



Florida Department of Environmental Protection

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

Charlie Crist
Governor

Jeff Kottkamp
Lt. Governor

Michael W. Sole
Secretary

Transmitted via email only to teresa.carver@hardeecounty.net

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

May 6, 2010

RE: Hardee County Class I Landfill Financial Assurance Cost Estimates
Permit No.: 38414-011-SO, Class I Landfill

Dear Ms. Carver:

This letter is to acknowledge receipt of the revised cost estimates dated and received September 1, 2009, as revised May 5, 2010, prepared by SCS Engineers for closure and long-term care of the Hardee County Class I Landfill and closure of the associated MRF and WTPF. The Department apologizes for the delay in review of this submittal. The revised cost estimates received September 1, 2009, as revised May 5, 2010 (total for closing \$3,483,130.53 and long-term care \$241,775.50/year x 30 years= \$7,253,264.90), are **APPROVED for 2009**. Please note that these estimates are acceptable for closure and long-term care of 18.6 acres (Phase I - 13.6 acres and Phase II, Section I - 5 acres). The next annual update (revised or inflation-adjusted estimates) is due no later than **September 1, 2010**.

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

Sincerely,

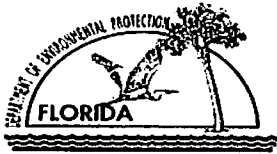


Steven G. Morgan
Solid Waste Section
Southwest District

sgm

cc: Shane Fischer, P.E., SCS Engineers, sfischer@scsengineers.com
Frank Hornbrook, FDEP, Tallahassee (e-mail)
Susan Pelz, P.E., FDEP Tampa (e-mail)

DEP Form #	62 201 000 25
Form Title	Financial Assurance Cost Estimate Form
Effective Date	09 22 09
DEP Application No.	(Filled by DEP)



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

SEP 01 2009

Southwest District

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: September 1, 2009

Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hardee County Landfill WACS or GMSID #: SWD/25/40612
 Permit / Application No.: 38414-011-SO/01 Expiration Date: May 12, 20T3
 Facility Address: 685 Airport Road, Wauchula, FL 33873
 Permittee: Hardee County Solid Waste Department
 Mailing Address: 685 Airport Road, Wauchula, FL 33873

Latitude: 27°34'17" N Longitude: 81°46'58" W or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Phase I	13.6	1983	24
Phase II Section I	5	2008	5

Total Landfill Acreage included in this estimate. 18.6 Closure _____ Long-Term Care _____

Type of Landfill: Class I _____ Class III _____ C&D Debris _____

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit * _____ Insurance Certificate
 _____ Performance Bond * Escrow Account
 _____ Guaranty Bond * _____ Trust Fund Agreement

*Indicates mechanisms that require use of a Standby Trust Fund Agreement

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

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

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

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

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

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

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-488-0300.

This adjustment is based on the Department approved closure cost estimate dated: _____

Latest Department Approved Closure Cost Estimate:	x	Current Year Inflation Factor	=	Inflation Adjusted Closure Cost Estimate:
_____		_____		_____

This adjustment is based on the Department approved long-term care cost estimate dated: _____

Latest Department Approved Annual Long-Term Care Cost Estimate:	x	Current Year Inflation Factor	=	Inflation Adjusted Annual Long-Term Care Cost Estimate
_____		_____		_____
Number of Years of Long Term Care Remaining:			x	_____
Inflation Adjusted Long-Term Care Cost Estimate:			=	_____

(b) Recalculate Estimates (see section V)

IV. CERTIFICATION BY ENGINEER

This is to certify that the Financial Assurance Cost Estimates pertaining to the engineering features of the this solid waste management facility have been examined by me and found to conform to engineering principals applicable to such facilities. In my professional judgement, the cost Estimates are a true, correct and complete representation of the financial liabilities for closing and long-term care of the facility and comply with the requirements of Florida Administrative Code (F.A.C.), Rule 62-701.630 and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Financial Assurance Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.

Shane R. Fischer 9/1/09
Signature of Engineer

Teresa Carver
Signature of Owner/Operator

Shane R. Fischer, P.E., Project Manager
Name & Title (please type)

Teresa Carver, Solid Waste Director
Name & Title (please type)

58026
Florida Registration Number (affix seal)

(863)773-5089
Telephone Number

SCS Engineers
4041 Park Oaks Blvd., Suite 100
Tampa, Florida 33610
Mailing Address

813-621-0080
Telephone Number

V. RECALCULATE ESTIMATED CLOSING COST

For the time period in the landfill operation when the extent and manner of its operation makes closing most expensive.

**** Third Party Estimate / Quote must be provided for each item
 ** Costs must be for a third party providing all material and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
			Subtotal Monitoring Wells:	<u>\$0.00</u>
2. Slope and Fill (Bedding Layer Between Waste and Barrier Layer)				
Excavation	CY	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Placement and Spreading	CY	<u>29,922</u>	<u>1.11</u>	<u>\$33,213.42</u>
Compaction	CY	<u>29,922</u>	<u>0.64</u>	<u>\$19,150.08</u>
Off-Site Material	CY	<u>29,922</u>	<u>3.42</u>	<u>\$102,333.24</u>
Delivery	CY	<u>29,922</u>	<u>3.50</u>	<u>\$104,727.00</u>
			Subtotal Slope and Fill:	<u>\$259,423.75</u>
3. Cover Material (Barrier Layer)				
Off-Site Clay	CY	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Synthetics - 40 mil	SY	<u>56,254</u>	<u>3.83</u>	<u>\$215,171.55</u>
Synthetics - GCL	SY	<u>1,294</u>	<u>5.40</u>	<u>\$6,987.60</u>
Synthetics - Geonet	SY	<u>91,449</u>	<u>5.13</u>	<u>\$469,133.51</u>
Biplanar Geocomposite	SY	<u>35,195</u>	<u>4.49</u>	<u>\$158,060.75</u>
Synthetics - Other 60-mil	SY	<u>35,195</u>	<u>4.49</u>	<u>\$158,060.75</u>
			Subtotal Barrier Layer Cover:	<u>\$849,353.41</u>
4. Top Soil Cover				
Off-Site Material	CY	<u>60,966</u>	<u>9.72</u>	<u>\$592,589.58</u>
Delivery	CY	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Spread and Compact	CY	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
			Subtotal Top Soil Cover:	<u>\$592,589.58</u>

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	91,450	2.16	\$197,532.00
Hydroseeding	AC	0.00	0.00	\$0.00
Fertilizer	AC	0.00	0.00	\$0.00
Mulch	AC	0.00	0.00	\$0.00
Other	SY	0.00	0.00	\$0.00

Subtotal Vegetative Layer: \$197,532.00

6. Stormwater Control System				
Earthwork	CY	3,160	14.75	\$46,610.00
Erosion Control	SF	0	0.00	\$0.00
Piping	LS	1.00	28,432.27	\$28,432.27
Ditches	LS	0.00	0.00	\$0.00
FDOT Structures	EA	4.00	2,987.25	\$11,949.00
Other	LS	1.00	14,796.48	\$14,796.48

Subtotal Stormwater Controls: \$101,787.75

7. Gas Controls: Passive				
Wells	VF	693	114.75	\$79,521.75
Horizontal Collectors	LF	3603	39.25	\$141,417.75
Monitoring Probes	EA	0.00	0.00	\$0.00
NSPS/Title V requirements	LS	0.00	0.00	\$0.00

Subtotal Passive Gas Control: \$220,939.50

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Sump	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Flare Assembly	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Flame Arrestor	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Mist Eliminator	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Flow Meter	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Blowers	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Collection System	LF	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Other (describe)		<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Active Gas Extraction:				<u>\$0.00</u>
9. Security System				
Fencing	LF	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Gate(s)	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Sign(s)	EA	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Security System:				<u>\$0.00</u>
10. Engineering				
(Includes separate closure activities for Phase I and Phase II Section I)				
Closure Plan report	LS	<u>1.00</u>	<u>267,542.00</u>	<u>\$267,542.00</u>
Certified Engineer	LS	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
NSPS/Title V Air Permit	LS	<u>0.00</u>	<u>0.00</u>	<u>\$0.00</u>
Final Survey	LS	<u>1.00</u>	<u>21,952.00</u>	<u>\$21,952.00</u>
Certification of Closure	LS	<u>1.00</u>	<u>37,122.00</u>	<u>\$37,122.00</u>
Other (detail) (Bidding Services)	<u>LS</u>	<u>1.00</u>	<u>33,802.00</u>	<u>\$33,802.00</u>
Subtotal Engineering:				<u>\$360,418.00</u>

11. Professional Services

(Includes separate closure activities for Phase I and Phase II Section I)

	Contract Management		Quality Assurance		TOTAL
	Hours	LS	Hours	LS	
P.E. Supervisor	548	83,120.64	252	36,880.20	\$120,000.84
On-Site Engineer	1200	105,600.00	0	0.00	\$105,600.00
Office Engineer	478	44,195.88	170	19,150.50	\$63,346.38
On-Site Technician	0	0.00	1200	105,600.00	\$105,600.00
Administrative	80	4,400.00	40	2,200.00	\$6,600.00
Reimbursables	1	5,534.00	1	104,348.00	\$109,882.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing/Labor	LS	1	46,500.00	\$46,500.00

Subtotal Professional Services: \$557,529.22

Subtotal of 1-11 Above: \$3,139,573.21

12. Contingency

% of Total: 10%

Closing Cost Subtotal: \$3,453,530.53

13. Site Specific Costs (explain)

<u>Waste Tire Facility</u>	<u>\$1,200.00</u>
<u>Materials Recovery Facility</u>	<u>\$16,300.00</u>
<u>Household Hazardous Wastes</u>	<u>\$12,100.00</u>
<u>Other</u>	<u>\$0.00</u>

Subtotal Site Specific Costs: \$29,600.00

TOTAL CLOSING COSTS: \$3,483,130.53

SEP 01 2009

Southwest District

VI. ANNUAL COST FOR LONG-TERM CARE (Check Term Length)

_____ 5 years _____ 20 years X 30 years _____ Other

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

**** Third Party Estimate / Quote must be provided for each item**
**** Costs must be for a third party providing all material and labor**

All items must be addressed. Attach a detailed explanation for all items marked not applicable (N/A).

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	\$/Well/Event	\$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
Monthly	12	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Semi-Annual	2	<u>8</u>	<u>760.75</u>	<u>\$12,172.00</u>
Annual	1	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Groundwater Monitoring:				<u>\$12,172.00</u>
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Semi-Annual	2	<u>1</u>	<u>619.00</u>	<u>\$1,238.00</u>
Annual	1	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Surface Water Monitoring:				<u>\$1,238.00</u>
3. Gas Monitoring				
Monthly	12	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Quarterly	4	<u>11</u>	<u>91.36</u>	<u>\$4,020.00</u>
Semi-Annual	2	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Annual	1	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Gas Monitoring:				<u>\$4,020.00</u>

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	\$/Well/Event	\$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c))				
Monthly	12	0	0.00	\$0.00
Quarterly	4	0	0.00	\$0.00
Semi-Annual	2	0	0.00	\$0.00
Annual	1	1	967.00	\$967.00
Other	0	0	0.00	\$0.00
Subtotal Leachate Monitoring:				\$967.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	0	0.00	\$0.00
Sumps, Traps	EA	0	0.00	\$0.00
Lift Stations	EA	2	627.30	\$1,254.60
Cleaning (Lines and manholes)	LS	0.2	32,695.00	\$6,539.00
Tanks	EA	2	2,352.38	\$4,704.76
Impoundments				\$10,455
Liner Repair	SY	0	0.00	\$0.00
Sludge Removal	CY	0	0.00	\$0.00
Aeration Systems	CY	0	0.00	\$0.00
Floating Aerators	EA	0	0.00	\$0.00
Spray Aerators	EA	0	0.00	\$0.00
Disposal				
Off-site (Include Transportation and Disposal)	LS	1	134,200.00	\$134,200.00

6. Leachate Collection/Treatment Systems Operation

Operation		Hours	\$/Hour	Total
P.E. Supervisor	HR	0	0.00	\$0.00
On-Site Engineer	HR	0	0.00	\$0.00
Office Engineer	HR	0	0.00	\$0.00
On-site Technician	LS	0	0.00	\$0.00
Materials	LS	0	0.00	\$0.00
Subtotal Leachate Collection/Treatment System Maintenance & Operation:				\$157,153.36

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LS	1	348.00	\$348.00
Replacement	EA	0.2	2,612.00	\$522.40
Abandonment	EA	0	0.00	\$0.00
Subtotal Groundwater Monitoring Well Maintenance:				\$870.40

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
-------------	------	----------	-----------	-------------

8. Gas System Maintenance

Piping, Vents	LF	0	0.00	\$0.00
Blowers	EA	0	0.00	\$0.00
Flaring Units	EA	0	0.00	\$0.00
Meters, Valves	EA	0	0.00	\$0.00
Compressors	EA	0	0.00	\$0.00
Flame Arrestors	EA	0	0.00	\$0.00
Operation	LS	1	796.00	\$796.00
Subtotal Gas System:				\$796.00

9. Landscape

Mowing	AC	18.6	156.82	\$2,916.85
Fertilizer	AC	18.6	209.09	\$3,889.07
Subtotal Landscape Maintenance:				\$6,805.93

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	<u>1,218</u>	<u>2.16</u>	<u>\$2,630.88</u>
Regrading	LS	<u>1</u>	<u>2,500.00</u>	<u>\$2,500.00</u>
Liner Repair	SY	<u>500</u>	<u>4.16</u>	<u>\$2,079.00</u>
Clay	CY	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Erosion Control and Cover Maintenance:				<u>\$7,209.88</u>
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>12,114.34</u>	<u>\$12,114.34</u>
Subtotal Storm Water System Maintenance:				<u>\$12,114.34</u>
12. Security System Maintenance				
Fences	LF	<u>50</u>	<u>22.00</u>	<u>\$1,100.00</u>
Gate(s)	EA	<u>0.2</u>	<u>3,525.00</u>	<u>\$705.00</u>
Sign(s)	EA	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Security System:				<u>\$1,805.00</u>
13. Utilities	LS	<u>1</u>	<u>500.00</u>	<u>\$500.00</u>
14. Administrative				
P.E. Supervisor	LS	<u>1</u>	<u>2,240.00</u>	<u>\$2,240.00</u>
On-Site Engineer	HR	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Office Engineer	HR	<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
On-site Technician	LS	<u>1</u>	<u>11,904.00</u>	<u>\$11,904.00</u>
Other (explain)		<u>0</u>	<u>0.00</u>	<u>\$0.00</u>
Subtotal Administrative:				<u>\$14,144.00</u>
15. Contingency	% of Total	\$219,795.91	<u>10%</u>	<u>\$21,979.59</u>
Subtotal Contingency:				<u>\$21,979.59</u>

16. Site Specific Costs (explain)

UNIT COST

<hr/>	<u>LS</u>	<u>\$0.00</u>
<hr/>	<u>LS</u>	<u>\$0.00</u>
<hr/>	<u>LS</u>	<u>\$0.00</u>

ANNUAL LONG-TERM CARE COST (\$/Year): \$241,775.50

NUMBER OF YEARS OF LONG-TERM CARE 30

TOTAL LONG-TERM CARE COST (\$): \$7,253,264.90