

SECTION S

FINANCIAL RESPONSIBILITY REQUIREMENTS

S.1 CLOSURE COST ESTIMATE

Estimates of the probable cost of closure and long term care were presented in Section S in the County's July 11, 2008 application to construct an expansion to the Class III cell. This cost estimate was approved by the FDEP on January 21, 2009 when the FDEP issued a permit to construct the expansion to the Class II cell. A copy of this estimate is included in Attachment S-1.

The County intends to complete the required closure activities as portions of the facility reach final grade. At the time of closure, required activities would include a small area of final cover, the final survey, and certification of closure construction. If the site were to be closed prior to reaching final grade, additional grading and soil cover would be required. Attachment S-1 presents the estimate of probable closure cost based on an outside contractor being brought in to complete the required closure. The estimate assumes that sufficient cover soil and topsoil is available on-site, and that the County will have this material stockpiled for use by the closure contractor.

S.2 ANNUAL COST ADJUSTMENTS

The County updates the Closure and Long-term Care Cost Estimates as required by Rule 62-701.630(4), F.A.C., and certified copies are submitted to FDEP on an annual basis for review and approval in accordance with regulatory requirements.

S.3 PROOF OF FINANCIAL RESPONSIBILITY FUNDING MECHANISMS

A description of the County's proof of financial responsibility is included in Attachment S-1.

ATTACHMENT S-1
FINANCIAL ASSURANCE

DEP Form #	62-701.900(28)
Form Title	Financial Assurance Cost Estimate Form
Effective Date	05-27-01
DEP Application No	(Filled by DEP)



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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: June 23, 2009 Date of FDEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Tomoka Farms Road Class III Landfill WACS or GMSID #: _____
Permit / Application No.: SO64-0078767-019 Expiration Date: August 25, 2009
Facility Address: 1990 Tomoka Farms Road, Daytona Beach, Florida
Permittee: Volusia County
Mailing Address: 3151 East New York Avenue, DeLand, Florida 32724

Latitude: 29° 07' 53" Longitude: 81° 05' 31" 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
Class III	81.4 existing	1998	18
	8 expansion		

Total Landfill Acreage included in this estimate. 89.4 Closure 89.4 Long-Term Care

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

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit * _____ Insurance Certificate
_____ Performance Bond * X Escrow Account
_____ Guaranty Bond * _____ Financial Test

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

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:
_____		_____		_____

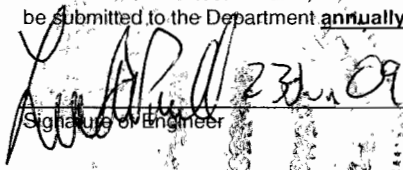
This adjustment is based on the Department approved long-term care cost estimate dated: _____

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:			=	_____

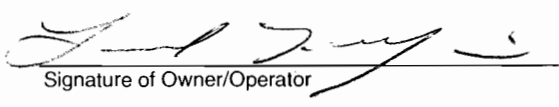
(b) Recalculate Estimates (see section V)

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.



 Signature of Engineer
 Lee A. Powell, P.E.
 Name & Title (please type)



 Signature of Owner/Operator
 Leonard Marion, Solid Waste Director
 Name & Title (please type)

FL # 35992

 Florida Registration Number (affix seal)

(386) 943-7889

 Telephone Number

SCS Engineers
 501 North Grandview Ave., Suite 400
 Daytona Beach, FL 32118

 Mailing Address

(386) 238-7770

 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.)		
2. Slope and Fill (bedding layer between waste and barrier layer): (12")				
Excavation	CY			
Placement and Spreading	CY	40,000	3.00	\$120,000
Compaction	CY			
Off Site Material	CY			\$0
Delivery	CY	40000	1.50	\$60,000
			Subtotal Slope and Fill:	\$180,000
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	433,000	5.40	\$2,338,200
Synthetics - GCL	SY			
Synthetics - Geonet	SY	433,000	4.00	\$1,732,000
Synthetics - Other	SY			
			Subtotal Barrier Layer Cover:	\$4,070,000
4. Top Soil Cover: (24" protective soil)				
Off-Site Material	CY	0	0.000	\$0
Delivery	CY	289,000	1.500	\$433,500
Spread	CY	289,000	3.000	\$867,000
			Subtotal Top Soil Cover	\$1,301,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
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5. Vegetative Layer

Sodding	SY	433,000	1.60	\$692,800
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other	SY			
Subtotal Vegetative Layer:				\$693,000

6. Stormwater Control System:

Earthwork	CY			
Grading	SY			
Piping	LF	19,000.00	27.00	
Ditches	LF			
Berms	LF			
Terrace Structures	LS	162.00	1,500.00	\$243,000
Discharge Structures	EA	39	1,500.00	\$58,500
Subtotal Stormwater Controls:				\$302,000

7. Gas Controls: Passive

Wells	EA	42	7,000	\$294,000
Pipe and Fittings	LF			
Monitoring Probes	EA			
NSPS/Title V requirements	LS			
Subtotal Passive Gas Control:				\$294,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	0.00		\$0
Sump	EA	0.00		\$0
Flare Assembly	EA	0.00		\$0
Flame Arrestor	EA	0.00		\$0
Mist Eliminator	EA	0.00		\$0
Flow Meter	EA	0.00		\$0
Blowers	EA	0.00		\$0
Collection System	LF	0.00		\$0
Other (describe)		0.00		\$0
Subtotal Active Gas Extraction:				\$0

9. Security System

Fencing	LF	0.00	0.00	\$0
Gate(s)	EA	0.00	0.00	\$0
Sign(s)	EA	0.00	0.00	\$0
Subtotal Security System:				\$0

10. Engineering:

Closure Plan report	LS	1.00	60,000	\$60,000
Certified Engineer	LS			
NSPS/Title V Air Permit	LS			
Final Survey	LS	1.00	12,000	\$12,000
Certification of Closure	LS	1.00	20,000	\$20,000
Other (detail)				
Subtotal Engineering:				\$92,000

11. Professional Services

	Contract Management		Quality Assurance		TOTAL
	Hours	UNIT COST	Hours	UNIT COST	
P.E. Supervisor	60	140			\$8,400
On-Site Engineer					
Office Engineer	180	110			\$19,800
On-Site Technician			1,000	90	\$90,000
Other (Explain)					
Reimbursables		2,000		10,000	\$12,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS	1	20,000	\$20,000
Subtotal Professional Services:				\$150,000

Subtotal of 1-11 Above: \$7,082,000

12. Contingency % of Total 5.00%

Closing Cost Subtotal: \$7,436,100

13. Site Specific Costs (explain)

Subtotal Site Specific Costs: \$0

TOTAL CLOSING COSTS: \$7,436,100

VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

_____ 5 years _____ 20 years 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))		Included with Class I Cell Operation and Closure		
Monthly (Gradient)	12	_____	_____	_____
Quarterly	4	0	0	\$0
Semi-Annual	2	0	0	\$0
Annual	1	_____	_____	_____
		Subtotal Groundwater Monitoring:		\$0
2. Surface Water Monitoring (62-701.510(4), and (8)(b))		Included with Class I Cell Operation and Closure		
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annual	2	0	0	\$0
Annual	1	_____	_____	_____
		Subtotal Surface Water Monitoring:		\$0
3. Gas Monitoring		Included with Class I Cell Operation and Closure		
Monthly	12	_____	_____	_____
Quarterly	4	0	0	\$0
Semi-Annual	2	0.00	0.00	\$0
Annual	1	0.00	0.00	\$0
		Subtotal Gas Monitoring:		\$0

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	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annual	2	_____	_____	_____
Annual	1	0	0	\$0
Other	_____	_____	_____	_____
Subtotal Groundwater Monitoring:				\$0

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	0.00	0.00	\$0
Sumps, Traps	EA	0.00	0.00	\$0
Lift Stations	EA	0	0	\$0
Cleaning	LS	_____	_____	_____
Tanks	EA	_____	_____	_____
Impoundments				
Liner Repair	LS	_____	_____	_____
Sludge Removal	CY	_____	_____	_____
Aeration Systems				
Floating Aerators	EA	_____	_____	_____
Spray Aerators	EA	_____	_____	_____
Disposal				
Off-site (Include Transportation and Disposal)	1000 gallon	0	0	\$0
				\$0

6. Leachate Collection/Treatment Systems Operation

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

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	EA	0	0	\$0
Replacement	EA	0	0	\$0
Abandonment	EA			
Subtotal Groundwater Monitoring Well Maintenance:				\$0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
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8. Gas System Maintenance

Piping, Vents	EA	42	100	\$4,200
Blowers	EA	0.00		\$0.00
Flaring Units	EA	0.00		\$0.00
Meters, Valves	EA	0.00		\$0.00
Compressors	EA	0.00		\$0.00
Flame Arrestors	EA	0.00		\$0.00
Operation	LS	0.00		\$0.00
Subtotal Gas System:				\$4,200

9. Landscape

Mowing	AC	90	150	\$13,500
Fertilizer	AC			
Subtotal Landscape Maintenance:				\$13,500

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	3,000	1.80	\$5,400
Regrading	LS	1	2,000	\$2,000
Liner Repair	SY	20	100.00	\$2,500
Clay	CY			
Subtotal Erosion Control and Cover Maintenance:				\$9,900
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	1	5,000	\$5,000
Subtotal Storm Water System Maintenance:				\$5,000
12. Security System Maintenance				
Fences	LF	10	25.00	\$250
Gate(s)	EA	1	30	\$30
Sign(s)	EA	0	0	\$0
Subtotal Security System:				\$280
13. Utilities	LS	0	0	\$0
14. Administrative				
		<u>Hours</u>	<u>\$/ Hour</u>	
P.E. Supervisor	HR	20.00	140.00	\$2,800
On-Site Engineer	HR			
Office Engineer	HR			\$0
On-site Technician	HR	80	65	\$5,200
Other (explain)				
Subtotal Administrative:				\$8,000
15. Contingency	% of Total	\$40,880.00	10%	\$4,000
Subtotal Contingency:				\$4,000

16. Site Specific Costs (explain)

UNIT COST

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

ANNUAL LONG-TERM CARE COST (\$/Year): \$44,880

NUMBER OF YEARS OF LONG-TERM CARE 30

TOTAL LONG-TERM CARE COST (\$): \$1,346,400