DEP Application	1 No. (Filled by DEP)
Effective Date	05-27-01
Form Title	Financial Assurance Cost Estimate Form
DEP Form #	62-701.900(28)



# Florida Department of Environmental Protection

Twin Towers Office Bldg. • 2600 Blair Stone Road • Tallahassee, FL 32399-2400

### FINANCIAL ASSURANCE COST ESTIMATE FORM

Date:	Decembe	r 10, 2008			Date of FDEP	Approval		
I. GENERAL II	NFORMA	TION:		SK.				
Facility Name:	Citrus Cou	unty Centra	ıl Landfill		WACS or	GMSID #.	: SWD/53/49723	
Permit / Applicat								
Facility Address		State Road	44, 3 miles	east o	f Lecanto			
Permittee:					y Commissione	rs		
Mailing Address	:F	P.O. box 34	10 Lecanto,	FL 34	460			
Latitude: 28 5	51'07"		Longitude:	82 26'	12"	or	UTM:	<del></del>
Solid Waste Dis	sposal Un	its Include	ed in Estim	ate:				Suffer
					Date Unit			18010A
					Began		Design Life of Unit	On The Sea
Phase / Cell		Acres			Accepting Waste		From Date of Initial	Sou C , All The
3		6.65			vvasie	_	Receipt of Waste NA	THE ON TON
2	-	6			Mid- 2005	-	10	TAKET OF COOK CO
1/1A	_	19.1			1991	_	14	SOUTHUE TO TORS THE THE TOTAL TO THE TOTAL THE
Old LF	_	60					Closed	<b>*</b> **
	_					_		
	_					_		
	_							
Total Landfill Ac	reage incl	uded in this	s estimate.		31.2	_Closure	91.2l	ong-Term Care
Type of Landfill:			Class I			_Class III	(	C&D Debris
II. TYPE OF FIR	NANCIAL	ASSURAN	ICE DOCU	MENT	(Check Type)			
Lette	er of Credi	t *	;		_Insurance Cer	tificate		icates iisms that
Perf	ormance E	Bond *	;	Х	_Escrow Accou	ınt	require	use of a Trust Fund
Gua	ranty Bond	d *	,		_Financial Test		50	ement

#### 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 on 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.

Latest Department Approved	Current Year		Inflation Adjusted
Closure Cost Estimate:	Inflation Factor	_	Closure Cost Estimate: \$0.00
This adjustment is based or	n the Department approved long-tern	n care cost estimate	dated:
Latest Department Approved Annual Long-Term Care Cost	Current Year	n care cost estimate	Inflation Adjusted Annual Long-Term Care
Latest Department Approved	Current Year Inflation Factor	n care cost estimate	Inflation Adjusted Annual Long-Term Care Cost Estimate
Latest Department Approved Annual Long-Term Care Cost	Current Year	n care cost estimate	Inflation Adjusted Annual Long-Term Care
Latest Department Approved Annual Long-Term Care Cost Estimate:	Current Year Inflation Factor	en care cost estimate	Inflation Adjusted Annual 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.

& mandett 12/9/08	Susan I Mel calle
Signature of Engineer	Signature of Owner/Operator
Dominique H. Bramlett, P.E., Senior Project Engineer Name & Title (please type)	Susan J. Metcalfe, Director, Div of Solid Waste Mgmt.  Name & Title (please type)
	(352) 527-7671
Florida Registration Number (affix seal)	Telephone Number
SCS Engineers	*
4041 Park Oaks Blvd. Suite 100	
Tampa, Florida 33610	
Mailing Address	•
813-621-0080	•
Telephone Number	

### V. RECALCULATE ESTIMATED CLOSING COST

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

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

DESCR		UNIT	QUANTITY	UNIT COST	TOTAL
1. Propo	osed Monitoring Wells	(Do no	t include wells alrea	ady in existence.)	
		EA			\$0
2. Slope	e and Fill (bedding layer betw	een waste and	barrier layer): N/	A	
147	Fine Grading	SY	169,397	\$0.17	\$28,797
	Placement and Spreading	CY	56,466	\$1.85	\$104,462
	Compaction	CY	56,466	\$0.46	\$25,974
	Off Site Material (12")	CY	56,466	\$4.50	\$254,097
	Delivery	CY			\$0
				Subtotal Slope and Fill:	\$413,000
3. Cove	r Material (Barrier Layer):				
	Off-Site Clay	CY	0.00	\$0.00	\$0
	Synthetics - 40 mil	SF	1,524,573	\$0.58	\$884,252
	Synthetics - GCL	SY	0.00	\$0.00	\$0
	Synthetics - Geonet	SF	1,524,573	\$0.58	\$884,252
	(Geocomposite) Synthetics - Other	SY	0	\$0.00	\$0
			Sul	btotal Barrier Layer Cover: _	\$1,769,000
4. Top S	Soil Cover: (18" protective	e soil + 6" topso	oil)		
	Off-Site Material	CY	112,931	\$4.50	\$508,190
	Delivery +Spread	CY	112,931	\$2.45	\$276,681
	Delivery +Spread	CY			\$0
				Subtotal Top Soil Cover _	\$785,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer		**		
Sodding	SY	169,397	\$2.19	\$370,979
Hydroseeding	AC	0.00	\$0.00	\$0
Fertilizer	AC	0	\$0.00	\$0
Mulch	AC	0.00	\$0.00	\$0
Other	SY	0	\$0.00	\$0
			Subtotal Vegetative Layer:	\$371,000
6. Stormwater Control System:				
Earthwork	CY	4,206	\$4.50	\$18,927
Grading	SY	0	\$0.00	\$0
Piping	LF	4,428	\$12.79	\$56,648
Ditches	LF	0.00	\$0.00	\$0
Berms	LF	5678	\$1.81	\$10,277
Control Structures	EA	14	\$3,608.00	\$50,512
Other	LS	1	\$9,625.00	\$9,625
ž			Subtotal Stormwater Controls:	\$146,000
7. Gas Controls: Passive				
Vents (2 per acre)	EA	70	\$5,307.50	\$371,525
Self -Igniter Flares	EA			\$0
Monitoring Probes	EA	1	\$2,775.00	\$2,775
NSPS/Title V requirements	LS		<u> </u>	\$0
	*		Subtotal Passive Gas Control:	\$374,000

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction	N/A			
Traps	EA	0	\$0.00	\$0
Sump	EA	0	\$0.00	\$0
Flare Assembly	EA	0	\$0.00	\$0
Flame Arrestor	EA	0	\$0.00	\$0
Mist Eliminator	EA	0	\$0.00	\$0
Flow Meter	EA	0	\$0.00	\$0
Blowers	EA	0	\$0.00	\$0
Collection System	LF	0	\$0.00	\$0
Other (describe)		0	\$0.00	\$0
		Sub	total Active Gas Extraction:	\$0
9. Security System	*			
Fencing	LF	0	\$0.00	\$0
Gate(s)	EA	0	\$0.00	\$0
Sign(s)	EA	0	\$0.00	\$0
			Subtotal Security System:	\$0
10. Engineering:				
Closure Plan report	LS	1	<u>\$182,745</u>	\$182,745
Certified Engineer	LS		\$0,00	\$0
NSPS/Title V Air Permi	t LS	1	\$2,553.00	\$2,553
Final Survey	LS	1	\$8,139.00	\$8,139
Certification of Closure	LS	1	\$13,050	\$13,050
Other (detail)	LS		\$0.00	\$0
			Subtotal Engineering:	\$206,000

## 11. Professional Services

_		lanagement		ssurance	TOTAL
-	Hours	LS	Hours	LS	TOTAL
P.E. Supervisor	160	17,920	40	4,480	\$22,400
On-Site Engineer	480	40,800	200	17,000	\$57,800
Office Engineer _	200	17,000	200	17,000	\$34,000
On-site Technician _		-	840	50400	\$50,400
Administrative cost _	60	3,240		-	\$3,240
Reimbursables _		27,639		6,026	\$33,665
DESCRIPTION		UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Te	esting	LS	1	40,000	\$40,000
			Subtotal P	rofessional Servic	es: \$242,000
			Subtotal of	1-11 Above: _	\$4,306,000
12. Contingency	15	% of Total			15.00%
			Closing C	ost Subtotal:	\$4,951,900
					. 8
13. Site Specific Costs (e	explain)				
Mobilization (1	0% of Sub-To	tal 1-11)			\$430,600
Waste Tire Fa	cility			_	\$9,775
Materials Reco	overy Facility			_	\$0
Special Waste	s			_	\$0
Leachate Disp	osal for One	/ear		_	\$24,724
Other (Bonds &	& Insurance 2	% of Sub-Total 1-	11)		\$86,120
			Subtota	Site Specific Cos	sts: \$551,220
			TOTAL CLOS		· · · · · · · · · · · · · · · · · · ·



VI	ANNUAL	COST	FOR L	ONG-	TERM	CARE
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(Check Term Length)

						• /
_	5 years	_ 20 years _	X	30 years	Other	
See 62-701.600(1)a.1., 62-7 landfills certified closed and	X //	X /		,	,	
years remaining.						

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

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

DESCRIPTION	Sampling Frequency (events/yr.)	Number of Wells	\$/Well/Event	\$ / Year
1. Groundwater Monitoring	(62-701.510(6), and (8)	(a))		
Monthly (Gradient)	12			\$0
Quarterly	4		\$0.00	\$0
Semi-Annual	2	14	\$941.79	\$26,370
Annual	1	14	\$422.86	\$5,920
		Subtotal Ground	water Monitoring:	\$32,290
2. Surface Water Monitorin	g (62-701.510(4), and (8	8)(b))		
Monthly	12			\$0
Quarterly	4			\$0
Semi-Annual	2			\$0
Annual	1			\$0
		Subtotal Surface \	Nater Monitoring:	\$0
3. Gas Monitoring				
Monthly	12		\$0.00	\$0.00
Quarterly	4	19	\$56.06	\$4,261
Semi-Annual	2		\$0.00	\$0.00
Annual	1		\$0.00	\$0.00
		Subtota	al Gas Monitoring:	\$4,261

DESCRIPTION	Sampling Frequency Number of (events/yr.) Wells \$/Well/Event		\$/Well/Event	\$/Year
4. Leachate Monitoring (62-7	01.510(5), (6)(b) and 6	62-701.510(8)(c))		
Monthly	12	0	\$0.00	\$0.00
Quarterly	4	3	\$321.43	\$3,857
Semi-Annual	2	0	\$0.00	\$0.00
Annual	1	1	\$1,064	\$1,064
Weekly	52	0	\$0.00	\$0.00
		Subtotal Lea	chate Monitoring:	\$4,921
DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COS
Maintenance  Collection Pipes	LS	1.0	\$7,150	\$7,150
Sumps, Traps	EA	0	\$0.00	\$0.00
Lift Stations	EA	10	\$275	\$2,750
Cleaning	LS	0	\$0.00	\$0.00
Tanks	EA	4	\$625	\$2,500
Impoundments				
Liner Repair	SY	0	\$0.00	\$0_
Sludge Removal	CY			\$0
Treatment Systems	CY	0	\$0.00	\$0
Batch Plant	EA	0	\$0.00	\$0
Spray Aerators	EA	0	\$0.00	\$0
Disposal				
On-site Impoundment	1000 gallon	432	\$57.23	\$24,730

# 6. Leachate Collection/Treatment Systems Administrative:

Operation			Hours	\$/Hour	Total
	Ops.Supervisor	HR	96	\$95.00	\$9,120
	(1 day per month for report On-Site Engineer	HR	0	\$0.00	\$0.00
	Office Engineer	HR	32	\$112	\$3,584
	On-site Technician (WWTP Operator 12 hrs./we Materials	HR	312	\$85.00	\$26,520
		ek) LS	0	\$0.00	\$0.00
	Subtota	l Leachate Collectio	n/Treatment Syster	m Administrative:	\$39,224
7. Maii	ntenance of Groundwater Monito	oring Wells	¥		
	Monitoring Wells	EA	15	\$40.00	\$600
	Replacement	EA	1.0	\$1,037	\$1,037
	Abandonment	EA			\$0.00
		Subtotal Ground	water Monitoring W	'ell Maintenance:	\$1,637
DESC	RIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
8. Gas	System Maintenance				
	Piping, Vents	EA	57	\$120	\$6,840
	Blowers	EA	0	\$0.00	\$0.00
**	Flaring Units	EA	7	\$120	\$840
	Meters, Valves	EA	0	\$0.00	\$0.00
	Compressors	EA	0	\$0.00	\$0.00
	Flame Arrestors	EA	0	\$0.00	\$0.00
	Replace monitoring probes	EA	1	\$185	\$185.00
			Subt	otal Gas System:	\$7,865
9. Lan	dscape				
	Mowing	AC	145	\$50.52	\$7,330
	Fertilizer	AC	0	\$0.00	\$0.00
			Subtotal Landsca	pe Maintenance:	\$7,330

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST			
10. Erosion Control & Cover Maintenance							
Sodding	SY	0	\$0.00	\$0			
Regrading	LS	1	\$213	\$213			
Liner Repair	LS	1	\$1,769	\$1,769			
Clay	CY	0	\$0.00	\$0.00			
	Subtotal Erosion Control and Cover Maintenance:						
11. Storm Water Management System Maintenance							
Conveyance	Maintenance LS	1	\$9,421	\$9,421			
	Subtotal Storm Water System Maintenance:						
12. Security System Maintenance							
Fences	LF	50	\$13.08	\$654			
Gate(s)	EA			\$0			
Sign(s)	EA			\$0			
		Subto	tal Security System:	\$654			
13. Utilities	LS			\$0			
14. Administrative							
Site Manage	r HR	48	\$112	\$5,376			
On-Site Engi	neer HR			\$0			
Office Engine	eer HR	0	\$0.00	\$0.00			
Clerical	HR	48	\$54	\$2,592			
Other (consu	elting)	1	\$2,040.00	\$2,040			
		Sub	ototal Administrative:	\$10,008			
15. Contingency	% of Total	156,723	5%	\$8,000			
		Si	ubtotal Contingency:	\$8,000			

16. Site Specific Costs (explain)	UNIT COS	UNIT COST		
	LS	_		
		\$0		
	ANNUAL LONG-TERM CARE COST (\$/Year):	\$164,723		
	NUMBER OF YEARS OF LONG-TERM CARE			
	TOTAL LONG-TERM CARE COST (\$):	\$4,941,676		