



Florida Department of Environmental Protection

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

Rick Scott
Governor

Carlos Lopez-Cantera
Lt. Governor

Jonathan P. Steverson
Secretary

August 30, 2016

Transmitted via E-Mail only to: henry.norris@citrusbocc.com

Citrus County Board of County Commissioners
230 West Gulf to Lake Hwy
Lecanto, FL 34461, FL

RE: Citrus County Central Class I Landfill

Solid Waste Operation Permit Renewal
Permit No. 21375-025-SO-01
Replaces Permit No: 21375-018-SO-01
Citrus County
WACS No: 39859

Dear Mr. Norris,

This letter is to acknowledge receipt of the subject facility's recalculated closure and long term care cost estimates dated October 13, 2015. This cost estimate was prepared by Ed Hilton of SCS Engineers for the Citrus County Board of County Commissioners. This cost estimate provides Closure Cost and Annual Long Term Care estimates for Phases 1 (19.1 acres), 2 (6 acres), and 3 (6.8 acres), the old 60-acre landfill (60 acres) and the WTPF at this facility. The recalculated estimate(s) were submitted to comply with Rule 62-701.630(4)(a), Florida Administrative Code, (F.A.C.). The following cost estimates received on October 13, 2015 are **APPROVED for 2016:**

The following costs apply to Phases 1, 2, and 3, the old 60-acre landfill and the WTPF:

Closing Costs	\$5,930,544.23
Annual Long-term care	\$246,750.17
Total Long-term care :	\$7,402,505.14 for 30 years


The next annual cost estimate update is due between July 1 and September 1, 2017.

A copy of these estimates will be forwarded to the Financial Coordinator, FDEP, 2600 Blair Stone Road, MS 4548, Tallahassee, Florida 32399-2400. Please work with Tor Bejnar at (850) 245-8743 (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) 245-8760. 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=39859

Mr. Henry Norris
August 30, 2016
Page 2 of 2

Sincerely,

A handwritten signature in black ink, appearing to read 'Henry Freedenberg', with a long horizontal flourish extending to the right.

Henry Freedenberg PE. PG

Henry Freedenberg, Professional Engineer
Solid Waste Section
Permitting and Compliance Assistance Program

Enclosure: Closure Cost Estimating Form for Solid Waste Facilities 2015

cc: Ed Hilton (EHilton@scsengineers.com)

Steve Morgan, FDEP
Cory Dilmore, P.E., FDEP
Solid.Waste.Financial.Coordinator@dep.state.fl.us
Oculus



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: 39859

I. GENERAL INFORMATION:

Facility Name: Citrus County Central Class I Landfill WACS ID: _____
 Permit Application or Consent Order No.: 21375-18-SO/01 Expiration Date: 12/20/2015
 Facility Address: 230 W. Gulf to Lake Hwy, Lecanto FL, 34461
 Permittee or Owner/Operator: Citrus County Board of County Commissioners
 Mailing Address: P.O. Box 340, Lenacto FL, 34460

Latitude: 28 ° 51 ' 07 " Longitude: 82 ° 26 ' 12 "
 Coordinate Method: Rectangular Survey Sys Datum: WGS84 Geodetic
 Collected by: U.S.Public Land Survey System Company/Affiliation Google Earth

Solid Waste Disposal Units Included in Estimate:

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
Phase 3	6.8	2011	15	13		
Phase 2	6	2005	10	3		
Phase 1	19.1	1991	14	1		
Closed Site	60	1975	Closed	Closed		
Waste Tire 126602-003-WT/02	0.125	NA	On-going	On-going		

Total disposal unit acreage included in this estimate: Closure: 32 Long-Term Care: 60

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

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	SY	170,176	\$0.18	\$30,631.68
Placement and Spreading	CY	56,158	\$4.18	\$234,740.44
Compaction	CY			
Off-Site Material	CY			
Delivery	CY			
Subtotal Slope and Fill:				\$265,372.12
3. Cover Material (Barrier Layer):				
Off-Site Clay	CY			
Synthetics - 40 mil	SY	170,176	\$6.48	\$1,102,740.48
Synthetics - GCL	SY			
Synthetics - Geonet	SY			
Synthetics - Other (explain)	SY	170,176	\$9.45	\$1,608,163.20
Composite				
Subtotal Cover Material:				\$2,710,903.68
4. Top Soil Cover:				
Off-Site Material	CY	1	\$500,425.00	\$500,425.00
Delivery	CY			
Spread	CY			
Subtotal Top Soil Cover:				\$500,425.00
5. Vegetative Layer				
Sodding	SY	170,176	\$2.20	\$374,387.20
Hydroseeding	AC			
Fertilizer	AC			
Mulch	AC			
Other (explain)				
Subtotal Vegetative Layer:				\$374,387.20
6. Stormwater Control System:				
Earthwork	CY			
Grading	SY			
Piping	LF	5,317	\$27.67	\$147,121.39
Ditches	LF			
Berms	LF	5,678	\$0.18	\$1,022.04
Control Structures	EA	14	\$4,500.00	\$63,000.00
Other (explain)				
Subtotal Stormwater Control System:				\$211,143.43

Description	Unit	Number of Units	Cost / Unit	Total Cost
7. Passive Gas Control:				
Wells	EA	70	\$5,500.00	\$385,000.00
Pipe and Fittings	LF			
Monitoring Probes	EA			
NSPS/Title V requirements	LS	1		
Subtotal Passive Gas Control:				\$385,000.00
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			
Subtotal Security System:				
10. Engineering:				
Closure Plan Report	LS	1	\$200,000.00	\$200,000.00
Certified Engineering Drawings	LS	1	\$15,000.00	\$15,000.00
NSPS/Title V Air Permit	LS	1		
Final Survey	LS	1	\$8,500.00	\$8,500.00
Certification of Closure	LS	1	\$35,000.00	\$35,000.00
Other (explain) _____				
Subtotal Engineering:				\$258,500.00

Description	Hours	Cost / Hour	Hours	Cost / Hour	Total Cost
11. Professional Services					
	<u>Contract Management</u>		<u>Quality Assurance</u>		
P.E. Supervisor	160	\$175.00	40	\$175.00	\$35,000.00
On-Site Engineer	480	\$130.00	200	\$130.00	\$88,400.00
Office Engineer	200	\$115.00	200	\$115.00	\$46,000.00
On-Site Technician		\$75.00	840	\$75.00	\$63,000.00
Other (explain) _____	60	\$75.00	400	\$75.00	\$34,500.00
Administrative					

Description	Unit	Number of Units	Cost / Unit	Total Cost
Quality Assurance Testing	LS	1	\$40,000.00	\$40,000.00
Subtotal Professional Services:				\$306,900.00

Subtotal of 1-11 Above: \$5,012,631.43

12. Contingency	<u>10</u>	% of Subtotal of 1-11 Above	<u>\$501,263.14</u>
		Subtotal Contingency:	<u>\$501,263.14</u>

Estimated Closing Cost Subtotal: \$5,513,894.57

Description	Total Cost
13. Site Specific Costs	
Mobilization	\$407,585.36
Waste Tire Facility	\$9,064.30
Materials Recovery Facility	
Special Wastes	
Leachate Management System Modification	
Other (explain) _____	
Subtotal Site Specific Costs:	\$416,649.66

TOTAL ESTIMATED CLOSING COSTS (\$): \$5,930,544.23

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	14	\$1,829.00	\$51,212.00
Annually	1	_____	_____	_____
Subtotal Groundwater Monitoring:				\$51,212.00
2. Surface Water Monitoring [62-701.510(4), and (8)(b)]				
Monthly	12	_____	_____	_____
Quarterly	4	_____	_____	_____
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Surface Water Monitoring:				_____
3. Gas Monitoring [62-701.400(10)]				
Monthly	12	_____	_____	_____
Quarterly	4	19	\$719.74	\$54,700.24
Semi-Annually	2	_____	_____	_____
Annually	1	_____	_____	_____
Subtotal Gas Monitoring:				\$54,700.24
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	_____	_____	_____
Lift Stations	EA	_____	_____	_____
Cleaning	LS	1	\$19,925.00	\$19,925.00
Tanks	EA	4	\$4,200.00	\$16,800.00

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>432</u>	<u>\$8.40</u>	<u>\$3,628.80</u>
Subtotal Leachate Collection / Treatment Systems Maintenance:				<u>\$40,353.80</u>
6. Groundwater Monitoring Well Maintenance				
Monitoring Wells	LF	_____	_____	_____
Replacement	EA	<u>1</u>	<u>\$900.00</u>	<u>\$900.00</u>
Abandonment	EA	<u>1</u>	<u>\$100.00</u>	<u>\$100.00</u>
Subtotal Groundwater Monitoring Well Maintenance:				<u>\$1,000.00</u>
7. Gas System Maintenance				
Piping, Vents	LF	<u>57</u>	<u>\$140.00</u>	<u>\$7,980.00</u>
Blowers	EA	_____	_____	_____
Flaring Units	EA	<u>7</u>	<u>\$140.00</u>	<u>\$980.00</u>
Meters, Valves	EA	_____	_____	_____
Compressors	EA	_____	_____	_____
Flame Arrestors	EA	_____	_____	_____
Operation	LS	<u>1</u>	_____	_____
Subtotal Gas System Maintenance:				<u>\$8,960.00</u>
8. Landscape Maintenance				
Mowing	AC	<u>145</u>	<u>\$47.04</u>	<u>\$6,820.80</u>
Fertilizer	AC	_____	_____	_____
Subtotal Landscape Maintenance:				<u>\$6,820.80</u>
9. Erosion Control and Cover Maintenance				
Sodding	SY	_____	_____	_____
Regrading	AC	<u>1</u>	<u>\$801.54</u>	<u>\$801.54</u>
Liner Repair	SY	<u>1</u>	<u>\$2,195.28</u>	<u>\$2,195.28</u>
Clay	CY	_____	_____	_____
Subtotal Erosion Control and Cover Maintenance:				<u>\$2,996.82</u>
10. Storm Water Management System Maintenance				
Conveyance Maintenance	LS	<u>1</u>	<u>\$9,315.00</u>	<u>\$9,315.00</u>
Subtotal Storm Water Management System Maintenance:				<u>\$9,315.00</u>
11. Security System Maintenance				
Fences	LS	<u>1</u>	<u>\$1,301.50</u>	<u>\$1,301.50</u>
Gate(s)	EA	_____	_____	_____
Sign(s)	EA	_____	_____	_____
Subtotal Security System Maintenance:				<u>\$1,301.50</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
12. Utilities	LS	<u>1</u>		
			Subtotal Utilities:	
13. Leachate Collection/Treatment Systems Operation				
<u>Operation</u>				
P.E. Supervisor	HR	<u>96</u>	<u>\$175.00</u>	<u>\$16,800.00</u>
On-Site Engineer	HR	<u></u>	<u></u>	<u></u>
Office Engineer	HR	<u>32</u>	<u>\$115.00</u>	<u>\$3,680.00</u>
OnSite Technician	HR	<u>300</u>	<u>\$75.00</u>	<u>\$22,500.00</u>
Materials	LS	<u>1</u>	<u></u>	<u></u>
			Subtotal Leachate Collection/Treatment Systems Operation:	<u>\$42,980.00</u>
14. Administrative				
P.E. Supervisor	HR	<u>48</u>	<u>\$175.00</u>	<u>\$8,400.00</u>
On-Site Engineer	HR	<u></u>	<u></u>	<u></u>
Office Engineer	HR	<u></u>	<u></u>	<u></u>
OnSite Technician	HR	<u>48</u>	<u>\$75.00</u>	<u>\$3,600.00</u>
Other <u>Clerical</u>	<u>HR</u>	<u>48</u>	<u>\$70.00</u>	<u>\$3,360.00</u>
			Subtotal Administrative:	<u>\$15,360.00</u>

Subtotal of 1-14 Above: \$235,000.16

15. Contingency	<u>5</u>	% of Subtotal of 1-14 Above		<u>\$11,750.01</u>
			Subtotal Contingency:	<u>\$11,750.01</u>

Description	Unit	Number of Units / Year	Cost / Unit	Annual Cost
16. Site Specific Costs				
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
<u></u>	<u></u>	<u></u>	<u></u>	<u></u>
			Subtotal Site Specific Costs:	<u></u>

ANNUAL LONG-TERM CARE COST (\$ / YEAR): \$246,750.17

Number of Years of Long-Term Care: 30

TOTAL LONG-TERM CARE COST (\$): \$7,402,505.04

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.

Charles E. Hilton
Signature

4041 Park Oaks Blvd.
Mailing Address

C. Ed Hilton Jr., P.E., Vice President
Name and Title (please type)

Tampa, FL 33610
City, State, Zip Code

10/13/15
Date

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

46916
Florida Registration Number
(please affix seal)

(813) 621-0080
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

Henry C. Norris
Signature of Applicant

230 W Gulf to Lake Highway
Mailing Address

Henry C. Norris, Director, Solid Waste
Name and Title (please type)

Lecanto, FL 34460
City, State, Zip Code

henry.norris@citrusbocc.com
E-Mail address (if available)

352-527-7670
Telephone Number

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

1.) Monitoring Wells

All proposed groundwater monitoring wells have or will be installed during the base construction. No additional wells are proposed at the time of this cost estimate.

2.) Slope and Fill (bedding layer between waste and barrier layer)

There has been no change to the Closure design for the Citrus County Central Landfill therefore the Volumes and Calculations are based on previously approved calculations by SCS Engineers in "Operations Permit Renewal Application" dated February 1, 2010.

Area from CADD = 1,465,407 sf Sideslope area = 1,203,156 sf 5.5% added to account for sideslope area
 Revised Area = $(1,203,156 \times 105.5\%) = 1,269,329$ s Total Area = $1,269,329 + 262,251$ (flat top area) = $1,531,581$ sf = **170,176 SY**
 $170,176 \text{ sy} \times 6" (0.16 \text{ sy}) = 28,363 \text{ CY}$

Excavaton

Assume 6 inches of soil over the surface area. Existing intermediate cover will be fine graded and then 6" of offsite cover will be delivered, spread and compacted.

- Cost obtained from Attachment 2 RS Means Fine Grading
 Fine Grading = **\$0.18 per SY**

Placement and Spreading

To complete the cover under the liner, 1' (0.33yd) of off-site material will be added to the whole landfill.

$170,176 \text{ sy} \times 0.33 \text{ yd} = 56,158.08 \text{ Cubic Yards}$

- Cost obtained from Attachment 11 RS Means Fill from stockpile. See Attachment 12 for calculations for on-site soil.
 "Fill and Grade - Common Fill = **\$4.18/cubic yard**.

Compaction

Included in "Placement and Spreading".

Off Site Material

Not Applicable - According to Rule 62-701.630.3(d) the onsite soils will be used. Please see Attachment 12 for more information.

Delivery

Not Applicable - See Off Site Material not above.

3.) Cover Material (Barrier Layer)

Off-Site Clay - Not anticipated at the time of this cost estimate.

Synthetics - 40 mil - Quantity based on the landfill surface area plus and additional 5% for loss factor. The closure surface area is
 $170,176 \times 1.05 = \mathbf{178,685 \text{ sq yds}}$

- Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
 Furnish and Install Textured 40-Mil LLDPE Geomembrane Liner = $\$0.72/\text{square foot} \times 9 \text{ Ft/Yd} =$
\$6.48/ Square Yard

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

3.) Cover Material (Barrier Layer) (Continued)

Synthetics - Composite - Quantity based on the landfill surface area plus and additional 5% for loss factor. The closure surface area is **178,685 sq yds.**

- Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
Furnish and Install 300 mil Double Sided Composite Drainage Net= \$1.05 sf = **\$9.45/Square Yard**

Synthetics - Other - Not anticipated at the time of this cost estimate.

4.) Top Soil Cover

Off-Site Material - Final closure surface area is **178,685** square yards.

Assumed the following:

6 inch topsoil layer used =>	30,376 cubic yards	30,376 cu. yd. x \$4.18 =	\$126,974
18 inch protective layer =>	89,343 cubic yards	89,343 cu. Yd. x \$4.18=	373,452
Total off-site material required =>	119,719 cubic yards	Total =	<u>\$500,425</u>

- Cost obtained from Attachment 11 RS Means Fill from stockpile. See Attachment 12 for calculations for on-site soil.
Fill from stockpile = **\$4.18/cubic yard.**

Delivery - Included in the material price.

Spread - Included in the material price.

5.) Vegetative Layer

Off-Site Material - Final closure surface area is 178,685 square yards.

Assumed the following:

- Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
Sodding = **\$2.20/square yard.**

Hydroseeding - Not anticipated at the time of this cost estimate.

Fertilizer - Not anticipated at the time of this cost estimate.

Mulch - Not anticipated at the time of this cost estimate.

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

6.) Stormwater Control System

Earthwork - Assumed to be included in Piping cost below based on RS Means Attachment 3.

Grading - Assumed to be included in Piping cost identified below based on RS Means Attachment 3.

Piping - Assume all piping is 18 inch. Unit cost is based on RS Means Attachment 3.

12" pipe = 1,832 ft 18" pipe = 2,235 ft 24" pipe = 1,250 ft **Total Pipe = 5317 ft**

- Cost obtained from Attachment 3 RS Means Report
Cost to Excavate, Install Pipe and Backfill = **\$27.67/ft**

Ditches - Will not be required.

Berms - Cost based on RS Means Attachment 2. Fine Grading = **\$0.18 per SY**

Cross-sectional Area = (2 ft x 20 ft)/2 = 20sf Total Length = 5,678 ft Volume = 20 sf x 5678 ft = 113,560 cf = 4,206 cy

Control Structures - Quantity of structures is assumed to be 14 control structures.

- Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
Furnish and Install Downrain Outfall Structures = **\$4,500 each**.

7.) Passive Gas Control

Assume 2 gas vents per acre will be installed
35 acres x 2 = 70 vents

- Cost is based on SCS experience and data.
Furnish and Install 55' deep gass well = \$100 /ft x 55 ft = **\$5,500 each**.

8.) Active Gas Extraction Control

This landfill does not have an active landfill gas collection and control system. Hence Item 8 is not applicable.

9.) Security System

The landfill has an existing security system. No new security measures are proposed during closure.

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

10.) Engineering

All engineering costs and services are estimated by SCS Engineers. These costs would be typical for any third party engineering consulting firm to perform these tasks.

A breakdown of the costs are presented on the form. A NSPS/Title V Permit already exists for the facility.

11.) Professional Services

A breakdown of the costs are presented on the form. The Costs are based on SCS Fee schedule in Attachment 9.

12.) Contingency

A contingency amount of **10%** of the total cost was used in the cost estimate. This value is consistent with actual contingency values used in bidding landfill construction projects.

13.) Site Specific Costs

Mobilization - **5%** of Sub-total 1-11 (of the total cost of construction)
contingency values used in bidding landfill construction projects.

Waste Tire Facility - The costs associated with the closure of the waste tire facility are assumed to be the cost of the contracted disposal of 1,000 tones off tires. Per Orange County's current contract (Y12-1025-LC Attachment 4), this rate is a weighted average of the removal of Passenger/Truck tires and Oversized tires. 115 tons X \$78.82 per ton = **\$9,064.30**. Once the tires are removed regrading and seeding will to be used.

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

1.) Groundwater Monitoring

There are 14 groundwater that are monitored Semi-annually and 14 that are monitored annually.

- Cost obtained from Attachment 5 Proposal for Groundwater and Leachate Sampling and Reporting
the total cost = \$51,217 \$51,217 / 14 wells / 2 events = \$1,829 per well

2.) Surface Water Monitoring

This landfill does not have any surface water. Hence Item 2 is not applicable.

3.) Gas Monitoring

Gas monitoring occurs quarterly in 19 probes.

- Cost is assumed to be the same as the existing contract (PO # 73777 Attachment 10)
Contract price = \$54,700 \$54,700 / 19 probes / 4 events = \$719.74 per probe

4.) Leachate Monitoring

The leachate is now pumped to a WWTP. Hence Item 4 is not applicable.

5.) Leachate Collection/Treatment Systems Maintenance

- Cost obtained from Attachment 6 Florida JetClean Proposal for Citrus County Landfill
Contract price = \$19,925

- Cost obtained from Attachment 7 CECS Proposal for Washout and Inspection
Price per Tank = \$4,200 per Tank

Off-site disposal cost based on Attachment 8 Agreement with WWTP = \$8.40/1000 gal.

6.) Groundwater Monitoring Well Maintenance

Assume that one monitoring well needs to be replaced every five years.

- Cost based on SCS experience and data for replacement and abandonment.
Install Monitoring Wells = \$4,500 each, Abandon Monitoring Wells = \$500 each.

6 wells to be abandoned in 30 years and 6 to be replaced.

Replacement - (\$4500 per well X 6 wells)/30 years = **\$900/year**

Abandonment - (\$500 per well X 6 wells)/30 years = **\$100/year**

7.) Gas System Maintenance

Piping: Assume that half of the vents need maintenance every year (44 old LF + 70 Phase I, IA, II and III = 114) = 57 vents per year. Assume that 2 technicians could complete each well in 1 hour. Cost based on SCS Fee sheet in Attachment 9.

Total cost = 1 hr/vent x 2 technicians x 57 vents x \$75/hr. Tech. = \$8,550

Unit Cost = \$7,980/57 vents = \$150/vent

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

7.) Gas System Maintenance (Continued)

Flare Unit: Assume 7 flaring units will need maintenance each year. Assume that 2 technicians could complete each flare in 1 hour.
 1 hr. x 2 Technicians x \$75 /hr. x 7 flares = \$1,050
 Unit Cost = \$1,050/7 flares = **\$150/unit**

Replacement : Assume a monitoring probe will be replaced twice within the next 30 years.
 Cost based on SCS Experience and Data = \$2,500 per monitoring probe. \$2,500 x 2 probes = \$5,000
 Annual Cost = \$5,000/30 years = **\$166.66 per year**

8.) Landscape Maintenance

Long-term care is assumed to include mowing the landfill surface quarterly. Fertilizing is not performed.
 Mowing area - 145 acres * 4 times per year = 580 acres
 Cost based on RS Means Quote. \$0.27 per 1000 sf.
 Total Cost = 580 acres x 43560 sf/acre x \$0.27/1000sf = \$6,821.50/ 145 acres = **47.04 per acre**

9.) Erosion Control and Cover Maintenance

Regrading: Assume 1% of total acreage will be regraded each year. Cells cover (92 acres x 43560 sf/acre) / 9 sf/sy = 445,280 sy
 445,280 x 0.01 = 4453 sy/year
 Cost from RS Means = \$0.18 / sy
 Annual Cost= 4453 sy x \$0.18/ sy = **\$801.54 per year**

Liner: Assume 1% of liner is repaired every 5 years. Area = (1,524,573 sf x 0.01)/5 years = 3049 sf/ year
 - Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
 Annual cost = 3049 sf x \$0.72/sf = **\$2,195.28 per year**

10.) Storm Water Management System Maintenance

Pipes: Assume 250 ft of pipe to be replace each year.
 - Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
 Not Applicable - See Off Site Material not above.
 Annual Cost = 250 LF x \$34.66 /LF = \$8,665 per year

Control Structures: Assume one structure to be replaced every 5 years.
 - Cost obtained from Attachment 1 Bid Breakdown Summary for the 2015 Side Slope Closure
 Furnish and install Toe Drain Outfall Structure = \$2000 Downdrain Structure = \$4,500 Average = (\$2000 + \$4500)/2 = \$3250
 Annual Cost = \$3250 / 5 years = \$650 per year

Total Annual Cost = \$8,665 + \$650 = **\$9,315 per year**

11.) Security System Maintenance

Estimate 50 LF of fence requires repair or replacement each year.
 - Cost obtained from RS Means see Attachment 8 Rs Means Quote
 Annual Cost = 50 LF x \$26.03 = **\$1,301.50 per year**

CLIENT Citrus County	PROJECT Central Landfill Full Financial Assurance	JOB NO. 09210021.26
SUBJECT Financial Assurance	BY IUS	DATE 10/13/2015
	CHECKED	DATE

12.) Utilities

No Cost included for this item. Cost associated with pumps are included in leachate treatment system maintenance costs.

13.) Leachate Collection/Treatment Systems Operation

Assume 4 hour/month for site manger to oversee all the site operations.

Cost based on Senior Project Professional = \$112 /hour

Total = 4 hours/month x 12 months x \$112 /hour = **\$5,376 per year**

14.) Administrative

See Form for breakdown.

15.) Contingency

- 5% of estimated subtotal cost.

16.) Site Specific Costs

There are no site specific costs associated with the long-term care.

Attachment 1

Side Slope Closure Bid Tab

BRIDGEWAY ACRES CLASS I LANDFILL
SIDE SLOPE CLOSURE
PROJECT NO.: 000748A/1792

				Southeast Environmental Contracting, Inc.		GLF Construction Corporation		Kamminga & Roodvoets, Inc.		Talle Construction Co., Inc.	
Pay Item	Item Description	Quantity	Unit	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount	Unit Cost	Amount
1	Mobilization and Demobilization	1	LS	\$ 266,000.00	\$ 266,000.00	\$ 280,000.00	\$ 280,000.00	\$310,000.00	\$ 310,000.00	\$266,000.00	\$ 266,000.00
2	Site Preparation	31	ACRES	\$ 12,000.00	\$ 372,000.00	\$ 21,550.00	\$ 668,050.00	\$ 28,500.00	\$ 883,500.00	\$ 15,000.00	\$ 465,000.00
3	Fill and Grade - Common Fill	55,000	CY	\$ 20.00	\$ 1,100,000.00	\$ 9.00	\$ 495,000.00	\$ 25.00	\$ 1,375,000.00	\$ 31.00	\$ 1,705,000.00
4	Fill and Grade - 6-inch Final Cover Foundation Layer	30,000	CY	\$ 22.00	\$ 660,000.00	\$ 34.00	\$ 1,020,000.00	\$ 28.00	\$ 840,000.00	\$ 31.00	\$ 930,000.00
5	Fill and Grade - 18-inch Protective Soil Layer	90,000	CY	\$ 21.00	\$ 1,890,000.00	\$ 40.00	\$ 3,600,000.00	\$ 26.00	\$ 2,340,000.00	\$ 31.00	\$ 2,790,000.00
6	Fill and Grade - 6-inch Vegetative Layer	30,000	CY	\$ 8.00	\$ 240,000.00	\$ 14.00	\$ 420,000.00	\$ 25.00	\$ 750,000.00	\$ 5.00	\$ 150,000.00
7	Furnish and Install Textured 40-mil LLDPE Geomembrane Liner	1,365,000	SF	\$ 0.72	\$ 982,800.00	\$ 0.50	\$ 682,500.00	\$ 0.90	\$ 1,228,500.00	\$ 0.44	\$ 600,600.00
8	Furnish and Install 250 mil Double Sided Composite Drainage Net	1,365,000	SF	\$ 0.90	\$ 1,228,500.00	\$ 0.62	\$ 846,300.00	\$ 0.95	\$ 1,296,750.00	\$ 0.59	\$ 805,350.00
9	Furnish and Install 300 mil Double Sided Composite Drainage Net	1,365,000	SF	\$ 1.10	\$ 1,501,500.00	\$ 0.75	\$ 1,023,750.00	\$ 1.05	\$ 1,433,250.00	\$ 0.73	\$ 996,450.00
10	Furnish and Install 8-inch Perforated Toe Drain HDPE Pipe	6,350	LF	\$ 80.00	\$ 508,000.00	\$ 52.30	\$ 332,105.00	\$ 70.00	\$ 444,500.00	\$ 30.00	\$ 190,500.00
11	Furnish and Install 8-inch Solid Toe Drain HDPE Pipe	465	LF	\$ 30.00	\$ 13,950.00	\$ 20.00	\$ 9,300.00	\$ 35.00	\$ 16,275.00	\$ 25.00	\$ 11,625.00
12	Furnish and Install Toe Drain Outfall Structures	15	EACH	\$ 750.00	\$ 11,250.00	\$ 2,375.00	\$ 35,625.00	\$ 2,000.00	\$ 30,000.00	\$ 500.00	\$ 7,500.00
13	Furnish and Install Temporary Stormwater System	1	LS	\$ 14,000.00	\$ 14,000.00	\$ 50,000.00	\$ 50,000.00	\$146,000.00	\$ 146,000.00	\$100,000.00	\$ 100,000.00
14	Furnish and Install 24-inch Corrugated HDPE Downdrain Pipe	3,300	LF	\$ 50.00	\$ 165,000.00	\$ 70.00	\$ 231,000.00	\$ 65.00	\$ 214,500.00	\$ 50.00	\$ 165,000.00
15	Furnish and Install 18-inch Corrugated HDPE Downdrain Pipe	1,400	LF	\$ 36.00	\$ 50,400.00	\$ 61.00	\$ 85,400.00	\$ 51.00	\$ 71,400.00	\$ 33.00	\$ 46,200.00
16	Furnish and Install 12-inch Corrugated HDPE Downdrain Pipe	2,000	LF	\$ 12.00	\$ 24,000.00	\$ 21.00	\$ 42,000.00	\$ 31.00	\$ 62,000.00	\$ 43.00	\$ 86,000.00
17	Furnish and Install 24-inch Flashboard Riser	48	EACH	\$ 1,500.00	\$ 72,000.00	\$ 3,000.00	\$ 144,000.00	\$ 3,000.00	\$ 144,000.00	\$ 1,000.00	\$ 48,000.00
18	Furnish and Install 8-inch Solid HDPE Pipe (Downdrain)	450	LF	\$ 11.00	\$ 4,950.00	\$ 30.00	\$ 13,500.00	\$ 58.00	\$ 26,100.00	\$ 58.94	\$ 26,523.00
19	Furnish and Install Downdrain Outfall Structure	13	EACH	\$ 15,000.00	\$ 195,000.00	\$ 6,400.00	\$ 83,200.00	\$ 4,500.00	\$ 58,500.00	\$ 2,500.00	\$ 32,500.00
20	Furnish and Install Trench Drain Liner Flap	10,850	LF	\$ 20.00	\$ 217,000.00	\$ 13.00	\$ 141,050.00	\$ 20.00	\$ 217,000.00	\$ 16.00	\$ 173,600.00
21	Furnish and Install Trench Drain	10,850	LF	\$ 65.00	\$ 705,250.00	\$ 45.00	\$ 488,250.00	\$ 32.00	\$ 347,200.00	\$ 12.00	\$ 130,200.00

BID NO: 145-0282-CP(DF)				BRIDGEWAY ACRES CLASS I LANDFILL SIDE SLOPE CLOSURE PROJECT NO.: 000748A/1792							
				Southeast Environmental Contracting, Inc.		GLF Construction Corporation		Kamminga & Roodvoets, Inc.		Talle Construction Co., Inc.	
22	Furnish and Install Fabric Formed Concrete Riprap	12,000	SF	\$ 7.00	\$ 84,000.00	\$ 9.00	\$ 108,000.00	\$ 25.00	\$ 300,000.00	\$ 8.00	\$ 96,000.00
23	Waste Excavation	69,000	CY	\$ 6.00	\$ 414,000.00	\$ 14.00	\$ 966,000.00	\$ 3.50	\$ 241,500.00	\$ 3.50	\$ 241,500.00
24	Waste Regrading	24,200	CY	\$ 5.00	\$ 121,000.00	\$ 4.80	\$ 116,160.00	\$ 8.00	\$ 193,600.00	\$ 2.00	\$ 48,400.00
25	Waste Relocation	37,400	CY	\$ 4.00	\$ 149,600.00	\$ 4.80	\$ 179,520.00	\$ 9.00	\$ 336,600.00	\$ 4.00	\$ 149,600.00
26	Furnish and Install Shallow Passive Gas Vents	13	EACH	\$ 2,500.00	\$ 32,500.00	\$ 4,750.00	\$ 61,750.00	\$ 5,000.00	\$ 65,000.00	\$ 6,000.00	\$ 78,000.00
27	Furnish and Install Oblong Corrugated Slotted Polyethylene Pipe	19,560	LF	\$ 50.00	\$ 978,000.00	\$ 22.00	\$ 430,320.00	\$ 25.00	\$ 489,000.00	\$ 25.00	\$ 489,000.00
28	Furnish and Install Sod	155,000	SY	\$ 2.25	\$ 348,750.00	\$ 2.20	\$ 341,000.00	\$ 4.00	\$ 620,000.00	\$ 1.90	\$ 294,500.00
29	Furnish and Install Access Roads	8,850	SY	\$ 23.00	\$ 203,550.00	\$ 20.00	\$ 177,000.00	\$ 26.00	\$ 230,100.00	\$ 45.00	\$ 398,250.00
30	Furnish and Install 48-inch Concrete Pipe and Mitered End Sections	144	LF	\$ 250.00	\$ 36,000.00	\$ 600.00	\$ 86,400.00	\$ 560.00	\$ 80,640.00	\$ 250.00	\$ 36,000.00
31	Furnish and Install 24-inch Corrugated Plastic Pipe	60	LF	\$ 48.00	\$ 2,880.00	\$ 300.00	\$ 18,000.00	\$ 200.00	\$ 12,000.00	\$ 135.00	\$ 8,100.00
32	Furnish and Install 24-inch Mitered end Sections and 24-inch Concrete Pipe	80	LF	\$ 100.00	\$ 8,000.00	\$ 275.00	\$ 22,000.00	\$ 225.00	\$ 18,000.00	\$ 125.00	\$ 10,000.00
33	Furnish and Install 30-inch Ductile Iron Pipe Sleeve	250	LF	\$ 150.00	\$ 37,500.00	\$ 300.00	\$ 75,000.00	\$ 250.00	\$ 62,500.00	\$ 100.00	\$ 25,000.00
34	Furnish and Install 12-inch HDPE Forcemain	4,350	LF	\$ 50.00	\$ 217,500.00	\$ 115.00	\$ 500,250.00	\$ 55.00	\$ 239,250.00	\$ 55.00	\$ 239,250.00
35	Furnish and Install the North Forcemain Connection	1	LS	\$ 5,000.00	\$ 5,000.00	\$ 20,000.00	\$ 20,000.00	\$ 14,500.00	\$ 14,500.00	\$ 8,000.00	\$ 8,000.00
36	Furnish and Install the Southwest Forcemain Connection	1	LS	\$ 4,000.00	\$ 4,000.00	\$ 21,000.00	\$ 21,000.00	\$ 14,500.00	\$ 14,500.00	\$ 7,000.00	\$ 7,000.00
37	Indemnification	1	LS		\$ 100.00		\$ 100.00		\$ 100.00		\$ 100.00
38	Miscellaneous Work and Cleanup	1	LS		\$ 25,000.00		\$ 115,000.00		\$ 750,000.00		\$ 1,480,000.00
39	Contingency for Unspecified Work	1			\$ 800,000.00		\$ 800,000.00		\$ 800,000.00		\$ 800,000.00
TOTAL BID					\$13,688,980.00		\$ 14,728,530.00		\$ 16,701,765.00		\$14,134,748.00

\$

0.08

\$

0.03




Attachment 2

Rs Means Cost Detail
(Mow, Fine Grade, Fence)

Date: 09/14/2015

Citrus Operation and Maintenance
Year 2015 Quarter 3
Unit Detail Report

Prepared By:
Mike McLaughlin
SCS Engineers

LineNumber		Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 01 General Requirements						
019304350080		Mowing lawns, tractor, 5 gang reel, 12' cut	1.00	M.S.F.	\$0.27	\$0.27
Division 01 General Requirements Subtotal						\$0.27
Division 31						
312216103300		Fine grading, slopes, gentle, finish grading	1.00	S.Y.	\$0.18	\$0.18
Division 31 Subtotal						\$0.18
Division 32						
323113202100		Fence, chain link industrial, no barbed wire, galvanized steel, 2" line post, 10' O.C., 1-5/8" top rail, 5' - 0" high, includes excavation, in concrete	1.00	L.F.	\$25.58	\$25.58
Division 32 Subtotal						\$25.58
Subtotal						\$26.03
General Contractor's Markup on Subs				0.00%		\$0.00
Subtotal						\$26.03
General Conditions				0.00%		\$0.00
Subtotal						\$26.03
General Contractor's Overhead and Profit				0.00%		\$0.00
Grand Total						\$26.03




Attachment 3

Rs Means Cost Detail (Piping)

Date: 09/14/2015

Citrus Piping
Year 2015 Quarter 3
Unit Detail Report

Prepared By:
Mike McLaughlin
SCS Engineers

LineNumber				Description	Quantity	Unit	Total Incl. O&P	Ext. Total Incl. O&P
Division 31 Earthwork								
312316130050				Excavating, trench or continuous footing, common earth, 3/8 C.Y. excavator, 1' to 4' deep, excludes sheeting or dewatering	1.00	B.C.Y.	\$9.09	\$9.09
312323142020				Backfill, structural, common earth, 80 H.P. dozer, 50' haul, from existing stockpile, excludes compaction	1.00	L.C.Y.	\$1.30	\$1.30
Division 31 Earthwork Subtotal								\$10.39
Division 33 Utilities								
334113501060				Public storm utility drainage piping, drainage and sewage, corrugated HDPE, type S, bell and spigot, with gaskets, 18" diameter, excludes excavation and backfill	1.00	L.F.	\$17.28	\$17.28
Division 33 Utilities Subtotal								\$17.28
Subtotal							<hr/> \$27.67	
General Contractor's Markup on Subs						0.00%	<hr/> \$0.00	
Subtotal							<hr/> \$27.67	
General Conditions						0.00%	<hr/> \$0.00	
Subtotal							<hr/> \$27.67	
General Contractor's Overhead and Profit						0.00%	<hr/> \$0.00	
<hr/> Grand Total								\$27.67

Attachment 4

**Bid Proposal Y12-1025-LC
(Waste Tire)**

BID PROPOSAL FORM
IFB #Y12-1025-LC

The Contractor shall provide all labor and other resources necessary to provide the supplies, equipment and/or services in strict accordance with the specifications defined in this solicitation for the amounts specified in this Bid Proposal Form, inclusive of overhead, profit and any other costs.

<u>ITEM NO.</u>	<u>DESCRIPTION</u>	<u>ESTIMATED ANNUAL QUANTITY</u>	<u>UNIT PRICE PER TON</u>	<u>ESTIMATED TOTAL</u>
1.	Removal of Passenger/Truck Waste Tires Off -Site (section A)	1,125 tons	x \$ <u>76.00</u>	= \$ <u>85,500</u>
Removed Waste Tires will be: Recycled (X) or Disposed ()				
2.	Removal of Oversized Waste Tires Off-Site (section B)	150 tons	x \$ <u>100.00</u>	= \$ <u>15,000</u>
Removed Waste Tires will be: Recycled (X) or Disposed ()				

If recycling in accordance with provisions of Florida Administrative Code 62-701, enter five percent (5%) discount.

\$ 5,025.00

TOTAL ESTIMATED BID

\$ 95,475.00

SO49-0199726-012 &

Waste Tire General Permit Number: WT49-0199726-014 Expiration Date: _____

* see attached permit renewal application - existing permit is currently active.

Off-Site Processing Facility:

Name of Facility: Omni Waste of Osceola County, LLC, DBA J.E.D. Solid Waste Management Facility

Address of Facility: 1501 Omni Way, St. Cloud, FL 34773

Contact Person: Roger O'Connor Telephone Number: 407-908-3666

Was Visual Inspection made, per Special Terms and Conditions? Yes ___ No X

Omni Waste of Osceola County, LLC.

Company Name

Attachment 5

Goundwater and Leachate Sampling Bid Breakdown

Citrus County Central Landfill
GROUNDWATER AND LEACHATE SAMPLING AND REPORTING AND WATER QUALITY MONITORING PLAN EVALUATION - FY 2014-2015
Cost Proposal - August 2014

Task #	Task Description	\$235.00		\$195.00		\$180.00		\$145.00		\$120.00		\$90.00		Total Hours	Task Total	OPs	ODCs	Total
		Hrs	\$	Hrs	\$	Hrs	\$	Hrs	\$	Hrs	\$	Hrs	\$					
1	Semi-Annual Groundwater Sampling & Reporting	4	\$940	8	\$1,560	24	\$4,320	80	\$11,600	56	\$6,720	40	\$3,600	212	\$28,740	\$20,977	\$1,500	\$51,217
2	Leachate Sampling and Reporting	1	\$235	2	\$390	4	\$720	16	\$2,320	8	\$960	8	\$720	39	\$5,345	\$2,200	\$400	\$7,945
3	Water Quality Monitoring Plan Evaluation (First Half 2013 - First Half 2015)	4	\$940	32	\$6,240	30	\$5,400	100	\$14,500	130	\$15,600	40	\$3,600	336	\$46,280	\$0	\$1,000	\$47,280
	Total Cost Lump Sum																	\$106,442
4	Groundwater Re-sampling (assumes re-sampling MW-10, MW-18, MW-19, MW-20 & MW-21 for all parameters analyzed from these wells during compliance sampling)	1	\$235	2	\$390	4	\$720	20	\$2,900	10	\$1,200	10	\$900	47	\$6,345	\$7,436	\$500	\$14,281
5	Leachate Re-sampling (assumes one semi-annual effluent sample for all parameters)	0	\$0	2	\$390	2	\$360	8	\$1,160	4	\$480	4	\$360	20	\$2,750	\$1,100	\$200	\$4,050
	Total Cost Not-To-Exceed Contingency Amount																	\$18,331
	Total Cost																	\$124,773