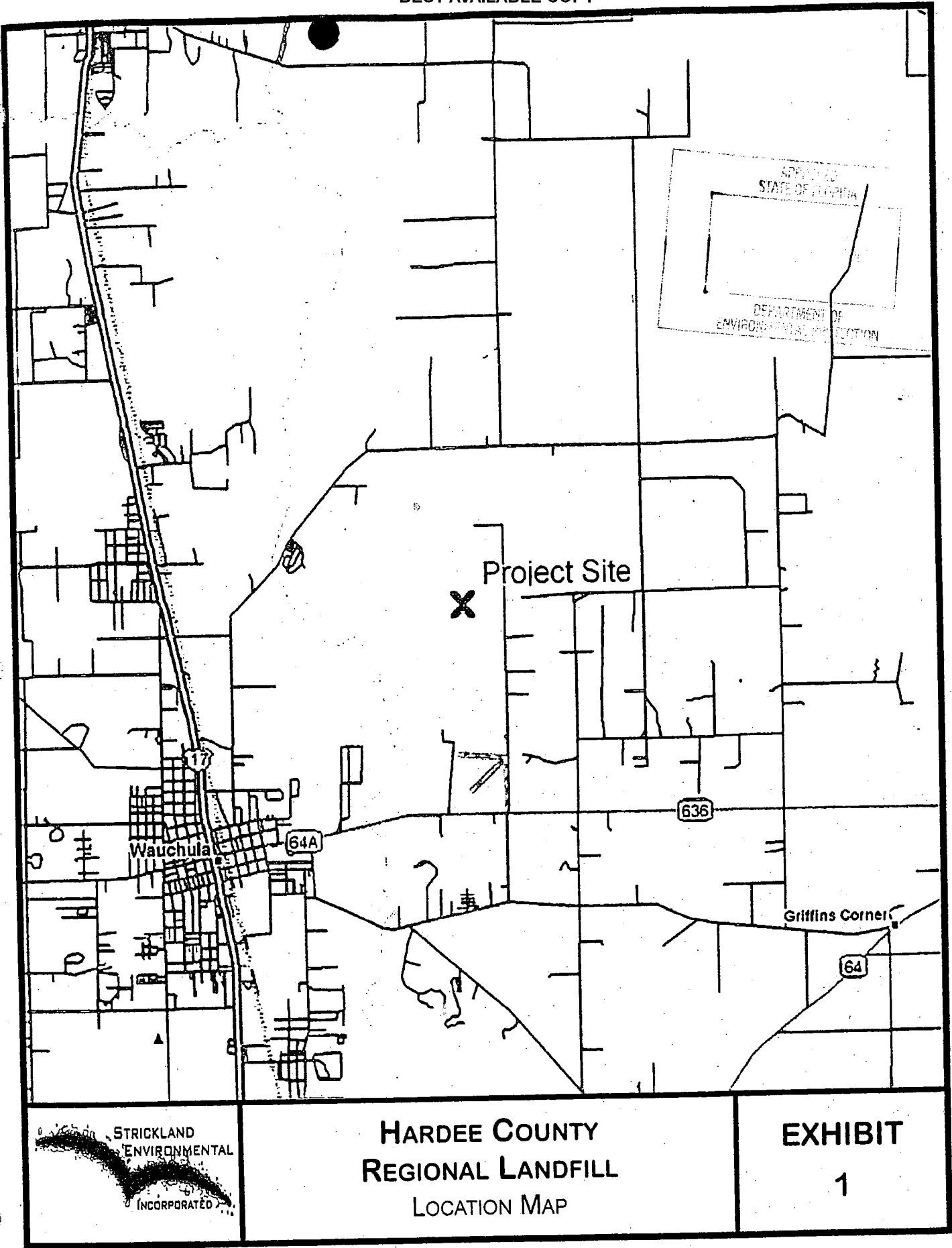
C. I either own the property described in this application or I have legal authority to allow access to the property, and I consent, after receiving prior notification, to any site visit on the property by agents or personnel from the Department of Environmental Protection, the Water Management District and the U.S. Army Corps of Engineers necessary for the review and inspection of the proposed project specified in this application. I authorize these agents or personnel to enter the property as many times as may be necessary to make such review and inspection. Further, I agree to provide entry to the project site for such agents or personnel to monitor permitted work if a permit is granted.

Typed/Printed Name of Applicant

Signature of Applicant

Date

(Corporate Title if applicable)



STRICKLAND
ENVIRONMENTAL
INCORPORATED

**HARDEE COUNTY
REGIONAL LANDFILL
LOCATION MAP**

**EXHIBIT
1**

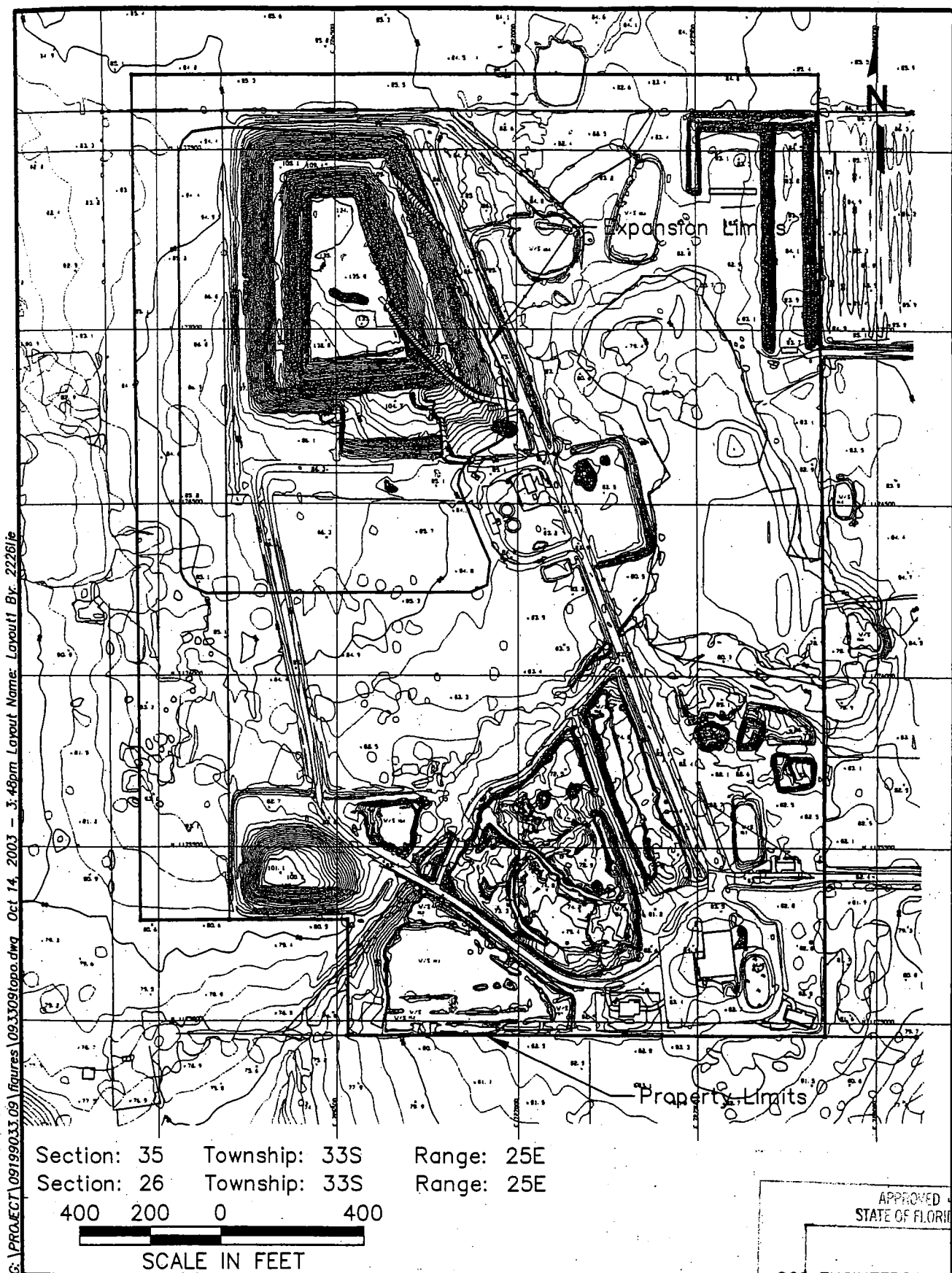
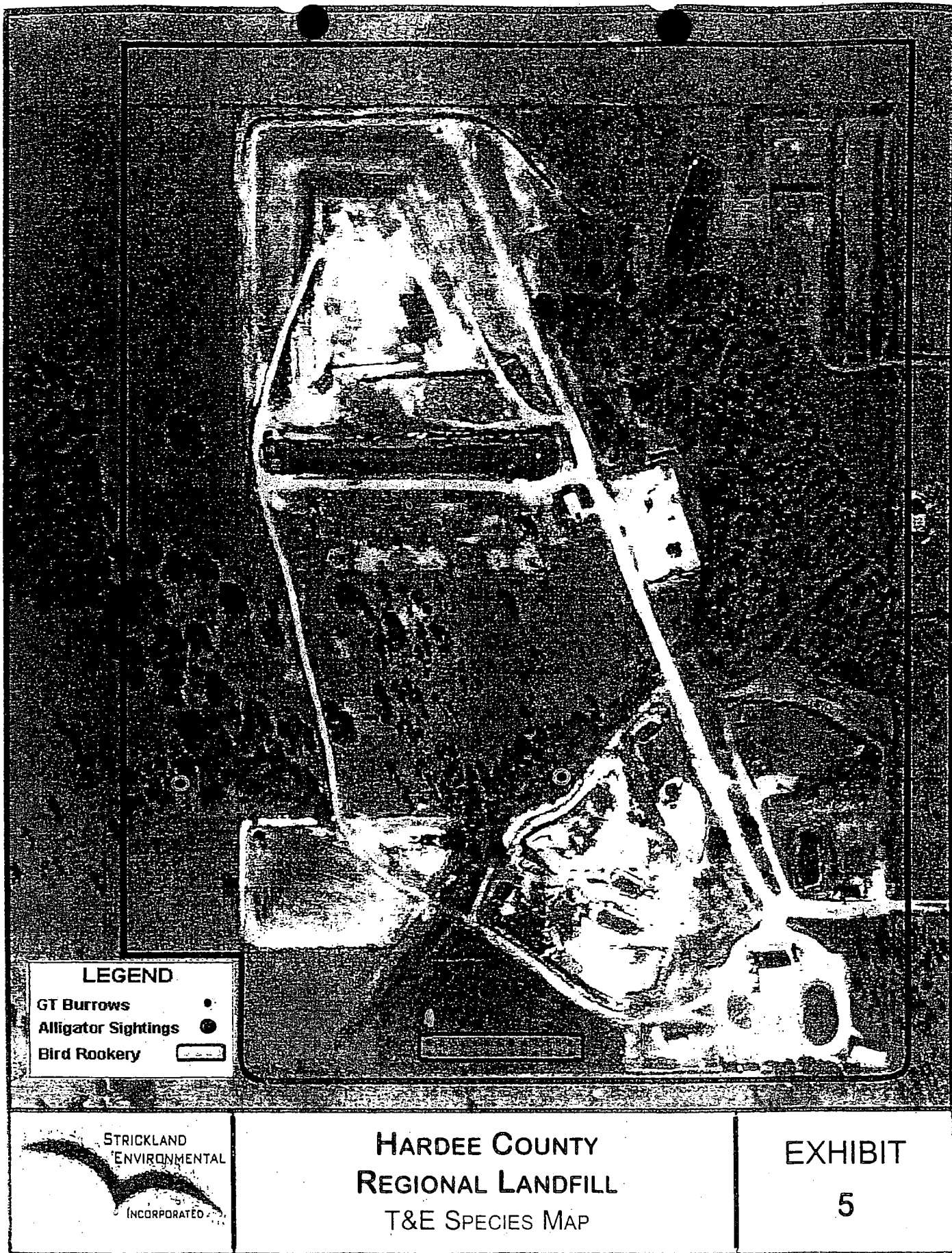


Exhibit 2. Boundary and Topographic Survey, Hardee County Landfill,
 Hardee County, Florida



HARDEE COUNTY LANDFILL STORMWATER MANAGEMENT SYSTEM OPERATION AND MAINTENANCE GUIDELINES

Maintenance procedures to be implemented at the Hardee County Landfill (Site) for the proper operation of the stormwater management system are summarized below:

BEST MANAGEMENT PRACTICES

A stormwater Best Management Practice (BMP) is a practice or combination of practices choosing the most effective, economical, and practical means to prevent or reduce the amount of pollution generated by the Site to a level compatible with federal, state and local water quality goals to reduce pollution. The selection of an appropriate BMP will depend greatly upon site conditions such as land use, topography, slope, water table elevation, geology, and construction activities. To address the potential sources of pollution, BMPs should be selected to reduce or eliminate the discharge of pollutants from the Site to the maximum extent practical.

BMPs shall be planned for the overall site as part of a system to control the erosion, sedimentation, and runoff peaks generated at the Site. The system will include vegetative practices as part of the overall comprehensive plan and be in accordance with the state and local laws and regulations. BMPs may be temporary or permanent in design.

Temporary BMPs

Temporary BMPs will be those installed to control erosion, sedimentation and storm runoff peaks on a temporary basis. These will be removed after the period of required use is complete.

Permanent BMPs

Permanent BMPs will be those installed to control erosion, sedimentation and storm water runoff peaks for an extended period of time. Care should be exercised in the selection and implementation of a BMP to ensure its suitability, proper operation, and to prevent undesirable results like the protection of surface waters while contaminating groundwater. There are three basic options that can be used: 1) prevention; 2) treatment; and 3) control.

1. Prevention is the most desirable option because (with this choice) a problem is never caused. Although the prevention option is the most desirable, it is not-always feasible. When prevention is not feasible, one must look to some sort of treatment measure (BMP to abate pollution).
2. Treatment measures would involve the use of physical processes to reduce residual levels of pollutants. Treatment systems would include measures like storage of storm water (detention systems), use of diversions as collection systems, sediment basins to keep sediment from leaving the site, and other

BMPs. Where preventative and treatment measures alone cannot achieve the desired reduction in pollution, or where existing activities are having substantial negative effects on water quality, control measures may be required.

3. Control measures would be implemented largely in existing situations and in conjunction with other measures to abate pollution. Control measures in this context would involve structural and non-structural such as cleaning operations, routine inspection and maintenance, and debris and litter control and collection.

STRUCTURAL AND NON-STRUCTURAL CONTROLS

Erosion and sediment controls will be comprised of both structural and non-structural measures and controls. Structural and non-structural stormwater controls will be addressed to; divert up-slope storm water runoff around disturbed areas; limit the extent of exposure of disturbed areas; limit the amount of disturbed areas; implement BMPs to mitigate possible adverse impacts from the stormwater runoff; and remove the sediment from the stormwater runoff before it leaves the Site.

Typical structural erosion controls may include:

- Perimeter controls;
- Mulching and seeding exposed areas;
- Sediment basins and traps; and
- Filter fabric or silt fences.

Typical non-structural erosion controls may include:

- Minimizing the area of bare soil exposed at one time; and
- Stabilizing cut-and-fill slopes caused by construction activities.

Annual Site Compliance Evaluation

A site compliance evaluation is conducted by qualified personnel on an annual basis, and includes the following aspects:

- Inspect stormwater drainage areas, to include swales and berms -for evidence of pollutants entering the stormwater management system. Pollutants include loose debris sediments
- Evaluate the effectiveness of measures to reduce pollutant loadings and whether additional measures are needed.
- Observe structural measures, sediment controls, and other stormwater BMPs to ensure proper operation.

- Inspect any equipment needed to implement the BMPs, such as spill response equipment and material.
- Implement any necessary changes in a timely.

GOOD HOUSEKEEPING

One of the first steps required for creating an effective operation and maintenance plan is to implement good housekeeping practices. Good housekeeping practices are designed to maintain a clean and orderly work environment. This involves using common sense to reduce the possibility of accidental spills, improve the response time if there is a spill, and reduce safety hazards as well. Good housekeeping practices are often effective in preventing stormwater impacts, are relatively easy to administer, and are inexpensive.

Material Storage Practices

Materials shall be stored in the designated areas with the following storage criteria:

- Store containers, drums, and bags away from direct traffic routes to prevent accidental spills.
- Stack containers, drums, and bags according to manufacturers' instructions to avoid damaging the containers from improper weight distribution.
- Store containers on pallets or similar devices to prevent corrosion of the containers that can result when containers come in contact with moisture on the ground.
- Assign the responsibility of hazardous material inventory to a limited number of people who are properly trained to handle hazardous materials.

Label all containers to show the name and type of substance, stock numbers, expiration date, health hazards, suggestions for handling, and first aid information. This information can usually be found on the Material Safety Data Sheets (MSDS). Unlabeled chemicals, and chemicals with deteriorated labels are often disposed of unnecessarily or improperly; therefore, if a chemical is not labeled it is not accepted on site.

Visual Examinations

Regular visual inspections of the site should be conducted to verify that all elements of BMPs are in place. The visual inspection program should include the following:

- Identify qualified personnel who will inspect plant equipment and areas.
- Track results of inspections to ensure that appropriate actions are taken.
- Maintain records of all inspections.

The following areas should be included in the visual inspection program:

- Areas around equipment identified as needing preventative maintenance.
- Areas where spills and leaks have occurred in the past.
- Material storage areas.
- Material handling areas (i.e., loading, unloading, transfer).
- Waste generation, storage, treatment, and disposal areas.
- Stormwater management devices (i.e., pipes, drop inlets).
- Stormwater berms and swales.

A qualified professional will conduct routine preventative maintenance inspections at the Site as needed after significant rainfall events, and at a minimum, on a yearly basis. The inspector will inform the operator of maintenance needs, and implement corrective actions as necessary. Urgent repairs will be addressed immediately in a temporary fashion while plans for permanent repairs are implemented. Regular inspections will identify problem areas that can impact the performance of the stormwater management system and its ability to properly treat stormwater runoff, including:

- Leaks;
- Cracked pipes, hoses, or belts;
- Corrosion;
- Support or foundation failure;
- Fumes;
- Structural soundness;
- Erosion; and
- Sediment.

In addition to periodic inspections, Hardee County (County) undergoes visual examinations of stormwater by examining for:

- Color;
- Odor;
- Clarity;
- Floating solids;
- Settled solids;
- Suspended solids;
- Foam;
- Oil sheen; and
- Other obvious indicators of pollution.

Regular Operational Activities

The following operational maintenance activities shall be performed on a regular basis or as needed:

- Routinely inspect for leaks or conditions that could lead to discharges of chemicals or contact of stormwater with raw materials, intermediate materials, waste materials, or products.
- Remove sediment that has accumulated in erosion and sediment control devices (haybales, silt fences, etc.) and repair or replace worn sections of the control devices.
- Removal of trash and debris.
- Inspection of inlets and outlets.
- Inspect swales and berms for accumulated sediments and stability prior to and after storm events.
- Removal of sediments or vegetation when the storage volume or conveyance capacity of the stormwater management system is below design levels.
- Stabilization and restoration of eroded areas.

Preventative Maintenance

Preventative maintenance involves the regular inspection and testing of equipment to uncover any slow leaks, deterioration, or cracks. A preventative maintenance program must include the following:

- Timely inspection and maintenance of stormwater management devices (i.e., pipes, drop inlets).
- Inspection and testing of facility equipment and systems to uncover conditions that could cause breakdowns or failures resulting in discharges of pollutants to surface waters.
- Proper maintenance of facility equipment and systems.
- Identification of equipment, systems, and facility areas that should be inspected.
- Schedule periodic inspections or tests of this equipment or systems.
- Appropriate and timely adjustment, repair or replacement of equipment and systems.

- Maintenance of complete records on inspections, equipment, and systems.
- Stabilize eroded areas with seeding or sodding, including replacement of the cover system as needed.
- Trimming grass around inlets or structures to prevent clogging.

SCHEDULE

Daily: Visual inspection of facilities (i.e., sediment controls, erosion controls, cover system, pond, berms, swales, stormwater structures) during storm events and dry weather. If previous knowledge of a storm event is known, all temporary and permanent stormwater structures and erosion control devices shall be inspected to ensure stability during the rain event. The stormwater management system structures and erosion control devices shall be inspected after every significant storm event.

Monthly: Inspect facility and stormwater management system, conduct employee training, mow and trim facility grounds as required.

Annually: Site evaluation.

As-Needed: Implement repair activities. Remove sediment that has accumulated in erosion and sediment control devices (haybales, silt fences, etc.) and repair or replace worn sections of the control device.

ENVIRONMENTAL RESOURCE PERMIT Construction Commencement Notice

Project:

Phase:

I hereby notify the Department of Environmental Protection that the construction of the surface water management system authorized by Environmental Resource Permit Number _____ has commenced / is expected to commence on _____ and will require a duration of approximately _____ months _____ weeks _____ days to complete. It is understood that should the construction term extend beyond one year, I am obligated to submit the Annual Status Report for surface Water Management System Construction.

PLEASE NOTE: If the actual construction commencement date is not known, Department staff should be so notified in writing in order to satisfy permit conditions.

Permittee or Authorized Agent

Title and Company

Date

Phone

Address

ENVIRONMENTAL RESOURCE PERMIT ANNUAL STATUS REPORT FORM

Florida Department of Environmental Protection

Permit No. _____

County: _____

Project Name: _____

Phase: _____

The following activity has occurred at the above referenced project during the past year, between June 1, 19__ and May 30, 19__.

Permit Condition / Activity	% of Completion	Date of anticipated Completion	Date of Completion
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

(Use Additional Sheets As Necessary)

Benchmark Description (one per major control structure):

Print Name

Phone

Permittee's or Authorized
Agent's Signature

Title and Company

Date

This form shall be submitted to the above referenced Department Office during June of each year for activities whose duration of construction exceeds one year.

ENVIRONMENTAL RESOURCE PERMIT
AS-BUILT CERTIFICATION BY A REGISTERED PROFESSIONAL

Permit Number:

Project Name:

I hereby certify that all components of this surface water management system have been built substantially in accordance with the approved plans and specifications and are ready for inspection. Any substantial deviations (noted below) from the approved plans and specifications will not prevent the system from functioning as designed when properly maintained and operated. These determinations are based upon on-site observation of the system conducted by me or by my designee under my direct supervision and/or my review of as-built plans certified by a registered professional or Land Surveyor licensed in the State of Florida.

Name (please print)

Signature of Professional

Company Name

Florida Registration Number

Company Address

Date

City, State, Zip Code

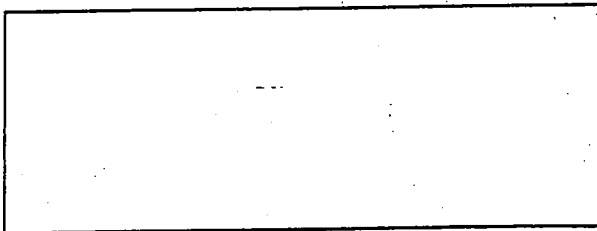
Telephone Number

(Affix Seal)

Substantial deviations from the approved plans and specifications:

(Note: attach two copies of as-built plans when there are substantial deviations)

Within 30 days of completion of the system, submit two copies of the form to:



ENVIRONMENTAL RESOURCE PERMIT INSPECTION CERTIFICATION

Permit Number: _____

Project Name: _____

Inspection Date(s): _____

Inspection Results: (check one)

____ I hereby certify that I or my designee under my direct supervision have inspected the system at the above referenced project and that the system appears to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable).

____ The following necessary maintenance was conducted:

____ I hereby certify that I or my designee under my direct supervision has inspected the system at the above referenced project and that the system does not appear to be functioning in accordance with the requirements of the permit and Chapter 373 F.S. (as applicable). I have informed the operation and maintenance entity of the following: (a) that the system does not appear to be functioning properly, (b) that maintenance is required to bring the system into compliance, and (c) if maintenance measures are not adequate to bring the system into compliance, the system may have to be replaced or an alternative design constructed subsequent to Department approval.

Name (please print)

Signature of Professional Engineer

Company Name

Florida Registration Number

Company Address

Date

City, State, Zip Code

Telephone Number

(Affix Seal)

Within 30 days of completion of the inspection, submit two copies of this form to the following Department Office:

Department of Environmental Protection

REQUEST FOR TRANSFER OF ENVIRONMENTAL RESOURCE PERMIT CONSTRUCTION PHASE TO OPERATION PHASE

(To be completed and submitted by the operating entity)

Florida Department of Environmental Protection

It is requested that Department Permit No. _____ authorizing the construction and operation of a surface water management system for the below mentioned project be transferred from the construction phase permittee to the operation phase operating entity.

PROJECT: _____

FROM: Name: _____
Address: _____
City: _____ State: _____
Zipcode: _____

TO: Name: _____
Address: _____
City: _____ State: _____
Zipcode: _____

The surface water management facilities are hereby accepted for operation and maintenance in accordance with the engineers certification and as outlined in the restrictive covenants and articles of incorporation for the operating entity. Enclosed is a copy of the document transferring title of the operating entity for the common areas on which the surface water management system is located. Note that if the operating entity has not been previously approved, the applicant should contact the Department staff prior to filing for a permit transfer.

The undersigned hereby agrees that all terms and conditions of the permit and subsequent modifications, if any, have been reviewed, are understood and are hereby accepted. Any proposed modifications shall be applied for and obtained prior to such modification.

Operating Entity _____

Name _____

Title _____

Telephone _____

Enclosure:

- () Copy of recorded transfer of title surface water management system
- () Copy of plat(s)
- () Copy of recorded restrictive covenants, articles of incorporation, and certificate of incorporation

APPLICATION FOR TRANSFER OF ENVIRONMENTAL RESOURCE PERMIT AND NOTIFICATION
OF SALE OF A FACILITY OR SURFACE WATER MANAGEMENT SYSTEM

Permit No. _____ Date Issued _____ Date Expires _____

FROM (Name of Current Permit Holder) _____

Mailing Address _____

City _____ State _____ Zip Code _____

Telephone: (____) _____

Identification or Name of Facility/Surface Water Management System: _____

Phase of Facility/Surface Water Management System (if applicable): _____

The undersigned hereby notifies the Department of the sale or legal transfer of this facility, or surface-water management system, and further agrees to assign all rights and obligations as permittee to the applicant in the event the Department agrees to the transfer of permit.

Signature of the current permittee: _____

Title (if any): _____ Date: _____

TO (Name of Proposed Permit Transferee): _____

Mailing Address: _____

City: _____ State: _____ Zip Code: _____

Telephone: (____) _____

The undersigned hereby notifies the Department of having acquired the title to this facility, or surface-water management system. The undersigned also states he or she has examined the application and documents submitted by the current permittee, the basis of which the permit was issued by the Department, and states they accurately and completely describe the permitted activity or project. The undersigned further attests to being familiar with the permit, agrees to comply with its terms and with its conditions, and agrees to assume the rights and liabilities contained in the permit. The undersigned also agrees to promptly notify the Department of any future changes in ownership of, or responsibility for, the permitted activity or project.

Signature of the applicant (Transferee): _____

Title (if any): _____ Date: _____

Project Engineer Name (if applicable) _____

Mailing Address: _____

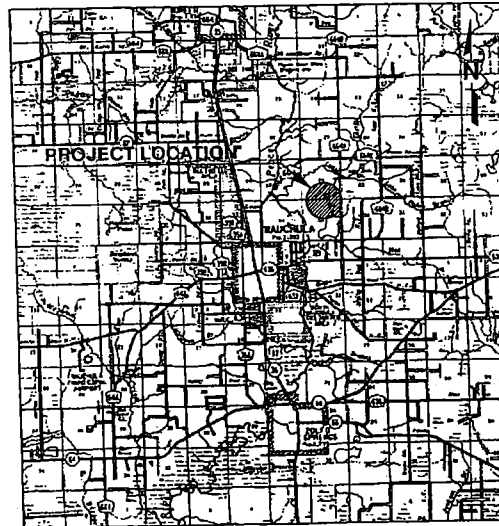
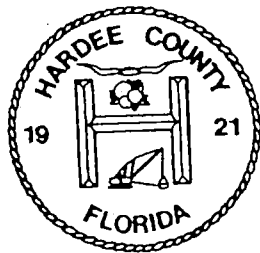
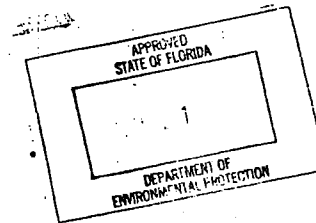
Telephone: (____) _____

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
3804 COCONUT PALM DR.
TAMPA, FLORIDA 33619-1352

HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION PERMIT

PREPARED FOR
BOARD OF COUNTY COMMISSIONERS
HARDEE COUNTY, FLORIDA

MARCH 2004



LOCATION MAP
NOT TO SCALE

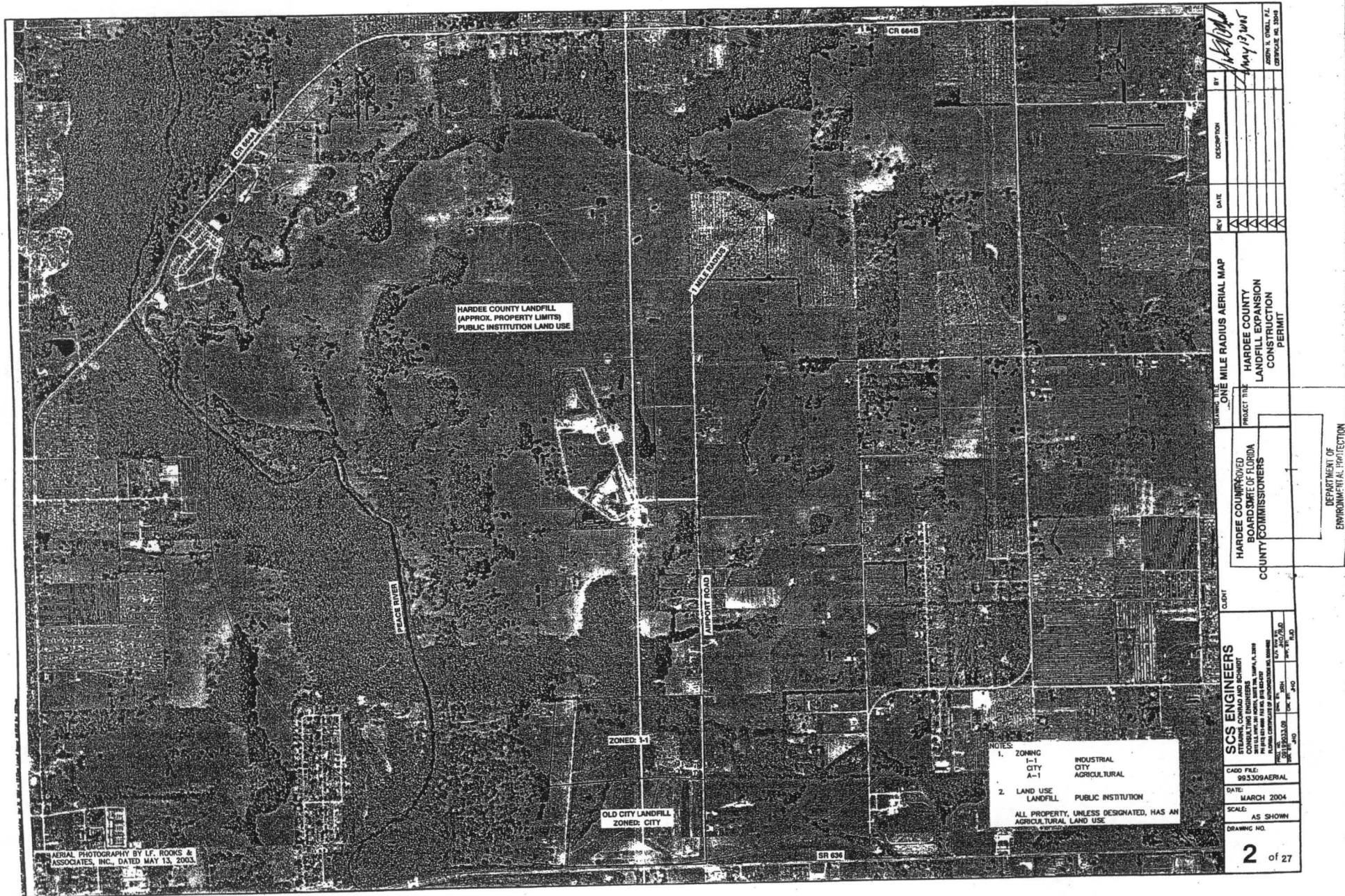
SCS ENGINEERS

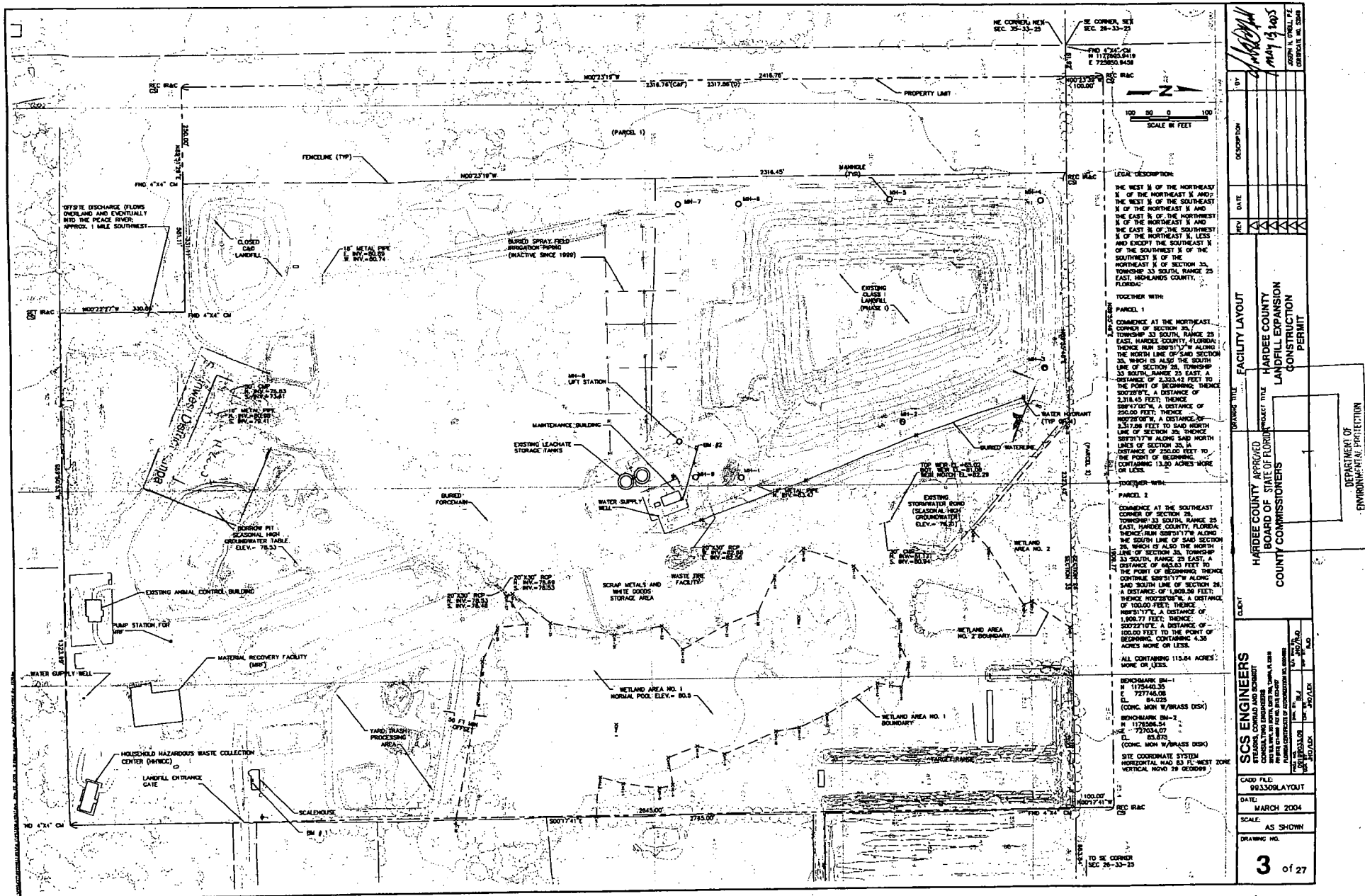
STEVEN C. SCHWAB AND SCHWAB
CONSULTING ENGINEERS
2015 S.W. 10TH, SUITE 100
TAMPA, FLORIDA 33606
PH (813) 833-0300, FAX (813) 833-0757
WWW.SCSENGINEERS.COM
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 0000482

DRAWING INDEX

DRAWING NO.	DRAWING TITLE
1	COVER SHEET
2	ONE MILE RADIUS AERIAL MAP
3	FACILITY LAYOUT
4	EXISTING TOPO - NORTH
5	EXISTING TOPO - SOUTH
6	PHASE I - EXIST. LEACHATE COLLECTION SYSTEM IMPROVEMENTS
7	PHASE II - GROUNDWATER CONTROL SYSTEM PLAN
8	PHASE II - STORMWATER MANAGEMENT IMPROVEMENTS
9	PHASE II - SECTION I TOP OF GEOMEMBRANE PLAN
10	PHASE II - SECTION I SITE PLAN
11	PHASE I - SIDESLOPE LINING AND GAS CONTROL SYSTEM PLAN
12	PHASE II - SECTION II TOP OF GEOMEMBRANE PLAN
13	PHASE II - SECTION II SITE PLAN
14	PHASE I & II - FINAL BUILDOUT (INTERMEDIATE COVER)
15	EROSION AND SEDIMENTATION CONTROL RECOMMENDATIONS
16	SECTIONS - 1
17	SECTIONS - 2
18	SECTIONS & DETAILS
19	DETAILS - 1
20	DETAILS - 2
21	DETAILS - 3
22	DETAILS - 4
23	DETAILS - 5
24	DETAILS - 6
25	DETAILS - 7
26	DETAILS - 8
27	DETAILS - 9

[Signature]
MAY 13, 2005
052045





LEGEND

- 04.5 ELEV. OF GEODOMICRENE
- M-1 MONITORING WELL
- Piezometer
- GAS PROBE
- PS BORING MARK 1987
- PS BORING MARK 1989
- DINODIPS BORING 1983
- PS BORING DPT. 2003
- X W-1 WETLAND AREA NO. 1 DELINE POINT (SEE SHEET 5 FOR COORDINATES)
- X W-2 WETLAND AREA NO. 2 DELINE POINT (SEE SHEET 6 FOR COORDINATES)
- BURIED PIPE
- OVERRIDE ELECTRIC SET RAIL IN TREE TO ESTIMATE NORMAL POOL ELEVATION
- CUTLINE

LEGEND

SPOT HEIGHT
OBSERVED SPOT HEIGHT
CONTROL POINT

WATER SURFACE ELEV.
TEMP
EDGE OF PAVEMENT
BUMPER
RAILROAD SIGNAL
RAILROAD SWITCH
RAILROAD CROSSING GATE

STREET LIGHT
TRAFFIC LIGHT
TOWER
UTILITY POLES
VALVE
FIRE INSURANT
ELECTRICAL BOX
CATCH BASIN
DROP INLET
MANHOLE
MAILBOX
MISC. POST

SHOW
DOUBLE LEGGED SHO
TELEPHONE BOOTH
ANTENNA
SATELLITE DISH
BIRD BATH
FLAG POLE
SHRUB
SINGLE TREE
PALM TREE
EVERGREEN TREE

I, THE UNDERSIGNED REGISTERED SURVEYOR AND MAPPER CERTIFY THAT THIS MAP WAS COMPILED USING PROFESSIONAL METHODS KNOWN BY SURVEYORS AND THAT THE DATA SHOWN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. THIS SURVEY MEETS THE MINIMUM TECHNICAL STANDARDS, FLORIDA CHAPTER 65C17-FLORIDA ADMINISTRATIVE CODE.

DATE OF PHOTOGRAPHY: JUNE 7, 1968, H. FOR PHOTOGRAPHY

THIS MAP IS NEITHER FULL NOR COMPLETE WITHOUT THE "MAP REPORT" AND "LOCAL BELIEFS KNOWN BY SURVEYORS" IN SAID REPORT. UNLESS THE MAP OR REPORT BEARS THE SIGNATURE AND ORIGINAL BLIND SEAL OF THE ABOVE FLORIDA LICENSED SURVEYOR AND MAPPER, IT IS FOR OFFICIAL PURPOSES ONLY AND IS NOT VALID.

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CAOD FILE
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PROJECT TITLE	EXISTING TOPO	NORTH
PROJECT DEPARTMENT	HOFF COUNTY	
ENVIRONMENTAL	LAND USE	
CONSTRUCTION	CONSTRUCTION	
PERMIT	PERMIT	

HARDEE COUNTY
BOARD OF
COUNTY COMMISSIONERS

SCS ENGINEERS
STEARNS, CONRAD AND SCHMITT
CONSULTING ENGINEERS
3913 U.S. HWY. 301, BOX 1007, SUITE 300, TAMPA, FL 33619
PH (813) 971-0888 FAX (813) 971-0247
FLORIDA CERTIFICATE OF AUTHORIZATION NO. 6600-089

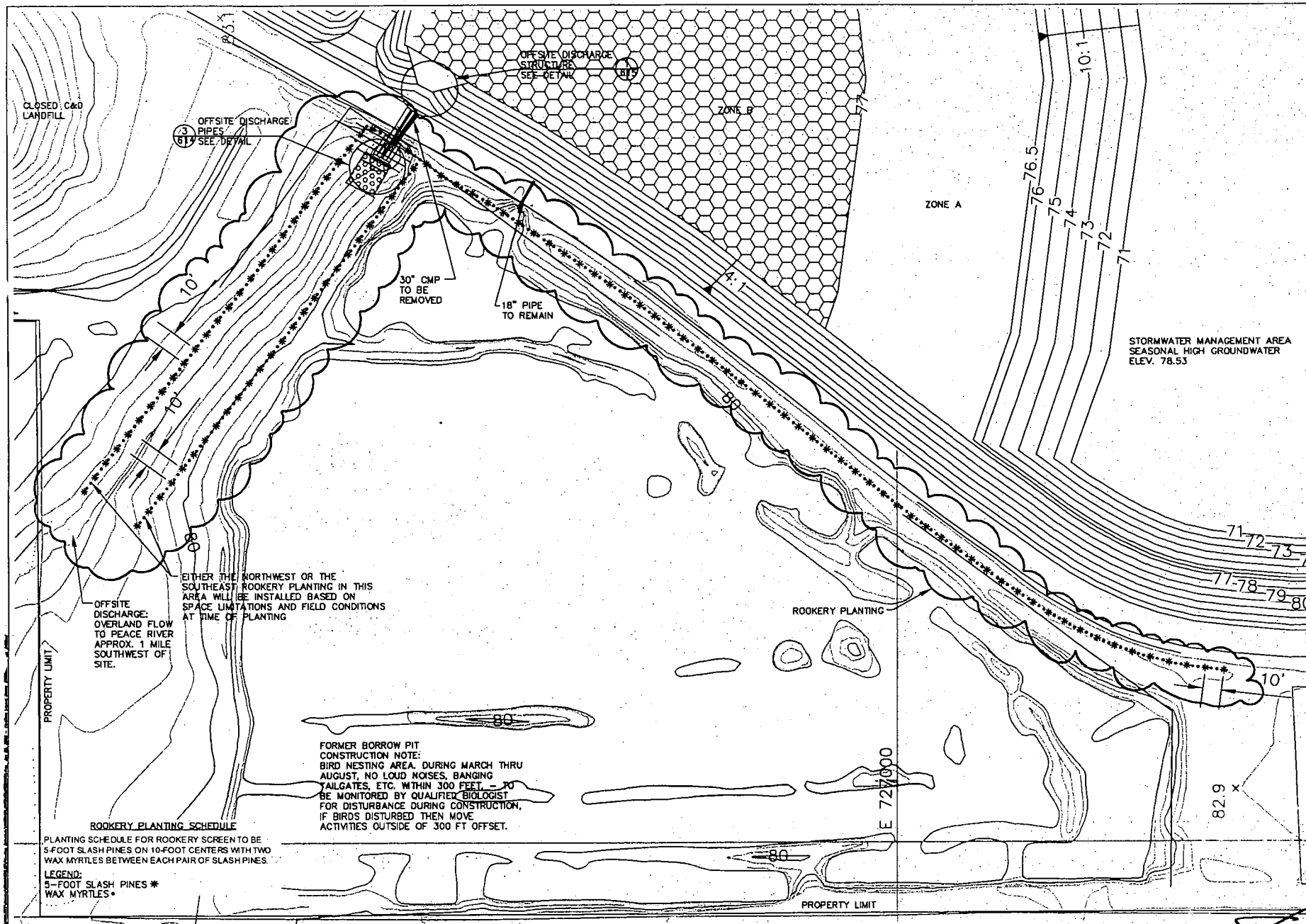
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993309LAYOUT

DATE:
APRIL 2004

SCALE:
AS SHOWN

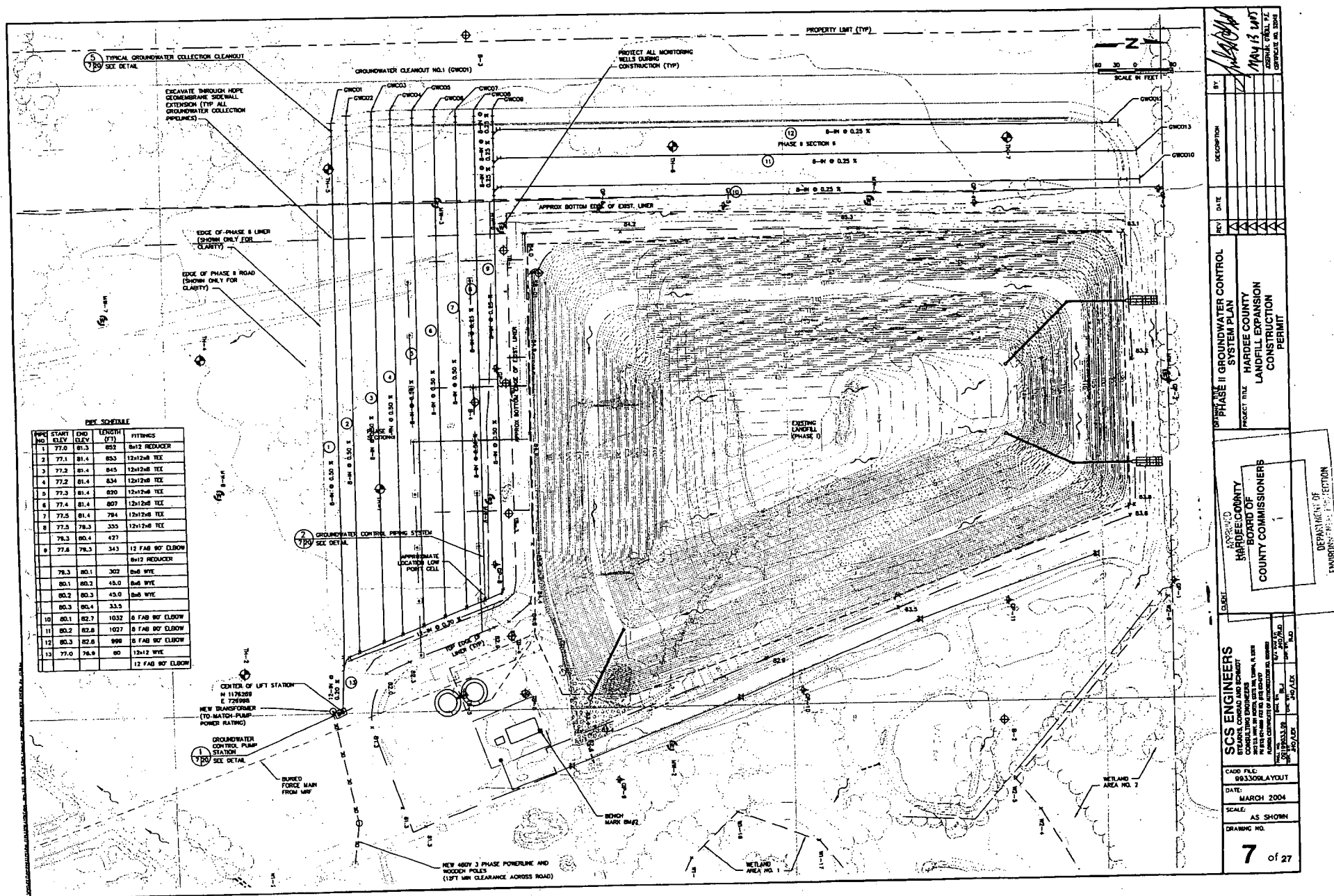
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4 of 2

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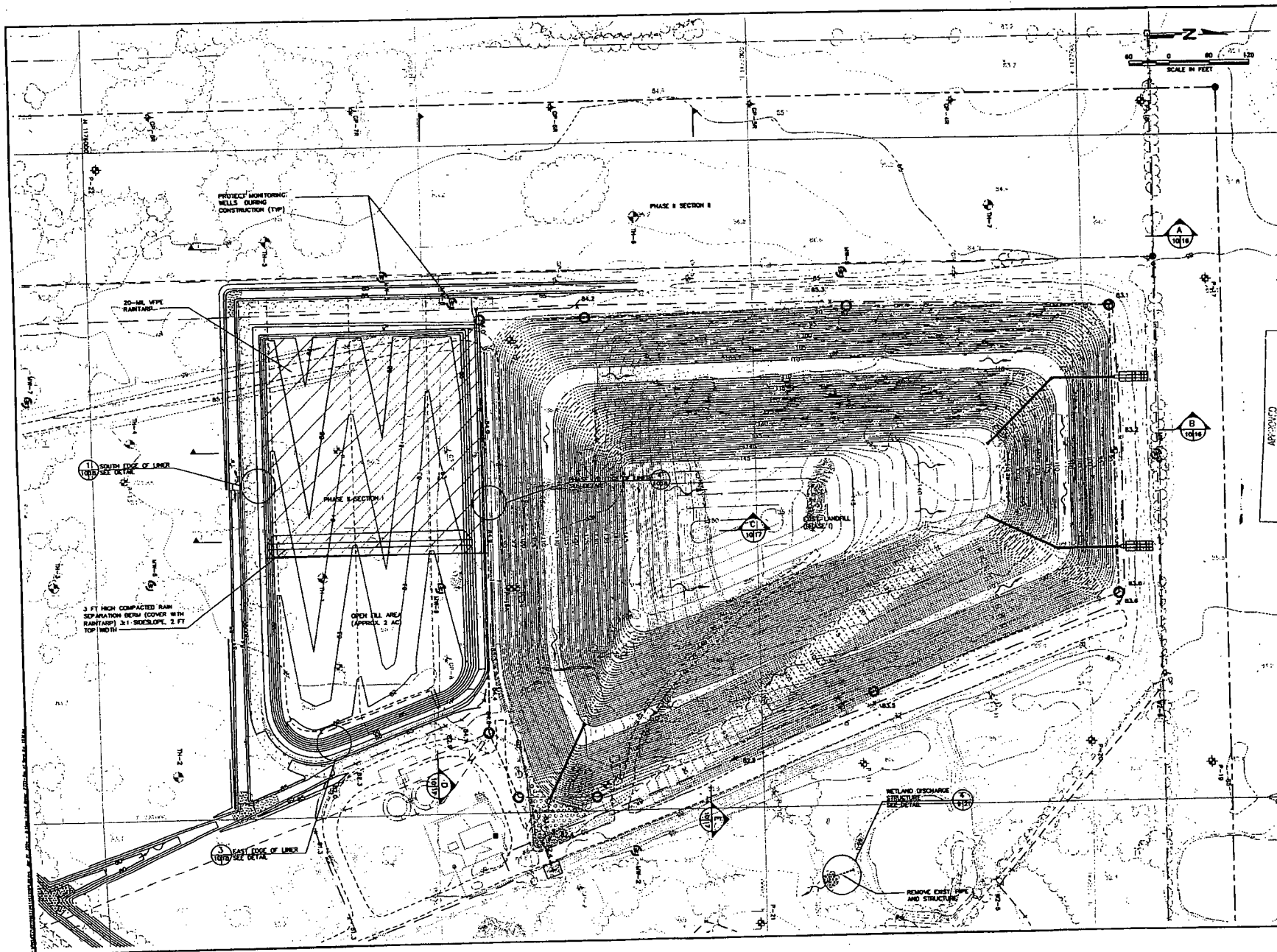
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BY	DATE	DESCRIPTION	REV
PROJECT TITLE		HARDEE COUNTY LANDFILL EXPANSION CONSTRUCT	
CLIENT		HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS	
SCS ENGINEERS		STEVEN S. STEARNS, P.E. AND SCHMIDT	
9925 N. GULF BLVD. SUITE 100		FORT WORTH, TEXAS 76116	
PHONE: 817.335.1111		FAX: 817.335.1112	
WWW.SCS-ENGINEERS.COM			
CADD FILE: 99251.GPJ PLANT			
DATE: JUNE 2006			
SCALE: NOT TO SCALE			
DRAWING NO.		6A	

Jim P. Smith
 58026
 6/29/06

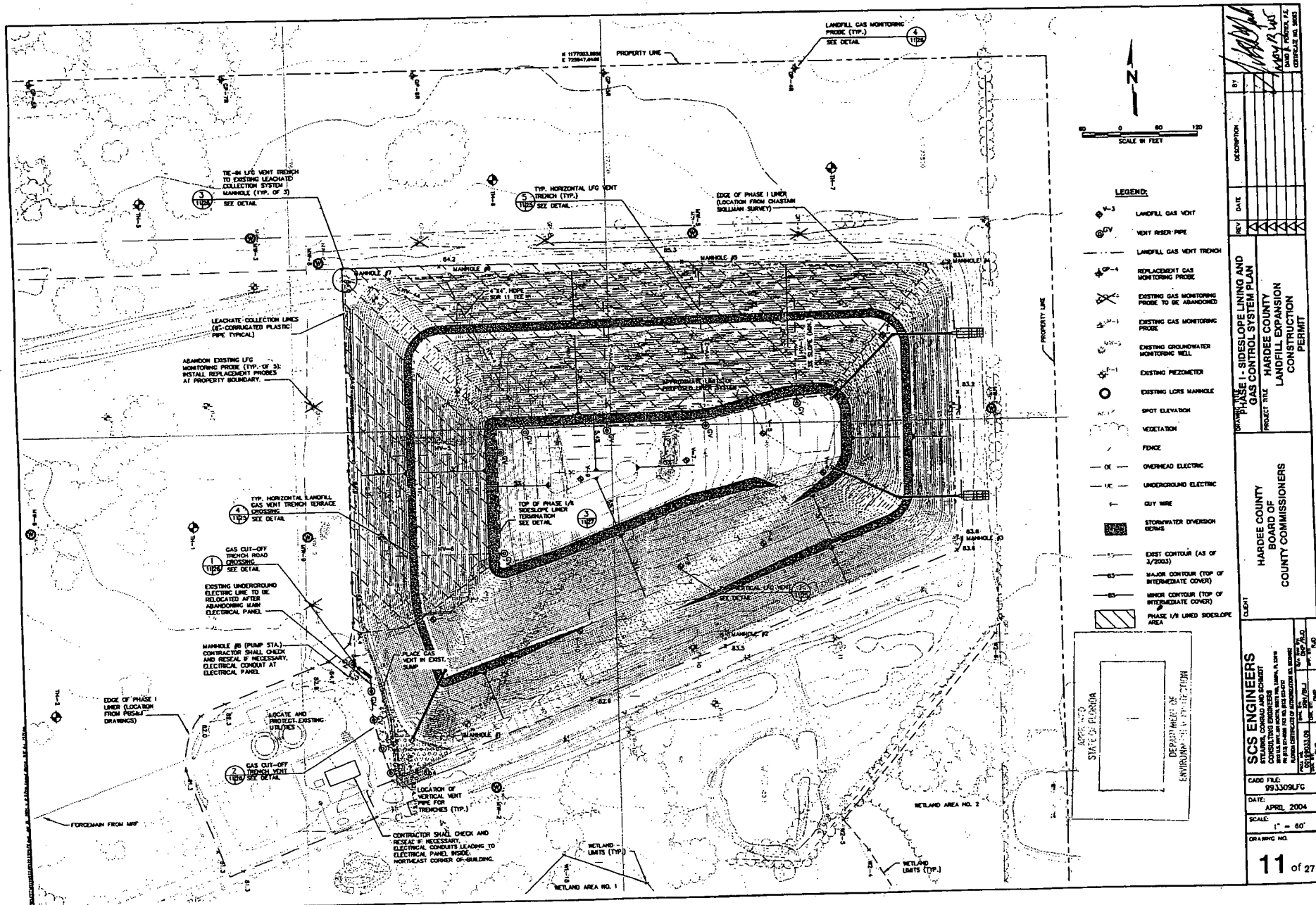


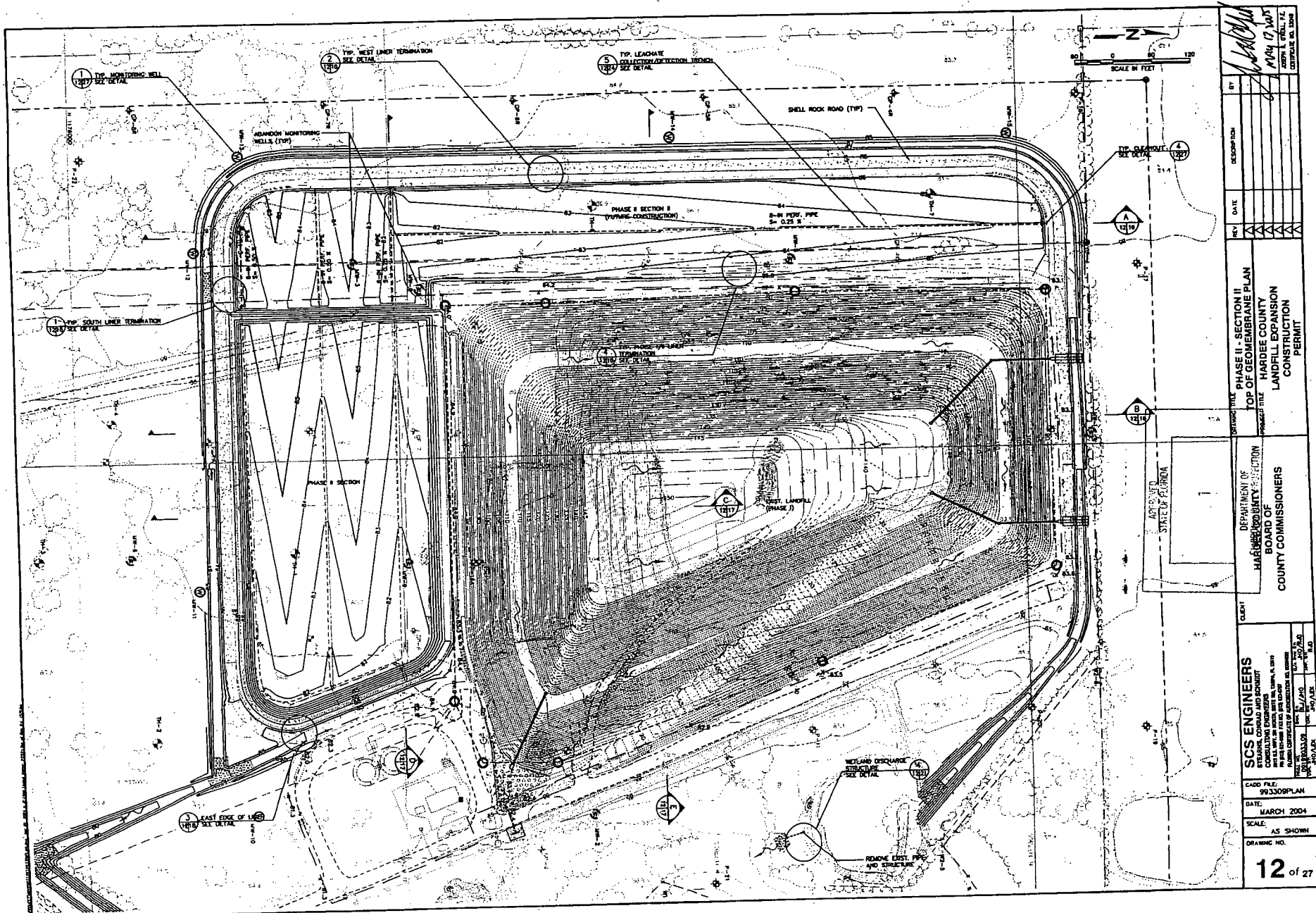


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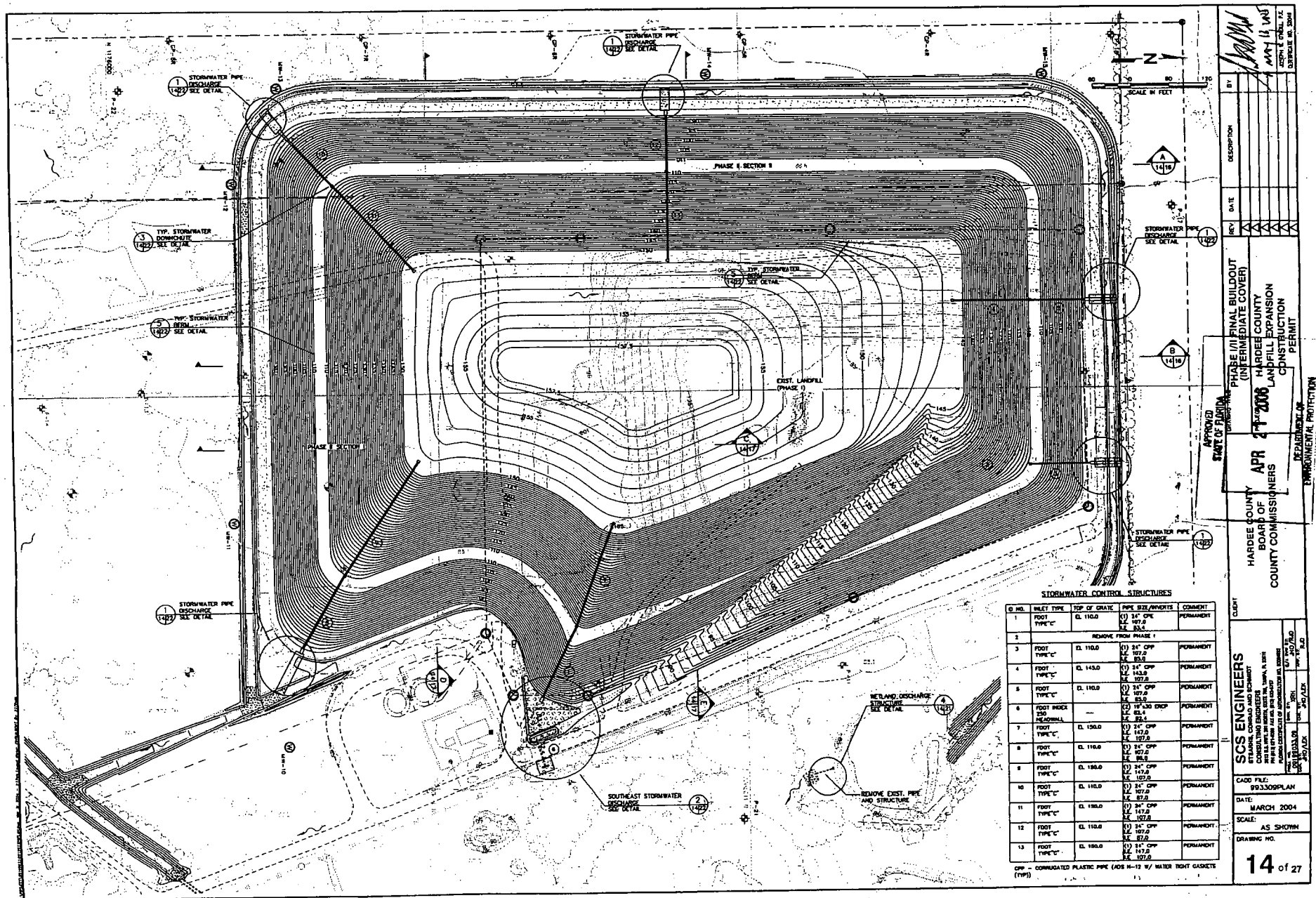


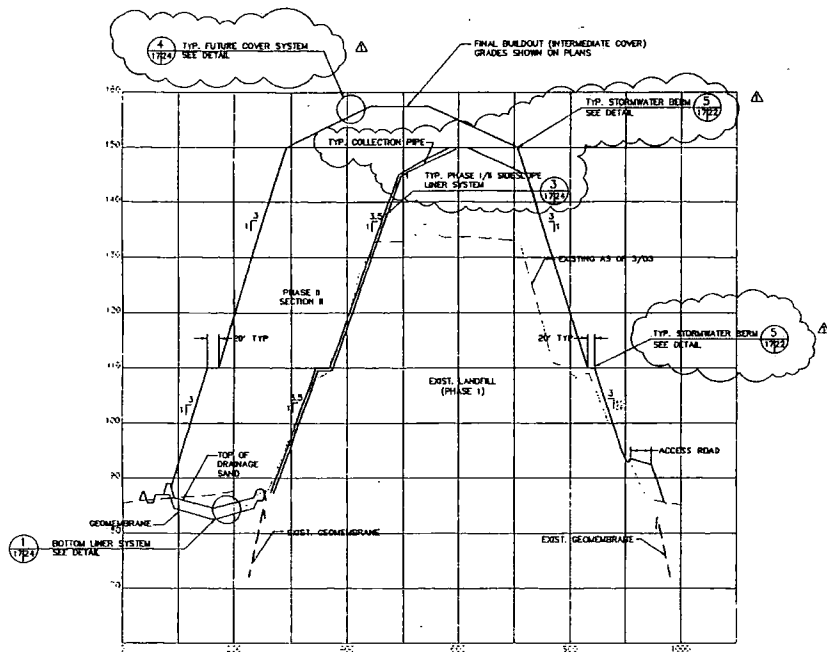
SCS ENGINEERS CONSULTING ENGINEERS 1015 S. W. 10th Ave., Suite 100 Ft. Lauderdale, FL 33304 PHONE: (954) 571-1111 FAX: (954) 571-1112 WWW: www.scs-engineers.com		CLIENT HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		PROJECT HARDEE COUNTY LANDFILL EXPANSION PERMIT		DATE MARCH 2004		BY [Signature]	
CADD FILE: 993308PLAN		SCALE: AS SHOWN		DATE: MARCH 2004		REVISIONS: 1. [Description] 2. [Description]		APPROVED: [Signature]	
DRAWING NO. 10 of 27		STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION		PROJECT FILE HARDEE COUNTY LANDFILL EXPANSION PERMIT		DATE MARCH 2004		BY [Signature]	



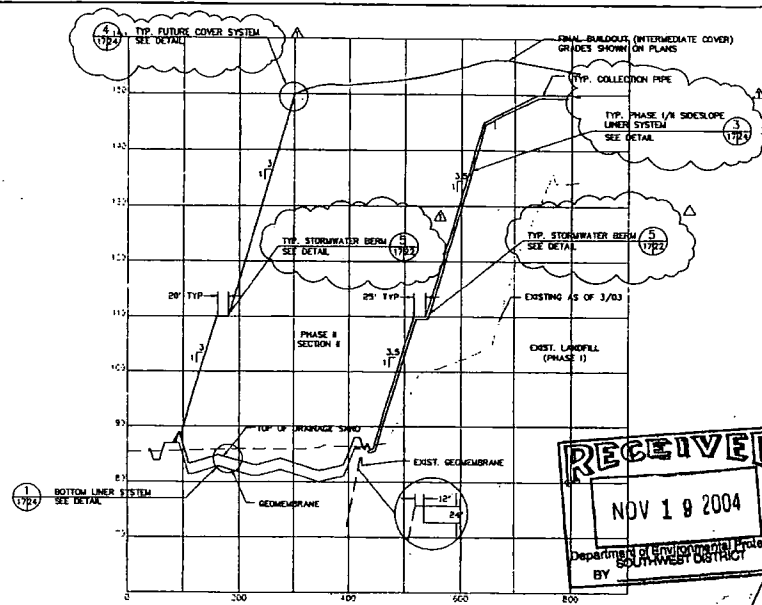


SCS ENGINEERS CONSULTING ENGINEERS 10000 W. 10th Ave., Suite 100 Fort Lauderdale, FL 33309 PHONE: (954) 333-3300 FAX: (954) 333-3301		CLIENT HARBOR COUNTY BOARD OF COUNTY COMMISSIONERS HARBOR COUNTY BOARD OF COUNTY COMMISSIONERS HARBOR COUNTY BOARD OF COUNTY COMMISSIONERS	PROJECT TITLE HARBOR COUNTY LANDFILL EXPANSION CONSTRUCTION PERMIT	DATE MARCH 2004	DESCRIPTION PHASE II, SECTION II TOP OF GEOMEMBRANE PLAN	BY [Signature] DATE MARCH 13, 2004
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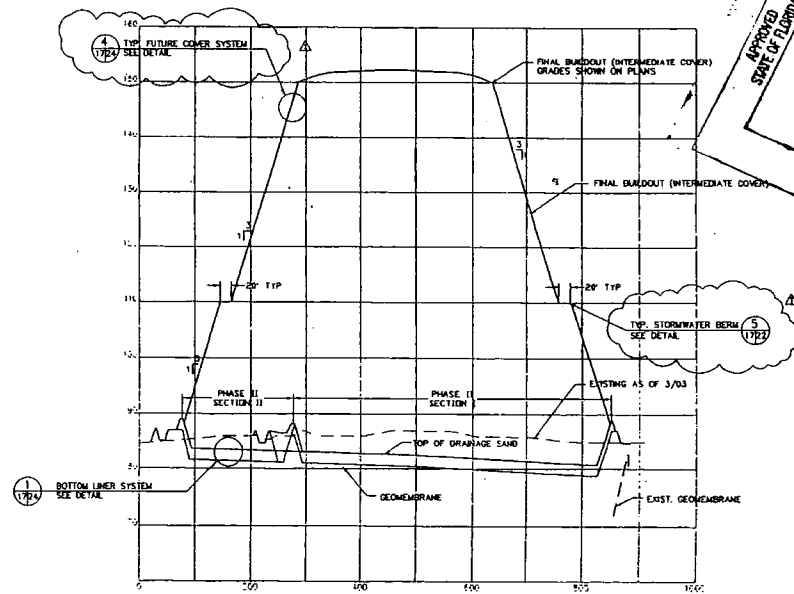




SECTION C-C
SCALE: H = 1" = 100'
V = 1" = 10'
9, 10, 12, 13, 14



SECTION A-A
SCALE: H = 1" = 100'
V = 1" = 10'
9, 10, 12, 13, 14



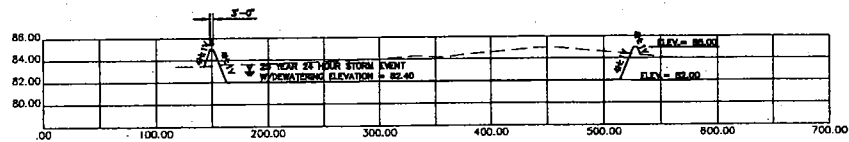
SECTION B-B
SCALE: H = 1" = 100'
V = 1" = 10'
9, 10, 12, 13, 14

RECEIVED
NOV 19 2004
Department of Environmental Protection
BY: [Signature]

SECTIONS - 2
HARDEE COUNTY
LANDFILL EXPANSION
CONSTRUCTION
PERMIT

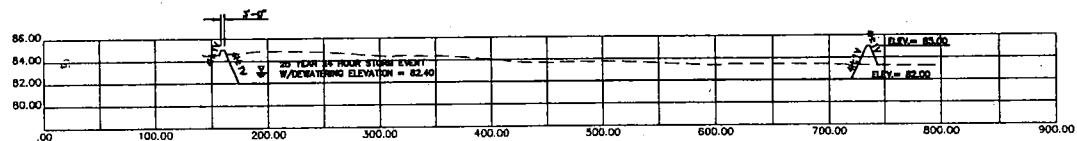
APPROVED
STATE OF FLORIDA
APR 21 2006
HARDEE COUNTY
ENGINEER
COUNTY ENGINEER
PROFESSIONAL SEAL

CLIENT
SCS ENGINEERS
CONSULTING ENGINEERS
993300XSEC
DATE: MARCH 2004
SCALE: AS SHOWN
DRAWING NO



TEMPORARY CONSTRUCTION DEWATERING POND WEST (A)
 SCALE: HORIZ = 1" = 80'
 VERT = 1" = 4'

- NOTE:**
1. ALL SLOPES ARE TO BE SODDED.
 2. CONTRACTOR SHALL HAVE EROSION AND SEDIMENTATION CONTROLS IN PLACE DURING ALL CONSTRUCTION AND DEWATERING ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.

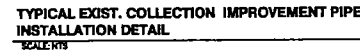


TEMPORARY CONSTRUCTION DEWATERING POND CENTRAL (B)
 SCALE: HORIZ = 1" = 80'
 VERT = 1" = 4'

- NOTE:**
1. ALL SLOPES ARE TO BE SODDED.
 2. CONTRACTOR SHALL HAVE EROSION AND SEDIMENTATION CONTROLS IN PLACE DURING ALL CONSTRUCTION AND DEWATERING ACTIVITIES TO THE SATISFACTION OF THE ENGINEER.

APPROVED
 STATE OF FLORIDA
 APR 21 2006
 DEPARTMENT OF
 ENVIRONMENTAL PROTECTION

SCS ENGINEERS STEPHEN L. COMAND AND ASSOCIATES CONSULTING ENGINEERS 1001 N. W. 10th Ave., Suite 100 Fort Lauderdale, FL 33304 PHONE: (954) 571-1111 FAX: (954) 571-1112 E-MAIL: info@scs-engineers.com		DATE: APRIL 2004 SCALE: AS SHOWN DRAWING NO. 18A of 27																		
CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS		DRAWING TITLE: SECTIONS AND DETAILS PROJECT TITLE: HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION PERMIT																		
REVISIONS: <table border="1"> <tr> <th>REV</th> <th>DATE</th> <th>DESCRIPTION</th> </tr> <tr> <td>1</td> <td>04/17/04</td> <td>REVISION FOR TOP SOIL NO. 1</td> </tr> <tr> <td>2</td> <td>04/17/04</td> <td>REVISION FOR TOP SOIL NO. 2</td> </tr> <tr> <td>3</td> <td>04/17/04</td> <td>REVISION FOR TOP SOIL NO. 3</td> </tr> <tr> <td>4</td> <td>04/17/04</td> <td>REVISION FOR TOP SOIL NO. 4</td> </tr> <tr> <td>5</td> <td>04/17/04</td> <td>REVISION FOR TOP SOIL NO. 5</td> </tr> </table>		REV	DATE	DESCRIPTION	1	04/17/04	REVISION FOR TOP SOIL NO. 1	2	04/17/04	REVISION FOR TOP SOIL NO. 2	3	04/17/04	REVISION FOR TOP SOIL NO. 3	4	04/17/04	REVISION FOR TOP SOIL NO. 4	5	04/17/04	REVISION FOR TOP SOIL NO. 5	DRAWING NO. 18A
REV	DATE	DESCRIPTION																		
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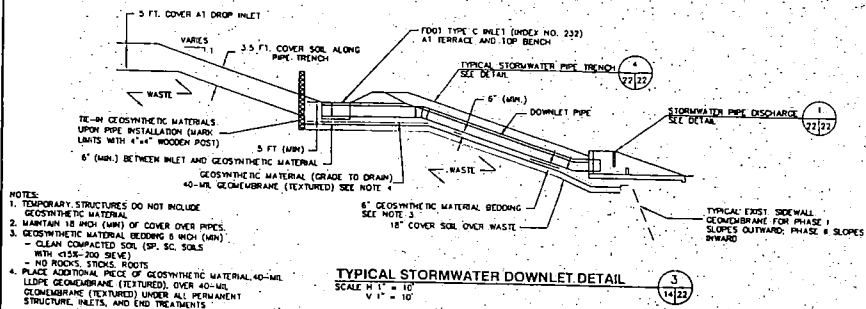
SCS ENGINEERS 9933306DET01.B CAD FILE: DATE: SCALE: DRAWING NO.		CLIENT: HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS 1000 N. GULF BLVD. SUITE 100 TAMPA, FL 33602 PHONE: 813.241.1234 FAX: 813.241.1235 WWW.SCS-FLA.COM		PROJECT TITLE: HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION PERMIT		REV. DATE DESCRIPTION BY 1 11/27/04 RESPONSE TO RFP COMMENTS JAS 2 11/27/04 JAS 3 01/26/05 JAS 4 01/26/05 JAS 5 01/26/05 JAS 6 01/26/05 JAS 7 01/26/05 JAS 8 01/26/05 JAS 9 01/26/05 JAS 10 01/26/05 JAS 11 01/26/05 JAS 12 01/26/05 JAS 13 01/26/05 JAS 14 01/26/05 JAS 15 01/26/05 JAS 16 01/26/05 JAS 17 01/26/05 JAS 18 01/26/05 JAS 19 01/26/05 JAS 20 01/26/05 JAS 21 01/26/05 JAS 22 01/26/05 JAS 23 01/26/05 JAS 24 01/26/05 JAS 25 01/26/05 JAS 26 01/26/05 JAS 27 01/26/05 JAS 28 01/26/05 JAS 29 01/26/05 JAS 30 01/26/05 JAS 31 01/26/05 JAS 32 01/26/05 JAS 33 01/26/05 JAS 34 01/26/05 JAS 35 01/26/05 JAS 36 01/26/05 JAS 37 01/26/05 JAS 38 01/26/05 JAS 39 01/26/05 JAS 40 01/26/05 JAS 41 01/26/05 JAS 42 01/26/05 JAS 43 01/26/05 JAS 44 01/26/05 JAS 45 01/26/05 JAS 46 01/26/05 JAS 47 01/26/05 JAS 48 01/26/05 JAS 49 01/26/05 JAS 50 01/26/05 JAS 51 01/26/05 JAS 52 01/26/05 JAS 53 01/26/05 JAS 54 01/26/05 JAS 55 01/26/05 JAS 56 01/26/05 JAS 57 01/26/05 JAS 58 01/26/05 JAS 59 01/26/05 JAS 60 01/26/05 JAS 61 01/26/05 JAS 62 01/26/05 JAS 63 01/26/05 JAS 64 01/26/05 JAS 65 01/26/05 JAS 66 01/26/05 JAS 67 01/26/05 JAS 68 01/26/05 JAS 69 01/26/05 JAS 70 01/26/05 JAS 71 01/26/05 JAS 72 01/26/05 JAS 73 01/26/05 JAS 74 01/26/05 JAS 75 01/26/05 JAS 76 01/26/05 JAS 77 01/26/05 JAS 78 01/26/05 JAS 79 01/26/05 JAS 80 01/26/05 JAS 81 01/26/05 JAS 82 01/26/05 JAS 83 01/26/05 JAS 84 01/26/05 JAS 85 01/26/05 JAS 86 01/26/05 JAS 87 01/26/05 JAS 88 01/26/05 JAS 89 01/26/05 JAS 90 01/26/05 JAS 91 01/26/05 JAS 92 01/26/05 JAS 93 01/26/05 JAS 94 01/26/05 JAS 95 01/26/05 JAS 96 01/26/05 JAS 97 01/26/05 JAS 98 01/26/05 JAS 99 01/26/05 JAS 100 01/26/05 JAS 101 01/26/05 JAS 102 01/26/05 JAS 103 01/26/05 JAS 104 01/26/05 JAS 105 01/26/05 JAS 106 01/26/05 JAS 107 01/26/05 JAS 108 01/26/05 JAS 109 01/26/05 JAS 110 01/26/05 JAS 111 01/26/05 JAS 112 01/26/05 JAS 113 01/26/05 JAS 114 01/26/05 JAS 115 01/26/05 JAS 116 01/26/05 JAS 117 01/26/05 JAS 118 01/26/05 JAS 119 01/26/05 JAS 120 01/26/05 JAS 121 01/26/05 JAS 122 01/26/05 JAS 123 01/26/05 JAS 124 01/26/05 JAS 125 01/26/05 JAS 126 01/26/05 JAS 127 01/26/05 JAS 128 01/26/05 JAS 129 01/26/05 JAS 130 01/26/05 JAS 131 01/26/05 JAS 132 01/26/05 JAS 133 01/26/05 JAS 134 01/26/05 JAS 135 01/26/05 JAS 136 01/26/05 JAS 137 01/26/05 JAS 138 01/26/05 JAS 139 01/26/05 JAS 140 01/26/05 JAS 141 01/26/05 JAS 142 01/26/05 JAS 143 01/26/05 JAS 144 01/26/05 JAS 145 01/26/05 JAS 146 01/26/05 JAS 147 01/26/05 JAS 148 01/26/05 JAS 149 01/26/05 JAS 150 01/26/05 JAS 151 01/26/05 JAS 152 01/26/05 JAS 153 01/26/05 JAS 154 01/26/05 JAS 155 01/26/05 JAS 156 01/26/05 JAS 157 01/26/05 JAS 158 01/26/05 JAS 159 01/26/05 JAS 160 01/26/05 JAS 161 01/26/05 JAS 162 01/26/05 JAS 163 01/26/05 JAS 164 01/26/05 JAS 165 01/26/05 JAS 166 01/26/05 JAS 167 01/26/05 JAS 168 01/26/05 JAS 169 01/26/05 JAS 170 01/26/05 JAS 171 01/26/05 JAS 172 01/26/05 JAS 173 01/26/05 JAS 174 01/26/05 JAS 175 01/26/05 JAS 176 01/26/05 JAS 177 01/26/05 JAS 178 01/26/05 JAS 179 01/26/05 JAS 180 01/26/05 JAS 181 01/26/05 JAS 182 01/26/05 JAS 183 01/26/05 JAS 184 01/26/05 JAS 185 01/26/05 JAS 186 01/26/05 JAS 187 01/26/05 JAS 188 01/26/05 JAS 189 01/26/05 JAS 190 01/26/05 JAS 191 01/26/05 JAS 192 01/26/05 JAS 193 01/26/05 JAS 194 01/26/05 JAS 195 01/26/05 JAS 196 01/26/05 JAS 197 01/26/05 JAS 198 01/26/05 JAS 199 01/26/05 JAS 200 01/26/05 JAS 201 01/26/05 JAS 202 01/26/05 JAS 203 01/26/05 JAS 204 01/26/05 JAS 205 01/26/05 JAS 206 01/26/05 JAS 207 01/26/05 JAS 208 01/26/05 JAS 	
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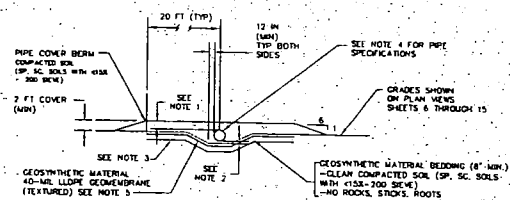


NOTE: LIFT STATION, CONTROL PANEL, PUMPS, MOTOR,
PIPING, VALVES & FITTINGS CALL POWER & PUMPS, INC.
(813) 821-8071

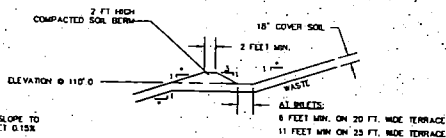
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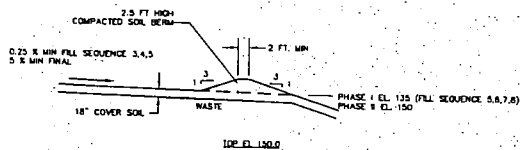
- NOTES:
1. TEMPORARY STRUCTURES DO NOT INCLUDE GEOSYNTHETIC MATERIAL.
 2. MAINTAIN 18 INCH (MIN.) OF COVER OVER PIPES.
 3. GEOSYNTHETIC MATERIAL BEDDING 8 INCH (MIN.) - CLEAN COMPACTED SOIL (SP, SC, SOLS WITH #158-200 SIEVE).
 4. PLACE ADDITIONAL PIECE OF GEOSYNTHETIC MATERIAL 40-MIL LLOPE GEOMEMBRANE (TEXTURED) UNDER ALL PERMANENT STRUCTURE, INLETS, AND END TREATMENTS.



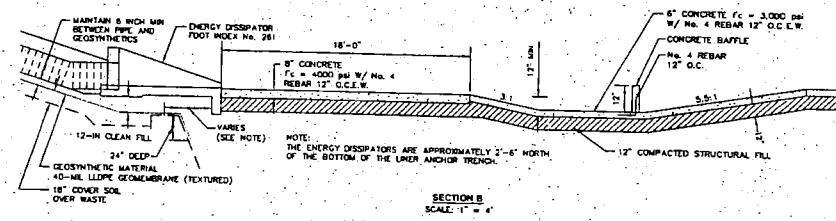
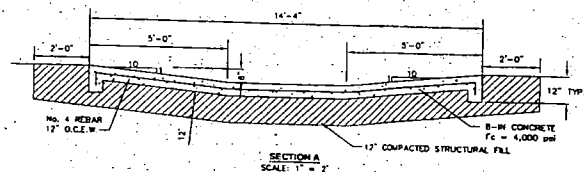
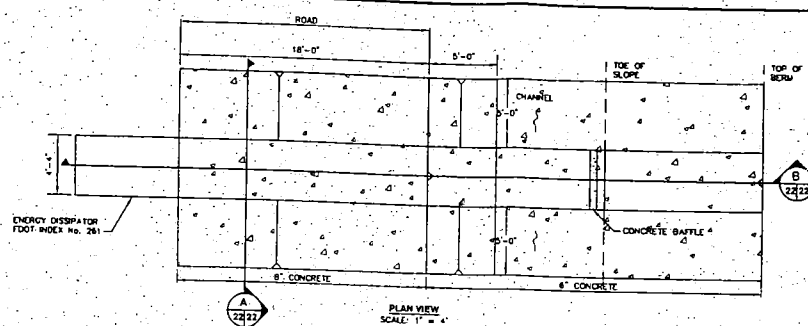
- NOTE:
1. MAINTAIN 18 INCH (MIN.) OF COVER OVER PIPES WITH #158-200 SIEVE COVER OVER PIPES.
 2. MAINTAIN 8 INCH OF COVER OVER PIPES WITH #158-200 SIEVE BETWEEN PIPE AND GEOSYNTHETIC MATERIALS.
 3. MAINTAIN 18 INCH COVER SOIL OVER WASTE.
 4. ALL STORMWATER PIPES - CORRUGATED PLASTIC PIPE AND FITTINGS. INSTALL PIPE PER ASTM D 2221.
 5. PLACE ADDITIONAL PIECE OF GEOSYNTHETIC MATERIAL 40-MIL LLOPE GEOMEMBRANE (TEXTURED) UNDER ALL PERMANENT STRUCTURE, INLETS, AND END TREATMENTS.



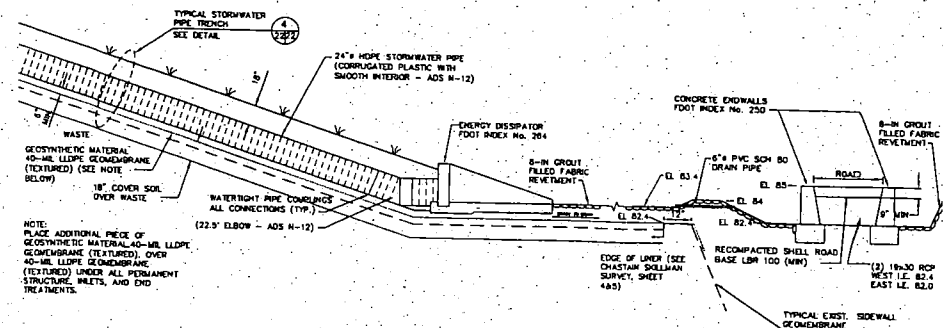
- NOTE: MINIMUM SLOPE TO DROP INLET 0.15%
1. NORTH EAST, & SOUTH SLOPES
 2. WEST SLOPES (PHASE 1 ONLY)



TYPICAL STORMWATER BERM DETAILS
SCALE: 1/4" = 1'



STORMWATER PIPE DISCHARGE DETAIL
NO SCALE



SOUTHWEST STORMWATER DISCHARGE DETAIL
NO SCALE

DATE	2/2/22	BY	10/10/20
REV	1	DESCRIPTION	10/10/20
DETAILS - 4			
PROJECT TITLE			
HARDEE COUNTY LANDFILL EXPANSION CONSTRUCTION PERMIT			
CLIENT			
HARDEE COUNTY BOARD OF COUNTY COMMISSIONERS			
SCS ENGINEERS			
CADD FILE: 993309DET.L3			
DATE: MARCH 2004			
SCALE: AS SHOWN			
DRAWING NO.			
22 of 27			

Pelz, Susan

From: Pelz, Susan
Sent: Sunday, July 02, 2006 2:06 PM
To: Ed Hilton (E-mail); Dominique Bramlett (E-mail)
Cc: Teresa Carver (E-mail); Morgan, Steve
Subject: Hardee Co LF friction angle mod

Ed/Dominique,

I have called the modification request complete, but as I was preparing to draft the modification, I found that a couple of items need to be submitted to make the request sufficient. Since I am past the initial 30 day review period, the County is not obligated to provide this information, but I will not be able to issue the modification without it.

Please provide the following:

1. Please send me two copies of the cover letter dated May 9, 2006 that was submitted with the mod request that are sealed. The copies of the cover letter that I received are not sealed.
2. Please provide slope stability analyses for circular failures (only block failures were provided).
3. Please include analyses on north-south slopes (only east-west slopes were provided).
4. Please include analyses for the final buildout configuration.
5. Please provide a justification for changing the internal friction angle of waste from 27 degrees (used in the original design) to 33 degrees. Alternatively, please provide revised slope stability analyses that use 27 degrees for the internal friction angle of waste.

Please provide this information as soon as possible so that I can issue the modification. I know that the County is anxious to begin construction and I will expedite the issuance of the modification after I receive this information.

thanks,

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

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

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

NOV 19 2004

SOUTHWEST DISTRICT
TAMPA

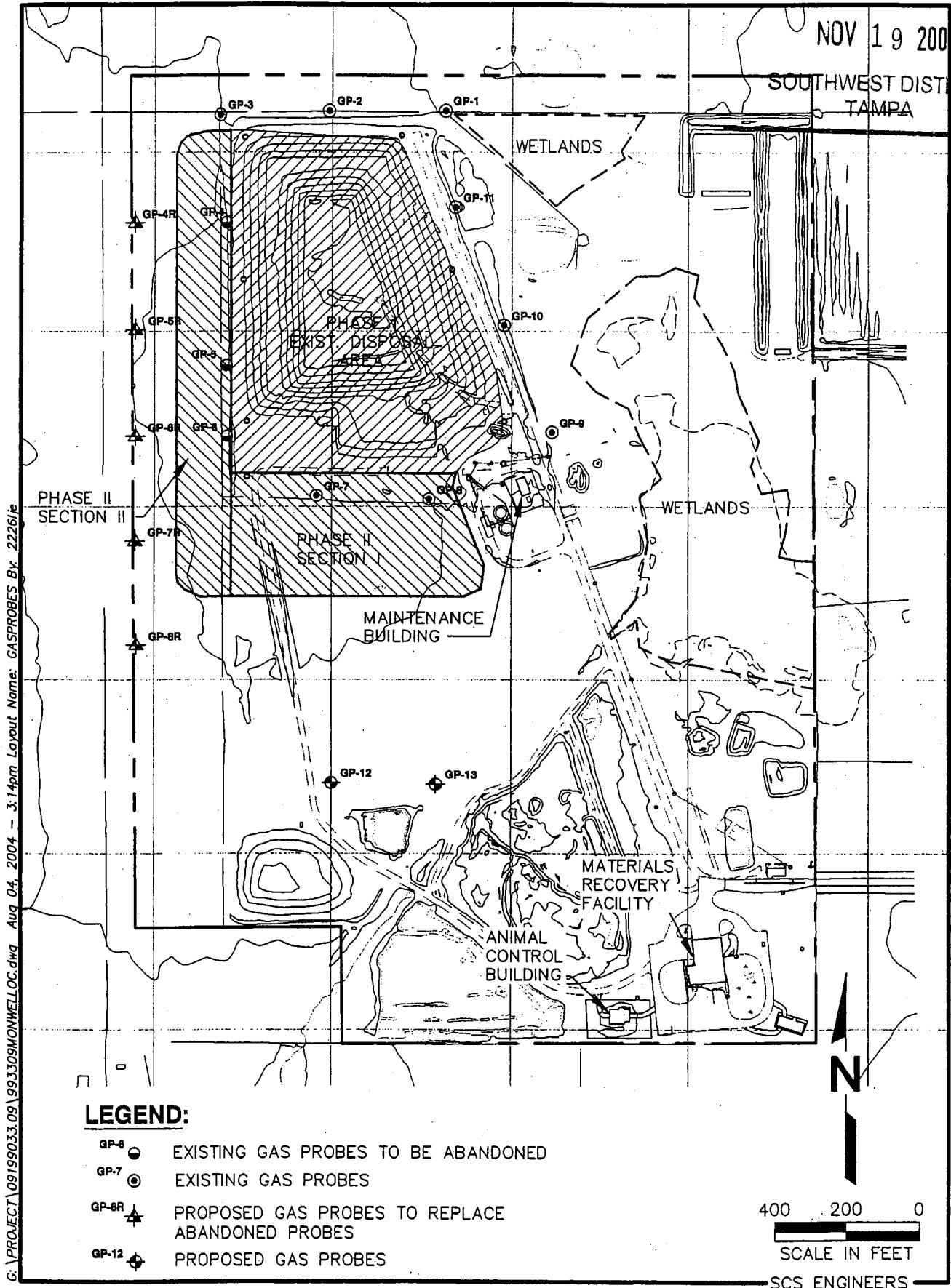


Figure O-1. Gas Probe Locations, Hardee County Landfill Expansion, Hardee County, Florida

G:\PROJECT\09199033\091993309MONWELLOC.dwg Nov 15, 2004 -- 2:26pm Layout Name: LockMap Bx Administrator

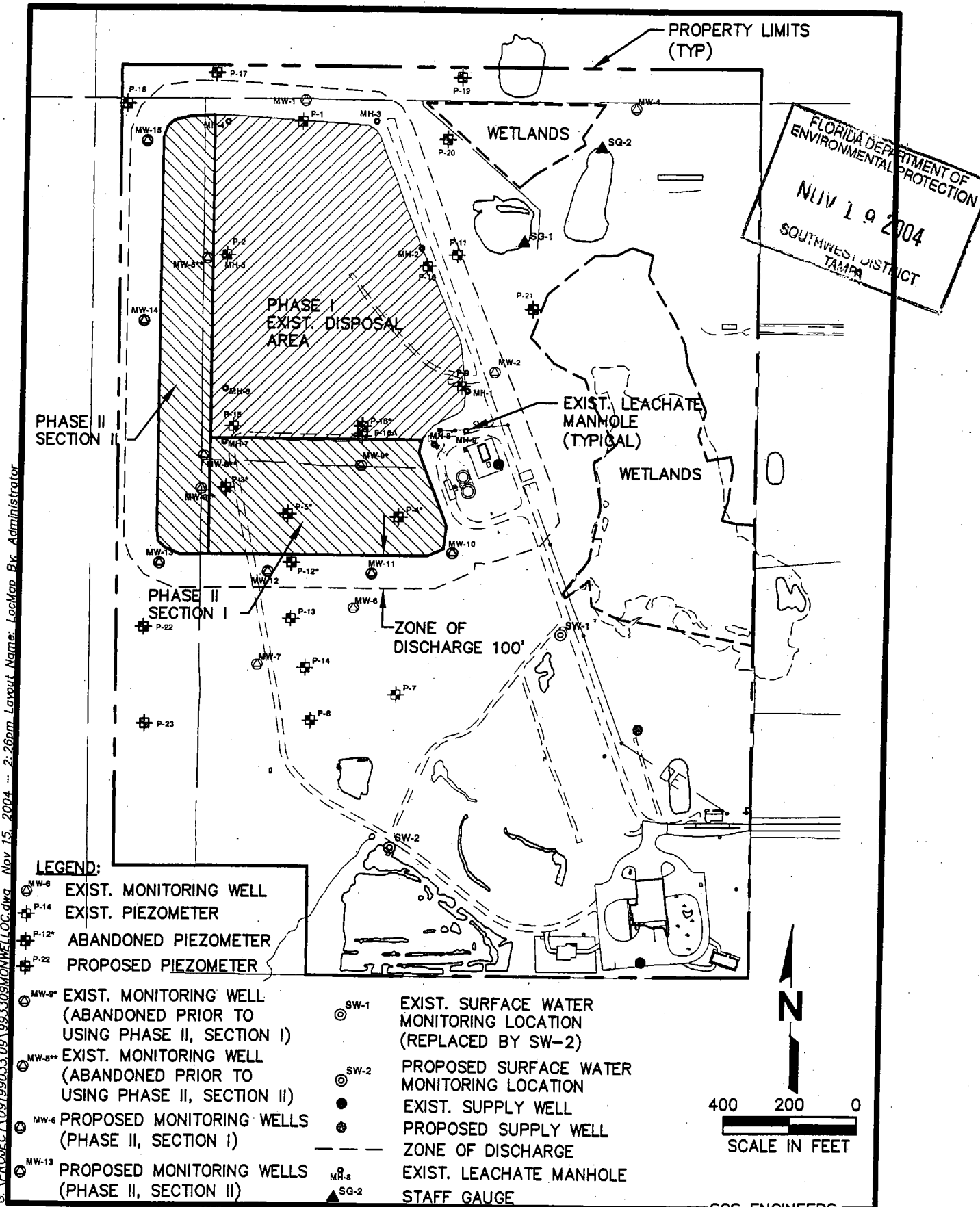


Figure M-1. Hardee County Solid Waste, Groundwater, Surface Water, and Leachate Monitoring Location Points, Hardee County, Florida.

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

DEP Form # 62-522.900(3)

Form Title **MONITOR WELL COMPLETION REPORT**

Effective Date _____

DEP Application No. _____

(Filled in by DEP)

MONITOR WELL COMPLETION REPORT

DATE: _____

INSTALLATION NAME: _____

DEP PERMIT NUMBER: _____ GMS NUMBER: _____

WELL NUMBER: _____ WELL NAME: _____

DESIGNATION: Background _____ Immediate _____ Compliance _____

LATITUDE/LONGITUDE: _____

AQUIFER MONITORED: _____

INSTALLATION METHOD: _____

INSTALLED BY: _____

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

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

CASING DIAMETER: _____ CASING TYPE: _____

LENGTH OF CASING: _____ FILTER PACK MATERIAL: _____

TOP OF CASING ELEVATION (MSL): _____

GROUND SURFACE ELEVATION (MSL): _____

COMPLETION DATE: _____

DESCRIBE WELL DEVELOPMENT: _____

POST DEVELOPMENT WATER LEVEL ELEVATION (MSL): _____

DATE AND TIME MEASURED: _____

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

REPORT PREPARED BY: _____

(name, company, phone number)

NOTE: PLEASE ATTACH BORING LOG.

(bls)= Below Land Surface

Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name: HARDEE COUNTY REGIONAL LANDFILL (LF1) Site # 0038414

County: HARDEE Comments: N RPAs: N # Cases: 0

Project

Permit #: 0038414-010-SC Project #: 010 Received: 10/03/2006 CRA #: 266266

Permit Office: SWD (DISTRICT) Agency Action: Issued

Project Name: HARDEE CO. GCL MOD Desc: to constr permit 38414-008-SC; GCL mod

Type/Sub/Des: SC / MM MINOR MODIFICATION COE #:

Logged: 10/04/2006 Issued: 01/12/2007 Expires: 02/27/2011 OGC:

Fee: 100.00 Fee Recd: 100.00 Dele: Override: SMALL CO. WAIV

Related Party

Role: APPLICANT Begin: 10/04/2006 End:

Name: CARVER, TERESA Company: HARDEE COUNTY SOLID WASTE DEPT

Address: 675 AIRPORT ROAD

City: WAUCHULA State: FL Zip: 33873 Country: U.S.A.

Phone: 941-773-5009 Fax: 941-773-3907 Email:

Processors

Processor: PELZ, S Y Active: 10/04/2006 Inactive: Events:

Permitting Application - Events

Events Scheduled 34 of 90

Site #: 0038414 Site Name: HARDEE COUNTY REGIONAL LANDFILL (LF1)

Permit #: 0038414-010-SC Type/Subtype: SC / MM Received: 10/03/2006

Project #: 010 Project Name: HARDEE CO. GCL MOD

> ISSUE PERMIT: Issued

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	10/03/2006	1	10/04/2006		Done	10/03/2006
Fee Verification	10/03/2006	2	10/05/2006		Sufficient Fee	10/03/2006
Completeness Review	10/03/2006	30	11/02/2006		Complete	10/03/2006
Determine Agency Action	10/03/2006	90	01/01/2007		Issue	11/29/2006
Mail Public Notice of Intent to Applicant and O	11/29/2006	10	12/09/2006		Done	11/29/2006
Date of Publication	11/29/2006	999	08/24/2009		Published	12/13/2006
Issue Final Permit	12/13/2006	14	12/27/2006		Issued	01/12/2007
ISSUE PERMIT	01/12/2007	1	01/13/2007		Issued	01/12/2007
STOP CLOCK	01/12/2007	1	01/13/2007		Done	01/12/2007
STOP CLOCK	11/29/2006	1	11/30/2006		Done	11/29/2006



Cash Receiving Application - Collection Point Log Remittance

CL AREA **SWD**

Logged Total **CRAF006A**
\$100.00

Collection Point Log Remittance

Remittance ID **696201** Type * **CP** Received Date * **10/03/2006** Status **RECEIVED**
 System Receipt **558524** PNR Check # * **6391** Amount * **100.00**
 SSNFEID _____ Name * **SCS ENGINEERS**
 First _____ Middle _____ Title _____ Suffix _____
 Address1 **3012 U.S. HIGHWAY 301 NORTH**
 Address2 **SUITE 700**
 City **TAMPA** ST **FL** Zip **33619**
 Country _____ Short Comments **SW 38414-010**

PAYMENT(S)

Payment ID	CL Area	Object	Code/Description	Payment Amount	Reference#	Appl	Fund *	Status
773846	SWD	002244	SOLID WASTE CON	\$100.00		PA	RETR	COMPLETE

COMMIT FREQUENTLY

\$100.00 Payment Total

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



Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name **HARDEE COUNTY REGIONAL LANDFILL (LF1)** Site # **0038414**
 County **HARDEE** Comments **N** RPAs **N** # Cases **0**
 Project
 Permit # _____ Project # **010** Received **10/03/2006** CRA # **266266**
 Permit Office **SWD (DISTRICT)** Agency Action **Pending**
 Project Name **HARDEE CO. GCL MOD** Desc _____
 Type/Sub/Des **SC** **MM** **MINOR MODIFICATION** COE # _____
 Logged **10/04/2006** Issued _____ Expires _____ OGC ☐
 Fee **100.00** Fee Recd **100.00** Delc _____ Override **SMALL CO. WAIV**

Related Party

Role **APPLICANT** Begin **10/04/2006** End _____
 Name **CARVER, TERESA** Company **HARDEE COUNTY SOLID WASTE DEPT.**
 Address **675 AIRPORT ROAD**
 City **WAUCHULA** State **FL** Zip **33873** Country **U.S.A.**
 Phone **941-773-5089** Fax **941-773-3907** Email _____

Processors

Processor **PELZ_S** ☒ Active **10/04/2006** Inactive ☐ Events

Enter Fee Override Reason. Press [LIST] for valid values.



Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name **HARDEE COUNTY REGIONAL LANDFILL (LF1)** Site # **0038414**

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

Project

Permit # **0038414** - **009** - **SC** Project # **009** Received **05/18/2006** CRA # **253397**

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

Project Name **LF EXPANSION GEOCOMPOSITE** Desc **mod to permit 38414-008-SC01**

Type/Sub/Des **SC / MM** MINOR MODIFICATION COE #

Logged **05/22/2006** Issued **08/08/2006** Expires **02/27/2011** OGC

Fee **250.00** Fee Recd **250.00** Del Override **NONE**

Related Party

Role **APPLICANT** Begin **05/22/2006** End

Name **CARVER, TERESA** Company **HARDEE COUNTY SOLID WASTE DEPARTMENT**

Address **675 AIRPORT ROAD**

City **WAUCHULA** State **FL** Zip **33873** Country **U.S.A.**

Phone **941-773-5089** Fax **941-773-3907** Email

Processors

Processor **PELZ, S** **Y** Active **05/22/2006** Inactive Events

Permitting Application - Events

Events Scheduled

Site # **0038414** Site Name **HARDEE COUNTY REGIONAL LANDFILL (LF1)**

Permit # **0038414-009-SC** Type/Subtype **SC / MM** Received **05/18/2006**

Project # **009** Project Name **LF EXPANSION GEOCOMPOSITE**

> STOP CLOCK: Done

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	05/18/2006	1	05/19/2006		Done	05/18/2006
Fee Verification	05/18/2006	2	05/20/2006		Sufficient Fee	05/18/2006
Completeness Review	05/18/2006	30	06/17/2006		Complete	05/18/2006
Determine Agency Action	05/18/2006	90	08/16/2006		Issue	08/08/2006
Issue Final Permit	08/08/2006	14	08/22/2006		Issued	08/08/2006
ISSUE PERMIT	08/08/2006	1	08/09/2006		Issued	08/08/2006
STOP CLOCK	08/08/2006	1	08/09/2006		Done	08/08/2006

Florida Department of Environmental Protection - Enterprise Applications

Query Coll Epts Rnd Edit CRA Window

ORACLE

Cash Receiving Application - Collection Point Log Remittance

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

Collection Point Log Remittance

Remittance ID: **673905** Type: **CP** Received Date: **05/18/2006** Status: **RECEIVED**

System Receipt: **643623** PNR: Check #: **6308** Amount: **250.00**

SSN/FEID: Name: **SCS ENGINEERS**

First: Middle: Title: Suffix:

Address1: **3012 US HIGHWAY 301 N**

Address2: **SUITE 700**

City: **TAMPA** ST: **FL** Zip: **33619**

Country: Short Comments: **SO 38414-009**

PAYMENT(S)

Payment ID	CL Area	Code/Description	Payment Amount	Reference#	Appl	Fund *	Status
747442	SWD	902246 SOLID WASTE-CON	\$250.00		PA	PFTF	COMPLETE

COMMIT FREQUENTLY **\$250.00** Payment Total

Florida Department of Environmental Protection - Enterprise Applications

Permits Events Payment FIESTA PA Data Entry Site Facility ME Party Affiliation Let Help Exit Win

ORACLE

Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name: **HARDEE COUNTY REGIONAL LANDFILL (LF1)** Site #: **0038414**

County: **HARDEE** Comments: **Y** RPAs: **N** # Cases: **0**

Project

Permit #: Project #: **009** Received: **05/18/2006** CRA #: **253397**

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

Project Name: **LF EXPANSION GEOCOMPOSITE** Desc: **mod**

Type/Sub/Des: **SC** **MM** **MINOR MODIFICATION** COE #:

Logged: **05/22/2006** Issued: Expires: OGC:

Fee: **250.00** Fee Recd: **250.00** Dela: Override: **NONE**

Related Party

Role: **APPLICANT** Begin: **05/22/2006** End:

Name: **CARVER, TERESA** Company: **HARDY COUNTY**

Address:

City: State: Zip: Country:

Phone: Fax: Email:

Processors

Processor: **PELZ_S** Active: **05/22/2006** Inactive: Events:

Permitting Application - Events

Events Scheduled 34 of 90

Site # 0038414 Site Name HARDEE COUNTY REGIONAL LANDFILL (LF1)

Permit # 0038414-008-SC Type/Subtype SC / 01 Received 04/08/2004

Project # 008 Project Name HARDEE CO. LF EXPANSION

> Return Proof of Publication of Notice of Application: Received

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Awaiting Additional Information	12/06/2004	101	03/17/2005		Received	11/30/2005
Completeness Review	11/30/2005	30	12/30/2005		Complete	11/30/2005
Determine Agency Action	11/30/2005	90	02/28/2006		Issue	01/26/2006
Mail Public Notice of Intent to Applicant a	01/26/2006	10	02/05/2006		Done	01/26/2006
Date of Publication	01/26/2006	999	10/21/2008		Published	02/09/2006
Issue Final Permit	02/09/2006	14	02/23/2006		Issued	02/27/2006
ISSUE PERMIT	02/27/2006	1	02/28/2006		Issued	02/27/2006
STOP CLOCK	02/27/2006	1	02/28/2006		Done	02/27/2006
STOP CLOCK	01/26/2006	1	01/27/2006		Done	01/26/2006
Publish Notice of Application	04/08/2004	14	04/22/2004		Done	04/08/2004
Return Proof of Publication of Notice of App	04/08/2004	74	05/21/2004		Received	04/08/2004

Permitting Application - Events

Events Scheduled

34 of 90

Site # 0030414 Site Name HARDEE COUNTY REGIONAL LANDFILL (LF1)
 Permit # Type/Subtype SC / 01 Received 04/08/2004
 Project # 008 Project Name HARDEE CO. LF EXPANSION

> Date of Publication: Pending

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Awaiting Additional Information	05/07/2004	192	11/15/2004		Received	11/19/2004
Completeness Review	11/19/2004	30	12/19/2004		Incomplete	12/06/2004
RESET CLOCK	12/06/2004	1	12/07/2004		Done	12/06/2004
Awaiting Additional Information	12/06/2004	101	03/17/2005		Received	11/30/2005
Completeness Review	11/30/2005	30	12/30/2005		Complete	11/30/2005
Determine Agency Action	11/30/2005	90	02/28/2006		Issue	01/26/2006
Publish Notice of Application	04/08/2004	14	04/22/2004		Done	04/08/2004
Mail Public Notice of Intent to Applicant and	01/26/2006	10	02/05/2006		Done	01/26/2006
Date of Publication	01/26/2006	999	10/21/2008	998	Pending	
STOP CLOCK	01/26/2006	1	01/27/2006		Done	01/26/2006
Return Proof of Publication of Notice of Applic	04/08/2004	74	06/21/2004		Received	04/08/2004

Permitting Application - Events

Events Scheduled 37 of 90

Site # 0030414 Site Name HARDEE COUNTY REGIONAL LANDFILL (LF1)

Permit # Type/Subtype SC / 01 Received 04/08/2004

Project # 008 Project Name HARDEE CO. LF EXPANSION

> Awaiting Additional Information: Received

Event	Begin Date	Period	Due Date	Rmn	Status	End Date
Receive Request	04/08/2004	1	04/09/2004		Done	04/08/2004
Fee Verification	04/08/2004	2	04/10/2004		Sufficient Fee	04/08/2004
Completeness Review	04/08/2004	30	05/08/2004		Incomplete	05/07/2004
RESET CLOCK	05/07/2004	1	05/08/2004		Done	05/07/2004
Awaiting Additional Information	05/07/2004	192	11/15/2004		Received	11/19/2004
Completeness Review	11/19/2004	30	12/19/2004		Incomplete	12/06/2004
RESET CLOCK	12/06/2004	1	12/07/2004		Done	12/06/2004
Awaiting Additional Information	12/06/2004	101	03/17/2005		Received	11/30/2005
Completeness Review	11/30/2005	30	12/30/2005		Complete	11/30/2005
Determine Agency Action	11/30/2005	90	02/28/2006	36	Pending	
Publish Notice of Application	04/08/2004	14	04/22/2004		Done	04/08/2004

RAI #1 8/7/04

6/22/04 TX to 8/15/04

8/4/04 TX to 8/31/04

8/10/04 partial submittal (publication only)

8/23/04 mtg - garten

10/15/04 TX to 11/15/04

11/15/04 TX to 11/19/04

→ response to RAI #1 11/19/04

RAI #2 12/6/04

1/6/05 TX to 1/31/05

mtg 1/18/05

1/31/05 TX to 2/28/05

2/28/05 TX to 3/17/05

3/17/05 TX to 4/17/05

4/15/05 TX to 4/29/05

4/29/05 TX to 5/6/05

5/13/05 TX to 5/13/05

5/16/05 TX to 5/20/05

→ 5/23/05 partial need

6/14/05 ~~over~~ request for meeting

7/27/05 DRAFT of plan need

8/16/05 mtg

9/16/05 TX to 9/30/05

→ response to RAI #2 - 11/30/05
COMPLETE

Oracle Developer Forms Runtime - Web

Query, Coll, Rpts, Find, Exit CRA, Window

Cash Receiving Application - Collection Point Log Remittance

Collection Point Log Remittance

AREA: **SWD** Total: **CRAF006A \$100.00**

Remittance: **561526** Type: **CP** Received Date: **04/08/2004** Status: **RECEIVED**

SYSRCPT: **454057** PNR: Check #: **5832** Amount: **100.00**

SSN/FEI#: Name: **SCS ENGINEERS**

First: Middle: Title: Sur:

Address1: **3012 US HIGHWAY 301 NORTH** Short Comments:

Address2: **SUITE 700** S SW **38414-008**

City: **TAMPA** ST: **FL** Zip: **33619** Country:

PAYMENT(S)

Payment#	Dist. CL	Object Code/Description	Payment Amount	Reference#	Applic. Fund*	status
611056	SWD	002244 SOLID WASTE CON	\$100.00		PA PFTF	COMPLETE

COMMIT FREQUENTLY **\$100.00** Payment total

Press TAB to accept Collection Point or enter F&A

start Internet... Inbox - Mic... Document1... 10:13 AM

Oracle Developer Forms Runtime - Web

Permits, Events, Payment, Site, Facility, Party, List, Help, Exit, Window

Permitting Application - Permit Detail and Log Permit

SITE Permit

Site Name: **HARDEE COUNTY REGIONAL LANDFILL (LF1)** Site #: **0038414**

County: **HARDEE** Comments: **N** RPAs: **N** #Cases: **0**

Project

Permit #: Project #: **003** Received: **04/08/2004** CRA #: **179000**

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

Project Name: **HARDEE CO. LF EXPANSION** Desc:

Type/Sub/Des: **SC / 01 SANI LANDFILL CLASS I** COE #:

Logged: **04/13/2004** Issued: Expires: OOC:

Fee: **100.00** Fee Recd: **100.00** Dele: Override: **SMALL CO. WAIV**

Related Party

Role: **APPLICANT** Begin: **04/13/2004** End:

Name: **WILLIAMSON, JANICE** Company: **HARDEE COUNTY SOLID WASTE DEPT.**

Address: **675 AIRPORT ROAD**

City: **WAUCHULA** State: **FL** Zip: **33873** Country: **U.S.A.**

Phone: **941-773-5089** Fax: **941-773-3907**

Processors

Processor: **FORD_K** Active: **04/13/2004** Inactive: Events:

Enter Y if this is the PRIMARY processor

start Internet... Inbox - Mic... Document1... 10:13 AM