

FLORIDA DEPARTMENT OF Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 Rick Scott Governor Carlos Lopez-Cantera Lt. Governor Noah Valenstein Secretary

November 16, 2018

Transmitted via E-Mail only to: rmontgomery@co.volusia.fl.us

Regina Montgomery, Director Volusia County Solid Waste Division 3151 East New York Avenue DeLand, FL 32724

RE: Tomoka Farms Road Solid Waste Management Facility – Class I, South Cell

Inflation Adjusted Closure Cost Estimate Approval Permit No. 0078767-030-SO-01, Volusia County

WACS No: 27540

Dear Ms. Montgomery,

This letter is to acknowledge receipt of the subject facility's updated detailed closure cost estimates dated June 12, 2018 and received June 13, 2018 as Appendix A of the 5-Year Submittal Report. This cost estimate was prepared by S2L, Inc., for Tomoka Farms Road Solid Waste Management Facility. This cost estimate provides long-term care costs for the 114 acres of the Class I, South Cell. The recalculated estimate(s) were submitted to comply with Rule 62-701.630(4)(b), Florida Administrative Code, (F.A.C.). The following cost estimates received on August 28, 2018 are **APPROVED for 2018**:

South Cell

Annual Long-term care – \$114,042.56 Total Long-term care – \$3,421,276.80 for 30 years

The next annual cost estimate update is due between July 1 and September 1, 2019.

A copy of these estimates will be forwarded to the Financial Coordinator, FDEP, 2600 Blair Stone Road, MS 4565, Tallahassee, Florida 32399-2400. Please work with Susan Eldredge at (850) 245-8740 or susan.f.eldredge@dep.state.fl.us 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 (850) 245-8744.

Ms. Montgomery November 16, 2018 Page 2

Most information received or sent by the Department is public record and is placed in OCULUS, an electronic database. You can view this and other documents for this facility at the following link:

http://appprod.dep.state.fl.us/WWW WACS/Reports/SW Facility Docs.asp?wacsid=27540

Sincerely,

El Kromhout, P.G. Solid Waste Section

Permitting and Compliance Assistance Program

Enclosure: South Cell Cost Estimate Form

cc:

Sam Levin, P.E., S2L, Inc., slevin@s2li.com
Robert Mackey, P.E., S2L, Inc., bmackey@s2li.com
Jennifer Stirk, Volusia County, JStirk@volusia.org
Junos Reed, Volusia County, JReed@volusia.org
Central District, DEP CD@dep.state.fl.us
Cory Dilmore, P.E., FDEP Solid Waste, cory.dilmore@flordadep.gov
Solid.Waste.Financial.Coordinator@dep.state.fl.us



Florida Department of **Environmental Protection**

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form # 62-701.900(28), F.A.C.

Form Title: Closure Cost Estimating Form For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

CENEDAL INFORMA	TION			Date of L	DEP Approval:		
GENERAL INFORMA acility Name: Tomo			- JEII O - A	0.11			
	mit Application or Consent Order No.: 0078767-030-SO-01				WACS ID: 27540		
					Expiration Date: 5-13-2033		
				ange, FL 32128			
ermittee or Owner/Operailing Address: 315							
alling Address. 315	Lasi	New York A	Avenue, DeLa	nd, FL 32724			
atitude: 2	9°	07'	50 "	Longitude:	81°	001	00 !!
	SPS	01			81	06'	02 "
ollected by: J.E. Zap				Datum: NAD 1983	011		
Jiected by. J.E. Zap	en			Company/Affiliation:	Sliger and Ass	ociates, Inc.	
olid Waste Disposal Ur	nite Inc	luded in Ea	timotor				
nd waste Disposal Of	iits iiit	luded in Es		A street of			Lance
			Date Unit Began	Active Life of Unit From Date	If active:	If closed: Date last	If closed Official
			Accepting	of Initial Receipt	Remaining	waste	date of
Phase / Cell		Acres	Waste	of Waste	life of unit	received	closing
South Cell		114	June 1978	Approx. 23 years	N/A	2001	2001
		1 7					
Massanta	30.00			7.5			
tal disposal unit acrea	ge inc	uded in this	estimate:	Closure: N/A	Lon	g-Term Care:	114
e como a con				13 2 M	ATT STATE		
Facility type:			M (Class III	C&D Debris	Disposal	
(Check all that apply	0 0	Other:					
	AQ.						
TYPE OF FINANCIA		URANCE D	Edding of a N				
☐ Letter of Credit*			Insurance Certificate		△ Escrow Account		
□ Performance		*				n 29 (FA Defe	erral)
☐ Guarantee E	Bond*		☐ Trust F	Trust Fund Agreement			
W. A. W. C. A. C. C. C.	chaniem	a that consider the	an upo of a Ctood	The Paris A American			
* - Indicates me	CHAINSII	s triat require tr	ie use or a Stano	by Trust Fund Agreement			

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code, (F.A.C.) 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 ajustment below.

☐ (a) Inflation Factor Adjustment

(b) Recalculated or New Cost Estimates

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 Deflatory by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste website www.dep.state.fl.us/waste/categories/swfr or call the Financial Coordinator at (850) 245-8706.

This adjustment is based on the D	epartment approved o	losing cost estimate da	ited:	
Latest Department Approved Closing Cost Estimate:	Current Year Infl Factor, e.g. 1.	200		Inflation Adjusted Closing Cost Estimate:
	×		į.	-
This adjustment is based on the D	epartment approved lo	ong-term care cost estir	mate dated:	
Latest Department Approved Annual Long-Term Care	Current Year Infl			Inflation Adjusted Annual Long-Term Care Cost
Cost Estimate:	Factor, e.g. 1.0	02		Estimate:
	×		(()	
Number of Years of Lo	ing:	×		
Inflation Adjusted Lo	ng-Term Care Cost E	stimate:	=	
		W 10.10		
Signature by LICEN	Owner/Operator		(check what a	pplies)
Nicht / Colado	A THE	531 Ve	ersailles Drive, Sui	te 202
STA Signatur	e Z		A	Address
Robert E. Mackey P.E. Osepior Er	ngineër 🚡	Maitlar	nd, Florida 32751	
Mame & T	- Waitian	City, State, Zip Code		
AL ENG!	Mark St.		1.3.76.48	
6/12/13	bmack	bmackey@s2li.com		
Date			E-Ma	ail Address
107-475-9163				
Telephone Nu	umber			

Recalculated Cost Estimate □ New Facility Cost Estimate Notes: 1. Cost estimates for the time period when the extent and manner of landfill operation makes closing most ext 2. Cost estimate must be certified by a professional engineer. 3. Cost estimates based on third party suppliers of material, equipment and labor at fair market value. 4. In some cases, a price quote in support of individual item estimates may be required. Number of Units Description Unit Cost / Unit Total Cost 1. Proposed Monitoring Wells (Do not include wells already in existence.) Subtotal Proposed Monitoring Wells: 2. Slope and Fill (bedding layer between waste and barrier layer): Excavation CY Placement and Spreading CY Compaction CY Off-Site Material CY Delivery CY Subtotal Slope and Fill: 3. Cover Material (Barrier Layer): Off-Site Clay CY Synthetics - 40 mil SY Synthetics - GCL SY Synthetics - Geonet SY Synthetics - Other (explain) Subtotal Cover Material: 4. Top Soil Cover: Off-Site Material CY Delivery CY Spread CY Subtotal Top Soil Cover: 5. Vegetative Layer Sodding SY Hydroseeding AC Fertilizer AC Mulch AC Other (explain) Subtotal Vegetative Layer: 6. Stormwater Control System: Earthwork CY Grading SY LF Piping Ditches LF LF Berms Control Structures EA Other (explain) Subtotal Stormwater Control System:

IV. ESTIMATED CLOSING COST (check what applies)

Description	Unit	Number of Units	Cost	/ Unit	Total Cos
7. Passive Gas Control:	- Jane	15.7. 3.00-7	5031	- Jille	10141 005
Wells	EA				
Pipe and Fittings	LF		-		
Monitoring Probes	EA	_	-		-
NSPS/Title V requirem		1	-	_	-
The of this V requirem	51110		intotal Pas	sive Gas Control	
8. Active Gas Extraction C	control:	0.0	abtotal i as	sive das control	
Traps	EA				
Sumps	EA	-	-	_	
Flare Assembly	EA		-		-
Flame Arrestor	EA	-	_	_	-
Mist Eliminator	EA	-	-	_	
Flow Meter	EA	· —		 0	
Blowers	EA	0.	-		
Collection System	LF	_	_		
Other (explain)		(U-		
		Subtotal Ac	rtive Gas E	xtraction Control	
9. Security System:		Subtotal Ac	Live Gas L	xtraction Control	
Fencing	LF				
Gate(s)	EA	_	-	_	
Sign(s)	EA	-			
Oign(o)	LA	_	Subtotal	Security System	_
10. Engineering:			Subtotal	Security System	
Closure Plan Report	LS	4			
Certified Engineering Dra		1	-		
NSPS/Title V Air Permi		1	-		
Final Survey	LS	<u> </u>	-		-
Certification of Closure		1	-	_	_
Other (explain)	1.0	-	-		
			Subt	otal Engineering:	
	ours Co	ost / Hour He	ours	Cost / Hour	Total Cost
1. Professional Services		201	O 1'6 - A		
P.E. Supervisor	Contract Managem	lent	Quality As	surance	
			-	-	
On-Site Engineer	-	_	-	_	
Office Engineer On-Site Technician	 /		-	-	
	_	-		-	-
Other (explain)	_			-	-
		Number			
Description	Unit	of Units	Cost /	Unit	Total Cost
2000 IPLION	Offic	2. 2	JUST	O.HIL	i otal cosi

	Subtotal of 1-11 Above:	
12. Contingency %	of Subtotal of 1-11 Above	
	Subtotal Contingency:	
	Estimated Closing Cost Subtotal:	
Description		Total Cost
13. Site Specific Costs		
Mobilization		
Waste Tire Facility	135	
Materials Recovery Facility		
Special Wastes	7	
Leachate Management System	n Modification	
Other (explain)	-	
	Subtotal Site Specific Costs:	
	TOTAL ESTIMATED CLOSING COSTS (\$):	

V. ANNUAL COST FOR LONG-TERM CARE

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. (Check Term Length) ☐ 5 Years ☐ 20 Years ☐ 30 Years ☐ Other, ___ Years Notes: 1. Cost estimates must be certified by a professional engineer. 2. Cost estimates based on third party suppliers of material, equipment and labor at fair market value. 3. In some cases, a price quote in support of individual item estimates may be required. All items must be addressed. Attach a detailed explanation for all entries left blank. Sampling Frequency Number of (Cost / Well) / Description (Events / Year) Wells Event Annual Cost 1. Groundwater Monitoring [62-701.510(6), and (8)(a)] Monthly 12 Quarterly 4 2 54 Semi-Annually \$444.44 \$47,999.52 Annually 1 Subtotal Groundwater Monitoring: \$47,999.52 2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 2 Semi-Annually Annually Subtotal Surface Water Monitoring: 3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4 8 \$161.75 \$5,176.00 Semi-Annually 2 Annually Subtotal Gas Monitoring: \$5,176.00 4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c] Monthly 12 Quarterly 4 Semi-Annually 2 Annually 1 Other (explain) Subtotal Leachate Monitoring: Number of Description Unit Units / Year **Annual Cost** Cost / Unit 5. Leachate Collection/Treatment Systems Maintenance Maintenance Collection Pipes LF Sumps, Traps EA

Lift Stations

Cleaning

Tanks

EA LS

EA

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cos
5. (continued)	200		3227 2.00	0.0000000000000000000000000000000000000
Impoundments				
Liner Repair	SY			
Sludge Removal	CY		-	
Aeration Systems	100		T	
Floating Aerators	EA			
Spray Aerators	EA			
Disposal	2	-		
Off-site (Includes	1000 gallon			
ransportation and disposal)	(Subtotal Leacha	te Collection / Treatment	
, , , , , , , , , , , , , , , , , , , ,		Oublotal Leacha	Systems Maintenance:	
6. Groundwater Monitoring W	ell Maintenance		, , , , , , , , , , , , , , , , , , ,	
Monitoring Wells	LF			
Replacement	EA			
Abandonment	EA		-	
0.00-0.00-0.00-0.00		otal Groundwater Monit	oring Well Maintenance:	
7. Gas System Maintenance	2,77		and the members of	
Piping, Vents	LF			
Blowers	EA	-		
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	1	-	
		Subtotal Ga	as System Maintenance:	
8. Landscape Maintenance		a tourstilly b	20.01	
Mowing	AC	_114	\$56.12	\$6,397.68
Fertilizer	AC		\$50.12	00.780,00
		Subtotal L	andscape Maintenance:	\$6,397.68
9. Erosion Control and Cover	Maintenance			\$0,397.00
Sodding	SY	4.840	<u>\$2.11</u>	\$10,212.40
Regrading	AC	1	\$11,294.00	\$11,294.00
Liner Repair	SY	150	\$11.00	\$1,650.00
Clay	CY			\$1,050.00
	Su	btotal Erosion Control	and Cover Maintenance:	\$23,156.40
10. Storm Water Management				020,100.40
Conveyance Maintenance	LS	_1_		
	Subtotal St	orm Water Manageme	nt System Maintenance:	
1. Security System Mainten			The state of the s	
Fences	LS	1		
Gate(s)	EA			
	EA			

		Number of		
Description	Unit	Units / Year	Cost / Unit	Annual Cos
12. Utilities	LS	_1_		
			Subtotal Utilities:	
Leachate Collection/Trea	tment Systems	Operation .		
Operation				
P.E. Supervisor	HR			
On-Site Engineer	HR	-		
Office Engineer	HR		-	
OnSite Technician	HR			
Materials	LS	_1_		
	Subtotal	Leachate Collection/Treat	ment Systems Operation:	
14. Administrative				
P.E. Supervisor	HR	10	\$160.00	\$1,600.00
On-Site Engineer	HR	20	\$140.00	\$2,800.00
Office Engineer	HR		\$100.00	\$2,000.00
OnSite Technician	HR			
Other				
			Subtotal Administrative:	\$6,400.00
			Subtotal of 1-14 Above:	\$89,129.60
15. Contingency	10	% of Subtotal of 1-14 A	hove	00.040.00
		70 01 04010141 01 1-1-17	Subtotal Contingency:	\$8,912.96
			oubtotal contingency.	\$8,912.96
		Number of		-
Description	Unit	Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
Prorated Costs	LS	_1_	\$16,000.00	\$16,000.00
		Sub	ototal Site Specific Costs:	\$16,000.00
		ANNUAL LONG-TERM	CARE COST (\$ / YEAR):	\$114,042,56
		Number of Y	ears of Long-Term Care:	30
		TOTAL LONG-	TERM CARE COST (\$):	\$3,421,276.80

VI. CERTIFICATION BY ENGINEER

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

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	8 8 9 0	1 Dete	Elf.	

40176

Florida Registration Number (please affix seal)

531 Versailles Drive, Suite 202

Mailing Address

Maitland, FL 32751

City, State, Zip Code

bmackey@s2li.com

E-Mail address (if available)

407-475-9163

Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

Signature of Applicant

Regina Montgomery

Name and Title (please type)

rmontgomery@volusia.org

E-Mail address (if available)

1990 Tomoka Farms Road

Mailing Address

Port Orange, FL 32128

City, State, Zip Code

386-947-2952

Telephone Number