



TETRA TECH

August 8, 2008

Via FedEx

Mr. Steve Morgan
Florida Department of Environmental Protection
Southwest District Office
13051 North Telecom Parkway
Temple Terrace, Florida 33637-0926

**Subject: Pasco County Utilities
West Pasco Class III Landfill
Opinion of Probable Closure Costs
Pending Permit #26254-001-SO/T3**

Tt# 01.0040.006

Dear Mr. Morgan:

On behalf of Pasco County Utilities, Tetra Tech is submitting this response to your request for additional information, dated May 17, 2007, for the above referenced permit renewal. Your comments are stated first with our responses following.

1. Please note that quantities and unit costs for closure and long-term care items may be added or changed based on comments and revisions to the above referenced permit application, therefore the proposed closure and long-term care costs may need to be revised accordingly.

Response: Acknowledged.

2. Based on your response to the comments provided below, please provide a revised DEP Form 62-701.900(28) that incorporates all proposed changes to the closure and long-term care cost estimates and is signed by both the engineer preparing the cost estimate and the owner/operator.

Response: Please see the attached revised form.

3. The closing and long-term care cost estimates provided are based on a closure design (e.g. soil subgrade/40 mil synthetic liner/top soil protective layer, stormwater side slope conveyances, passive gas wells, etc.) inconsistent with the closure plan and design referenced in the above referenced permit



application. Please provide revised closing and long-term care estimates, as applicable, consistent with the proposed closure and long-term care plan and design of the facility. These cost estimates will be reviewed in its entirety after receipt of this information.

Response: Tetra Tech has received a copy of the closure design from the engineer (CDM) preparing the permit renewal application for this facility. A revised Financial Assurance Cost Estimate Form, based on this design, is attached for review. Also attached are assumptions and third-party costs used in preparing the form.

4. Cost estimates provided as part of permit renewal shall be revised cost estimates and include the submittal of explanations and calculations to support quantities provided. The information, calculations, and/or assumptions utilized in support of the estimated unit quantities were not provided. This comment was previously provided in the Department's February 28, 2007 financial assurance RAI letter. Please provide this information.

Response: Assumptions and calculations used in preparing the calculations are attached for review.

5. Revised cost estimates cannot be based on inflation adjustment of previously approved costs, or be based on the costs for the County to perform the work. Therefore costs "obtained in-house or inflated from previous submittals..." cannot be utilized for estimated unit costs for closure. This comment was previously provided in the Department's February 28, 2007 financial assurance RAI letter. Please provide current third-party quotes to support all unit costs.

Response: Third-party costs and sources for typical costs used in preparing the calculations are attached for review. These references include costs provided by Goodwin Brothers Construction, Orange County Environmental Protection Division, and the Florida Department of Transportation.

6. The third-party quote provided by Goodwin Brothers Construction included a cost for "Synthetic-40 mil" which does not specify what type of liner the quote is based on (e.g. HDPE, LLDPE, PVC, etc.). Please provide a third-party quote that provided this information. Please provided supporting documentation of Goodwin Brothers Construction's experience in liner installation or provide a third-party quote from a firm with adequate experience in liner installation.

Response: Goodwin Brothers Construction was asked for, and has provided, a quote for typical costs associated with installation of the 40-mil geosynthetic liner. The contractor provided the requested cost.



TETRA TECH

Mr. Steve Morgan
August 8, 2008
Page 3

We trust these responses will satisfy the Department's concerns. Please call me if you have any questions.

Very truly yours,

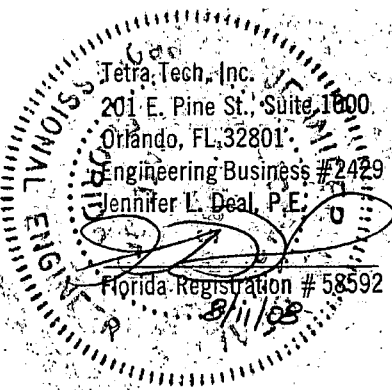
Tetra Tech

Jennifer L. Deal, P.E.
Project Manager

Attachments

Cc: John Power, Pasco County Utilities
Bob Sigmond, Pasco County Utilities
Andy Woodcock, P.E., Tetra Tech
Aamod Sornawane, P.E., CDM

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**WEST PASCO CLASS III LANDFILL
LONG TERM CARE PLAN**

PENDING PERMIT #26254-001-SO/T3

**PREPARED TO ACCOMPANY THE PERMIT RENEWAL APPLICATION
PREPARED BY CDM, TAMPA, FLORIDA**

1.0 FINAL USE AND LONG TERM CARE

At this time, the Owner anticipates that the proposed final use of the closed landfill will be open field within the 800 acre Shady Hills Solid Waste Facility. The final use for the landfill site will exclude any buildings or other structures, unless such buildings are structures are specifically designed to address gas venting and settlement considerations associated with construction over a landfill. Long term care for the site will include maintaining the landscaping, and erosion control for a period of thirty (30) years and maintaining the groundwater and gas monitoring plan for a period of time established by the FDEP.

1.1 Replacement of Monitoring Devices

If the monitor wells or other devices required by the Groundwater Monitoring Plan are destroyed or fail to operate for any reason, the landfill Owner or Operator, shall upon discovery, notify the FDEP in writing. All inoperative monitoring devices shall be repaired or replaced with functioning devices within 60 days of the discovery of the malfunctioning unit unless the landfill Owner or Operator is notified otherwise in writing from the FDEP.

1.2 Long Term Monitoring

Once the Landfill facility is closed, groundwater and gas monitoring will continue for a period of up to 30 years with reports submitted to the FDEP. Groundwater reports will be submitted semi-annually, leachate monitoring annually, and gas monitoring reports will be submitted on a quarterly basis. The owner may apply for a reduction in this period provided no problems have occurred.

1.3 Maintenance

Regular maintenance of all areas shall be performed by the operator or a designated agent in order to assure that the maintenance standards are achieved. The maintenance shall include monitoring for a minimum of thirty (30) years after planting, replacement of any planted areas that fail to survive in accordance with the established standards, and the maintenance of all required slopes, final cover, embankments, fences, gates, signs, monitoring systems and stormwater facilities. The operator will maintain a stockpile on-site of cover material to be used for final cover maintenance.

1.3.1 Revegetation

1. Revegetation of all disturbed areas shall be conducted in a manner so as to achieve permanent revegetation which shall minimize soil erosion and surface water runoff. Should washes, rills, gullies, or the

like, develop after revegetation and before a thirty (30) year maintenance period, such eroded areas shall be repaired, the slopes stabilized and revegetated, within thirty (30) days.

2. Good quality topsoil shall be applied as the soil cover material for all reclaimed areas. Alternate growing media must be approved by the FDEP prior to commencement of revegetation.
3. Revegetation efforts shall commence within thirty (30) days after completion of regrading and shall be completed within one hundred and twenty (120) days.

1.3.2 Reduced Long-term Care Period

The owner of the landfill at the time, may apply to the FDEP for a permit modification to reduce the long-term care schedule after a 5-year history after closure in accordance with FAC 62-701.620(2).

1.3.3 Right of Access and Access Control

The owner currently poses a right of access to the subject site. The future owner or operator, will maintain this right of access route and the property for the life of the landfill and throughout the long-term care period. Pasco County and all other owners/operators will maintain all security barriers (fencing, signage, gates) for the design life and long-term care period of the landfill.

1.3.4 Successors of Interest

Any person or corporation acquiring rights or ownership, possession or operation of the proposed Class III landfill will be subject to all the requirements of the permit for the proposed facility. Any lease or transfer of property will include the following conditions:

1. The previous owner or operator responsible for closure shall maintain proof of financial responsibility with the FDEP.
2. State the party responsible for continuance of monitoring, maintenance, and correction of problems.
3. Mineral rights to any recoverable materials buried at the landfill. Disturbance of a closed landfill will require a FDEP permit.

1.3.5 Completion of Long-Term Care

Upon completion of the landfill's long term care period, owner/operator, will notify the FDEP that a certification has been placed in the landfill's operating record verifying that long-term care has been completed in accordance with the approved Closure and Long-term Care Plans.

1.4 FINANCIAL RESPONSIBILITY

Upon approval of the application, the owner or operator will provide a Letter of Understanding guaranteeing financial responsibility for closure and post-closure costs. The financial guarantee will be submitted prior to permit being issued.

The Financial Assurance Cost Estimate Form, and supporting documentation, for the Class III Landfill is attached. Third party estimates for selected portions of the required work were used for the estimates.

1.4.1 Annual Cost Adjustments

The owner/operator of the landfill will submit an annual cost adjustment statement of closure and long-term care costs certified by a P.E. to the FDEP. These cost estimates will be revised for inflation and any changes in closure or corrective action plans. Upon approval of the adjusted financial estimates by the FDEP, the owner/operator shall ensure that the financial mechanism is updated accordingly.

FDEP FORM 62-701.900(28)
FINANCIAL ASSURANCE COST ESTIMATE



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

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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: 08/08/08 Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: West Pasco Class III Landfill WACS or GMSID #: GMS 4051M30035
Permit / Application No.: 26255-001-S0 Expiration Date: _____
Facility Address: 14606 Hays Road, Springhill, FL 34610, 3 miles north of State Road 52
Permittee: Pasco County Utilities
Mailing Address: 7530 Little Road, Suite 205, New Port Richey, FL 33654

Latitude: 28°22'5"1 Longitude: 82°33'30"W or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
<u>1</u>	<u>5</u>	<u>Jun-90</u>	<u>20</u>
<u>2</u>	<u>5</u>	<u>May-02</u>	<u>20</u>
<u>3</u>	<u>5</u>	<u>N/A</u>	<u>20</u>
<u>4</u>	<u>5</u>	<u>Jun-90</u>	<u>20</u>

Total Landfill Acreage included in this estimate. 20 Closure 20 Long-Term Care

Type of landfill: _____ Class I Class III _____ C&D Debris

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

Letter of Credit* _____ Insurance Certificate _____
Surety Bond* _____ Escrow Account _____
Trust Fund Agreement _____ Financial Test _____
Letter of Understanding

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

III. ESTIMATE ADJUSTMENT

40 CFR Part 264 Subpart H as adopted by reference in Rule 62-701.630, Florida Administrative Code sets forth the method of annual cost estimate adjustment. Cost estimates may be adjusted by using an inflation factor or by recalculating the maximum costs of closure in current dollars. Select one of the methods of cost estimate adjustment below.

(a) Inflation Factor Adjustment

Inflation adjustment using an inflation factor may only be made when a Department approved closure cost estimate exists and no changes have occurred in the facility operation which would necessitate modification to the closure plan. The inflation factor is derived from the most recent Implicit Price Deflator for Gross National Product published by the U.S. Department of Commerce in its survey of Current Business. The inflation factor is the result of dividing the latest published annual Deflator by the Deflator for the previous year. The inflation factor may also be obtained from the Solid Waste Financial Coordinator at (850)-245-8732.

This adjustment is based on the Department approved closure cost estimate dated: _____

Latest Department Approved Closure Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Closure Cost Estimate:
_____		_____		\$0.00

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

Latest Department Approved Annual Long-Term Care Cost Estimate:	X	Current Year Inflation Factor	=	Inflation Adjusted Annual Long-Term Care Cost Estimate:
_____		_____		\$0.00

Number of Years of Long Term Care Remaining: X _____

Inflation Adjusted Long-Term Care Cost Estimate: = 0.00

(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.

Jennifer L. Deal
Signature of Engineer

Jennifer L. Deal, P.E.
Name & Title (please type)

58592
Florida Registration Number (affix seal) & Date

201 E. Pine St. #1000, Orl, FL 32801
Mailing Address

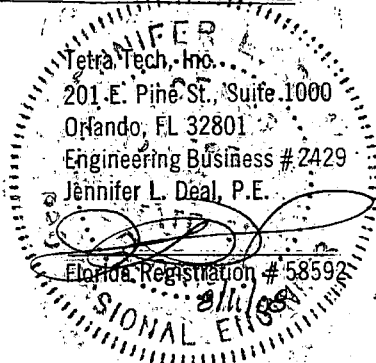
407-839-3955
Telephone Number

Robert J. Sigmons
Signature of Owner/Operator

Robert J Sigmons Fiscal Business Services Div
Name & Title (please type)

727-847-8041
Telephone Number

The above referenced "Financial Assurance Cost Estimate" is an Engineer's opinion of probable costs for the facility, based upon a number of assumptions. These costs may vary due specific decisions made by the contractor including cost and extent of labor, equipment and materials, and market conditions, and a variety of other conditions over which the Engineer and Tetra Tech have no control.



V. RECALCULATE ESTIMATED CLOSING COST

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

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

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells (Do not include wells already in existence.)				
	EA	0	\$0.00	\$0.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation Grading	CY AC	20	\$5,200.00	\$104,000.00
Placement and Spreading 12" Soil	CY	32,267	\$2.20	\$70,987.40
Compaction	CY			\$0.00
Off-Site Material	CY			\$0.00
Delivery	CY			\$0.00
			Subtotal Slope and Fill:	\$174,987.40
3. Cover Material (Barrier Layer):				
Off-Site Clay Soil 24" Soil (15% bulking)	CY	74,213	\$2.20	\$163,268.60
Synthetics - 40 mil LLDPE	SY	871,200	\$0.88	\$766,656.00
Synthetics - GCL	SY			\$0.00
Synthetics - Geonet	SY			\$0.00
Synthetics - Other	SY			\$0.00
			Subtotal Barrier Layer Cover:	\$929,924.60
4. Top Soil Cover:				
Off-Site Material 6" Soil	CY	16,133	\$15.00	\$241,995.00
Delivery	CY			\$0.00
Spread	CY			\$0.00
			Subtotal Top Soil Cover:	\$241,995.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	96,800	\$3.84	\$371,712.00
Hydroseeding	AC			\$0.00
Fertilizer	AC			\$0.00
Mulch	AC			\$0.00
Other Watering	SY LS	1	\$7,500.00	\$7,500.00
Subtotal Vegetative Layer:				\$379,212.00
6. Stormwater Control System:				
Earthwork	CY			\$0.00
Grading	SY			\$0.00
Piping	LF			\$0.00
Ditches	LF			\$0.00
Berms	LF			\$0.00
Control Structures	EA			\$0.00
Other	LS	200	\$65.00	\$13,000.00
Subtotal Stormwater Controls:				\$13,000.00
7. Gas Controls: Passive				
Wells 8 at 25' depth	EA LF	200	\$80.00	\$16,000.00
Pipe and Fittings	LF	1,200	\$38.00	\$45,600.00
Monitoring Probes	EA			\$0.00
NSPS/Title V requirements	LS			\$0.00
Subtotal Passive Gas Control:				\$61,600.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
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8. Gas Control: Active Extraction

Traps	EA			\$0.00
Sump	EA			\$0.00
Flare Assembly	EA			\$0.00
Flame Arrestor	EA			\$0.00
Mist Eliminator	EA			\$0.00
Flow Meter	EA			\$0.00
Blowers	EA			\$0.00
Collection System	LF			\$0.00
Other (describe)				\$0.00
Subtotal Active Gas Extraction:				\$0.00

9. Security System: *Existing*

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

10. Engineering:

Closure Plan report	LS			\$25,000.00
Certified Engineer	LS			\$8,000.00
NSPS/Title V Air Permit	LS			
Final Survey	LS			\$7,000.00
Certification of Closure	LS			\$5,000.00
Other (detail) <i>QA/QC Plan</i>	<i>LS</i>			\$2,500.00
Subtotal Engineering:				\$47,500.00

VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

_____ 5 Years _____ 20 Years 30 Years _____ Other

See 62-701.600(1)a.1., 62-701.620(1), 62-701.630(3)a. and 62-701.730(11)b. F.A.C. for required term length. For landfills certified closed and Department accepted, enter the remaining long-term care length as "Other" and provide years remaining.

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

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

Description	Sampling Frequency (events/yr.)	Number of Wells	\$ / Well / Event	\$ / Year
1. Groundwater Monitoring (62-701.510(6), and (8)(a))				
Monthly	12			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2	12	\$484.10	\$11,618.40
Annual	1			\$0.00
Subtotal Groundwater Monitoring:				\$11,618.40
2. Surface Water Monitoring (62-701.510(4), and (8)(b))				
Monthly	12			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2			\$0.00
Annual	1			\$0.00
Subtotal Surface Water Monitoring:				\$0.00
3. Gas Monitoring				
Monthly	12			\$0.00
Quarterly	4	3	\$150.00	\$1,800.00
Semi-Annual	2			\$0.00
Annual	1			\$0.00
Subtotal Gas Monitoring:				\$1,800.00

Description	Sampling Frequency (events/yr.)	Number of Locations	\$/Location/Event	\$ / Year
4. Leachate Monitoring (62-701.510(5), (6)(b) and 62-701.510(8)(c))				
Monthly	12			\$0.00
Quarterly	4			\$0.00
Semi-Annual	2	1	\$750.00	\$1,500.00
Annual	1			\$0.00
Other				\$0.00
Subtotal Leachate Monitoring:				\$1,500.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LF	1	\$14,000.00	\$14,000.00
Sumps, Traps	EA			\$0.00
Lift Stations	EA			\$0.00
Cleaning	LS			\$0.00
Tanks	EA			\$0.00
Impoundments				
Liner Repair	SY			\$0.00
Sludge Removal	CY			\$0.00
Aeration Systems				
Floating Aerators	EA			\$0.00
Spray Aerators	EA			\$0.00
Disposal				
Off-site (Include Transportation and Disposal)	1000 gallon	12	103	\$1,236.00
				\$15,236.00

6. Leachate Collection/Treatment Systems Operation

Operation		Hours	\$/Hour	Total
P.E. Supervisor	HR	8	\$130.00	\$1,040.00
On-Site Engineer	HR	16	\$110.00	\$1,760.00
Office Engineer	HR	8	\$110.00	\$880.00
OnSite Technician	HR	40	\$60.00	\$2,400.00
Materials	LS			

Subtotal Leachate Collection/Treatment System Maintenance & Operation: \$6,080.00

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells	LF			\$0.00
Replacement	EA	1	\$2,500.00	\$2,500.00
Abandonment	EA			\$0.00

Subtotal Groundwater Monitoring Well Maintenance: \$2,500.00

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

Piping, Vents	LF			\$0.00
Blowers	EA			\$0.00
Flaring Units	EA			\$0.00
Meters, Valves	EA			\$0.00
Compressors	EA			\$0.00
Flame Arrestors	EA			\$0.00
Operation	LS			

SubTotal Gas System: \$0.00

9. Landscape

Mowing 20 AC @ 4/yr	AC	80	\$150.00	\$12,000.00
Fertilizer	AC			\$0.00

Subtotal Landscape Maintenance: \$12,000.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY	2,420	\$3.84	\$9,292.80
Regrading	AC	1	\$5,200.00	\$2,600.00
Liner Repair	SY LS	1	\$1,000.00	\$1,000.00
Clay	CY			\$0.00
Subtotal Erosion Control and Cover Maintenance:				\$12,892.80
11. Storm Water Management System Maintenance				
Conveyance Maintenance	LS			\$2,500.00
Subtotal Storm Water System Maintenance:				\$2,500.00
12. Security System Maintenance				
Fences	LF	100	\$13.41	\$1,341.00
Gate(s)	EA	1	\$1,538.50	\$769.25
Sign(s)	EA	1	\$38.36	\$38.36
Subtotal Security System:				\$2,148.61
13. Utilities	LS			\$5,000.00
14. Administrative				
		Hours	\$/Hour	Total
P.E. Supervisor	HR	8	\$130.00	\$1,040.00
On-Site Engineer	HR	16	\$110.00	\$1,760.00
Office Engineer	HR	80	\$110.00	\$8,800.00
OnSite Technician	HR	40	\$60.00	\$2,400.00
Other (explain)				\$0.00
Subtotal Administrative:				\$14,000.00
15. Contingency	% of Total			10%
	\$87,275.81	Subtotal Contingency:		\$8,727.58

16. Site Specific Costs (explain)

	<u>UNIT COST</u>	
Biennial Groundwater Report (1 per 2 years)	LS	<u>\$2,750.00</u>
_____	LS	_____
_____	LS	_____

ANNUAL LONG-TERM CARE COST (\$/Year): \$98,753.39

NUMBER OF YEARS OF LONG-TERM CARE 30.00

TOTAL LONG-TERM CARE COST (\$) \$2,962,601.73

ASSUMPTIONS, EXPLANATIONS, AND CALCULATIONS

**PASCO COUNTY UTILITIES
WEST PASCO CLASS III LANDFILL
OPINION OF PROBABLE COSTS
ASSUMPTIONS, EXPLANATIONS, AND CALCULATIONS**

1. The estimate assumes fence, locking gate(s), sign(s), gas probes, and monitor wells are existing at the facility.
2. Costs for groundwater sampling, analysis, and reporting, gas monitoring and reporting, and leachate monitoring and reporting are based on costs provided by Tetra Tech.
3. No active gas extraction system is proposed in the landfill design. Cost for installation of the passive gas vents are based on typical shallow drilling and materials costs.
4. Cost for security system maintenance were obtained from the FDOT Item Average Unit Costs paid for 2007 construction projects, with a 1.025 inflation adjustment for 2008.
5. Costs for quality assurance plan development, closure certification, monitor well maintenance, closure report/permit services, and professional and administrative services are based on costs provided by Tetra Tech.
6. Cost for quality assurance testing is an assumed rate of \$2,000 per acre. To Tetra Tech's knowledge, there is not an existing closure construction quality assurance plan for this site on which to base this calculation.
7. Cost estimates for mowing and temporary irrigation were obtained from Goodwin Brothers Construction.
8. The approved final cover will include a 40-mil LLDPE geosynthetic liner. Final cover soil quantities are based on an area of 20 acres, 24 inches of compacted soil above the geosynthetic and 6 inches of top soil. Third party costs for cover material and associated labor, and grading were provided by Goodwin Brothers Construction.
9. Cost for sodding is based on an estimate calculated by the Orange County Environmental Protection Division for the purpose of determining financial assurance obligations.
10. The estimate assumes that construction rework and additional construction quality assurance testing will not be required. The closure cost includes a 10% contingency.
11. Assumes established vegetation is drought resistant and does not require regular irrigation after the first month.
12. Cost for final survey is provided by Tetra Tech.
13. Assumes gas remediation and groundwater remediation will not be required.

14. Cost for disposal of 1000 gallons of leachate is assumed to be once monthly and is based on an estimate calculated by the Orange County Environmental Protection Division for the purpose of determining financial assurance obligations.

15. Soil Cover Calculations:

$$(20 \text{ ac})(43560 \text{ ft}^2/\text{ac}) = 871,200 \text{ ft}^2 = 96,800 \text{ yd}^2$$

$$1\text{-foot cover over 20 acres} = (20 \text{ ac})(871200 \text{ ft}^2/\text{ac})(1 \text{ ft})/(27 \text{ ft}^3/\text{yd}^3) = 32,267 \text{ yd}^3$$

$$2\text{-feet cover over 20 acres} = (20 \text{ ac})(871200 \text{ ft}^2/\text{ac})(2 \text{ ft})/(27 \text{ ft}^3/\text{yd}^3) = 64,533 \text{ yd}^3$$

at 15% bulking factor = 74,213 yd³ to account for compaction

$$6\text{-inches topsoil over 20 acres} = (20 \text{ ac})(871200 \text{ ft}^2/\text{ac})(0.5 \text{ ft})/(27 \text{ ft}^3/\text{yd}^3) = 16,133 \text{ yd}^3$$

16. Tire Calculations:

Per 2002 calculations, 2450 tons of tires (2450 tons total, 50 tons are large tires)

$$(2400 \text{ tons car tires})(2000 \text{ lb/ton})(1 \text{ tire}/30 \text{ lb}) = 160,000 \text{ car tires}$$

25 tons, or 1,667 car tires are on rims

50 tons are large tires, at 50 lb/tire = 2000 large tires

Per conversation with local tire processor:

\$1.50 per car tire

\$3.00 per car tire on rim

\$3.00 per large tire

$$(\$1.50)(158,333) = \$237,500$$

$$(\$3.00)(1,667) = \$5001$$

$$(\$3.00)(2,000) = \$6,000$$

$$\text{Total} = \$248,501$$

THIRD PARTY ESTIMATES

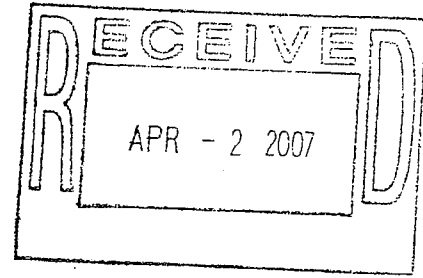
P.O. Box 1689
Brooksville, FL 34605



Phone (352) 796-0149
Fax (352) 544-1084

Construction Co., Inc.

3/28/07



Erick Van Malssen
Tetra Tech
201 E Pine St Ste 1000
Orlando FL 32801

RE: DEP Financial Assurance Costs

- Slope and Fill: Site Grading = \$5,200.00 AC
- Slope and Fill: Placement/Spreading = \$2.20 CY
- Cover Material: Synthetic-40mil = \$.88 SF
- Top Soil Cover: Off Site Material = \$15.00 CY
- Revegetation: Sodding = \$2.00 SF
- Landscape Irrigation System: Temporary Watering 30 days = \$7,500.00 LS
- Landscape Maintenance: Mowing = \$150.00 AC

A handwritten signature in black ink, appearing to read "Daniel Goodwin Jr.", written over a white background.

Daniel Goodwin Jr.
Estimator

YEAR PRICE LIST IS BEING INFLATION ADJUSTED TO: 2008 (see Item III. Estimate Adjustment)

DESCRIPTION	UNIT	REPORTED UNIT PRICE	PRICE RATIO	INFLATION ADJUSTED UNIT COST	INFLATION FACTOR	REFERENCE UNIT PRICE	DATE REVISED	REFERENCE SOURCE
CLOSURE								
General								
Mobilization (General)	LS	\$ 30,000.00	100%	\$ 30,000.00	1.000	\$ 30,000.00	1/1/08	EPD staff
Mobilization (Gas Contractor)	LS	\$ 25,000.00	100%	\$ 25,000.00	1.000	\$ 25,000.00	1/1/08	EPD staff
Proposed Monitoring Wells								
Well Installation	FT	\$ 32.72	100%	\$ 32.72	1.030	\$ 31.77	1/1/07	Schedule_021507
Well Completion	EA	\$ 172.65	100%	\$ 172.65	1.030	\$ 167.62	1/1/07	Schedule_021507
Slope and Fill								
Placement and spreading	SY	\$ 4.45	100%	\$ 4.45	1.000	\$ 4.45	1/1/08	RS Means 2008: 32 91 19.13 0400
Compaction	CY	\$ 1.21	100%	\$ 1.21	1.000	\$ 1.21	1/1/08	RS Means 2008: 31 23 23.24 0300
Off-site material (slope and fill)	CY	\$ 12.37	100%	\$ 12.37	1.000	\$ 12.37	1/1/08	RS Means 2008: 31 05 13.10 0200
Cover Material								
Off-site clay (barrier layer)	CY	\$ 29.82	100%	\$ 29.82	1.000	\$ 29.82	1/1/08	RS Means 2008: 31 05 13.10 0700
Top Soil Cover								
Off-site material (cover)	CY	\$ 10.68	100%	\$ 10.68	1.000	\$ 10.68	1/1/08	RS Means 2008: 31 05 13.10 0200
Off-site material (veg. support)	CY	\$ 30.17	100%	\$ 30.17	1.000	\$ 30.17	1/1/08	RS Means 2008: 32 91 19.13 0800
Vegetative Layer								
Sodding	SY	\$ 3.84	100%	\$ 3.84	1.000	\$ 3.84	1/1/08	RS Means 2008: 32 92 23.10 0300
Hydroseeding	SY	\$ 0.35	100%	\$ 0.35	1.000	\$ 0.35	1/1/08	RS Means 2008: 32 92 19.13 1000
Stormwater Control System								
Sodding	SY	\$ 3.18	100%	\$ 3.18	1.000	\$ 3.18	1/1/08	RS Means 2008: 32 92 23.10 0300
Engineering								

Final survey	AC	\$ 5,463.64	100%	\$ 5,463.64	1.093	\$ 5,000.00	10/1/05 MSW Management; "Landfill Economics"
Professional Services							
Quality Assurance Testing (cap)	AC	\$ 19,669.09	100%	\$ 19,669.09	1.093	\$ 18,000.00	10/1/05 MSW Management; "Landfill Economics"
Landscaping							
Hydroseeding	SY	\$ 0.35	100%	\$ 0.35	1.000	\$ 0.35	1/1/08 RS Means 2008: 32 92 19.13 1000

DESCRIPTION	UNIT	REPORTED UNIT PRICE	PRICE RATIO	INFL. ADJ. UNIT COST	INFLATION FACTOR	REFERENCE UNIT PRICE	DATE REVISED	REFERENCE SOURCE
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LONG-TERM CARE

Groundwater Monitoring								
Each Well -Each Event	EA	\$ 484.10	100%	\$ 484.10	1.030	\$ 470.00	1/1/07	FDEP PCP Template (C.8)_021507 FDEP PCP Lab Rate Schedule_021507
Leachate Collection Treatment System Operation								
Off-site Disposal	1000 GAL	\$ 103.00	100%	\$ 103.00	1.030	\$ 100.00	1/1/07	EPD staff
Maintenance of Groundwater Wells								
Well Installation	FT	\$ 32.72	100%	\$ 32.72	1.030	\$ 31.77	1/1/07	Schedule_021507
Well Completion	EA	\$ 172.65	100%	\$ 172.65	1.030	\$ 167.62	1/1/07	Schedule_021507
Gas System Maintenance								
Flaring Units	EA	\$ 515.00	100%	\$ 515.00	1.030	\$ 500.00	1/1/07	EPD staff
Landscape maintenance								
Mowing (cap)	AC	\$ 346.91	100%	\$ 346.91	1.061	\$ 327.00	1/1/06	RS Means 2006: 02230-200-1020
Mowing (pond bank, setback- 4/yr)	AC	\$ 1,387.66	100%	\$ 1,387.66	1.061	\$ 1,308.00	1/1/06	RS Means 2006: 02230-200-1020
Erosion Control & Cover Maintenance								
Sodding	SY	\$ 6.85	100%	\$ 6.85	1.000	\$ 6.85	1/1/08	RS Means 2008: 32 92 23.10 0700
Regrading (inc. off-site veg. sup. soil)	AC	\$ 24,337.94	100%	\$ 24,337.94	1.000	\$ 24,337.94	1/1/08	RS Means 2008: 32 91 19.13 0800
Off-site clay (barrier layer)	CY	\$ 26.27	100%	\$ 26.27	1.000	\$ 26.27	1/1/08	RS Means 2008: 31 05 13.10 0700
Site Update and Permitting								
Topographic survey	AC	\$ 314.03	100%	\$ 314.03	1.061	\$ 296.00	1/1/06	RS Means 2006; 01100-700-1650

Florida Department of Transportation
 Item Average Unit Cost
 From 2007/01/01 to 2007/12/31

Contract Type: (CC!) STATEWIDE
 Displaying: VALID ITEMS WITH HITS
 From: 0100 To: 1999999999

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0101 1	255	\$421,924.77	\$135,859,775.35				
0102 1	255	\$863.19	\$66,784,873.67	322.000	LS	N	MOBILIZATION
0102 2 1	9	\$342,030.12	\$3,420,301.21	77,370.000	DA	N	MAINTENANCE OF TRAFFIC
0102 2 2	5	\$592,987.85	\$2,964,939.23	10.000	LS	N	SPECIAL DETOUR 1
0102 2 3	4	\$915,067.38	\$3,660,269.51	5.000	LS	N	SPECIAL DETOUR 2
0102 2 4	4	\$223,163.93	\$892,655.72	4.000	LS	N	SPECIAL DETOUR 3
0102 2 5	2	\$112,500.00	\$225,000.00	4.000	LS	N	SPECIAL DETOUR 4
0102 2 6	1	\$50,000.00	\$50,000.00	2.000	LS	N	SPECIAL DETOUR 5
0102 2 7	1	\$50,000.00	\$50,000.00	1.000	LS	N	SPECIAL DETOUR 6
0102 3	65	\$26.94	\$1,446,579.53	1.000	LS	N	SPECIAL DETOUR 7
0102 14	113	\$51.76	\$1,426,815.42	53,699.800	CY	N	COMMERCIAL MATL FOR DRIVEWAY MAINT
0102 60	241	\$.29	\$1,301,225.68	27,564.000	MH	N	TRAFFIC CONTROL OFFICER
0102 61	49	\$37.42	\$89,387.81	4,490,720.000	ED	N	WORK ZONE SIGN
0102 71 11	55	\$21.66	\$6,545,609.63	2,389.000	EA	N	BUSINESS SIGN
0102 71 12	4	\$40.37	\$109,039.09	302,161.750	LF	N	BARRIER WALL, TEMP, F&I, CONCRETE
0102 71 13	14	\$48.62	\$2,794,112.32	2,701.000	LF	N	BARRIER WALL, TEMP, F&I, WATERFILLED
0102 71 14	29	\$51.89	\$4,757,077.42	57,468.000	LF	N	BARRIER WALL, TEMP, F&I, LOW PROFILE, CONC
0102 71 21	43	\$6.12	\$1,534,825.53	91,673.500	LF	N	BARRIER WALL, TEMP, F&I, TYPE K
0102 71 22	4	\$9.72	\$52,094.64	250,613.000	LF	N	BARRIER WALL, TEMP, REL, CONCRETE
0102 71 23	11	\$5.81	\$479,496.93	5,361.000	LF	N	BARRIER WALL, TEMP, REL, WATERFILLED
0102 71 24	18	\$13.75	\$978,933.41	82,560.000	LF	N	BARRIER WALL, TEMP, REL, LOW PROFILE, CONC
0102 73	3	\$24.64	\$87,480.00	71,199.000	LF	N	BARRIER WALL, TEMP, REL, TYPE K
0102 74 1	229	\$.18	\$2,602,937.68	3,550.000	LF	N	TEMPORARY GUARDRAIL
0102 74 2	112	\$.37	\$395,572.16	14,847,968.000	ED	N	BARRICADE, TEMP, TYPS I, II, DI, VP & DRUM
0102 76	173	\$8.20	\$673,355.62	1,073,803.000	ED	N	BARRICADE, TEMP, TYPE III, 6'
0102 77	233	\$.45	\$682,907.42	82,148.000	ED	N	ADVANCE WARNING ARROW PANEL
0102 78	152	\$3.67	\$1,571,749.05	1,504,921.000	ED	N	HIGH INTENSITY FLASH LI, TEMP, TYP B
0102 79	67	\$.16	\$296,378.06	428,623.000	EA	N	REFLECTIVE PAVT MARKER, TEMPORARY
0102 89 7	66	\$1,409.10	\$1,411,921.75	1,874,336.000	ED	N	LIGHTS, BARR WALL MNT, TEMP, TYP C, STDY BRN
0102 98 2	1	\$145.00	\$2,175.00	1,002.000	LO	N	CRASH CUSHION/IMP ATTE, TEMP, REDIRECT OPT
0102 99	192	\$19.19	\$2,292,674.49	15.000	EA	N	BARRICADE, TYPE III, 6', TO REMAIN
0102104 1	2	\$112.79	\$94,180.20	119,455.000	ED	N	CHANGEABLE-VARIABLE MESSAGE SIGN, TEMP
0102104 2	9	\$25.51	\$379,614.93	835.000	ED	N	TEMPORARY TRAFFIC CONTROL, PORT SIGNAL
0102107	55	\$15.04	\$991,709.19	14,882.000	ED	N	TEMPORARY TRAFFIC CONTROL, FIXED SIGNAL
0102150 1	34	\$29.30	\$408,788.44	65,951.000	DA	N	TEMP TRAFFIC DETECTION, INTERSECT
				13,952.000	ED	N	PORTABLE REGULATORY, SIGN

Florida Department of Transportation
 Item Average Unit Cost
 From 2007/01/01 to 2007/12/31

Contract Type: (CC) STATEWIDE
 Displaying: VALID ITEMS WITH HITS
 From: 0100 To: 1999999999

Item	No. of Conts	Weighted Average	Total Amount	Total Quantity	Unit Meas	Obs?	Description
0550 10150	2	\$11.57	\$1,216,727.68	105,185.600	LF	N	FENCING, TYPE A, 8.1-10.0', STANDARD
0550 10220	20	\$13.08	\$498,877.75	38,130.000	LF	N	FENCING, TYPE B, 5.1-6.0, STANDARD
0550 10221	1	\$18.25	\$85,008.50	4,658.000	LF	N	FENCING, TYPE B, 5.1-6.0, W/ BARB ATTMT
0550 10222	14	\$16.46	\$1,290,275.97	78,369.600	LF	N	FENCING, TYPE B, 5.1-6.0, W/ VINYL COAT
0550 10228	3	\$12.91	\$13,413.00	1,039.000	LF	N	FENCING, TYPE B, 5.1-6.0, RESET EXISTING
0550 10240	2	\$32.62	\$21,987.00	674.000	LF	N	FENCING, TYPE B, 7.1-8.0', STANDARD
0550 10250	1	\$19.50	\$4,446.00	228.000	LF	N	FENCING, TYPE B, 8.1-10.0', STANDARD FEA
0550 10343	1	\$100.00	\$156,000.00	1,560.000	LF	N	FENCING, TYPE R, 7.1-8.0, W/FULL ENCLOS
0550 10353	2	\$405.11	\$195,262.46	482.000	LF	N	FENCING, TYPE R, 8.1-10', W/FULL ENCLOS
0550 10918	1	\$73.50	\$1,470.00	20.000	LF	N	FENCING, SPECIAL TYP, 0.0-5.0', RESET EXI
0550 10929	2	\$29.23	\$201,074.00	6,880.000	LF	N	FENCING, SPECIAL TYPE, 5.1-6.0', SPECIAL
0550 60124	1	\$1,100.00	\$1,100.00	1.000	EA	N	FENCE GATE, TYP A, DBL, 18.1-20.' OPENING
0550 60127	1	\$2,500.00	\$2,500.00	1.000	EA	N	FENCE GATE, TYP A, DBL, > THAN 30' OPENING
0550 60211	2	\$865.00	\$1,730.00	2.000	EA	N	FENCE GATE, TYP B, SGL, 0- 6.0' OPENING
0550 60212	1	\$1,500.00	\$4,500.00	3.000	EA	N	FENCE GATE, TYP B, SGL, 6.1-12.0' OPENING
0550 60222	3	\$1,337.78	\$12,040.00	9.000	EA	N	FENCE GATE, TYP B, DBL, 6.1-12.0' OPENING
0550 60223	3	\$2,023.36	\$20,233.63	10.000	EA	N	FENCE GATE, TYP B, DBL, 12.1-18.0' OPENING
0550 60224	5	\$1,295.18	\$22,018.11	17.000	EA	N	FENCE GATE, TYP B, DBL, 18.1-20.0' OPENING
0550 60225	5	\$2,356.67	\$35,350.00	15.000	EA	N	FENCE GATE, TYP B, DBL, 20.1-24' OPENING
0550 60227	1	\$6,300.00	\$6,300.00	1.000	EA	N	FENCE GATE, TYP B, DBL, > THAN 30' OPENING
0550 60232	1	\$1,200.00	\$1,200.00	1.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 6.1-12' OPEN
0550 60233	4	\$3,037.50	\$18,225.00	6.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 12.1-18' OPEN
0550 60234	3	\$2,334.00	\$11,670.00	5.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 18.1-20' OPEN
0550 60235	2	\$4,250.00	\$8,500.00	2.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 20.1-24' OPEN
0550 60236	1	\$3,700.00	\$33,300.00	9.000	EA	N	FENCE GATE, TYP B, SLIDE/CANT, 24.1-30' OPEN
0550 60925	2	\$3,295.20	\$16,476.00	5.000	EA	N	GATE, SPECIAL, DOUBLE, 20.1-24' OPENING
0550 60933	1	\$6,558.00	\$6,558.00	1.000	EA	N	GATE, SPECIAL, SLIDING/CANT, 12.1-18' OPEN
0550 60934	1	\$7,580.00	\$15,160.00	2.000	EA	N	FENCE GATE, SPL, SLIDE/CANT, 18.1-20' OPEN
0550 60935	1	\$7,500.00	\$22,500.00	3.000	EA	N	FENCE GATE, SPL, SLIDE/CANT, 20.1-24' OPEN
0555 1 1	52	\$20.67	\$3,389,539.19	163,946.000	LF	N	DIRECTIONAL BORE, LESS THAN 6"
0555 1 2	41	\$24.95	\$1,127,550.58	45,200.000	LF	N	DIRECTIONAL BORE, 6" TO < 12"
0555 1 3	2	\$131.96	\$47,770.00	362.000	LF	N	DIRECTIONAL BORE, 12" TO < 18"
0555 1 6	1	\$802.00	\$789,970.00	985.000	LF	N	DIRECTIONAL BORE, 36" TO < 48"
0556 1 2	3	\$251.65	\$124,065.00	493.000	LF	N	JACK AND BORE, CASE DIA 6" TO < 12"
0556 1 4	4	\$232.07	\$381,760.70	1,645.000	LF	N	JACK AND BORE, CASE DIA 18" TO < 24"

PASCO COUNTY
LETTER OF UNDERSTANDING



CLERK OF CIRCUIT COURT, PASCO COUNTY

JED PITTMAN

Chis

DADL 001
1724, 121 0547
SUNCOM 67 1342
NEW POST OFFICE
412-847-8187

April 6, 1992

Mr. Fred Wick
Department of Environmental Regulation
2600 Blair Stone Road
Tallahassee, FL 32399-2400

RE: PASCO COUNTY - Letter of Understanding - Landfill
Closure and Long-Term Care

Dear Mr. Wick:

Attached is the referenced letter which should satisfy
your department's requirements.

Should you have any questions, please contact me.

Thank you.

Sincerely,


Jay Abkinsky
Director, Financial Services

do:OLS348.2

PASCO COUNTY

CLERK OF COURT

ENVIRONMENTAL
DEPARTMENT

Reply to:

- Pasco County Courthouse, 705 E. Live Oak Ave., Dade City, FL 33526
- Pasco Government Center, PO Drawer 358, New Port Richey, FL 34654-0358

02-92

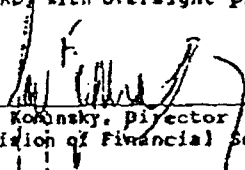
ADM

LETTER OF UNDERSTANDING

The Pasco County Board of County Commissioners (the "BOARD"), through the Office of the Pasco County Clerk of the Circuit Court (the "CLERK"), Division of Financial Services, established an interest-bearing account (no. 251192) with the Florida State Board of Administration. The beneficiary of this account is the BOARD; the account is managed by the CLERK.

This account includes a restricted cash subsidiary account ("SUBACCOUNT") maintained on the books of account of the BOARD for the sole purpose of accumulating funds for Landfill Closure and Long-Term Care of: the Ridge Road Landfill; the East Pasco Sanitary Landfill; the West Pasco Class I and Class III Landfills; and any future sites according to Rule 17-701.076, FAC(1989). The total amount to be maintained in this SUBACCOUNT shall be determined, from time to time, by a Registered Professional Engineer with the State of Florida, and approved by the Florida Department of Environmental Regulation.

It is the intent that funds maintained in this SUBACCOUNT are not to be used for any purpose other than Landfill Closure and Long-Term Care, as described above; disbursement from this SUBACCOUNT must be approved by the BOARD with oversight provided by the CLERK.


Jay Korinsky, Director
Division of Financial Services

OLS348