

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

September 13, 2018

Transmitted via e-mail to: rsigmond@pascocountyfl.net

Mr. Robert Sigmond Pasco County Utilities 19420 Central Blvd., Suite 219 Land O' Lakes, FL 34637

RE:

West Pasco Class I Landfill

Pasco County

Recalculated Closing and

Long-Term Care (LTC) Cost Estimates Approval

Site Certification No.: PA87-23

WACS No: 45799

Dear Mr. Sigmond:

This letter is to acknowledge receipt of the subject facility's recalculated closing and LTC cost estimates dated August 27, 2018, and received August 31, 2018. The cost estimates were prepared by JMG Engineering, Inc., for the West Pasco Class I Landfill. The cost estimates provided closing and LTC costs for Cells A1, A2, A3, and A4 comprising 50 acres and for Cells SW1 and SW2 comprising 20 acres. The recalculated estimates were submitted to comply with Rule 62-701.630(4)(a), Florida Administrative Code, (F.A.C.). The following cost estimates received in the referenced document are **APPROVED for 2018:**

<u>.</u>	Cells A1, A2, A3, and A4	Cells SW1 and SW2
Size	50 acres	20 acres
Closing Cost	\$10,921,326.98	\$5,478,519.44
Annual Long-Term Care Cost	\$320,962.95	\$228,151.57
Total Long-Term Care Cost (30 years)	\$9,628,888.50	\$6,844,547.10

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 contact Susan Eldredge at

Mr. Robert Sigmond September 13, 2018 Page 2

(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.

Most information received or sent by the Department is public record and is placed in OCULUS, an electronic database. You may 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=45

If you have any questions, you may contact me at (850) 245-8735.

Sincerely,

Joe Dertien, P.E. Solid Waste Section

Permitting and Compliance Assistance Program

Attachment: West Pasco Class I Landfill, Financial Assurance Closure and Long-Term Care Estimates, Disposal Cells A1, A2, A3, A4, SW1, and SW2, June 2018 (signed 8/27/18).

cc:

Jason Gorrie, P.E., JMG Engineering, Inc. jason@jmg-eng.com
Melissa Madden, FDEP Southwest District, Melissa.Madden@floridadep.gov
Steve Morgan, FDEP Southwest District, Steve.Morgan@floridadep.gov
Cory Dilmore, P.E., FDEP PCAP, Cory.Dilmore@dep.state.fl.us
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) FAC

Form Title: Closure Cost Estimating Form For Solid Waste Facilities

Effective Date: January 6, 2010

Incorporated in Rule 62-701 630(3) FA C

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

acility Name: West Pasco (WACS ID: 457.99			
ermit Application or Consent (Expira	tion Date:		
acility Address: 14230 Hays							
ermittee or Owner/Operator:	Pasco C	ounty Utilities					
ailing Address: same							
atitude: 28°	22'	30 "	Longitude:	82°	34'	00 "	
pordinate Method:			Datum:		_		
ollected by:			Company/Affiliation:				
olid Waste Disposal Units Incl	yded in Es	timate:					
		Date Unit	Active Life of		If closed:	If closed	
		Began	Unit From Date	If active:	Date last	Official	
51		Accepting	of Initial Receipt	Remaining	waste	date of	
Phase / Cell	Acres	Waste	of Waste	life of unit	received	closing	
A1	10	Feb 1991	5.75				
A2 10		Dec 1996	6.50				
A3	10	May 2003	0.8				
A4	20	Jul 2011	6.83	11			
otal disposal unit acreage incl	uded in this	e estimate:	Closure: 50	Lor	g-Term Care:	50	
otal disposal unit acreage mer	daca iii tiii.	o Collinate.	0103d1C. <u>30</u>		ig reim care	30	
Facility type:	Class I		Class III	C&D Debris	Disposal		
(Check all that apply)			Diass III	Cab Debits	Disposal		
(Check all that apply)	Other. –						
TYPE OF FINANCIAL ACC	UDANOE	OCUMENT.	arian .				
TYPE OF FINANCIAL ASS	URANCE			×			
□ Letter of Credit*			nce Certificate		row Account		
	□ Performance Bond*			□ For	m 29 (FA Def	erral)	
□ Performance Bond □ Guarantee Bond*		☐ Financ	und Agreement			•	

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

7825 Baymeadows Way, Ste. B200 3319 Maguire BMd, Ste. 232 13051 N. Telecom Pky 2295 Victoria Ave., Ste. 364
Jacksonvile, Ft. 32256-7590 Orlando, Ft. 32803-3787 Temple Terrace, Ft. 33637 Fort Myers, Ft. 33901-3881
904-807-3300 407-894-7555 813-632-7600 239-332-6975

400 N. Congress Ave., Ste. 200 West Palm Beach, FL 33401 561-681-6600

111.	ESTIM	ATE	AD.II	ISTM	IENT

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 closin	g cost estimate date	ed:		
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 D	epartment approved long-t	erm care cost estima	ate 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 Lo	ng Term Care Remaining:		×		
Inflation Adjusted Lo	ng-Term Care Cost Estim	ate:	=		
Signature by:	Owner/Operator	Ճ Engineer	(check what a	applies)	
		238 Eas	t Davis Blvd., St	uite 206	
Signatur	е			Address	
ason Gorrie, President		Tampa,	FL 33606		
Name & T	itle		City, S	tate, Zip Code	
6/2/2018		jason@jmg-eng.com			
Date			E-M	ail Address	
813) 605-0706					
Telephone Nu	ımber				

IV. ESTIMATED CLOSING COST (check what applies)

X 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.

	2/4		Number		
	scription	Unit	of Units	Cost / Unit	Total Cos
1.	Proposed Monitoring Wells		ude wells already	y in existence.)	
		EA	0	\$0.00	
			Subtotal F	Proposed Monitoring Wells:	
2. 3	Slope and Fill (bedding layer	between wast	e and barrier lay	er):	
	Excavation	CY			
	Placement and Spreading	CY	88,935	\$4.50	\$400,207.50
	Compaction	CY	88,935	\$0.52	\$46,246.20
	Off-Site Material	CY			7.7,2.70,20
	Delivery	CY	88,935	\$12.90	\$1,147,261.5
				Subtotal Slope and Fill:	\$1,593,715.2
. (Cover Material (Barrier Layer)	:			\$1,090,710.2
	Off-Site Clay	CY			
	Synthetics - 40 mil	SY	254,100	\$5.50	\$1 207 550 0
	Synthetics - GCL	SY			\$1,397,550.0
	Synthetics - Geonet	SY		-	
	Synthetics - Other (explain)	SY	254,100	\$7.50	£1 005 750 0
	Geocomposite		-	Subtotal Cover Material:	\$1,905,750.0
. 1	op Soil Cover:			- abtotal bover Material.	\$3,303,300.0
	Off-Site Material	CY			
	Delivery	CY	177,870	\$12.90	00 004 500 0
	Spread	CY	177,870	\$5.00	\$2,294,523.00
				Subtotal Top Soil Cover:	\$889,350.00
. v	egetative Layer			Subtotal Top Soil Cover.	\$3,183,873.00
	Sodding	SY	266,805	00.75	المارة والمارية
	Hydroseeding	AC		\$2.75	\$733,713.75
	Fertilizer	AC		-	
	Mulch	AC	-		
	Other (explain)	7.0			
	, , ,		_	Cubtotal Vacatation I ame	10000
S	tormwater Control System:			Subtotal Vegetative Layer:	\$733,713.75
	Earthwork	CY	73,680	05.45	
	Grading	SY	10,000	\$5.45	\$401,556.00
	Piping	LF	3,800	-	316.75
	Ditches	LF	0,000	\$11.80	\$44,840.00
	Berms	LF	-		
	Control Structures		10		
	Other (explain)	EA	10 200	\$22,625.00	\$226,250.00
		CY	10,298	\$4.08	\$42,015.84
	pipe trenches		Subtotal St	tormwater Control System:	\$714,661.84

Description		Unit		umber f Units		Cost / Unit	Total Cos
7. Passive Gas Contro	ol:			0.000		- Jan Gan	i otal oos
Wells		EA					
Pipe and Fittings		LF					
Monitoring Probes		EA					
NSPS/Title V requ	irements	LS		1			
					Subtota	al Passive Gas Control:	
8. Active Gas Extraction	on Control:						
Traps		EA					
Sumps		EA					
Flare Assembly		EA					
Flame Arrestor		EA					
Mist Eliminator		EA					
Flow Meter		EA	- 4				
Blowers		EA					
Collection System		LF					
Other (explain)							
Consider Contains			S	ubtotal	Active (Gas Extraction Control:	
). Security System:							
Fencing		LF	-		٠.		
Gate(s)		EA	-				
Sign(s)		EA	-	1		\$2,000.00	\$2,000.00
0. Engineering:					Sui	ototal Security System:	\$2,000.00
Closure Plan Repo	ort	LS		1		2420 000 00	
Certified Engineering		LS	-	1		\$120,000.00	\$120,000.00
NSPS/Title V Air P	-	LS	-			\$275,000.00	\$275,000.00
Final Survey	Cirriic	LS	-	1		*********	
Certification of Clos	sure	LS	-	1	-	\$20,000.00	\$20,000.00
Other (explain)	5410	LO	-		-	\$5,000.00	\$5,000.00
-					-	Subtotal Engineering:	\$420,000.00
Description	Hours	0	ost / Hour		Hours	Cost / Hour	Total Cost
1. Professional Servic			oot/ nou		Hours	COSt/ Hour	Total Cost
	Contract	Manager	ment		Quali	ty Assurance	
P.E. Supervisor	640		\$150.00		640	\$150.00	\$192,000.00
On-Site Engineer					640	\$125.00	\$80,000.00
Office Engineer	320		\$125.00		320	\$125.00	\$80,000.00
On-Site Technician						\$90.00	\$00,000.00
Other (explain)	960		\$50.00			-	\$40 000 00
Admin Assistant							\$48,000.00
			Nu	ımber			
escription		Unit		Units	C	ost / Unit	Total Cost
Quality Assurance	Testing	LS		1		\$50,000.00	\$50,000.00
					_	Professional Services:	

	Subtotal of 1-11 Above:	\$10,401,263.79
12.	Contingency 5 % of Subtotal of 1-11 Above	\$520,063.19
	Subtotal Contingency:	\$520,063.19
	Estimated Closing Cost Subtotal:	\$10,921,326.98
	Description	Total Cost
13.	Site Specific Costs	Total Goot
	Mobilization	
	Waste Tire Facility	
	Materials Recovery Facility	
	Special Wastes	
	Leachate Management System Modification	
	Other (explain)	
	Subtotal Site Specific Costs:	
	TOTAL ESTIMATED CLOSING COSTS (\$):	\$10,921,326.98

Description (Events / Year) Wells	Other" and provide years remaining. This is a second of the second of t
Check Term Length 5 Years 20 Years X 30 Years Other, Year Notes: 1. Cost estimates must be certified by a professional engineer. 2. Cost estimates based on third party suppliers of material, equipmen 3. In some cases, a price quote in support of individual item estimates	nt and labor at fair market value.
Notes: 1. Cost estimates must be certified by a professional engineer. 2. Cost estimates based on third party suppliers of material, equipmen 3. In some cases, a price quote in support of individual item estimates All items must be addressed. Attach a detailed explanation for all entries left bis Sampling Frequency Number of (Cost Description 1. Groundwater Monitoring [62-701.510(6), and (8)(a)] Monthly Quarterly Semi-Annually 2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly Quarterly 4. Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly Quarterly 4. Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly Quarterly 4. Subtotal Surface Water Monitoring [62-701.400(10)] Monthly 12. Subtotal Surface Water Water Monitoring [62-701.400(10)] Monthly 13. Gas Monitoring [62-701.400(10)] Monthly 14. Subtotal Surface Water W	nt and labor at fair market value.
2. Cost estimates based on third party suppliers of material, equipmen 3. In some cases, a price quote in support of individual item estimates All items must be addressed. Attach a detailed explanation for all entries left bis Sampling Frequency Number of (Cost (Events / Year)) 1. Groundwater Monitoring [62-701.510(6), and (8)(a)] Monthly 12 Quarterly 4 Semi-Annually 2 20 Supplied Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 12 Quarterly 4 Semi-Annually 2 Annually 1 Subtotal Surface Water Monitoring [62-701.400(10)] Monthly 12 Quarterly 4 Semi-Annually 2 Annually 1 Subtotal Surface Water Water Monitoring [62-701.400(10)] Monthly 12 Quarterly 4 Subtotal Surface Water	may be required.
3. In some cases, a price quote in support of individual item estimates All items must be addressed. Attach a detailed explanation for all entries left black Sampling Frequency Description 1. Groundwater Monitoring [62-701.510(6), and (8)(a)] Monthly 12 Quarterly 4 Semi-Annually 1 Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 12 Quarterly 4 Semi-Annually 12 Quarterly 5 Semi-Annually 12 Quarterly 5 Semi-Annually 12 Quarterly 13 Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 13 Subtotal Surface Water Monitoring [62-701.400(10)] Monthly 14 Quarterly 15 Subtotal Surface Water Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	may be required.
Sampling Frequency Description 1. Groundwater Monitoring [62-701.510(6), and (8)(a)] Monthly Annually 2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 1 Subtotal Groundwater Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 12 Quarterly 4 Semi-Annually 12 Quarterly 4 Semi-Annually 1 Subtotal Surface Water Water Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 1 Subtotal Surface Water Water Water Monitoring [62-701.400(10)] Monthly 12 Quarterly 4 Subtotal Surface Water Wate	
Sampling Frequency Number of (Cost Description (Events / Year) Wells	
Description Frequency (Events / Year) Number of (Cost Wells	
Description (Events / Year) Wells	st / Well) /
Monthly	Event Annual Cost
Monthly	
Quarterly 4 20 30 50	
Semi-Annually 2 20 3 3 3 3 3 3 3 3 3	
Annually 1 Subtotal Groundw 2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 2 Annually 1 Subtotal Surface W 3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	
2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly 12 Quarterly 4 Semi-Annually 1 Annually 1 Subtotal Groundw Subtotal Groundw Subtotal Groundw Subtotal Groundw Subtotal Groundw Subtotal Groundw	\$350.00 \$14,000.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)] Monthly Quarterly Semi-Annually Annually 1 Subtotal Surface W 3. Gas Monitoring [62-701.400(10)] Monthly Quarterly 4	
Monthly 12 Quarterly 4 Semi-Annually 2 Annually 1 Subtotal Surface W 3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	water Monitoring: \$14,000.00
Quarterly 4 Semi-Annually 2 Annually 1 Subtotal Surface W 3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	
Semi-Annually 2	
Annually 1 Subtotal Surface W 3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	
3. Gas Monitoring [62-701.400(10)] Monthly Quarterly Subtotal Surface W	
3. Gas Monitoring [62-701.400(10)] Monthly 12 Quarterly 4	
Monthly 12 Quarterly 4	rater Monitoring:
Quarterly 4	
Semi-Annually 2 Annually 1	
4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c]	Gas Monitoring:
Monthly 12	
Quarterly 4	
Annually 2 1	
Other (complete) 54	
	\$350.00 \$350.00
TCLP Analysis Subtotal Leach	hate Monitoring: \$350.00
Description Unit Units / Year Cos	
5. Leachate Collection/Treatment Systems Maintenance	st / Unit Annual Cost
Maintenance	
Collection Pipes LF	
Sumps, Traps EA	
Lift Stations EA	
Cleaning	
Tanks FA	9,000.00 \$9,000.00

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
5. (continued)	5	Ollits / Teal	Cost / Unit	Annual Cos
Impoundments				
Liner Repair	SY			
Sludge Removal	CY			
Aeration Systems		-		
Floating Aerators	EA			
Spray Aerators	EA	-		
Disposal	2,1	· · · · · · · · · · · · · · · · · · ·		
Off-site (Includes	1000 gallon	1,286		W. Deer Co.
ransportation and disposal)	rood gallon		\$70.00	\$90,020.00
,		Subtotal Leachat	e Collection / Treatment Systems Maintenance:	
6. Groundwater Monitoring W	ell Maintenance		Systems Maintenance.	\$99,020.00
Monitoring Wells	LF			
Replacement	EA			1277147774
Abandonment	EA		\$150.00	\$3,000.00
		tal Groundwater Monito	oring Well Maintenance:	
7. Gas System Maintenance	Cubio	tal Olounawater Monte	ornig vveir Mairiteriance.	\$3,000.00
Piping, Vents	LF			
Blowers	EA	-		
Flaring Units	EA		-	
Meters, Valves	EA			
Compressors	EA	_		
Flame Arrestors	EA	-		
Operation	LS			
		The second second	s System Maintenance:	
Landscape Maintenance		oubtotal Ga	s System Maintenance.	
Mowing	AC	50	20000	4.00
Fertilizer	AC		\$180.00	\$9,000.00
		Subtotal L	andscape Maintenance:	4.1.6.1.
. Erosion Control and Cover	Maintenance	oubtotal Et	andscape Maintenance.	\$9,000.00
Sodding	SY	11.858		Tues A. L.
Regrading	AC	0.3	\$2.75	\$32,609.50
Liner Repair	SY		\$9.750.00	\$2,925.00
Clay	CY	-		
		total Erosion Control a	nd Cover Maintenance:	
0. Storm Water Management			The Cover Maintenance.	\$35,534.50
Conveyance Maintenance	LS	1	62 450 00	62 450 00
		rm Water Managemen	\$3,150.00 t System Maintenance:	\$3,150.00
1. Security System Maintena	ince		Joseph Maintenance.	\$3,150.00
Fences	LS	_1	04.040.00	10.100 //10
Gate(s)	EA		\$1,210.00	\$1,210.00
Sign(s)	EA		\$40.00	\$80.00
	77.3	Subtotal Security	y System Maintenance:	and the same
		- antotal occurr	your manneriance.	\$1.290.00

			Number of		
	Description	Unit	Units / Year	Cost / Unit	Annual Cos
12.	Utilities	LS	_1_	\$1,640.00	\$1,640.00
				Subtotal Utilities:	\$1,640.00
	Leachate Collection/Trea	tment Systems O	peration		
Ope	eration				
	P.E. Supervisor	HR			
	On-Site Engineer	HR			
	Office Engineer	HR			
	OnSite Technician	HR	2,080	\$35.00	\$72,800.00
	Materials	LS	1		ψ/ 2,000.00
		Subtotal Lea	achate Collection/Treatn	nent Systems Operation:	\$72,800.00
14.	Administrative			,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	ψ12,000.00
	P.E. Supervisor	HR			
	On-Site Engineer	HR		-	12122
	Office Engineer	HR			
	OnSite Technician	HR	2,080	\$25.00	650,000,00
	Other			\$20.00	\$52,000.00
			_	Subtotal Administrative:	\$52,000.00
			5	Subtotal of 1-14 Above:	\$291,784.50
15.	Contingency	10	% of Subtotal of 1-14 A	bove	\$29,178.45
				Subtotal Contingency:	\$29,178.45
_			Number of		
_	escription Site Specific Costs	Unit	Units / Year	Cost / Unit	Annual Cost
ΙΟ.	one opecinic costs				
_					
			Sub	total Site Specific Costs:	
		A	NNUAL LONG-TERM C	ARE COST (\$ / YEAR):_	\$320,962.95
			Number of Ye	ears of Long-Term Care:	30
			TOTAL LONG-	TERM CARE COST (\$):	\$9.628.888.50

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.

Signature

Jason Gorrie

Name and Title (please type)

8/27/2018

M. GO

Social Registration Number

please affix seal)

STATE OF

LORIDA

238 East Davis Blvd., Suite 206

Mailing Address

Tampa, FL 33606

City, State, Zip Code

jason@jmg-eng.com

E-Mail address (if available)

(813) 605-0706

Telephone Number

Signature of Applicant

Mailing Address

Robert Sigmond

VII. SIGNATURE BY OWNER OPE

Name and Title (please type)

Land O' Lakes, FL 34637 City, State, Zip Code

19420 Central Blvd., Suite 219

rsigmond@pascocountyfl.net

E-Mail address (if available)

(813) 235-6196

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

. GENERA	L INFORMATION:			Date of L	EP Approval:		-
acility Nar	me: West Pasco	Class I Lan	dfill - Solid Wa	aste Disposal Cells	V	VACS ID: 45799	
ermit App	lication or Consent	Order No.:	PA§7-23		Expira	tion Date:	
acility Add	dress: 14230 Hay	s Road, Sp	ring Hill, FL 34	4610			
Permittee o	or Owner/Operator:	Pasco C	ounty Utilities				
Mailing Add	dress: same						
_atitude:	28 °	22'	30 "	Longitude:	82°	34'	00 "
Coordinate	Method:			Datum:			
Collected b	y:			Company/Affiliation:			
Solid Wast	e Disposal Units Inc	luded in Es	timate:				
	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
	SW1	10	Jun 1990	14.33			
	SW2	10	Nov 2004	13.50	3		
	OVVZ	1 10	1400 2004		J		
 Γotal dispo	sal unit acreage inc	luded in thi	s estimate:	Closure: 20	Lor	ng-Term Care:	20
	acility type: 💍	Class I Other:		Class III 🗆	C&D Debris	Disposal	
II. TYPE C	OF FINANCIAL ASS	SURANCE I	DOCUMENT (Check type)			
	Letter of Credit*		□ Insurar	nce Certificate	Ď Esc	row Account	
	Performance Bon	d*	□ Financ	ial Test	□ For	m 29 (FA Def	erral)
	Guarantee Bond*		□ Trust F	und Agreement			
	* - Indicates mechanism	ns that require	the use of a Stand	lby Trust Fund Agreemen	t		

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.	ES'	TIM/	\TE	AD.	JUST	MENT	

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	Department approved closin	g cost estimate dat	ed:		
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-t	erm care cost estin	nate 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 L	ong Term Care Remaining:		×		
Inflation Adjusted Lo	ong-Term Care Cost Estim	ate:	=		
Signature by:	Owner/Operator		(check what a	pplies)	
The state of the s		238 Ea	st Davis Blvd., Su	ite 206	
Signatu	ire		,	Address	
ason Gorrie, President		Tampa	FL 33606		
Name & Title			City, St	tate, Zip Code	
4/12/2018		iason@	jmg-eng.com		
Date		jacone		ail Address	
313) 605-0706					
10) 000-0700					

IV. ESTIMATED CLOSING COST (check what applies)

×	Recalculated Cost Estimate	□ New Facility Cost Estimate
		- HOW I WOULD OUSE ESCHILLE

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		
Description	Unit	of Units	Cost / Unit	Total Cos
1. Proposed Monitoring Wells	(Do not incl	ude wells already	y in existence.)	
	EA	0	\$0.00	
		Subtotal F	Proposed Monitoring Wells:	
2. Slope and Fill (bedding layer	between wast	te and barrier lay	er):	
Excavation	CY	<u> </u>	24.1	
Placement and Spreading	CY	35,574	\$4.50	\$160,083.00
Compaction	CY	35,574	\$0.52	\$18,498.48
Off-Site Material	CY	35,574	\$10.00	\$355,740.00
Delivery	CY	35,574	\$4.00	
			Subtotal Slope and Fill:	\$142,296.00
. Cover Material (Barrier Layer)	:		Captotal Clope and I III.	\$676,617.48
Off-Site Clay	CY			
Synthetics - 40 mil	SY	101,640	\$5.50	6550 000 00
Synthetics - GCL	SY	-	\$5.50	\$559,020.00
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY	101,640	\$7.50	6700 000 00
Geocomposite		-	Subtotal Cover Material:	\$762,300.00
. Top Soil Cover:	-		Subtotal Cover Material.	\$1,321,320.00
Off-Site Material	CY	88,935		****
Delivery	CY	88,935	\$10.00	\$889,350.00
Spread	CY	88,935	\$4.00	\$355,740.00
	O1	00,955	\$5.00	\$444,675.00
. Vegetative Layer			Subtotal Top Soil Cover:	\$1,689,765.00
Sodding	SY	101,640	00.75	1 July 2
Hydroseeding	AC	101,010	\$2.75	\$279,510.00
Fertilizer	AC			
Mulch	AC	-		
Other (explain)	70			
(,			0.14.11/	
. Stormwater Control System:			Subtotal Vegetative Layer:	\$279,510.00
Earthwork	CV	29,472		
Grading	CY SY	29,472	\$5.45	\$160,622.40
Piping		2,600		
Ditches	LF	2,000	\$11.80	\$30,680.00
Berms	LF	-		
Control Structures	LF	7		
Other (explain)	EA	7	\$22,625.00	\$158,375.00
	CY	7,046	\$4.08	\$28,747.68
pipe trenches	i,	Subtotal S	tormwater Control System:	\$378,425.08

Description		10.0		Number			
Description 7. Passive Gas Control	at.	Unit		of Units		Cost / Unit	Total Cos
Wells	oi:	5 0					
		EA		-			
Pipe and Fittings		LF		-			
Monitoring Probes		EA					
NSPS/Title V requirements		LS			C., b4-4	-10	
8. Active Gas Extraction Contro					Subtot	al Passive Gas 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		1	Ψ2,000.00		\$2,000.00
10. Engineering:					Su	btotal Security System:	\$2,000.00
Closure Plan Repo	ort	LS		1		\$120,000.00	\$120,000,00
Certified Engineering		LS		1		\$275,000.00	\$120,000.00
NSPS/Title V Air P	ermit	LS		1		ψ270,000.00	\$275,000.00
Final Survey		LS				\$20,000.00	600,000,00
Certification of Clos	sure	LS		1		\$5,000.00	\$20,000.00
Other (explain)						\$5,000.00	\$5,000.00
-						Subtotal Engineering:	\$420,000.00
Description	Hours	С	ost / Ho	our	Hours	Cost / Hour	Total Cost
1. Professional Servic							
	Contract	Manager	ment		Qua	ity Assurance	
P.E. Supervisor	640		\$150.00		640	\$150.00	\$192,000.00
On-Site Engineer					640	\$125.00	\$80,000.00
Office Engineer	320		\$125.00		320	\$125.00	\$80,000.00
On-Site Technician						\$90.00	-11
Other (explain)	960		\$50.00				\$48,000.00
Admin Assistant							\$40,000.00
				Number			
escription		Unit		of Units	(Cost / Unit	Total Cost
Quality Assurance	Testing	LS		_ 1		\$50,000.00	\$50,000.00
				0		Professional Services:	\$450,000.00

	Subtotal of 1-11 Above:	\$5,217,637.56
12.	Contingency5 % of Subtotal of 1-11 Above	\$260,881.88
	Subtotal Contingency:	\$260,881.88
	Estimated Closing Cost Subtotal:	\$5,478,519.44
	Description	Total Cost
13.	Site Specific Costs	
	Mobilization	
	Waste Tire Facility	
	Materials Recovery Facility	
	Special Wastes	
	Leachate Management System Modification	
	Other (explain)	
	Subtotal Site Specific Costs:	
	TOTAL ESTIMATED CLOSING COSTS (\$):	\$5,478,519.44

V. ANNUAL COST FOR See 62-701.600(1)a.1., 62-70		nd 62-701 730(11)h F	A.C. for required term lengt	h For landfille
certified closed and Departm	ent accepted, enter the rema	ining long-term care le	ngth as "Other" and provide	vears remaining
(Check Term Length) 5 Ye	ears 🗆 20 Years 🗀 30	Years Other,	Years	, ·
Notes: 1. Cost e	estimates must be certified by	a professional engine	er.	
2. Cost e	estimates based on third party	suppliers of material,	equipment and labor at fair	market value.
3. In som	ne cases, a price quote in sup	port of individual item	estimates may be required.	
All items must be addres				
	Sampling			
Education of	Frequency	Number of	(Cost / Well) /	
Description	(Events / Year)	Wells	Event	Annual Cos
1. Groundwater Monitori	ng [62 704 640/6) and //	217-12		
Monthly	12	5)(a)]		
Quarterly	4	-		
Semi-Annually	2	9		
Annually	1		\$350.00	\$6,300.00
		Subtotal	Groundwater Monitoring:	\$6,300.00
2. Surface Water Monito	ring [62-701.510(4), and	(8)(b)1	Croundwater Monitoring.	\$6,300.00
Monthly	12			
Quarterly	4			
Semi-Annually	2			
Annually	1			
		Subtotal S	urface Water Monitoring:	
3. Gas Monitoring [62-70	1.400(10)]			
Monthly	12			
Quarterly	4	6	\$20.00	\$480.00
Semi-Annually	2			
Annually	1	-		
4. Loophote Maniterius I	00 704 540/5\ /0//\		Subtotal Gas Monitoring:	\$480.00
 Leachate Monitoring [Monthly 		62-701.510(8)c]		
Quarterly	12			
Semi-Annually	4	-		
Annually	2			
Other (explain) EA	1	1	-	
TCLP Analysis			\$350.00 otal Leachate Monitoring:	\$350.00
TOET / Maryolo			otal Leachate Monitoring:	\$350.00
Description	Unit	Number of Units / Year	Cont / Hait	A
5. Leachate Collection/Tr			Cost / Unit	Annual Cost
Maintenance	- Joseph Mainte			
Collection Pipes	LF			
Sumps, Traps	EA	-		
Lift Stations	EA			

Cleaning

Tanks

\$9,000.00

\$9,000.00

LS

EA

Description	He'A	Number of	AMARINA SA	CASTA TOSAIT.
5. (continued)	Unit	Units / Year	Cost / Unit	Annual Cos
Impoundments	444			
Liner Repair	SY			
Sludge Removal	CY	-		
Aeration Systems				
Floating Aerators	EA			
Spray Aerators	EA			
<u>Disposal</u>				
Off-site (Includes	1000 gallon	514	\$70.00	\$35,980.00
ransportation and disposal)		Subtotal Leachat	e Collection / Treatment	
	Figure 1 and 1 and 1 and 1		Systems Maintenance:	\$44,980.00
6. Groundwater Monitoring W				
Monitoring Wells	LF			
Replacement	EA		\$150.00	\$4,350.00
Abandonment	EA			
	Subto	otal Groundwater Monito	oring Well Maintenance:	\$4,350.00
7. Gas System Maintenance	_			
Piping, Vents	LF LS	6	\$416.67	\$2,500.02
Blowers	EA	_		
Flaring Units	EA			
Meters, Valves	EA			
Compressors	EA			
Flame Arrestors	EA			
Operation	LS	_1_		
. Vicini de la companya de la compan		Subtotal Ga	s System Maintenance:	\$2,500.02
. Landscape Maintenance	100			
Mowing	AC	20	\$180.00	\$3,600.00
Fertilizer	AC			
	1210000000	Subtotal La	andscape Maintenance:	\$3,600.00
. Erosion Control and Cover				
Sodding	SY	5.082	\$2.75	\$13,975.50
Regrading	AC	_0.1	\$9,750.00	\$975.00
Liner Repair	SY			
Clay	CY			
		btotal Erosion Control a	nd Cover Maintenance:	\$14,950.50
Storm Water Management		nce		
Conveyance Maintenance	LS	_1_	\$3,150.00	\$3,150.00
		orm Water Managemen	t System Maintenance:	\$3,150.00
Security System Mainten				
Fences	LS	_1_	\$1,210.00	\$1,210.00
				T. 15.00
Gate(s)	EA	2	\$40.00	\$80.00
	EA EA	2	\$40.00	\$80.00

		19.8	Number of		
	Description	Unit	Units / Year	Cost / Unit	Annual Cos
12.	Utilities	LS	_1_	\$660.00	\$660.00
				Subtotal Utilities:	\$660.00
13.	Leachate Collection/Trea	tment Systems C	Operation		700000
Op	eration				
	P.E. Supervisor	HR			
	On-Site Engineer	HR			
	Office Engineer	HR			
	OnSite Technician	HR	2,080	\$35.00	\$72,800.00
	Materials	LS	1		\$72,800.00
		Subtotal Le	achate Collection/Treatn	nent Systems Operation:	\$72,800.00
14.	Administrative			,	\$72,000.00
	P.E. Supervisor	HR			
	On-Site Engineer	HR	· ·		-
	Office Engineer	HR			
	OnSite Technician	HR	2,080	\$25.00	£50,000,00
	Other			Ψ20.00	\$52,000.00
				Subtotal Administrative:	\$52,000.00
			s	Subtotal of 1-14 Above:	\$207,410.52
15.	Contingency	10	% of Subtotal of 1-14 At	nove	000 744 05
				Subtotal Contingency:	\$20,741.05 \$20,741.05
	nuncia (al est	741.1	Number of		
_	escription	Unit	Units / Year	Cost / Unit	Annual Cost
ь.	Site Specific Costs				
		_	Subt	otal Site Specific Costs:	
		А	NNUAL LONG-TERM C	ARE COST (\$ / YEAR):_	\$228,151.57
			Number of Ye	ars of Long-Term Care:	30
			TOTAL LONG-T	ERM CARE COST (\$):	\$6.844.547.16

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.

Signature

Jason Gorrie

Name and Title (please type)

8/27/2018

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M. Gorric

Solution M.

238 East Davis Blvd., Suite 206
Mailing Address

Tampa, FL 33606
City, State, Zip Code

jason@jmg-eng.com
E-Mail address (if available)

(813) 605-0706
Telephone Number

Signature of Applicant

19420 Central Blvd., Suite 219 Mailing Address

Robert Sigmond

Land O' Lakes, FL 34637

Name and Title (please type)

City, State, Zip Code

rsigmond@pascocountyfl.net

(813) 235-6196

E-Mail address (if available)

Telephone Number