



FLORIDA DEPARTMENT OF Environmental Protection

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

Ron DeSantis
Governor

Jeanette Nuñez
Lt. Governor

Noah Valenstein
Secretary

February 12, 2019

Ms. Kimberly A. Byer
Director, Solid Waste Management Division
Hillsborough County Public Works Department
332 North Falkenburg Road
Tampa, Florida, 33619
byerk@hillsboroughcounty.org

Re: Hillsborough Southeast County Landfill
Detailed Closure Cost Estimate Approval
Permit No. 35435-022-SO/01, Hillsborough County
WACS No: 41193

Dear Ms. Byer:

This letter is to acknowledge receipt of the subject facility's recalculated detailed closure and long-term care cost estimates dated November 2, 2018 and received November 9, 2018 as Section 1 of the Five-Year Submittal for the referenced permit. These cost estimates were prepared by SCS Engineers for the Hillsborough County Transportation and Utility Services, Solid Waste Division. 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 November 9, 2018 are **APPROVED for 2019:**

Phases I-VI and Waste Tire Site

Closing – \$20,195,880.35
Annual Long-term care – \$1,251,311.97
Total Long-term care – \$37,539,359.05 for 30 years

Sections 7,8, and 9

Closing – \$5,014,323.69
Annual Long-term care – \$185,650.09
Total Long-term care – \$5,569,502.78 for 30 years

The next annual cost estimate update is due between January 1 and March 1, 2020.

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 Tor Bejnar at (850)

245-8743 or Tor.Bejnar@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) 850-245-8742.

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=41193

Sincerely,



Philip J. Ciaravella
Solid Waste Section
Permitting and Compliance Assistance Program

Enclosure: Cost Estimate Forms for Phases I-VI and Waste Tire Site and Sections 7,8, and 9

cc:	Kollan L. Spradlin, P.E., SCS Engineers	KSpradlin@scsengineers.com
	Cory D. Dilmore, P.E.	Cory.Dilmore@dep.state.fl.us
	Steve Morgan	Steve.Morgan@dep.state.fl.us
	DEP Financial Assurance	
	Oculus File	



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

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hillsborough County Southeast Landfill - Phases I-VI SWD/29/4119 WACS ID: SWD/29/41193
 Permit Application or Consent Order No.: 35435-022-SO/01 Expiration Date: 11/07/2023
 Facility Address: 15960 CR 672 Lithia, FL 33547 (8.8 miles east of U.S. 301 on County Road 672)
 Permittee or Owner/Operator: Hillsborough County Solid Waste Management Division
 Mailing Address: P.O. Box 1110, Tampa, FL 33601

Latitude: 27 ° 46 ' 26 " Longitude: 82 ° 11 ' 01 "
 Coordinate Method: AutoCAD Survey Datum: NAD 83
 Collected by: SCS Engineers Company/Affiliation SCS Engineers

Solid Waste Disposal Units Included in Estimate: ** Remaining life from 2018 Remaining Capacity Report dated 8/23/2018

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Phases I-VI	162.4	1984	56 Years	20.9 years**	N/A	N/A
Waste Tire Site	9,645 tn	N/A	N/A	N/A	N/A	N/A

Total disposal unit acreage included in this estimate: Closure: 162.4 Long-Term Care: 162.4

Facility type: ☒ Class I ☐ Class III ☐ C&D Debris Disposal
 (Check all that apply) ☐ Other: _____

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

- ☐ Letter of Credit* ☐ Insurance Certificate ☐ Escrow Account
☐ Performance Bond* ☒ Financial Test ☐ Form 29 (FA Deferral)
☐ Guarantee Bond* ☐ Trust Fund Agreement

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

Northwest District
160 Government Center
Pensacola, FL 32502-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-807-3300

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

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL 33637
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
239-332-6975

Southeast District
400 N. Congress Ave., Ste. 200
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, (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 adjustment 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 Department approved closing cost estimate dated: _____

Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Closing 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:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____	× _____	= _____

Number of Years of Long Term Care Remaining:	×	_____
--	---	-------

Inflation Adjusted Long-Term Care Cost Estimate:	=	_____
--	---	-------

Signature by: ☐ Owner/Operator ☐ Engineer (check what applies)

Signature

Address

Name & Title

City, State, Zip Code

Date

E-Mail Address

Telephone Number

IV. ESTIMATED CLOSING COST (check what applies)

☒ **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 exp

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.

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA			
Subtotal Proposed Monitoring Wells:				
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY			
Placement and Spreading	CY			
Compaction	CY			
On Off-Site Material (Installed Cost)	CY	73,985	\$5.83	\$431,332.55
Delivery	CY			
Subtotal Slope and Fill:				\$431,332.55
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	845,548	\$5.22	\$4,413,760.56
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY	845,548	\$5.85	\$4,946,455.80
Geo-composite				
Subtotal Cover Material:				\$9,360,216.36
4. Top Soil Cover:				
On Off-Site Material (Installed Cost)	CY	591,884	\$5.47	\$3,237,605.48
Delivery	CY			
Spread	CY			
Subtotal Top Soil Cover:				\$3,237,605.48
5. Vegetative Layer				
Sodding	SY	399,300	\$3.32	\$1,325,676.00
Hydroseeding	AC	83.9	\$1,233.62	\$103,500.72
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$1,429,176.72
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches	LF			
Berms	LF CY	58,378	\$5.83	\$340,343.74
Control Structures	EA			
Other (explain)	LS	1	\$1,095,694.00	\$1,095,694.00
See Explanation (Part 3)				
Subtotal Stormwater Control System:				\$1,436,037.74

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	_____	_____	_____
Pipe and Fittings	LF	_____	_____	_____
Monitoring Probes	EA	_____	_____	_____
NSPS/Title V requirements	LS	<u>1</u>	_____	_____
Subtotal Passive Gas Control:				_____
8. Active Gas Extraction Control:				
Traps	EA	_____	_____	_____
Sumps	EA	_____	_____	_____
Flare Assembly	EA	_____	_____	_____
Flame Arrestor	EA	_____	_____	_____
Mist Eliminator	EA	_____	_____	_____
Flow Meter	EA	_____	_____	_____
Blowers	EA	_____	_____	_____
Collection System	LF	_____	_____	_____
Other (explain) _____	_____	_____	_____	_____
Subtotal Active Gas Extraction Control:				_____
9. Security System:				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	<u>1</u>	<u>\$2,000.00</u>	<u>\$2,000.00</u>
Subtotal Security System:				<u>\$2,000.00</u>
10. Engineering:				
Closure Plan Report	LS	<u>1</u>	<u>\$778,410.44</u>	<u>\$778,410.44</u>
Certified Engineering Drawings	LS	<u>1</u>	_____	_____
NSPS/Title V Air Permit	LS	<u>1</u>	_____	_____
Final Survey	LS	<u>1</u>	<u>\$41,239.21</u>	<u>\$41,239.21</u>
Certification of Closure	LS	<u>1</u>	_____	_____
Other (explain) _____	LS	<u>1</u>	<u>\$7,500.00</u>	<u>\$7,500.00</u>
Permit Fee per chapter 62-701			Subtotal Engineering:	<u>\$827,149.65</u>

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	<u>1,440</u>	<u>\$143.91</u>	<u>1,440</u>	<u>\$143.91</u>	<u>\$414,460.80</u>
On-Site Engineer	_____	_____	<u>720</u>	<u>\$73.74</u>	<u>\$53,092.80</u>
Office Engineer	<u>1,440</u>	<u>\$92.79</u>	<u>720</u>	<u>\$92.79</u>	<u>\$200,426.40</u>
On-Site Technician	_____	_____	<u>6,912</u>	<u>\$55.00</u>	<u>\$380,160.00</u>
Other (explain) _____	<u>2,880</u>	<u>\$76.00</u>	_____	_____	<u>\$218,880.00</u>
Admin. Asst./Designer	_____	_____	_____	_____	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	<u>1</u>	<u>\$250,000.00</u>	<u>\$250,000.00</u>
Subtotal Professional Services:				<u>\$1,517,020.00</u>

Subtotal of 1-11 Above: \$18,240,538.50

12. Contingency 5 % of Subtotal of 1-11 Above \$912,026.92
Subtotal Contingency: \$912,026.92

Estimated Closing Cost Subtotal: \$19,152,565.42

Description	Total Cost
13. Site Specific Costs	
Mobilization	<u>\$836,175.93</u>
Waste Tire Facility	<u>\$207,139.00</u>
Materials Recovery Facility	<u> </u>
Special Wastes	<u> </u>
Leachate Management System Modification	<u> </u>
Other (explain) <u> </u>	<u> </u>
<u> </u>	<u> </u>
Subtotal Site Specific Costs:	<u>\$1,043,314.93</u>

TOTAL ESTIMATED CLOSING COSTS (\$): \$20,195,880.35

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.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	12	\$450.00	\$10,800.00
Annually	1			
Subtotal Groundwater Monitoring:				\$10,800.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	2	\$450.00	\$1,800.00
Annually	1			
Subtotal Surface Water Monitoring:				\$1,800.00
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4	1	\$1,565.00	\$6,260.00
Semi-Annually	2			
Annually	1			
Subtotal Gas Monitoring:				\$6,260.00
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:				

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF			
Sumps, Traps	EA	1	\$750.00	\$750.00
Lift Stations	EA	1	\$750.00	\$750.00
Cleaning	LS	1	\$1,800.00	\$1,800.00
Tanks	EA	1	\$4,500.00	\$4,500.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY	_____	_____	_____
Sludge Removal	CY	_____	_____	_____
<u>Aeration Systems</u>				
Floating Aerators	EA	_____	_____	_____
Spray Aerators	EA	_____	_____	_____
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1000 gallon	<u>24,693</u>	<u>\$34.40</u>	<u>\$849,439.20</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$857,239.20</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Replacement	EA	_____	_____	_____
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$500.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	<u>1</u>	<u>\$5,000.00</u>	<u>\$5,000.00</u>
Blowers	EA	<u>1</u>	<u>\$1,200.00</u>	<u>\$1,200.00</u>
Flaring Units	EA	<u>1</u>	<u>\$400.00</u>	<u>\$400.00</u>
Meters, Valves	EA	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Compressors	EA	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Flame Arrestors	EA	<u>1</u>	<u>\$1,200.00</u>	<u>\$1,200.00</u>
Operation	LS	<u>1</u>	_____	_____
Subtotal Gas System Maintenance:				<u>\$8,800.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>166.4</u>	<u>\$264.84</u>	<u>\$44,069.38</u>
Fertilizer	AC	<u>166.4</u>	<u>\$132.42</u>	<u>\$22,034.69</u>
Subtotal Landscape Maintenance:				<u>\$66,104.06</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>13.807</u>	<u>\$3.32</u>	<u>\$45,839.24</u>
Regrading	AC	<u>2.85</u>	<u>\$3,726.80</u>	<u>\$10,621.38</u>
Liner Repair	SY	<u>1.255</u>	<u>\$16.00</u>	<u>\$20,080.00</u>
Clay	CY	<u>2.092</u>	<u>\$5.47</u>	<u>\$11,443.24</u>
Subtotal Erosion Control and Cover Maintenance:				<u>\$87,983.86</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$10,076.00</u>	<u>\$10,076.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$10,076.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$500.00</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	<u>1</u>	<u>\$3,000.00</u>	<u>\$3,000.00</u>
			Subtotal Utilities:	<u>\$3,000.00</u>
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	<u> </u>	<u> </u>	<u> </u>
On-Site Engineer	HR	<u> </u>	<u> </u>	<u> </u>
Office Engineer	HR	<u> </u>	<u> </u>	<u> </u>
OnSite Technician	HR	<u>96</u>	<u>\$55.00</u>	<u>\$5,280.00</u>
Materials	LS	<u>1</u>	<u>\$1,000.00</u>	<u>\$1,000.00</u>
			Subtotal Leachate Collection/Treatment Systems Operation:	<u>\$6,280.00</u>
14. Administrative				
P.E. Supervisor	HR	<u>16</u>	<u>\$143.91</u>	<u>\$2,302.56</u>
On-Site Engineer	HR	<u> </u>	<u> </u>	<u> </u>
Office Engineer	HR	<u> </u>	<u> </u>	<u> </u>
OnSite Technician	HR	<u>96</u>	<u>\$55.00</u>	<u>\$5,280.00</u>
Other <u>(1 full time treatment</u>	<u>HR</u>	<u>4,160</u>	<u>\$30.00</u>	<u>\$124,800.00</u>
<u>plant operator & 2 part time laborers)</u>			Subtotal Administrative:	<u>\$132,382.56</u>
			Subtotal of 1-14 Above:	<u>\$1,191,725.68</u>
15. Contingency	<u>5</u>	% of Subtotal of 1-14 Above		<u>\$59,586.28</u>
			Subtotal Contingency:	<u>\$59,586.28</u>

ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$1,251,311.97

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$37,539,359.05

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.

Kollan L. Spradlin
Signature

3922 Coconut Palm Drive, Ste. 102
Mailing Address

Kollan L. Spradlin, Project Professional
Name and Title (please type)

Tampa, FL 33619
City, State, Zip Code

11/2/2014
Date

kspradlin@scsengineers.com
E-Mail address (if available)

FL PE #82852

Florida Registration Number
(please affix seal) No. 82852

813-621-0080
Telephone Number



VII. SIGNATURE BY OWNER/OPERATOR

Kimberly A. Byer
Signature of Applicant

332 N. Falkenburg Road
Mailing Address

Kimberly A. Byer, SWMD Director
Name and Title (please type)

Tampa, FL 33619
City, State, Zip Code

ByerK@HillsboroughCounty.org
E-Mail address (if available)

813-612-7718 Ext. 43131
Telephone Number



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

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hillsborough County Southeast Landfill - CEA WACS ID: SWD/29/41193
 Permit Application or Consent Order No.: 35435-022-SO/01 Expiration Date: 11/07/2023
 Facility Address: 15960 CR 672 Lithia, FL 33547 (8.8 miles east of U.S. 301 on County Road 672)
 Permittee or Owner/Operator: Hillsborough County Solid Waste Management Division
 Mailing Address: P.O. Box 1110, Tampa, FL 33601

Latitude: 27 ° 46 ' 38 " Longitude: 82 ° 10 ' 38 "
 Coordinate Method: AutoCAD Survey Datum: NAD 83
 Collected by: SCS Engineers Company/Affiliation SCS Engineers

Solid Waste Disposal Units Included in Estimate: ****Remaining life from 2018 Remaining Capacity Report dated 8/23/2018**

Phase / Cell	Acres	Date Unit Began Accepting Waste	Active Life of Unit From Date of Initial Receipt of Waste	If active: Remaining life of unit	If closed: Date last waste received	If closed: Official date of closing
Sections 7, 8, and 9	34.5	1/5/2004	18.5	5.5 years**	N/A	N/A

Total disposal unit acreage included in this estimate: Closure: 34.5 Long-Term Care: 34.5

Facility type: ☒ Class I ☐ Class III ☐ C&D Debris Disposal
 (Check all that apply) ☐ Other: _____

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

- ☐ Letter of Credit* ☐ Insurance Certificate ☐ Escrow Account
☐ Performance Bond* ☒ Financial Test ☐ Form 29 (FA Deferral)
☐ Guarantee Bond* ☐ Trust Fund Agreement

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

Northwest District
160 Government Center
Pensacola, FL 32502-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-807-3300

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

Southwest District
13051 N. Telecom Pky.
Temple Terrace, FL 33637
813-632-7600

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
239-332-6975

Southeast District
400 N. Congress Ave., Ste. 200
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, (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 adjustment 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 Department approved closing cost estimate dated: _____

Latest Department Approved Closing Cost Estimate:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Closing 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:	Current Year Inflation Factor, e.g. 1.02	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____	× _____	= _____
Number of Years of Long Term Care Remaining:		× _____
Inflation Adjusted Long-Term Care Cost Estimate:		= _____

Signature by: ☐ Owner/Operator ☐ Engineer (check what applies)

_____	_____
Name & Title	Address
_____	_____
Date	City, State, Zip Code
_____	_____
Telephone Number	E-Mail Address
_____	_____

IV. ESTIMATED CLOSING COST (check what applies)☒ **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 exp

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.

Description	Unit	Number of Units	Cost / Unit	Total Cost
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA			
Subtotal Proposed Monitoring Wells:				
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY			
Placement and Spreading	CY			
Compaction	CY			
On Off-Site Material (Installed Cost)	CY	16,178	\$5.83	\$94,317.74
Delivery	CY			
Subtotal Slope and Fill:				\$94,317.74
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	184,888	\$5.22	\$965,115.36
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY	184,888	\$5.85	\$1,081,594.80
Geo-Composite				
Subtotal Cover Material:				\$2,046,710.16
4. Top Soil Cover:				
On Off-Site Material (Installed Cost)	CY	129,422	\$5.47	\$707,938.34
Delivery	CY			
Spread	CY			
Subtotal Top Soil Cover:				\$707,938.34
5. Vegetative Layer				
Sodding	SY	109,384	\$3.32	\$363,154.88
Hydroseeding	AC	13.8	\$1,233.62	\$17,023.96
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$380,178.84
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF			
Ditches	LF			
Berms	LF CY	30,293	\$5.83	\$176,608.19
Control Structures	EA			
Other (explain)	LS	1	\$617,194.00	\$617,194.00
See Explanation (Part 3)				
Subtotal Stormwater Control System:				\$793,802.19

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	_____	_____	_____
Pipe and Fittings	LF	_____	_____	_____
Monitoring Probes	EA	_____	_____	_____
NSPS/Title V requirements	LS	<u>1</u>	_____	_____
Subtotal Passive Gas Control:				_____
8. Active Gas Extraction Control:				
Traps	EA	_____	_____	_____
Sumps	EA	_____	_____	_____
Flare Assembly	EA	_____	_____	_____
Flame Arrestor	EA	_____	_____	_____
Mist Eliminator	EA	_____	_____	_____
Flow Meter	EA	_____	_____	_____
Blowers	EA	_____	_____	_____
Collection System	LF	_____	_____	_____
Other (explain) _____	_____	_____	_____	_____
Subtotal Active Gas Extraction Control:				_____
9. Security System:				
Fencing	LF	_____	_____	_____
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	<u>1</u>	<u>\$2,000.00</u>	<u>\$2,000.00</u>
Subtotal Security System:				<u>\$2,000.00</u>
10. Engineering:				
Closure Plan Report	LS	<u>1</u>	<u>\$165,117.36</u>	<u>\$165,117.36</u>
Certified Engineering Drawings	LS	<u>1</u>	_____	_____
NSPS/Title V Air Permit	LS	<u>1</u>	_____	_____
Final Survey	LS	<u>1</u>	<u>\$8,760.79</u>	<u>\$8,760.79</u>
Certification of Closure	LS	<u>1</u>	_____	_____
Other (explain) _____	LS	<u>1</u>	<u>\$7,500.00</u>	<u>\$7,500.00</u>
Permit Fee per chapter 62-701			Subtotal Engineering:	<u>\$181,378.15</u>

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	<u>480</u>	<u>\$143.91</u>	<u>480</u>	<u>\$143.91</u>	<u>\$138,153.60</u>
On-Site Engineer	_____	_____	<u>240</u>	<u>\$73.74</u>	<u>\$17,697.60</u>
Office Engineer	<u>480</u>	<u>\$92.79</u>	<u>240</u>	<u>\$92.79</u>	<u>\$66,808.80</u>
On-Site Technician	_____	_____	<u>1,152</u>	<u>\$55.00</u>	<u>\$63,360.00</u>
Other (explain) _____	<u>960</u>	<u>\$76.00</u>	_____	_____	<u>\$72,960.00</u>
Admin. Asst./Designer	_____	_____	_____	_____	_____

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	<u>1</u>	<u>\$50,000.00</u>	<u>\$50,000.00</u>
Subtotal Professional Services:				<u>\$408,980.00</u>

Subtotal of 1-11 Above: \$4,615,305.42

12. Contingency	<u>5</u>	% of Subtotal of 1-11 Above	<u>\$230,765.27</u>
		Subtotal Contingency:	<u>\$230,765.27</u>

Estimated Closing Cost Subtotal: \$4,846,070.69

Description	Total Cost
13. Site Specific Costs	
Mobilization	\$168,253.00
Waste Tire Facility	
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain) _____	
Subtotal Site Specific Costs:	\$168,253.00

TOTAL ESTIMATED CLOSING COSTS (\$): \$5,014,323.69

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.

Description	Sampling Frequency (Events / Year)	Number of Wells	(Cost / Well) / Event	Annual Cost
1. Groundwater Monitoring [62-701.510(6), and (8)(a)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	8	\$450.00	\$7,200.00
Annually	1			
Subtotal Groundwater Monitoring:				\$7,200.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12			
Quarterly	4			
Semi-Annually	2	2	\$450.00	\$1,800.00
Annually	1			
Subtotal Surface Water Monitoring:				\$1,800.00
3. Gas Monitoring [62-701.400(10)]				
Monthly	12			
Quarterly	4	1	\$1,565.00	\$6,260.00
Semi-Annually	2			
Annually	1			
Subtotal Gas Monitoring:				\$6,260.00
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:				

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. Leachate Collection/Treatment Systems Maintenance				
<u>Maintenance</u>				
Collection Pipes	LF			
Sumps, Traps	EA	1	\$750.00	\$750.00
Lift Stations	EA	1	\$750.00	\$750.00
Cleaning	LS	1	\$1,800.00	\$1,800.00
Tanks	EA	1	\$4,500.00	\$4,500.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)				
<u>Impoundments</u>				
Liner Repair	SY	_____	_____	_____
Sludge Removal	CY	_____	_____	_____
<u>Aeration Systems</u>				
Floating Aerators	EA	_____	_____	_____
Spray Aerators	EA	_____	_____	_____
<u>Disposal</u>				
Off-site (Includes transportation and disposal)	1000 gallon	<u>1,936</u>	<u>\$34.40</u>	<u>\$66,598.40</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$74,398.40</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Replacement	EA	_____	_____	_____
Abandonment	EA	_____	_____	_____
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$500.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	_____	_____	_____
Blowers	EA	_____	_____	_____
Flaring Units	EA	_____	_____	_____
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	<u>1</u>	<u>\$19,200.00</u>	<u>\$19,200.00</u>
Subtotal Gas System Maintenance:				<u>\$19,200.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>36.4</u>	<u>\$264.84</u>	<u>\$9,640.18</u>
Fertilizer	AC	<u>36.4</u>	<u>\$132.42</u>	<u>\$4,820.09</u>
Subtotal Landscape Maintenance:				<u>\$14,460.26</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	<u>2,930</u>	<u>\$3.32</u>	<u>\$9,727.60</u>
Regrading	AC	<u>0.61</u>	<u>\$3,725.80</u>	<u>\$2,272.74</u>
Liner Repair	SY	<u>266</u>	<u>\$16.00</u>	<u>\$4,256.00</u>
Clay	CY	<u>444</u>	<u>\$5.47</u>	<u>\$2,428.68</u>
Subtotal Erosion Control and Cover Maintenance:				<u>\$18,685.02</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$3,072.00</u>	<u>\$3,072.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$3,072.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$500.00</u>	<u>\$500.00</u>
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$500.00</u>

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.

Kollan L. Spradlin
Signature

3922 Coconut Palm Drive, Ste. 102
Mailing Address

Kollan L. Spradlin, Project Professional
Name and Title (please type)

Tampa, FL 33619
City, State, Zip Code

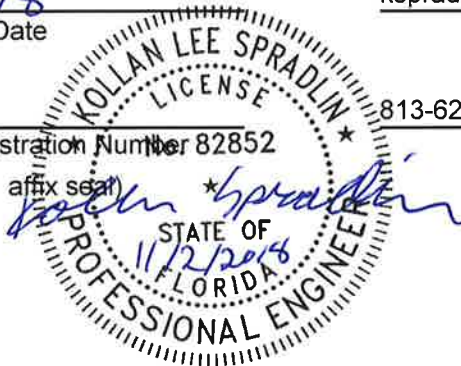
11/2/2018
Date

kspradlin@scsengineers.com
E-Mail address (if available)

FL PE #82852

Florida Registration Number 82852
(please affix seal)

813-621-0080
Telephone Number



VII. SIGNATURE BY OWNER/OPERATOR

Kimberly A. Byer
Signature of Applicant

332 N. Falkenburg Road
Mailing Address

Kimberly A. Byer, SWMD Director
Name and Title (please type)

Tampa, FL 33619
City, State, Zip Code

ByerK@HillsboroughCounty.org
E-Mail address (if available)

813-612-7718 Ext. 43131
Telephone Number