

**FINANCIAL ASSURANCE CLOSURE AND
LONG-TERM CARE COST ESTIMATE
HARDEE COUNTY LANDFILL**

**PERMIT NO.: 38414-016-SO/01
FACILITY ID NO.: 40612**

Submitted to:

**FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION
DIVISION OF WASTE MANAGEMENT**
2600 Blair Stone Road Stop #4500
Tallahassee, Florida 32399-2400

Prepared for:

HARDEE COUNTY SOLID WASTE MANAGEMENT
685 Airport Road
Wauchula, FL 33873

Prepared by:

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Certificate of Authorization # 1841

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TABLE OF CONTENTS

| | |
|---|-----|
| TABLE OF CONTENTS..... | I |
| 1.0 OVERVIEW | 1-1 |
| 1.1 INTRODUCTION | 1-1 |
| 1.2 ASSUMPTIONS..... | 1-1 |
| 2.0 EXPLANATION OF CLOSURE COST ESTIMATES..... | 1 |
| 2.1 ITEM NO. 1 MONITORING WELLS..... | 1 |
| 2.2 ITEM NO. 2 SLOPE AND FILL..... | 1 |
| 2.3 ITEM NO. 3 COVER MATERIAL (BARRIER LAYER) | 2 |
| 2.4 ITEM NO. 4 TOP SOIL COVER | 2 |
| 2.5 ITEM NO. 5 VEGETATIVE LAYER..... | 2 |
| 2.6 ITEM NO. 6 STORMWATER CONTROL SYSTEM | 2 |
| 2.7 ITEM NO. 7 GAS CONTROLS: PASSIVE | 2 |
| 2.8 ITEM NO. 8 GAS CONTROLS: ACTIVE EXTRACTION..... | 3 |
| 2.9 ITEM NO. 9 SECURITY SYSTEM..... | 3 |
| 2.10 ITEM NO. 10 ENGINEERING..... | 3 |
| 2.11 ITEM NO. 11 PROFESSIONAL SERVICES..... | 3 |
| 2.12 ITEM NO. 12 CONTINGENCY ITEM | 3 |
| 2.13 ITEM NO. 13 SITE SPECIFIC COSTS ITEM | 3 |
| 3.0 LONG-TERM CARE EXPLANATION OF COST ESTIMATES..... | 0 |
| 3.1 ITEM NO. 1 – GROUNDWATER MONITORING..... | 0 |
| 3.2 ITEM NO. 2 – SURFACE WATER MONITORING | 0 |
| 3.3 ITEM NO. 3 – GAS MONITORING | 0 |
| 3.4 ITEM NO. 4 – LEACHATE MONITORING | 0 |
| 3.5 ITEM NO. 5 – LEACHATE COLLECTION/TREATMENT SYSTEMS | 0 |
| 3.6 ITEM NO. 6 – MAINTENANCE OF GROUNDWATER MONITORING WELLS | 1 |
| 3.7 ITEM NO. 7 – GAS SYSTEM MAINTENANCE..... | 1 |
| 3.8 ITEM NO. 8 – LANDSCAPE | 1 |
| 3.9 ITEM NO. 9 – EROSION CONTROL & COVER MAINTENANCE..... | 2 |
| 3.10 ITEM NO. 10 – STORMWATER MANAGEMENT SYSTEM MAINTENANCE | 2 |
| 3.11 ITEM NO. 11 – SECURITY SYSTEM MAINTENANCE | 2 |
| 3.12 ITEM NO. 12 – UTILITIES | 2 |
| 3.13 ITEM NO. 13 – LEACHATE COLLECTION/TREATMENT SYSTEMS OPERATION..... | 2 |
| 3.14 ITEM NO. 14 – ADMINISTRATIVE..... | 3 |
| 3.15 ITEM NO. 15 – CONTINGENCY | 3 |

| | |
|---|---|
| 3.16 ITEM NO. 16 – SITE-SPECIFIC COSTS..... | 3 |
|---|---|

EXHIBITS

EXHIBIT R-1 FINANCIAL ASSURANCE COST ESTIMATE FORM
EXHIBIT R-2 BACKUP OF LONG-TERM-CARE UNIT COSTS

1.0 OVERVIEW

1.1 INTRODUCTION

This document presents the estimated closure and long-term care costs for the Hardee County Landfill as required by Rules 62-701.630, FAC and 62-701.730, FAC. Exhibit R-1 provides Financial Assurance Cost Estimate Form 62-701.900(28) showing the detailed cost estimates for closure and long-term care of the Hardee County Class I Landfill. Exhibit R-2 provides backup for costs. The following describes how the costs for the estimate of closure and long-term care were obtained.

1.2 ASSUMPTIONS

The detailed closure and long-term care cost estimates are based on the following assumptions:

- The unit costs provided with each item are costs from recent bids, FDOT Pay Item 12-Month Moving Averages, and RS Means Heavy Construction Cost Data (www.rsmeansonline.com).
- Item costs that were estimated using the RS Means Heavy Construction Cost Data (www.rsmeansonline.com) are for Tampa, Florida, which is the closest location available in the online edition and is representative of costs for Wauchula, Florida.

Table 1.1 defines the abbreviations used in the cost estimate.

| Table 1.1 List of Abbreviations | | | |
|---------------------------------|------------|------|-------------------|
| AC | Acre | KGAL | 1,000 Gallons |
| CF | Cubic foot | LF | Linear foot |
| CY | Cubic yard | LS | Lump sum |
| DY | Day | MSF | 1,000 square feet |
| EA | Each | SF | Square foot |
| GAL | Gallons | SY | Square yard |
| HR | Hour | YR | Year |

2.0 EXPLANATION OF CLOSURE COST ESTIMATES

This section presents the basis of the work and assumptions to calculate the closure cost estimates. The closure area is based on the most recent closure design dated April 2013 and has a 3D surface area of approximately 15 acres.

| Table 2.1 Calculated Soil Volume for Landfill Closure | | | | | | |
|---|----------------------|-------------|---------------------------------------|---------------------------------------|---------------------------|---------------------------|
| Thickness of Soil Layer (feet) | 3D Surface area (sf) | Loss Factor | 3D Surface Area plus Loss Factor (sf) | 3D Surface Area plus Loss Factor (sy) | Total Volume of Soil (cf) | Total Volume of Soil (cy) |
| 0.5 | 657,300 | 1.2 | 788,760 | 87,640 | 394,380 | 14,607 |
| 1 | 657,300 | 1.2 | 788,760 | 87,640 | 788,760 | 29,213 |
| 1.5 | 657,300 | 1.2 | 788,760 | 87,640 | 1,183,140 | 43,820 |
| 2 | 657,300 | 1.2 | 788,760 | 87,640 | 1,577,520 | 58,427 |

Note: Quantities in FACE spreadsheet are rounded to reflect appropriate cost estimate degree of accuracy.

The final cover will consist of 12 inches of intermediate bedding layer over the Class I waste, a 40-mil textured geomembrane with an incorporated drainage geocomposite, 18 inches of soil final cover, and 6 inches of vegetative cover.

A soil loss factor is used to adjust for a reduction in volume due to soil compaction. The soil loss factor is included in the quantity calculation because quantities of soil purchased will be greater than the quantity of soil in-place after compaction.

2.1 ITEM NO. 1 MONITORING WELLS

No additional monitoring wells are required at the time of closure. As part of the operation of the landfill, the permit-required wells are installed.

2.2 ITEM NO. 2 SLOPE AND FILL

This item assumes grading and surface preparation will be required throughout the Phase II closure and 1 foot of offsite material will be spread over the closure surface and compacted to serve as intermediate cover. The cost estimate is based on the estimates shown below:

| Closure Item 2 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|--|
| Excavation: | \$0.75/SY | FDOT item 162-1-11 Prepared Soil Layer, Finish Soil 6" |
| Placement and Spreading: | \$2.05/ CY | RS Means Item 312323170020 |
| Compaction: | \$0.61/CY | RS Means Item 312323235040 |
| Off-Site Material: | \$1.50/CY | Quote from Smoak Groves |
| Delivery: | \$10.56/CY | RS Means Item 312323201100 |

2.3 ITEM NO. 3 COVER MATERIAL (BARRIER LAYER)

The final cover of the Class I landfill will consist of a layer of textured geomembrane and an overlying geocomposite. The cost estimate is based on the estimates shown below:

| Closure Item 3 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|---------------------|
| Geomembrane: | \$3.89/SY | Solmax Quote |
| Geocomposite: | \$5.31/SY | Agru Quote |

2.4 ITEM NO. 4 TOP SOIL COVER

The quantity for this item is based on 18 inches of final cover soil plus 6 inches of vegetative soil over the landfill closure area (including soil loss factor). The cost estimate figures are based on the following:

| Closure Item 4 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|----------------------------|
| Off-Site Material: | \$ 1.50/CY | Quote from Smoak Groves |
| Delivery | \$10.56/ CY | RS Means Item 312323201100 |
| Placement and Spreading: | \$2.05/ CY | RS Means Item 312323170020 |

2.5 ITEM NO. 5 VEGETATIVE LAYER

It is assumed the entire landfill surface area will be sodded. This includes the 3D surface area and a 10% loss factor

| Closure Item 5 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|--|
| Sodding: | \$2.63/SY | FDOT Item 0570 1 2 Performance Turf, Sod |

2.6 ITEM NO. 6 STORMWATER CONTROL SYSTEM

The stormwater system consists of 1,080 feet of downchute piping and 4 outlet structures.

| Closure Item 6 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|----------------------|
| Piping: | \$37.18/LF | FDOT item 0440-1-20 |
| Control Structures: | \$2,300/EA | FDOT item 0430611129 |

2.7 ITEM NO. 7 GAS CONTROLS: PASSIVE

This item includes the installation of a passive gas extraction system. The system consists of 15 vertical wells with an average depth of 50 feet.

| Closure Item 7 Description | Cost / Unit | Source or Reference |
|----------------------------|-------------|---------------------|
| Wells: | \$95,500/LS | Quote from CEC |

2.8 ITEM NO. 8 GAS CONTROLS: ACTIVE EXTRACTION

It is assumed that a passive gas system will be constructed at the time of closure.

2.9 ITEM NO. 9 SECURITY SYSTEM

The existing fencing at the property is considered sufficient for access control to the Landfill.

2.10 ITEM NO. 10 ENGINEERING

Engineering costs for design and permitting were estimated based on the Jones Edmunds Fee Estimate in attachment R.2 and experience with previous landfill closure projects in Florida.

2.11 ITEM NO. 11 PROFESSIONAL SERVICES

This item is intended to consist of the project management for bidding, construction, and construction completion certification phases of the closing project and using Jones Edmunds standard rates.

Construction quality assurance and quality control (CQA/CQC) responsibilities belong to the general contractor and geomembrane installation subcontractor. Costs shown in Quality Assurance Testing are the third-party CQA activities, which are assumed to be administered by the consulting engineer. These costs were estimated based on the Jones Edmunds Fee Estimate in attachment R.2 and experience with previous landfill closure projects in Florida.

2.12 ITEM NO. 12 CONTINGENCY ITEM

A contingency amount of 5% of the total construction cost is given here to cover unforeseen costs that may be incurred during construction.

2.13 ITEM NO. 13 SITE SPECIFIC COSTS ITEM

Mobilization/Demobilization - This item is 5% of the subtotal of Item Nos. 1 through 9 and is based on experience with previous closure construction projects. Bonds and insurance will add 2% to the subtotal of the closing costs.

Waste Tire Facility – This item is for the disposal of the facilities waste tires and assumes a maximum of 1,500 tires disposed of at the Polk County Landfill.

Special Wastes – This item is for the final disposal of an assumed 10 tons of white goods.

Leachate Annual Disposal – This item is for one year of disposal of the facility's leachate. Annual leachate disposal costs are calculated in the facility's long term care cost estimates. (Section 3.5)

3.0 LONG-TERM CARE EXPLANATION OF COST ESTIMATES

These costs are included to provide for the long-term care of the Class I Landfill. The lined class I landfill is 24.8 acres and includes the closed Phase I and active Phase II.

3.1 ITEM NO. 1 – GROUNDWATER MONITORING

The groundwater monitoring system consists of 8 water quality monitoring wells that must be sampled semiannually. Based on the current County contract for the annual sampling, laboratory analyses, and biannual reporting, the cost breakdown is as follows:

| Description | Cost/Unit | Source or Reference |
|--------------------------|------------------|---------------------|
| Semiannual well sampling | \$9,846/LS/event | County Contract |

3.2 ITEM NO. 2 – SURFACE WATER MONITORING

The surface water monitoring system consists of 1 water quality sampling point that must be sampled semiannually. Based on the current County contract for the annual sampling, laboratory analyses, and reporting, the cost breakdown is as follows:

| Description | Cost/Unit | Source or Reference |
|---------------------|----------------|---------------------|
| Semiannual sampling | \$825/LS/event | County Contract |

3.3 ITEM NO. 3 – GAS MONITORING

The Class I Landfill has 17 perimeter gas monitoring probes and several ambient gas monitoring locations. These probes and ambient locations will continue to be monitored quarterly.

| Description | Cost/Unit | Source or Reference |
|----------------------|----------------|---------------------|
| Gas probe monitoring | \$910/LS/event | County Contract |

3.4 ITEM NO. 4 – LEACHATE MONITORING

Leachate monitoring is not required at the Hardee County Landfill by FDEP permit. However, the County may have to sample leachate annually in order to dispose of leachate at a wastewater treatment plant.

| Description | Cost/Unit | Source or Reference |
|------------------|-------------|---------------------|
| Leachate testing | \$425/event | County Contract |

3.5 ITEM NO. 5 – LEACHATE COLLECTION/TREATMENT SYSTEMS

Maintenance of the leachate collection and treatment system includes jet cleaning the collection pipes every 5-year permit cycle.

Maintenance of the two leachate storage tanks includes cleaning the interior, painting, and repairing the exterior every 3 years. The leachate disposal costs include off-site hauling and disposal to the City of Wauchula wastewater treatment plant based on the current contract with a hauling quote from JLC Farms. The amount of leachate is based on the average annual leachate flow for the last ten years and is approximately 4,200,000 gal/year.

| Description | Cost/Unit | Source or Reference |
|--------------------------------|--------------|---|
| Maintenance – collection pipes | \$37,096/LS | Quote from Florida Jet Clean |
| Maintenance – tanks | \$19,000/LS | Quote from Florida Jet Clean |
| Disposal | \$8.60/KGAL | Current disposal contract with City of Wauchula WWTP. |
| | \$17.50/KGAL | Hauling Quote from JLC Farms |

3.6 ITEM NO. 6 – MAINTENANCE OF GROUNDWATER MONITORING WELLS

The cost for this item is based on replacing one groundwater well every 5 years. This includes abandonment and drilling of new well.

| Description | Cost/Unit | Source or Reference |
|-------------|------------|---------------------|
| Replacement | \$1,927/EA | Huss Quote |
| Abandonment | \$1,202/EA | Huss Quote |

3.7 ITEM NO. 7 – GAS SYSTEM MAINTENANCE

The cost for this item is based on replacing one gas vent every two years. This includes abandonment and drilling of new vent.

| Description | Cost/Unit | Source or Reference |
|-------------|------------|---------------------|
| Replacement | \$2,767/EA | Huss Quote |
| Abandonment | \$1,202/EA | Huss Quote |

3.8 ITEM NO. 8 – LANDSCAPE

The cost for this item is based on mowing all closed landfills at an estimated frequency of four times a year.

| Description | Cost/Unit | Source or Reference |
|-------------|------------|----------------------------|
| Mowing | \$27.88/AC | RS Means Item 320190194190 |

3.9 ITEM NO. 9 – EROSION CONTROL & COVER MAINTENANCE

For erosion control and cover maintenance of the cover and/or swales, we assumed that a half acre area would be regraded and sodded every year. Approximately one half acre (2,420 SY) of the landfill area will require maintenance per year. It is assumed that 100 square yards of liner will be repaired per year.

| Description | Cost/Unit | Source or Reference |
|--------------|------------|---|
| Sodding | \$2.61/SY | FDOT Item 0570 1 2 Sod |
| Regrading | \$0.76/SY | FDOT Item 0162 1 11 Prepared soil layer, finish soil 6 inches |
| Liner Repair | \$10.71/SY | RS Means item 334713531200 |

3.10 ITEM NO. 10 – STORMWATER MANAGEMENT SYSTEM MAINTENANCE

We assumed that the perimeter ditch system (4,800 linear feet) must be cleaned every 10 years. The quantity of material removed is based on 6 inches off the bottom of a 5-foot-wide ditch.

| Description | Cost/Unit | Source or Reference |
|------------------------|-----------|-------------------------------------|
| Conveyance maintenance | \$7.39/CY | FDOT Item 0120 4 subsoil excavation |

3.11 ITEM NO. 11 – SECURITY SYSTEM MAINTENANCE

Security system maintenance assumes 50 feet per year of fencing repairs annually and a new sign and gate replacement every 5 years.

| Description | Cost/Unit | Source or Reference |
|---------------|---------------|----------------------|
| Fence repairs | \$15.00/LF | FDOT Item 0550 10221 |
| Gate repairs | \$1,092.50/EA | FDOT Item 0550 60224 |
| Sign repairs | \$349.52/EA | FDOT Item 0700 1 11 |

3.12 ITEM NO. 12 – UTILITIES

We assumed the facility requires approximately \$500 annually for leachate pump utilities (electrical service).

3.13 ITEM NO. 13 – LEACHATE COLLECTION/TREATMENT SYSTEMS OPERATION

This item includes operation labor cost for managing the system and current Jones Edmunds billing rates for a field technician.

3.14 ITEM NO. 14 – ADMINISTRATIVE

This item includes administration labor costs for managing the permitting and reporting requirements. The cost estimate is consistent with current Jones Edmunds labor rates.

3.15 ITEM NO. 15 – CONTINGENCY

The contingency is calculated as 5% of the total costs of Item No. 1 through 14. This number is based on Jones Edmunds engineering judgment and consideration of estimation of expected annual costs.

3.16 ITEM NO. 16 – SITE-SPECIFIC COSTS

There are no additional site-specific costs for the facility.

EXHIBIT R-1

**FINANCIAL ASSURANCE COST ESTIMATE
FORM 62-701.900(28), FAC**



Florida Department of Environmental Protection

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

DEP Form # 62-701.900(28), F.A.C.
Form Title: Closure Cost Estimating Form For Solid Waste Facilities
Effective Date: January 6, 2010
Incorporated in Rule 62-701.630(3), F.A.C.

CLOSURE COST ESTIMATING FORM FOR SOLID WASTE FACILITIES

Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: Hardee County Landfill WACS ID: 40612
Permit Application or Consent Order No.: 38414-016-SO/01 Expiration Date: 11/8/2033
Facility Address: 685 Airport Road, Wauchula, FL 33873
Permittee or Owner/Operator: Hardee County
Mailing Address: 685 Airport Road, Wauchula, FL 33873
Latitude: 27° 34' 17" Longitude: 81° 46' 58"
Coordinate Method: Datum: NAD 83
Collected by: J. Toms Company/Affiliation: Jones Edmunds

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 I | 12.31 | NA | NA | NA | 10/26/2010 | 1/3/2012 |
| Phase II Section I | 6.29 | 5/1/2008 | 2/1/2016 | 1.5 years | NA | NA |
| Phase II Section II | 6.20 | NA | 5/1/2038 | 22 years | NA | NA |
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total disposal unit acreage included in this estimate: Closure: 12.49 Long-Term Care: 24.8

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

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check type)

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

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

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

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

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

Southwest District
10351 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

II. 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 expensive.
 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

| 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 | 73,033 | \$ 0.75 | \$ 54,775 | |
| Placement and Spreading | CY | 29,213 | \$ 2.05 | \$ 59,887 | |
| Compaction | CY | 29,213 | \$ 0.61 | \$ 17,820 | |
| Off-Site Material | CY | 29,213 | \$ 1.50 | \$ 43,820 | |
| Delivery | CY | 29,213 | \$ 10.56 | \$ 308,493 | |
| | | | Subtotal Slope and Fill: | \$ 484,795 | |
| 3. Cover Material (Barrier Layer): | | | | | |
| Off-Site Clay | CY | | \$ - | \$ - | |
| Synthetics - 40 mil | SY | 80,336 | \$ 3.89 | \$ 312,508 | |
| Synthetics - GCL | SY | | \$ - | \$ - | |
| Synthetics - Geonet Geotextile | SY | | \$ - | \$ - | |
| Synthetics - Other (explain) | SY | 80,336 | \$ 5.31 | \$ 426,586 | |
| Geocomposite | | | Subtotal Cover Material: | \$ 739,094 | |
| 4. Top Soil Cover: | | | | | |
| Off-Site Material | CY | 58,427 | \$ 1.50 | \$ 87,640 | |
| Delivery | CY | 58,427 | \$ 10.56 | \$ 616,986 | |
| Spread | CY | 58,427 | \$ 2.05 | \$ 119,775 | |
| | | | Subtotal Top Soil Cover: | \$ 824,401 | |
| 5. Vegetative Layer: | | | | | |
| Sodding | SY | 80,337 | \$ 2.63 | \$ 211,286 | |
| Hydroseeding | AC | | \$ - | \$ - | |
| Fertilizer | AC | | \$ - | \$ - | |
| Mulch | AC | | \$ - | \$ - | |
| Other (explain) | | | \$ - | \$ - | |
| | | | Subtotal Vegetative Layer: | \$ 211,286 | |
| 6. Stormwater Control System: | | | | | |
| Earthwork | CY | | \$ - | \$ - | |
| Grading | SY | | \$ - | \$ - | |
| Piping | LF | 1,080 | \$ 37.18 | \$ 40,154 | |
| Ditches | LF | | \$ - | \$ - | |
| Berms | LF | | \$ - | \$ - | |
| Control Structures | EA | 4 | \$ 2,300 | \$ 9,200 | |
| Other (explain) | GFFR | | \$ - | \$ - | |
| | | | Subtotal Stormwater Control System: | \$ 49,354 | |

| Description | Unit | Number of Units | | Cost / Unit | Total Cost |
|--|--------------|----------------------------|--------------|---------------------------------|-------------------|
| 7. Passive Gas Control: | | | | | |
| Wells | LS | 1 | | \$ 95,500 | \$ 95,500 |
| Pipe and Fittings | LF | | | \$ - | \$ - |
| Monitoring Probes | EA | | | \$ - | \$ - |
| NSPS/Title V Requirements | LS | | | \$ - | \$ - |
| | | | | Subtotal Passive Gas Control: | \$ 95,500 |
| 8. Active Gas Extraction Control: | | | | | |
| Traps | EA | | | \$ - | \$ - |
| Sumps | EA | | | \$ - | \$ - |
| Flare Assembly | EA | | | \$ - | \$ - |
| Flame Arrestor | EA | | | \$ - | \$ - |
| Mist Eliminator | EA | | | \$ - | \$ - |
| Flow Meter Pumps | EA | | | \$ - | \$ - |
| Blowers | EA | | | \$ - | \$ - |
| Collection System | LF | | | \$ - | \$ - |
| Other (explain) Wellheads | EA | | | \$ - | \$ - |
| | | | | Subtotal Active Gas Extraction: | \$ - |
| 9. Security System: | | | | | |
| Fencing | LF | | | \$ - | \$ - |
| Gate(s) | EA | | | \$ - | \$ - |
| Sign(s) | EA | | | \$ - | \$ - |
| | | | | Subtotal Security System: | \$ - |
| 10. Engineering: | | | | | |
| Closure Plan Report | LS | 1 | | \$ 108,340 | \$ 108,340 |
| Certified Engineering Drawings | LS | 1 | | \$ 112,640 | \$ 112,640 |
| NSPS/Title V Air Permit | LS | | | \$ - | \$ - |
| Final Survey | LS | 1 | | \$ 13,980 | \$ 13,980 |
| Certification of Closure | LS | 1 | | \$ 27,800 | \$ 27,800 |
| Other (explain) | | | | \$ - | \$ - |
| | | | | Subtotal Engineering: | \$ 262,760 |
| Description | Hours | Cost / Hour | Hours | Cost / Hour | Total Cost |
| 11. Professional Services: | | | | | |
| | | <u>Contract Management</u> | | <u>Quality Assurance</u> | |
| P.E. Supervisor | 20 | \$ 215 | 40 | \$ 215 | \$ 12,900 |
| On-Site Engineer | 120 | \$ 170 | 120 | \$ 170 | \$ 40,800 |
| Office Engineer | 16 | \$ 130 | 80 | \$ 130 | \$ 12,480 |
| On-Site Technician | 0 | \$ 85 | 800 | \$ 85 | \$ 68,000 |
| Other (explain) | 8 | \$ 80 | 24 | \$ 80 | \$ 2,560 |
| Administrative Assistant | | | | | |
| | | | | Subtotal Professional Services: | \$ 136,740 |

| Description | Unit | Number of Units | | Total Cost |
|---------------------------|-------------|---------------------------------|--------------------|-------------------|
| | | | Cost / Unit | |
| Quality Assurance Testing | LS | 1 | \$ 65,000 | \$ 65,000 |
| | | Subtotal Professional Services: | | \$ 201,740 |

| | | | |
|-------------------------|----------|--------------------------------|--------------|
| | | Subtotal of 1-11 Above: | \$ 2,868,930 |
| 12. Contingency: | <u>5</u> | % of Subtotal of 1-11 Above | \$ 143,447 |
| | | Subtotal Contingency: | \$ 143,447 |

Estimated Closing Cost Subtotal: \$ 3,012,377

| Description | Total Cost |
|---|--|
| 13. Site-Specific Costs: | |
| Mobilization and Bonds and insurance | \$ 200,826 |
| Waste Tire Facility | \$ 2,625 |
| Materials Recovery Facility | \$ - |
| Special Wastes | \$ 500 |
| Leachate Management System Modification - Annual Disposal | \$ 109,620 |
| Other (explain) _____ | \$ - |
| | Subtotal Site Specific Costs: \$ 313,571 |
| TOTAL ESTIMATED CLOSING COSTS (\$): \$ 3,325,948 | |

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 items marked not applicable (N/A)

| 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-Annual | 2 | 1 | \$ 9,846.00 | \$ 19,692 |
| Annual | 1 | | \$ - | \$ - |
| Subtotal Groundwater Monitoring: | | | | \$ 19,692 |
| 2. Surface Water Monitoring [62-701.510(4), and (8)(b)] | | | | |
| Monthly | 12 | | \$ - | \$ - |
| Quarterly | 4 | | \$ - | \$ - |
| Semi-Annual | 2 | 1 | \$ 825.00 | \$ 1,650 |
| Annual | 1 | | \$ - | \$ - |
| Subtotal Surface Water Monitoring: | | | | \$ 1,650 |
| 3. Gas Monitoring [62-701.400(10)] | | | | |
| Monthly | 12 | | \$ - | \$ - |
| Quarterly | 4 | 1 | \$ 910.00 | \$ 3,640 |
| Semi-Annual | 2 | | \$ - | \$ - |
| Annual | 1 | | \$ - | \$ - |
| Subtotal Gas Monitoring: | | | | \$ 3,640 |
| 4. Leachate Monitoring [62-701.510(5), (6)(b) and 62-701.510(8)c] | | | | |
| Monthly | 12 | | \$ - | \$ - |
| Quarterly | 4 | | \$ - | \$ - |
| Semi-Annual | 2 | | \$ - | \$ - |
| Annual | 1 | 1 | \$ 425.00 | \$ 425 |
| Other (explain) _____ | | | \$ - | \$ - |
| Subtotal Leachate Monitoring: | | | | \$ 425 |

| Description | Unit | Number of Units / Year | Cost / Unit | Annual Cost |
|---|------|------------------------|--------------|-------------|
| 5. Leachate Collection/Treatment Systems Maintenance | | | | |
| Maintenance | | | | |
| Collection Pipes | LS | 0.2 | \$ 37,096.00 | \$ 7,419 |
| Sumps, Traps | EA | | \$ - | \$ - |
| Lift Stations | EA | | \$ - | \$ - |
| Cleaning | LS | | \$ - | \$ - |
| Tanks | LS | 0.3 | \$ 19,000.00 | \$ 6,333 |

| 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 DAY | _____ | \$ - | \$ - |
| Spray Aerators | EA | _____ | \$ - | \$ - |
| <u>Disposal</u> | | | | |
| Off-site (Includes transportation and disposal) | 1,000 gallon | 4200 | \$ 26.10 | \$ 109,620 |
| | | | Subtotal Leachate Collection / Treatment | |
| | | | Systems Maintenance: | \$ 123,372 |
| 6. Groundwater Monitoring Wells Maintenance | | | | |
| Monitoring Wells | LF | _____ | \$ - | \$ - |
| Replacement | EA | 0.2 | \$ 1,927.00 | \$ 385 |
| Abandonment | EA | 0.2 | \$ 1,202.00 | \$ 240 |
| | | | Subtotal Groundwater Monitoring Well Maintenance: | \$ 625 |
| 7. Gas System Maintenance | | | | |
| Piping, Vents | EA | 0.5 | \$ 3,969.00 | \$ 1,985 |
| Blowers | EA | _____ | \$ - | \$ - |
| Flaring Units | EA | _____ | \$ - | \$ - |
| Meters, Valves | EA | _____ | \$ - | \$ - |
| Compressors | EA | _____ | \$ - | \$ - |
| Flame Arrestors | EA | _____ | \$ - | \$ - |
| Operation | LS | _____ | \$ - | \$ - |
| | | | Subtotal Gas System: | \$ 1,985 |
| 8. Landscape Maintenance | | | | |
| Mowing | 4 /yr | AC | 24.8 | \$ 27.88 |
| Fertilizer | /yr | AC | _____ | \$ - |
| | | | Subtotal Landscape Maintenance: | \$ 2,766 |
| 9. Erosion Control and Cover Maintenance | | | | |
| Sodding | SY | 2,420 | \$ 2.61 | \$ 6,316 |
| Regrading | SY | 2,420 | \$ 0.76 | \$ 1,839 |
| Liner Repair | SY | 100 | \$ 10.71 | \$ 1,071 |
| Clay | CY | _____ | \$ - | \$ - |
| | | | Subtotal Erosion Control and Cover Maintenance: | \$ 9,226 |
| 10. Storm Water Management System Maintenance | | | | |
| Conveyance Maintenance | CY | 44 | \$ 7.39 | \$ 328 |
| | | | Subtotal Storm Water System Maintenance: | \$ 328 |
| 11. Security System Maintenance | | | | |
| Fences | LS LF | 50 | \$ 15.00 | \$ 750 |
| Gate(s) | EA | 0.2 | \$ 1,092.50 | \$ 219 |
| Sign(s) | EA | 0.2 | \$ 349.52 | \$ 70 |
| | | | Subtotal Security System: | \$ 1,039 |

| Description | Unit | Number of Units / Year | Cost / Unit | Annual Cost |
|--|-------------|-------------------------------|--------------------|--------------------|
| 12. Utilities | LS | 1 | \$ 500 | \$ 500 |
| 13. Leachate Collection/Treatment Systems Operation | | | | |
| <u>Operation</u> | | | | |
| P.E. Supervisor | HR | 4 | \$ 215 | \$ 860 |
| On-Site Engineer | HR | 0 | \$ 170 | \$ - |
| Office Engineer | HR | 8 | \$ 130 | \$ 1,040 |
| On-Site Technician | HR | 96 | \$ 85 | \$ 8,160 |
| Materials | LS | | | |
| Subtotal Leachate Collection/Treatment System Operation: | | | | \$ 10,060 |
| 14. Administrative | | | | |
| | | Hours | \$/Hour | Total |
| P.E. Supervisor | HR | 4 | \$ 165 | \$ 660 |
| On-Site Engineer | HR | 0 | \$ 125 | \$ - |
| Office Engineer | HR | 24 | \$ 125 | \$ 3,000 |
| Onsite Technician | HR | 16 | \$ 80 | \$ 1,280 |
| Other | HR | | | \$ - |
| Subtotal Administrative: | | | | \$ 4,940 |
| Subtotal of 1-14 Above: | | | | |
| 15. Contingency | <u>5%</u> | % of Subtotal of 1-14 Above | | \$ 9,012 |
| | | Subtotal Contingency: | | \$ 9,012 |
| 16 Site-Specific Costs (explain) | | | | |
| Description | Unit | Number of Units / Year | Cost / Unit | Annual Cost |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| | | | | \$ - |
| Subtotal Site Specific Costs: | | | | \$ - |
| ANNUAL LONG-TERM CARE COST (\$ / Year): | | | | |
| Number of Years of Long-Term Care: <u>30</u> | | | | |
| TOTAL LONG-TERM CARE COST (\$): <u>\$ 5,677,800</u> | | | | |

VI. CERTIFICATION BY ENGINEER

This is to certify that the Cost Estimates pertaining to the engineering features of this solid waste management facility have been examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, the Cost Estimates are a true, correct and complete representation of the financial liabilities for closing and/or long-term care of the facility and comply with the requirements of Rule 62-701.630 F.A.C. and all other Department of Environmental Protection rules, and statutes of the State of Florida. It is understood that the Cost Estimates shall be submitted to the Department annually, revised or adjusted as required by Rule 62-701.630(4), F.A.C.



Signature

Mark Hadlock, PE
Senior Engineer
Name and Title (please type)

2-26-18
Date

56871
Florida Registration Number
(please affix seal)

730 NE Waldo Road
Mailing Address

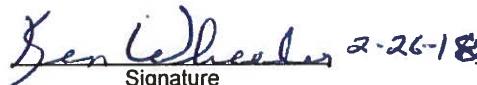
Gainesville, Florida 32641
City, State, Zip Code

mhadlock@jonesedmunds.com
E-Mail address (if available)

(352) 377-5821
Telephone Number

VII. SIGNATURE BY OWNER/OPERATOR

E-Mail address (if available) Telephone Number



Signature

Ken Wheeler, PE, Public Works Director
Name and Title (please type)

685 Airport Road
Mailing Address

Wauchula, FL 33873
City, State, Zip Code

ken.wheeler@hardeecounty.net
E-Mail address (if available)

863-773-5089
Telephone Number

EXHIBIT R-2

**BACKUP OF CLOSURE AND LONG-TERM CARE UNIT
COSTS**

Florida Department of Transportation
Item Average Unit Cost
From 2016/07/01 to 2017/06/30

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

Closure Item 2 - excavation

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|-----------|--------------|------------------|-----------------|----------------|-----------|------|--|
| 0120 1 | 127 | \$5.36 | \$23,758,881.12 | 4,430,936.380 | CY | N | REGULAR EXCAVATION |
| 0120 2 2 | 60 | \$11.30 | \$1,779,537.37 | 157,441.040 | CY | N | BORROW EXCAVATION, TRUCK MEASURE |
| 0120 3 | 2 | \$11.57 | \$8,832.39 | 763.700 | CY | N | LATERAL DITCH EXCAVATION |
| 0120 4 | 28 | \$8.15 | \$5,728,899.80 | 703,362.900 | CY | N | SUBSOIL EXCAVATION |
| 0120 5 | 12 | \$29.06 | \$282,767.20 | 9,729.600 | CY | N | CHANNEL EXCAVATION |
| 0120 6 | 102 | \$8.16 | \$65,995,051.03 | 8,085,966.400 | CY | N | EMBANKMENT |
| 0120 71 | 39 | \$34,230.20 | \$1,403,438.27 | 41.000 | LS | N | REGULAR EXCAVATION (3-R PROJECTS ONLY) |
| 0120 74 | 4 | \$4.27 | \$275,573.23 | 64,588.000 | CY | N | SURCHARGE EMBANKMENT |
| 0121 70 | 10 | \$204.71 | \$105,014.76 | 513.000 | CY | N | FLOWABLE FILL |
| 0125 1 | 7 | \$13.17 | \$38,448.30 | 2,919.400 | CY | N | EXCAVATION FOR STRUCTURES |
| 0125 3 | 2 | \$102.62 | \$16,850.00 | 164.200 | CY | N | SELECT BEDDING MATERIAL |
| 0141 70 | 8 | \$1,053.78 | \$121,185.20 | 115.000 | AS | N | SETTLEMENT PLATE ASSEMBLY |
| 0145 1 | 2 | \$3.59 | \$184,709.00 | 51,496.000 | SF | N | GEOSYNTHETIC REINFORCED SOIL SLOPE |
| 0145 2 | 12 | \$3.54 | \$354,255.10 | 99,963.000 | SY | N | GEOSYNTHETIC REINF FND OVER SOFT SOIL |
| 0145 72 | 2 | \$36.08 | \$28,759.00 | 797.000 | SY | N | CELLULAR CONFINEMENT FOR SOIL STABILIZAT |
| 0160 4 | 125 | \$4.32 | \$19,843,078.37 | 4,592,980.000 | SY | N | TYPE B STABILIZATION |
| 0162 1 11 | 80 | \$.75 | \$2,530,759.12 | 3,380,029.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 6" |
| 0162 1 12 | 5 | \$3.18 | \$85,097.30 | 26,753.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 12" |
| 0173 77 1 | 1 | \$800.00 | \$8,000.00 | 10.000 | CY | N | SUBSURF PRESSURE GROUTING,SAND CEM |
| 0210 1 1 | 1 | \$10.00 | \$21,770.00 | 2,177.000 | SY | N | REWORKING LIMEROCK BASE, 6" |
| 0210 1 8 | 1 | \$100.00 | \$6,700.00 | 67.000 | SY | N | REWORKING LIMEROCK BASE, 4" |
| 0210 1 9 | 3 | \$13.85 | \$20,983.23 | 1,515.000 | SY | N | REWORKING LIMEROCK BASE, 3" |
| 0210 2 | 1 | \$16.00 | \$502.40 | 31.400 | CY | N | LIMEROCK-NEW MATERIAL FOR REWORKING BASE |
| 0285701 | 75 | \$15.12 | \$14,823,055.26 | 980,419.000 | SY | N | OPTIONAL BASE,BASE GROUP 01 |
| 0285702 | 9 | \$14.33 | \$1,544,522.80 | 107,786.000 | SY | N | OPTIONAL BASE,BASE GROUP 02 |
| 0285703 | 5 | \$8.91 | \$531,903.00 | 59,693.000 | SY | N | OPTIONAL BASE,BASE GROUP 03 |
| 0285704 | 15 | \$10.87 | \$1,034,501.99 | 95,189.000 | SY | N | OPTIONAL BASE,BASE GROUP 04 |
| 0285705 | 7 | \$13.28 | \$2,324,944.31 | 175,121.000 | SY | N | OPTIONAL BASE,BASE GROUP 05 |
| 0285706 | 38 | \$16.53 | \$3,262,108.24 | 197,363.000 | SY | N | OPTIONAL BASE,BASE GROUP 06 |
| 0285707 | 5 | \$20.58 | \$595,823.75 | 28,951.000 | SY | N | OPTIONAL BASE,BASE GROUP 07 |
| 0285708 | 2 | \$26.26 | \$637,840.50 | 24,291.000 | SY | N | OPTIONAL BASE,BASE GROUP 08 |
| 0285709 | 61 | \$17.15 | \$21,284,038.80 | 1,240,918.000 | SY | N | OPTIONAL BASE,BASE GROUP 09 |
| 0285710 | 15 | \$15.43 | \$13,455,477.73 | 871,860.000 | SY | N | OPTIONAL BASE,BASE GROUP 10 |
| 0285711 | 15 | \$19.21 | \$1,591,488.06 | 82,835.000 | SY | N | OPTIONAL BASE,BASE GROUP 11 |
| 0285712 | 4 | \$18.38 | \$2,877,216.86 | 156,527.000 | SY | N | OPTIONAL BASE,BASE GROUP 12 |
| 0285713 | 7 | \$36.71 | \$1,514,020.44 | 41,240.000 | SY | N | OPTIONAL BASE,BASE GROUP 13 |
| 0285715 | 15 | \$55.13 | \$1,179,219.02 | 21,388.000 | SY | N | OPTIONAL BASE,BASE GROUP 15 |
| 0286 1 | 37 | \$22.06 | \$525,100.50 | 23,801.000 | SY | N | TURNOUT CONSTRUCTION |
| 0286 2 | 10 | \$128.94 | \$101,669.11 | 788.500 | TN | N | TURNOUT CONSTRUCTION-ASPHALT |
| 0287 1 | 2 | \$441.58 | \$21,240.00 | 48.100 | CY | N | ASPHALT TREATED PERMEABLE BASE |

INVOICE

Closure Item 2 - Offsite material

Smoak Groves Inc.
1025 County Road 17 N
Lake Placid, FL 33852
(863) 465-2561

June 1, 2017

Bill to:
Hardee County Public Works
205 Hanchey Road
Wauchula, FL 33873

| Date: | Truck: | Loads: | Cubic Yard: | Unit Cost: | Total: |
|-----------|--------|--------|-------------|------------|------------|
| 2/3/2017 | 104 | 2 | 40 | \$1.50 | \$60.00 |
| 2/6/2017 | 91 | 4 | 80 | \$1.50 | \$120.00 |
| 2/6/2017 | 88 | 5 | 100 | \$1.50 | \$150.00 |
| 2/7/2017 | 88 | 4 | 80 | \$1.50 | \$120.00 |
| 2/8/2017 | 88 | 5 | 100 | \$1.50 | \$150.00 |
| 2/8/2017 | 103 | 2 | 40 | \$1.50 | \$60.00 |
| 2/9/2017 | 104 | 5 | 100 | \$1.50 | \$150.00 |
| 2/9/2017 | 82 | 7 | 140 | \$1.50 | \$210.00 |
| 2/9/2017 | 105 | 3 | 60 | \$1.50 | \$90.00 |
| 2/9/2017 | 88 | 5 | 100 | \$1.50 | \$150.00 |
| 2/13/2017 | 103 | 3 | 60 | \$1.50 | \$90.00 |
| 2/13/2017 | 92 | 2 | 40 | \$1.50 | \$60.00 |
| 2/13/2017 | 104 | 3 | 60 | \$1.50 | \$90.00 |
| 2/13/2017 | 88 | 3 | 60 | \$1.50 | \$90.00 |
| TOTALS: | | 53 | 1060 | TOTAL: | \$1,590.00 |
| | | | Loads | CY | |

RS Means Cover Page
Cost Data: Heavy Construction
Location: Tampa, FL
Year: 2017

RSMeans data from GORDIAN®

Guide Me Welcome JoAnne Talamo 

Search Data Manage Estimates Square Foot Estimator Life Cycle Cost Cost Alerts and Trends Reference Items  ?

Cost DataHeavy Construction Type Unit Labor Type Open Shop Location TAMPA (335-336,346) Release Year 2017 Search 

Search What are you searching for? All  Search Include My Custom Data



Estimate Action Select From List

Hardee County Landfill Page 1 of 1 Lines 1 - 5 of 5

| Source | Qty | Line Number |  |  | Description | Frequency | Crew | Unit | Labor Hours | Daily Output | Extended Material | Extended Material O&P |
|-------------------------------|-----|--------------|---|---|---|-----------|--------|--------|-------------|--------------|-------------------|-----------------------|
| <input type="checkbox"/> Unit | 0 | 312323170020 | | | <input type="checkbox"/> Fill, dumped material, spread, by dozer, excludes compa | | B10B | L.C.Y. | 0.010 | 1000.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323201100 | | | <input type="checkbox"/> Cycle hauling(wait, load, travel, unload or dump & return) | | B34B | L.C.Y. | 0.070 | 108.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323235040 | | | <input type="checkbox"/> Compaction, riding, vibrating roller, 4 passes, 6" lifts | | B10Y | E.C.Y. | | 1900.000 | | |
| <input type="checkbox"/> Unit | 0 | 320190194190 | | | <input type="checkbox"/> Mowing, lawn mowing, 5 gang reel, 12', with tractor & a | | B66 | M.S.F. | 0.010 | 1200.000 | | |
| <input type="checkbox"/> Unit | 0 | 334713531200 | | | <input type="checkbox"/> Pond and reservoir liners, membrane lining systems HDPE | | 3 Skwk | S.F. | 0.010 | 1600.000 | | |

Cost Estimate Report

Hardee County Landfill

Year 2017

Unit Detail Report

Prepared By: JoAnne Talamo

Jones Edmunds & Associates, Inc.

LTC item 8:
Mowing

LTC item 9:
Sodding
Liner Repair

Closure Item 2:
Placement and Spreading
Compaction
Delivery

Closure Item 4:
Delivery
Placement and Spreading

Date: 02/07/2018

| Line Number | Description | Quantity | Unit | Total Incl. O&P | Ext. Total Incl. O&P |
|---|---|----------|--------|-----------------|--------------------------------|
| Division 31 Earthwork | | | | | |
| 312323170020 | Fill, dumped material, spread, by dozer, excludes compaction | 0.00 | L.C.Y. | \$2.05 | Placement and Spreading \$0.00 |
| 312323201100 | Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 15 min load/wait/unload, 12 C.Y. truck, cycle 30 miles, 45 MPH, excludes loading equipment | 0.00 | L.C.Y. | \$10.56 | Delivery \$0.00 |
| 312323235040 | Compaction, riding, vibrating roller, 4 passes, 6" lifts | 0.00 | E.C.Y. | \$0.61 | Compaction \$0.00 |
| Division 31 Earthwork Subtotal \$0.00 | | | | | |
| Division 32 Exterior Improvements | | | | | |
| 320190194190 | Mowing, lawn mowing, 5 gang reel, 12', with tractor & attachments | 0.00 | M.S.F. | \$0.64 | Mowing \$0.00 |
| Division 32 Exterior Improvements Subtotal \$0.00 | | | | | |
| Division 33 Utilities | | | | | |
| 334713531200 | Pond and reservoir liners, membrane lining systems HDPE, 100,000 S.F. or more, 60 mil thick, per S.F. | 0.00 | S.F. | \$1.19 | Liner Repair \$0.00 |
| Division 33 Utilities Subtotal \$0.00 | | | | | |
| $\$0.64/\text{MSF} \times 1 \text{ MSF}/1,000 \text{ SF} \times 43,560 \text{ SF/AC} = \$27.88/\text{AC}$ | | | | | |
| $\$1.19 * 9 \text{ SF/SY} = \$10.71/\text{SY}$ | | | | | |

Closure Item 3:
Geocomposite



The Plastics Experts.

AGRU America, Inc.
500 Garrison Road
Georgetown, SC 29440
Phone: 1-843-546-0600

January 10, 2018

Jeremy Toms, EI
Jones Edmunds & Associates, Inc.
730 NE Waldo Road
Gainesville, FL 32641

RE: Sarasota County Central Landfill Closure – Requested Budgetary Pricing

Agru America is pleased to provide the following budget pricing for the requested geosynthetic profile(s). Budget pricing options include a 40mil LLDPE MicroSpike and Geocomposite system as Option #1 and a 50 mil LLDPE MicroDrain geomembrane and geotextile as Option #2. As discussed, ClosureTurf may work well in this application if you would want to evaluate further.

Requested Geosynthetic Closure System #1

This geosynthetic closure system includes a standard 40 mil LLDPE MicroSpike geomembrane with 8-200-8 geocomposite.

| Description | Quantity (SF) | Unit Price (\$/SF) | Total |
|--|---------------|--------------------|------------------------|
| 40 mil MicroSpike LLDPE - Material | 2,700,000 | \$ 0.30 | \$ 810,000.00 |
| 40 mil MicroSpike LLDPE - Installation | 2,700,000 | \$ 0.15 | \$ 405,000.00 |
| 8/200/8 Geocomposite - Material | 2,700,000 | \$ 0.46 | \$ 1,242,000.00 |
| 8/200/8 Geocomposite - Installation | 2,700,000 | \$ 0.13 | \$ 351,000.00 |
| Total Budget for Conventional | | | \$ 2,808,000.00 |

*Material budget pricing includes estimated freight to Sarasota, FL but no taxes. Installation budget pricing assumes non-union/non-prevailing wage rates.

*A 200 mil Geocomposite product is unlikely to meet the site specific requirements of a highly permeable cover soil typically found in FL.

Requested Geosynthetic Closure System #2

$$\$0.46 + \$0.13 = \$0.59/\text{SF} * 9 \text{ SF/SY} = \$5.31/\text{SY}$$

This geosynthetic closure system includes a standard 50 mil LLDPE MicroDrain geomembrane with 8 oz nonwoven geotextile.

| Description | Quantity (SF) | Unit Price (\$/SF) | Total |
|--|---------------|--------------------|------------------------|
| 50 mil LLDPE MicroDrain - Material | 2,700,000 | \$ 0.55 | \$ 1,485,000.00 |
| 50 mil LLDPE MicroDrain - Installation | 2,700,000 | \$ 0.18 | \$ 486,000.00 |
| Agrutex 081 Nonwoven Geotextile - Material | 2,700,000 | \$ 0.11 | \$ 297,000.00 |
| Agrutex 081 Nonwoven Geotextile - Installation | 2,700,000 | \$ 0.10 | \$ 270,000.00 |
| Total Budget for MicroDrain Option | | | \$ 2,538,000.00 |

*Material budget pricing includes estimated freight to Sarasota, FL but no taxes. Installation budget pricing assumes non-union/non-prevailing wage rates.

We would recommend performing design shear strength and transmissivity testing specific to your project needs. We can supply material samples for this testing when appropriate and answer any questions you may have. Thank you for reaching out to us and please feel free to contact me to discuss further at ceichelberger@agrumerica.com or 330.606.8970.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Eichelberger".

Chris Eichelberger
Agru America



SOLMAX

Closure Item 3 - Geomembrane

QUOTATION 54624 - 128697

PROJECT: Hardee Co LF-Wauchula

Date: 19/09/2017

CLIENT

| | | | |
|----------|---------------|----------|------------------|
| Name: | JONES EDMUND | Address: | 730 NE Waldo Rd. |
| Contact: | Jeremy Toms | | |
| Phone: | 135 237 75821 | | Gainesville, FL |
| Fax: | | | 32641, USA |

PRODUCTS

| Product code | Product Description | Dimensions | UOM | Quantity | Unit Price |
|--------------|------------------------------|------------------|-----|----------|------------|
| 1009613 | LLDPE 40 mils Black Textured | 22.3 ft x 780 ft | sf. | 695,760 | 0.265 |
| 1045708 | HDPE 40 mils Black Textured | 22.3 ft x 780 ft | sf. | 695,760 | 0.234 |

PROJECT INFORMATION

| | | | |
|---|------------------|---|--|
| Currency: | USD | Estimated Tran | \$0.265/SF * 9 SF/SY = \$2.385/SY |
| Taxes: | EXTRA | Terms of Deliv | \$2.385/SY + \$1.50/SY (labor) = \$3.89/SY |
| Duties: | | Loading Detail | |
| Payment Terms: | To be negotiated | Method of Transport: | 2-AXLE TRUCK |
| Purchase Order Before: | 19/09/2017 | Warranty: | 5 YEARS PRORATED |
| Delivery within 30 days after reception of a purchase order | | Additional Testing? | <input type="checkbox"/> |
| Unloading and Inspection Costs Excluded | | Specifications? | <input type="checkbox"/> |
| Note: Roll width and length may vary ± 1% | | All terms of delivery are as per Incoterms 2000 | |
| | | Final routing is at Solmax's discretion | |

NOTES

No specifications or qualifications were provided for this proposal. This quotation is based on the supply of product that meets the standard Solmax specifications, MQC frequencies and GRI GM International specifications.

It is understood that it will be one product or the other & not both, freight has been calculated per product.

Solmax Representative

Submitted by: Michael Winterbourne
Email: mwinterbourne@solmax.com

Opening Bank and Address

National Bank of Canada
2020 René-Gauthier, Varennes, Quebec, Canada, J3X 1N9

Please contact our credit department for more details.

Unless otherwise specified herein above, prices quoted are firm for acceptance within the validity date specified in the Purchase Order Before section of this quotation. Outstanding quotations that have exceeded the validity date will require a new quotation based on shipment requirements. Acceptance of your purchase order is expressly made conditional on Solmax's approval of your credit worthiness and on your acceptance of the terms and conditions herein attached. Price quoted is based on the current resin price. If the price of resin changes after the validity date bid hold period, the prices reflected herein shall be modified to reflect the increase in resin prices.

This offer is **expressly limited** to the terms of this offer set forth on these pages hereof, including the Solmax Terms and Conditions. Buyer agrees that any terms and/or conditions in Buyer's purchase order which differ or add to the quotation shall not become part of the contract between Solmax and Buyer.

Florida Department of Transportation
Item Average Unit Cost
From 2016/07/01 to 2017/06/30

Contract Type: CC **STATEWIDE**
Displaying: VALID ITEMS WITH HITS
From: 0102 1 **To:** 9999999

Closure item 5 - sodding

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------------|--------------|------------------|-----------------|----------------|-----------|------|--|
| 0550 60927 | 1 | \$2,500.00 | \$2,500.00 | 1.000 | EA | N | FENCE GATE, SPE, DOUBLE, >30' OPENING |
| 0561 1 | 8 | \$941.61 | \$13,923,745.02 | 14,787.100 | TN | N | COATING EXISTING STRUCTURAL STEEL |
| 0561 2 | 4 | \$38.72 | \$1,240,714.50 | 32,045.000 | SF | N | COATING EXISTING STRUCTURAL STEEL |
| 0563 4 | 2 | \$1.65 | \$55,512.10 | 33,570.000 | SF | N | ANTI-GRAFFITI COATING, NON-SACRIFICIAL |
| 0570 1 1 | 34 | \$1.86 | \$5,789,168.69 | 3,110,999.000 | SY | N | PERFORMANCE TURF |
| 0570 1 2 | 183 | \$2.63 | \$15,273,055.14 | 5,811,003.000 | SY | N | PERFORMANCE TURF, SOD |
| 0571 1 11 | 8 | \$5.10 | \$326,454.06 | 64,070.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 1 |
| 0571 1 12 | 2 | \$15.50 | \$106,262.52 | 6,857.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 2 |
| 0571 1 13 | 2 | \$9.61 | \$4,679.75 | 487.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 3 |
| 0580 1 1 | 4 | \$28,994.13 | \$115,976.52 | 4.000 | LS | N | LANDSCAPE COMPLETE- SMALL PLANTS |
| 0580 1 2 | 10 | \$28,891.14 | \$404,475.96 | 14.000 | LS | N | LANDSCAPE COMPLETE- LARGE PLANTS |
| 0590 70 | 2 | \$60,124.35 | \$180,373.04 | 3.000 | LS | N | IRRIGATION SYSTEM |
| 0590 70 1 | 5 | \$15,579.01 | \$77,895.04 | 5.000 | LS | N | IRRIGATION SYSTEM REPAIRS |
| 0630 2 11 | 114 | \$7.58 | \$8,372,791.83 | 1,104,340.000 | LF | N | CONDUIT, F& I, OPEN TRENCH |
| 0630 2 12 | 118 | \$18.90 | \$9,092,933.79 | 481,214.000 | LF | N | CONDUIT, F& I, DIRECTIONAL BORE |
| 0630 2 14 | 25 | \$22.71 | \$102,381.23 | 4,508.000 | LF | N | CONDUIT, F& I, ABOVEGROUND |
| 0630 2 15 | 15 | \$25.63 | \$518,626.34 | 20,232.000 | LF | N | CONDUIT, F& I, BRIDGE MOUNT |
| 0630 2 65 | 2 | \$9.91 | \$24,780.00 | 2,500.000 | LF | N | CONDUIT, REMOVE, BRIDGE MOUNT |
| 0632 7 1 | 72 | \$5,340.58 | \$1,014,710.26 | 190.000 | PI | N | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL |
| 0632 7 2 | 31 | \$5.50 | \$160,533.88 | 29,182.000 | LF | N | SIGNAL CABLE, REPAIR/REPL-FUR & INSTALL |
| 0632 7 4 | 1 | \$1,240.00 | \$7,440.00 | 6.000 | PI | N | SIGNAL CABLE, ADJUST |
| 0632 7 6 | 34 | \$697.56 | \$47,434.10 | 68.000 | PI | N | SIGNAL CABLE, REMOVE- INTERSECTION |
| 0632 7 7 | 2 | \$1.40 | \$1,383.75 | 991.000 | LF | N | SIGNAL CABLE, REMOVE- OUTSIDE OF INTERSE |
| 0633 1112 | 2 | \$5.55 | \$1,996.80 | 360.000 | LF | N | FIBER OPTIC CABLE, F&I, OVH,13-48 |
| 0633 1121 | 31 | \$2.26 | \$181,539.03 | 80,455.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,2-12 |
| 0633 1122 | 22 | \$2.90 | \$423,418.60 | 145,910.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,13-48 |
| 0633 1123 | 13 | \$2.60 | \$720,822.18 | 277,404.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,49-96 |
| 0633 1124 | 6 | \$4.11 | \$655,874.74 | 159,391.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,97-144 |
| 0633 1320 | 1 | \$18.00 | \$11,610.00 | 645.000 | LF | N | FIBER OPTIC CABLE, INSTALL, UG |
| 0633 1410 | 1 | \$2.07 | \$581.67 | 281.000 | LF | N | FIBER OPTIC CABLE, REL, OV |
| 0633 1420 | 6 | \$9.78 | \$29,825.18 | 3,050.000 | LF | N | FIBER OPTIC CABLE, REL, UG |
| 0633 1610 | 3 | \$2.24 | \$6,094.58 | 2,716.000 | LF | N | FIBER OPTIC CABLE, REM, OV |
| 0633 1620 | 14 | .62 | \$89,480.32 | 144,798.000 | LF | N | FIBER OPTIC CABLE, REM, UG |
| 0633 2 31 | 38 | \$47.12 | \$345,785.42 | 7,338.000 | EA | N | FIBER OPTIC CONNECTION, INSTALL, SPLICE |
| 0633 2 32 | 19 | \$90.81 | \$105,345.26 | 1,160.000 | EA | N | FIBER OPTIC CONNECTION, INSTALL, TERM |
| 0633 3 11 | 32 | \$912.04 | \$225,274.58 | 247.000 | EA | N | FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE |
| 0633 3 12 | 30 | \$85.16 | \$36,107.08 | 424.000 | EA | N | FIBER OPTIC CONN HDWR, SPLICE TRAY |
| 0633 3 13 | 10 | \$78.66 | \$83,458.85 | 1,061.000 | EA | N | FIBER OPTIC CONN HDWR, PRETERM CONNECT A |
| 0633 3 14 | 16 | \$179.71 | \$18,151.13 | 101.000 | EA | N | FIBER OPTIC CONN HDWR, BUFFER TUBE FAN O |
| 0633 3 15 | 18 | \$2,192.88 | \$499,977.29 | 228.000 | EA | N | FIBER OPTIC CONN HDWR, PRETERM PATCH PAN |

Florida Department of Transportation
Item Average Unit Cost
From 2016/07/01 to 2017/06/30

Closure Item 6 - piping

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------------|-----------------|---------------------|-----------------|-------------------|--------------|------|---|
| 0433 1 | 1 | \$868.83 | \$170,290.68 | 196.000 | EA | N | CHEM GROUT REPAIR, MANHOLE / INLET |
| 0434 1 | 1 | \$315.00 | \$253,102.50 | 803.500 | CY | N | UNDERGROUND EXFILTRATION STORAGE |
| 0436 1 1 | 10 | \$240.29 | \$744,429.09 | 3,098.000 | LF | N | TRENCH DRAIN, STANDARD |
| 0440 1 10 | 2 | \$31.06 | \$131,550.00 | 4,235.000 | LF | N | UNDERDRAIN, TYPE I |
| 0440 1 20 | 2 | \$37.18 | \$9,406.50 | 253.000 | LF | N | UNDERDRAIN, TYPE II |
| 0440 1 50 | 2 | \$31.05 | \$8,631.30 | 278.000 | LF | N | UNDERDRAIN, TYPE V |
| 0440 70 | 4 | \$1,224.42 | \$30,610.48 | 25.000 | EA | N | UNDERDRAIN INSPECTION BOX |
| 0440 73 1 | 5 | \$48.96 | \$15,668.40 | 320.000 | LF | N | UNDERDRAIN OUTLET PIPE, 4" |
| 0440 73 2 | 2 | \$130.00 | \$2,340.00 | 18.000 | LF | N | UNDERDRAIN OUTLET PIPE, 6" |
| 0440 73 3 | 1 | \$21.30 | \$1,214.10 | 57.000 | LF | N | UNDERDRAIN OUTLET PIPE, 8" |
| 0442 70 | 1 | \$2.81 | \$59,482.08 | 21,168.000 | LF | N | VERTICAL DRAINAGE WICKS |
| 0443 70 3 | 1 | \$110.43 | \$168,957.90 | 1,530.000 | LF | N | FRENCH DRAIN, 18" |
| 0443 70 4 | 9 | \$131.79 | \$1,516,746.07 | 11,509.000 | LF | N | FRENCH DRAIN, 24" |
| 0443 70 5 | 1 | \$150.19 | \$18,473.37 | 123.000 | LF | N | FRENCH DRAIN, 30" |
| 0443 70 6 | 2 | \$162.83 | \$751,957.14 | 4,618.000 | LF | N | FRENCH DRAIN, 36" |
| 0443 72 10 | 1 | \$15.50 | \$6,727.00 | 434.000 | SY | N | FRENCH DRAIN- AGGREGATE W/O PIPE, 0-0.9' |
| 0443 72 11 | 1 | \$27.85 | \$60,685.15 | 2,179.000 | SY | N | FRENCH DRAIN- AGGREGATE W/O PIPE, 1-1.9' |
| 0443 72 12 | 1 | \$34.00 | \$39,610.00 | 1,165.000 | SY | N | FRENCH DRAIN- AGGREGATE W/O PIPE, 2-2.9' |
| 0443 72 13 | 1 | \$47.65 | \$6,099.20 | 128.000 | SY | N | FRENCH DRAIN- AGGREGATE W/O PIPE, 3-3.9' |
| 0443 72 14 | 1 | \$82.85 | \$1,905.55 | 23.000 | SY | N | FRENCH DRAIN- AGGREGATE W/O PIPE, 4-4.9' |
| 0444 70 11 | 1 | \$190.00 | \$30,400.00 | 160.000 | LF | N | DEEP WELL- OPEN HOLE, 24" |
| 0444 71 11 | 1 | \$235.00 | \$195,050.00 | 830.000 | LF | N | DEEP WELL CASING, 24" |
| 0444 72 11 | 1 | \$90.00 | \$18,000.00 | 200.000 | LF | N | DEEP WELL CLEANING, 24" |
| 0444 73 12 | 1 | \$600.00 | \$4,800.00 | 8.000 | EA | N | STEEL WELL GRATE, 24" AND GREATER |
| 0446 1 1 | 7 | \$24.60 | \$2,662,979.55 | 108,233.000 | LF | N | EDGEDRAIN DRAINCRETE, STANDARD |
| 0446 71 1 | 7 | \$19.08 | \$152,515.84 | 7,995.000 | LF | N | EDGEDRAIN OUTLET PIPE, 4" |
| 0450 1 1 | 3 | \$159.77 | \$686,700.00 | 4,298.000 | LF | N | PREST BEAMS, TYPE II |
| 0450 1130 | 1 | \$287.00 | \$560,798.00 | 1,954.000 | LF | N | PREST BEAM, FDT 30 |
| 0450 2 36 | 4 | \$247.90 | \$932,338.00 | 3,761.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 36" |
| 0450 2 45 | 2 | \$211.61 | \$2,197,170.00 | 10,383.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 45" |
| 0450 2 54 | 2 | \$220.00 | \$905,300.00 | 4,115.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 54" |
| 0450 2 63 | 1 | \$275.00 | \$414,700.00 | 1,508.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 63" |
| 0450 2 72 | 2 | \$252.39 | \$1,264,240.00 | 5,009.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 72" |
| 0450 2 78 | 1 | \$308.15 | \$244,671.10 | 794.000 | LF | N | PREST BEAMS: FLORIDA-I BEAM 78" |
| 0450 3 11 | 1 | \$225.00 | \$59,625.00 | 265.000 | LF | N | PRESTRESSED SLAB UNITS, 48" X 12" |
| 0450 3 21 | 1 | \$350.00 | \$15,400.00 | 44.000 | LF | N | PRESTRESSED SLAB UNITS, 60" X 12" |
| 0450 3 25 | 2 | \$254.19 | \$147,940.00 | 582.000 | LF | N | PRESTRESSED SLAB UNITS, 60" X 15" |
| 0450 3 95 | 2 | \$254.19 | \$73,970.00 | 291.000 | LF | N | PRESTRESSED SLAB UNITS, VAR WI 30-47", 15 |
| 0450 8 21 | 3 | \$234.98 | \$955,680.00 | 4,067.000 | LF | N | PREST BEAM: FL SLAB BEAM, 15" D, 48-51" W |
| 0450 8 23 | 1 | \$275.00 | \$121,825.00 | 443.000 | LF | N | PREST BEAM: FL SLAB BEAM, 15" D, 55-57" W |

Florida Department of Transportation
Item Average Unit Cost
From 2016/07/01 to 2017/06/30

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

Closure Item 6 - control structures

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------------|--------------|------------------|--------------|----------------|-----------|------|--|
| 0430185148 | 1 | \$750.00 | \$924,000.00 | 1,232.000 | LF | N | PIPE CULV,OPT MATL, ROUND, JACK&BORE,48" |
| 0430185166 | 1 | \$3,910.00 | \$692,070.00 | 177.000 | LF | N | PIPE CULV,OPT MATL, ROUND, JACK&BORE,66" |
| 0430200 23 | 1 | \$621.00 | \$621.00 | 1.000 | EA | N | FLARED END SECTION, CONCRETE, 15" |
| 0430200 25 | 1 | \$550.00 | \$1,650.00 | 3.000 | EA | N | FLARED END SECTION, CONCRETE, 18" |
| 0430200 38 | 1 | \$3,827.53 | \$3,827.53 | 1.000 | EA | N | FLARED END SECTION, CONCRETE, 36" |
| 0430200 43 | 1 | \$8,651.88 | \$8,651.88 | 1.000 | EA | N | FLARED END SECTION, CONCRETE, 60" |
| 0430600125 | 1 | \$2,687.17 | \$2,687.17 | 1.000 | EA | N | U-ENDWALL, STD 260, 1:4 SLP, 18" |
| 0430602123 | 2 | \$2,846.67 | \$42,700.00 | 15.000 | EA | N | U-ENDWALL,W \GRATE,STD 260,1:4 SLP,15" |
| 0430602129 | 1 | \$7,155.00 | \$7,155.00 | 1.000 | EA | N | U-ENDWALL,W \GRATE,STD 260,1:4 SLP,24" |
| 0430610123 | 1 | \$3,800.00 | \$7,600.00 | 2.000 | EA | N | U-ENDWALL,STD 261,1:4 SLP, 15" |
| 0430610133 | 1 | \$2,257.30 | \$2,257.30 | 1.000 | EA | N | U-ENDWALL,STD 261,1:4 SLP, 30" |
| 0430610225 | 1 | \$3,100.00 | \$3,100.00 | 1.000 | EA | N | U-ENDWALL,STD 261,1:3 SLP, 18" |
| 0430610325 | 2 | \$2,300.00 | \$16,100.00 | 7.000 | EA | N | U-ENDWALL,STD 261,1:2 SLP, 18" |
| 0430611023 | 1 | \$2,160.00 | \$17,280.00 | 8.000 | EA | N | U-ENDWALL,STD 261,BAFFLES,1:6 SLP, 15" |
| 0430611025 | 1 | \$2,950.00 | \$8,850.00 | 3.000 | EA | N | U-ENDWALL,STD 261,BAFFLES,1:6 SLP, 18" |
| 0430611123 | 1 | \$1,810.00 | \$5,430.00 | 3.000 | EA | N | U-ENDWALL, BAFFLES,STD 261,1:4 SLP, 15" |
| 0430611129 | 1 | \$2,300.00 | \$2,300.00 | 1.000 | EA | N | U-ENDWALL, BAFFLES,STD 261,1:4 SLP, 24" |
| 0430611133 | 1 | \$3,981.48 | \$3,981.48 | 1.000 | EA | N | U-ENDWALL /BAFFLES,STD 261, 1:4 SLP,30" |
| 0430611223 | 1 | \$1,650.00 | \$6,600.00 | 4.000 | EA | N | U-ENDWALL, BAFFLES, STD 261,1:3 SLP,15" |
| 0430611225 | 3 | \$2,756.62 | \$16,539.69 | 6.000 | EA | N | U-ENDWALL, BAFFLES, STD 261,1:3 SLP,18" |
| 0430611233 | 1 | \$4,250.00 | \$4,250.00 | 1.000 | EA | N | U-ENDWALL,STD 261,BAFFLES,1:3 SLP, 30" |
| 0430611323 | 1 | \$1,840.00 | \$3,680.00 | 2.000 | EA | N | U-ENDWALL, BAFFLES, STD 261,1:2 SLP,15" |
| 0430611325 | 2 | \$3,963.15 | \$7,926.29 | 2.000 | EA | N | U-ENDWALL, BAFFLES, STD 261,1:2 SLP,18" |
| 0430613025 | 2 | \$3,207.50 | \$25,660.00 | 8.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:6 SLP,18" |
| 0430613029 | 2 | \$3,579.09 | \$17,895.45 | 5.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:6 SLP,24" |
| 0430613125 | 2 | \$3,452.34 | \$24,166.35 | 7.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:4 SLP,18" |
| 0430613129 | 2 | \$3,742.86 | \$26,200.00 | 7.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:4 SLP,24" |
| 0430613225 | 1 | \$3,000.00 | \$33,000.00 | 11.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:3 SLP,18" |
| 0430613229 | 1 | \$3,500.00 | \$3,500.00 | 1.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:3 SLP,24" |
| 0430613325 | 1 | \$3,000.00 | \$60,000.00 | 20.000 | EA | N | U-ENDWALL,BAF& GRATE,STD 261,1:2 SLP,18" |
| 0430821 33 | 1 | \$1,506.02 | \$1,506.02 | 1.000 | EA | N | CLEANING & SEALING EXIST PIPE JNT,30" SS |
| 0430830 | 17 | \$268.23 | \$458,424.42 | 1,709.100 | CY | N | PIPE FILLING AND PLUGGING |
| 0430880 01 | 3 | \$10,130.24 | \$141,823.40 | 14.000 | EA | N | FLAP GATES, 0-24" |
| 0430880 02 | 2 | \$20,290.08 | \$243,480.96 | 12.000 | EA | N | FLAP GATES, 25-36" |
| 0430880 03 | 3 | \$11,259.26 | \$45,037.02 | 4.000 | EA | N | FLAP GATES, 37-48" |
| 0430880 04 | 2 | \$66,000.00 | \$330,000.00 | 5.000 | EA | N | FLAP GATES, 49-60" |
| 0430885 18 | 1 | \$3,572.00 | \$3,572.00 | 1.000 | EA | N | MANATEE GATE FOR 18" PIPE |
| 0430885 36 | 1 | \$3,607.00 | \$7,214.00 | 2.000 | EA | N | MANATEE GATE FOR 36" PIPE |
| 0430885 42 | 1 | \$4,087.00 | \$4,087.00 | 1.000 | EA | N | MANATEE GATE FOR 42" PIPE |
| 0430950 | 10 | \$138.38 | \$658,834.74 | 4,761.200 | CY | N | DESILTING CONCRETE BOX CULVERT |



Closure Item 8 - Gas extraction

CARLSON ENVIRONMENTAL CONSULTANTS, PC

LANDFILL GAS AND SOLID WASTE SPECIALISTS

January 20, 2017

Mr. Jeremy Toms
Jones Edmund Associates
Gainesville, Florida

Subject: Budget Estimate - Landfill Gas Well Drilling
Palatka, FL

Dear Mr. Toms:

Per your request, Carlson Environmental Consultants, PC (CEC) is pleased to submit the following budget estimate for landfill gas well at a landfill in Palatka Florida.

EXECUTIVE SUMMARY TABLE

| TASK | DESCRIPTION | Unit Price | Units | COSTS |
|---------------------------|---------------------------------------|------------|----------|------------------|
| 1 | Drill Rig Mobilization/Demobilization | \$12,000 | 1 LS | \$5,500 |
| 2 | Well Drilling, Fusion & Completion | \$110 | 4,400 VF | \$484,000 |
| 3 | Drill Pads Construction | \$500 | 44 EA | \$22,000 |
| TOTAL PROJECT COST | | | | \$511,500 |

This scope is based on general information about the project with the contractor providing all materials for well completion.

Sincerely,

Adjusting for 15 wells:
mobilization = \$5,500
drilling = \$110 * 50 VF * 15 wells = \$82,500
drill pad = \$500 * 15 = \$7,500

Total cost = \$95,500

Seth Nunes
Principal
Carlson Environmental Consultants, PC

Hardee County Landfill
Closure Design and Construction Services
Fee Estimate

| |
|--|
| Closure Item 10 - Engineering |
| Closure Item 11 - Professional Services |

| | Senior Project Engineer | Project Manager | Project Engineer | Staff Engineer/Professional | Resident Construction Representative | Technician/AutoCAD | Administrative Assistant | Total | Labor Cost | Subconsult. Cost | Other Direct Costs | Total Costs |
|-------------------------------|-------------------------|-----------------|------------------|-----------------------------|--------------------------------------|--------------------|--------------------------|-------------|-------------------|------------------|--------------------|-------------------|
| Tasks | \$ 215.00 | \$ 170.00 | \$ 170.00 | \$ 130.00 | \$ 85.00 | \$ 80.00 | \$ 80.00 | | | | | |
| Engineering Services | | | | | | | | | | | | |
| Closure Report and Permitting | 100 | 40 | 240 | 240 | 0 | 80 | 8 | 708 | \$ 107,340 | \$ - | \$ 1,000 | \$ 108,340 |
| Closure Design | 120 | 40 | 240 | 240 | 0 | 80 | 8 | 728 | \$ 111,640 | \$ - | \$ 1,000 | \$ 112,640 |
| Final Survey | 0 | 2 | 4 | 8 | 0 | 24 | 0 | 38 | \$ 3,980 | \$ 10,000 | \$ - | \$ 13,980 |
| Certification | 16 | 8 | 40 | 100 | 0 | 24 | 16 | 204 | \$ 27,800 | \$ - | \$ - | \$ 27,800 |
| Subtotal | 236 | 90 | 524 | 588 | 0 | 208 | 32 | 1678 | \$ 250,760 | \$ 10,000 | \$ 2,000 | \$ 262,760 |
| Professional Services | | | | | | | | | | | | |
| Contract Management | 20 | 80 | 40 | 16 | 0 | 0 | 8 | 164 | \$ 27,420 | \$ - | \$ 5,000 | \$ 32,420 |
| CQA | 40 | 40 | 80 | 80 | 800 | 16 | 8 | 1064 | \$ 109,320 | \$ 40,000 | \$ 20,000 | \$ 169,320 |
| Subtotal | 60 | 120 | 120 | 96 | 800 | 16 | 16 | 1228 | \$ 136,740 | \$ 40,000 | \$ 25,000 | \$ 201,740 |

Polk County BoCC (/)



<https://www.facebook.com/polkcountylf>

Closure Item 13 - waste tires

Closure Item 13 - White goods

twitter.com/PolkCountyFL



<https://www.youtube.com/user/polkcountyfl>



</contact-us>



<https://member.everbridge.net/index/892807736724723#/overview>

</pgtv>



</social-media-wall>



[MENU](#)

Search the Site



Landfill

North Central Landfill

LOCATION

The landfill is located at 7425 DeCastro Road, Winter Haven, FL 33880, between Lakeland and Winter Haven, 4.5 miles east of U.S. 98 South on County Road 540.

HOURS

Monday through Friday 7 a.m. to 5 p.m.

Saturdays 7:30 a.m. to 12:30 p.m.

Closed Sunday and the following holidays:

New Year's Day, Memorial Day, Fourth of July, Labor Day, Thanksgiving Day, Christmas Day

PAYMENT

Cash, check, debit or credit cards are acceptable forms of payment Monday through day.

Credit cards are NOW accepted on Saturday.

For information on setting up a business account, please contact our office at (863) 284-4319.

All incoming loads are subject to a \$10 minimum fee and must be secured. No waste generated from outside Polk County will be accepted without prior written approval from the Board of County Commissioners.

| Accepted Materials | Rate |
|---|--|
| Garbage/Trash (Class 1) | \$36.50/ton |
| Yard Trash | \$22/ton |
| Construction and Demolition Debris | \$36.50/ton |
| Refrigerators and A/C Units (White Goods) assume 10 tons white goods 10 tons x \$50/ton = \$500 | \$27.50/ton without Freon \$50/ton with Freon |
| Standard Passenger Vehicle Tires: No more than 24 tires accepted per visit | \$2/tire off rim \$5/tire on rim |
| Equipment/Semi Tires over 17" | \$175/ton |
| Scrap Metals | 1500 tires x (1 ton/100 tires) x \$175/ton = \$2,625 |
| Mobile Homes | \$495/side |
| Special Handling Materials (Requiring additional resources to process the load properly) | \$175/ton |

Unaccepted Materials:

- Bulk Liquids
- Pressurized tanks
- Commercial Quantities of liquids (55 Gallon drums)
- Ammunition/Explosives
- Biological Waste
- Asbestos
- Radioactive waste

Smoking is strictly prohibited while at the landfill.

If you have questions, call Waste and Recycling Division at (863) 284-4319.

The Polk County Board of County Commissioners is an equal opportunity and affirmative action (/equal-opportunity/equal-opportunity-action-plan) employer.

Polk County Board of County Commissioners

330 W. Church St.
PO Box 9005
Bartow, FL 33831-9005
(863) 534-6000

HARDEE COUNTY PURCHASING DEPT

205 HANCHEY RD
WAUCHULA FL 33873-9691

LTC item 1 - Groundwater Monitoring
LTC Item 2 - Surface Water Monitoring
LTC Item 3 - Gas Monitoring

PURCHASE ORDER: 519503

Page: 1 of 1

* * * * * VENDOR * * * * *

ATKINS NORTH AMERICA, INC
PO BOX 409357
ATLANTA GA 30384-9357

* * * * * DELIVER TO * * * * *

**HARDEE COUNTY
SOLID WASTE & RECYCLE
685 AIRPORT ROAD
WAUCHULA, FL. 33873**

| Ordered | Due By | Ship Via | FOB | Terms | Customer No | By |
|------------|------------|----------|-----|-------------|-------------|--------|
| 12/04/2017 | 01/03/2018 | | | NET 30 DAYS | | MELODY |

| Requisition No | Vendor No | Vendor Phone | Vendor Fax | Vendor Contact |
|----------------|-----------|---------------|------------|----------------|
| 10030935 | 13291-1 | (407)806-4339 | | GREG MUDD |

| No | Quantity | U/M | Description | Our Stock No | Unit Price | Extended | G/L Account |
|----|----------|------|---|--------------|-------------|-----------|---------------|
| 1 | 2.00 | EACH | SURFACE WATER SAMPLING - 2 PER YEAR | | 825.0000 | 1,650.00 | 403-534-031-0 |
| 2 | 2.00 | EACH | GROUNDWATER SAMPLING - 8 SAMPLES 2 PER YEAR | | 6,016.0000 | 12,032.00 | 403-534-031-0 |
| 3 | 2.00 | EACH | GROUNDWATER ELEVATIONS - 20 SAMPLES 2 PER YEAR | | 690.0000 | 1,380.00 | 403-534-031-0 |
| 4 | 2.00 | EACH | GROUNDWATER REPORT - 1 EVENT 2 PER YEAR | | 3,140.0000 | 6,280.00 | 403-534-031-0 |
| 5 | 4.00 | EACH | LANDFILL GAS MONITORING - 13 SAMPLES 4 PER YEAR | | 910.0000 | 3,640.00 | 403-534-031-0 |
| | | | | | ** TOTAL ** | 24,982.00 | |

Groundwater Monitoring:
\$6,016 + \$690 + \$3,140 = \$9,846 Semi-Annually

Surface Water Monitoring:
\$825 Semi-Annually

Gas Monitoring:
\$910 Quarterly

VENDOR INSTRUCTIONS:

- MAIL INVOICES TO: HARDEE COUNTY CLERK TO BOCC ACCOUNTING DEPT PO DRAWER 1749 WAUCHULA, FL 33873
- INVOICES AND PACKAGES MUST BEAR THE P.O. NO. ABOVE.
- PURCHASES MAY NOT EXCEED THE TOTAL AMOUNT OF THIS ORDER WITHOUT PRIOR APPROVAL BY THE PURCHASING DEPT.
- ACCEPTANCE OF THIS ORDER INCLUDES ACCEPTANCE OF ALL TERMS, PRICES, DELIVERY INSTRUCTIONS, SPECIFICATIONS AND CONDITIONS.
- STATE TAX EXEMPT#: 9975123 EIN: 59-6000632
- IF YOU HAVE QUESTIONS, PLEASE CALL 863/773-5014.

SPECIAL INSTRUCTIONS:

Jack Logan

VENDOR



RECEIVED

INVOICE STATEMENT

JUN 07

LTC Item 4: Leachate Testing

MID FLORIDA WATER LAB

8 Oakwood Rd. • Winter Haven, FL 33880
 Phone (863) 965-2540 • Fax (863) 967-8601
 Toll Free 888-244-5657

Customer's Order No. **Nº 11093**

Hardee County UtilitiesWauchula Hills + VandolahAttn: Michelle Perna 773-3465Date: **5/31/17**

Cash Check Account

| QUAN. | DESCRIPTION | AMOUNT |
|-------|---|----------|
| W.H. | 1 Set of WW Est at \$ 58.00 per set | \$ 58.00 |
| | 1 Set of WW Inf + Est at \$ 98.00 per set | 98.00 |
| | 5 Water Bact. Samples at \$ 15.00 each | 75.00 |
| | 1 Total Nitrogen / Total Phosphorus at \$ 63.00 | 63.00 |
| | 1 BOD + 1 Ammonia sample at \$ 43.00 / set set | 43.00 |
| | 2 BiWeekly Courier pickup at \$ 15.00 each | 30.00 |
| Dan | 1 Set of WW Est at \$ 58.00 per set for May 2017 | 58.00 |

PLEASE PAY BY INVOICE • TERMS: NET 15 DAYS

Received by: _____

SUBTOTAL

TAX

TOTAL **\$ 425.00**

A requisition will need to be put in for this in order for accounting to pay this invoice.

Mrs. Margaret inadvertently put it on the invoice instead for Utilities.

Hendee Co. Utilities



**CHAIN OF
CUSTODY**

FDOH Cert# E84567

MID FLORIDA WATER LAB

Margaret Rajpaul, Director
8 Oakwood Road
Winter Haven, FL 33880

PHONE: (863) 965-2540
FAX: (863) 967-8601
TOLL FREE: 888-244-5657

No 75489

RECEIVED

21 MAY 16 P

Client Name Hendee County Solid Waste Dept.

Address 1685 Airport Road

City: Loughard

State: FL

Zip: 33873

Time: 10:00

Comp/Grab:

Sample Location:

Sample Collected From:

Sample ID: 511605

Matrix:

Date:

Time:

Comments:

Sample ID: 511605

Matrix:

**MID FLORIDA WATER LAB**

FDOH CERTIFICATION #: E84567

8 OAKWOOD ROAD, WINTER HAVEN FL 33880
Phone: (863) 965-2540 Fax: (863) 967-8601 Toll Free (888) 244-5657

Margaret Rajpaul, Director

LABORATORY RESULTSCLIENT: HARDEE COUNTY UTILITIESADDRESS: Hardee County Utilities, 2428 COMMERCE CT BOWLING GREEN, FL 33834SAMPLE DESCRIPTION: HARDEE COUNTY SOLID WASTE DEPARTMENTSAMPLE COLLECTION: ALEX PALACIOS 05/16/17 at 10.45 amSYSTEM NAME: MANHOLE LEACHATEDATE AND TIME RECEIVED: 05/16/17 @ 12.14 pm

| Lab I.D. Number | Parameter | Result | Qualifier | Units | Procedure | MDL | Date & Time Start | Date & Time Completed |
|-----------------|--------------------------|--------|-----------|-------|-----------|-------|---------------------|-----------------------|
| 17051444 | BIOLOGICAL OXYGEN DEMAND | 1200 | U | MG/L | SM5210B | 1200 | 05/17/17 @ 3.12 pm | E84167 |
| 17051444 | AMMONIA as N | 16.7 | U | MG/L | 150.1 | 0.008 | 05/24/17 @ 10.14 am | E84167 |
| | | | | | | | | |
| | | | | | | | | |

COMMENTS: REVISED REPORT – DATA ENTRY ERROR.

THESE TESTS MEET NELAC REQUIREMENTS

The test results in this report relate only to the analyses of the samples submitted.

Qualifiers that may apply:U = Below Detection Limit
Margaret Rajpaul - 5/31/17

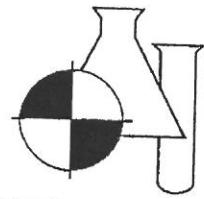
Margaret Rajpaul – Contact Person

PG 182

Revised
SEE COMMENTS

BENCHMARK

EnviroAnalytical Inc.



NELAC Certification #E84167

ANALYTICAL TEST REPORT

THESE RESULTS MEET NELAC STANDARDS

Submission Number : 17050691

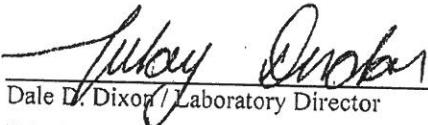
Mid Florida Water Lab
8 Oakwood Rd.
Winter Haven, FL 33880

Project Name : HARDEE COUNTY SOLID WASTE DEPT
Date Received : 05/17/2017
Time Received : 1503

Margaret Rajpaul

| | | | |
|---------------------|--------------------|----------------|------------|
| Submission Number: | 17050691 | Sample Date: | 05/16/2017 |
| Sample Number: | 001 | Sample Time: | 1045 |
| Sample Description: | Manhole - Leachate | Sample Method: | Grab |

| Parameter | Result | Units | MDL | PQL | Procedure | Analysis Date/Time | Analyst |
|---------------------------|--------|-------|-------|-------|-----------|--------------------|---------|
| AMMONIA NITROGEN | 16.7 | MG/L | 0.008 | 0.032 | 350.1 | 05/24/2017 10:44 | SW |
| BIOCHEMICAL OXYGEN DEMAND | 1200 U | MG/L | 1200 | 4800 | SM5210B | 05/17/2017 15:12 | LD/LD |



06/01/2017

Date

Dale D. Dixon / Laboratory Director

Tülay Tanrisever / QC Officer

Deborah A. Murphy / Project Manager

DATA QUALIFIERS THAT MAY APPLY:

A = Value reported is an average of two or more determinations.
B = Results based upon colony counts outside the ideal range.
H = Value based on field kit determination. Results may not be accurate.
I = Reported value is between the laboratory MDL and the PQL.
J1 = Estimated value. Surrogate recovery limits exceeded.
J2 = Estimated value. No quality control criteria exists for component.
J3 = Estimated value. Quality control criteria for precision or accuracy not met.
J4 = Estimated value. Sample matrix interference suspected.
J5 = Estimated value. Data questionable due to improper lab or field protocols.
K = Off-scale low. Value is known to be < the value reported.
L = Off-scale high. Value is known to be > the value reported.
N = Presumptive evidence of presence of material.
O = Sampled, but analysis lost or not performed.

Q = Sample held beyond accepted hold time.
T = Value reported is < MDL. Reported for informational purposes only and shall not be used in statistical analysis.
U = Analyte analyzed but not detected at the value indicated.
V = Analyte detected in sample and method blank. Results for this analyte in associated samples may be biased high. Standard, Duplicate and Spike values are within control limits. Reported data are usable.
Y = Analysis performed on an improperly preserved sample. Data may be inaccurate.
Z = Too many colonies were present (TNTC). The numeric value represents the filtration volume.
I = Data deviate from historically established concentration ranges.
? = Data rejected and should not be used. Some or all of QC data were outside criteria, and the presence or absence of the analyte cannot be determined from the data.
* = Not reported due to interference.

NOTES:

MBAS calculated as LAS; molecular weight = 340.

PQL = 4xMDL.

ND = Not detected at or above the adjusted reporting limit.

X = Value exceeds MCL.

COMMENTS:

Data entry error for BOD.

For questions or comments regarding these results, please contact us at (941) 723-9986.
Results relate only to the samples.

FLORIDA JETCLEAN

HIGH PRESSURE WATER JETTING – VACUUM EXTRACTION EXPLOSION PROOF INSPECTION - PIPE LOCATING – NO DIG REPAIRS

7538 Dunbridge Drive
Odessa, FL 33556
www. floridajetclean.com

TEL : 800-226-8013
FAX : 813-926-4616

PROPOSAL

DATE : 5/5/2017
TO : Jeremy Toms – Jones Edmunds
FROM : Ralph Calistri (floridajetclean@yahoo.com)
SUBJECT : Leachate Collection System Maintenance at Hardee County Landfill

Thank you for your inquiry. We confirm our capability and interest in carrying out this work at the Hardee County Landfill.

FLORIDA JETCLEAN specializes in leachate collection system maintenance and inspection, and has developed a considerable amount of specific expertise in this field over the last 29+ years. Our company has worked at an extensive number of landfills in Florida, Georgia, the Carolinas, Delaware, and westward to Arkansas. We have worked with most engineering companies active in this field, and have also fostered excellent working relationships with the regulatory authorities. We use modified jetting equipment designed to achieve extended pipe distances found in landfill environments and our explosion proof camera equipment complies with OSHA and regulatory mandates for methane environments. Substantial references are available on request.

- 1) **Florida Jetclean, Inc. is consistently successful in Leachate pipe cleaning because of our ability to address extended distances from a single point of entry.** Typical lower-end equipment is designed for much shorter pipes in sewer environments and is just not capable of distances required in Leachate collection systems. We will provide very capable, high-end equipment, and seasoned operators to help ensure success. Our current distance record from a single point of entry is 1,650'.
- 2) Florida Jetclean, Inc. uses only **explosion proof** (certified Class 1, Division 1, Gas Groups C & D) tractor-driven or push-rod video inspection equipment. **THIS CERTIFICATION IS MANDATED BY OSHA IN METHANE PIPING.** Our equipment and procedures fully meet OSHA and DEP requirements, and **we will put it in writing.**

Proposal to provide high-pressure water-jetting and explosion-proof video-inspection services on the Phase I leachate collection system and the Phase II Section I & II

leachate collection and groundwater collection systems at the Hardee County Landfill, as follows:

Approximately

3,000' of Phase I Leachate Collection Pipe
6,340' of Phase II Section I Groundwater Collection Pipe
2,350' of Phase II Section I Leachate Collection Pipe
1,300' of Phase II Section I Toe Drains
Two days of vacuum extraction of dislodged sediments from pump stations and sumps.

Total Cost For Above = \$ 29,227.50

Plus Additional Pipe

3,150' of Phase II Section II Leachate Collection Pipe
1,000' of Phase II Section II Groundwater Underdrain

Total Cost For Additional Pipe = \$ 7,868.50

17,140 LF Piping
Total Cost = \$37,096
Piping unit cost = \$2.16 / LF

Plus Cleaning 2 x 79,000 Gallon (30' x 16') Open Top Leachate Tanks

- Confined Space Entry
- Vacuum Truck / Crew for Cleanout of Sludge
- On Site, No charge Disposal of Sludge

Total Cost For Tank Cleanout = \$ 9,500.00 / Tank

The proposal is subject to the following :

- The above pipe cleaning covers biomass and light silt removal. Scale removal and blockage penetration may require the use of 10,000PSI/20GPM pipeline water-blasting equipment billable at \$1,950/day. Pipes affected by heavy silting may require additional hourly billing.
- An adequate, no charge, on site water supply for jetcleaning.
- Debris vacuum extracted from landfill vaults and/or tanks to be dumped back on site at no charge.
- 2 wheel drive vehicle access within 10'-15' of each cleanout or manhole
- Continuity of access allowing work to be carried out on a single mobilization
- Exposed and opened cleanouts/manholes at ground level
- Standby time chargeable at \$200.00 per hour should delays not of our making delay progress e.g. bad weather, access problems, high leachate flow levels etc.
- Pricing is unrelated to actual or achieved footages but on the number of setups required and the time we anticipate being on site.
- Current technology limitations may preclude the use of tractor video systems (range 1250') in 8" lines restricted to cleanout access. If a push video system has to be used, we will be limited to a maximum 500' from each point of entry.
- Our equipment and procedures fully meet OSHA and DEP requirements. In particular our video inspection equipment is certified Class 1, Division 1, Groups C & D (i.e. explosion proof). This is mandated in methane piping by OSHA.

- Tanks to be pumped down thereby exposing sludge to be removed via vacuum truck.
- Video log and report together with DVD's will be provided after completion.

Regards,

A handwritten signature in black ink, appearing to read "Ralph Calistri".

Ralph Calistri – Florida Jetclean

LTC Item 5 - Leachate disposal

**#11040 – CITY OF WAUCHULA
P O BOX 818 WAUCHULA, FL 33873**

Solid Waste – Utilities
685 AIRPORT RD

SEND COPY TO KEN WHEELER & OFELIA

13 10660 Landfill

Acct# 403-534-043-0 26 12.90



CITY OF WAUCHULA

126 South 7th Ave.
WAUCHULA, FL 33873-2802
863-773-3131
www.cityofwauchula.com

ACCOUNT NUMBER

13-10660-00

SERVICE FROM

03/14/2017

SERVICE TO

04/13/2017

RECEIVED APR 26 2017

| DUE DATE | AMOUNT DUE |
|----------|------------|
| 05/19/17 | \$2,612.90 |

**SERVICE MAY BE DISCONTINUED WITHOUT FURTHER NOTICE
IF NOT PAID BY THE DUE DATE. ANY PAST DUE BALANCE
(AR) MUST BE PAID IMMEDIATELY.**

AFTER HOURS, PLEASE CALL 863-773-3132

**Bills are due and payable when rendered.
THIS IS THE ONLY NOTICE YOU WILL RECEIVE.
Failure to receive bill does not relieve obligation
to pay or entitle extended time for payment.**

| | | | | |
|----------------|----------------------|--------------------|------------------------------------|--------------|
| SERVICE CODES: | EL - Electric | DC - Demand Charge | U - User Fee | AR - Arrears |
| GA - Garbage | SL - Security Light | W - Water | CT - City Utility Tax or Surcharge | |
| SE - Sewer | ST - State Sales Tax | H - Hanger Rent | K - Florida Gross Receipt Tax | |

ACCOUNT NUMBER

13-10660-00

SERVICE ADDRESS

INDUSTRIAL PK

CUSTOMER

HARDEE COUNTY COMMISS



AMOUNT DUE

\$2,612.90

PLEASE
RETURN THIS
STUB WITH
YOUR PAYMENT

SUMMARY AREA - BILL TOTALS

| METER READING PREVIOUS | METER READING PRESENT | CONSUMPTION | CODE | AMOUNT DUE |
|---------------------------|--------------------------|-------------|-----------------------------|--------------------------|
| 0 | 304,000 | 304,000 | SW SEWER METE AMOUNT DUE | \$2,612.90 \$2,612.90 |

\$2,612.90/304,000 gal x 1,000 gal = \$8.60 /1,000 gal

COST ADJ. RATE 0.00000



JLC FARMS, INC.
Citrus Harvesting & Hauling
Licensed Citrus Fruit Dealer

Hardee County

Attn: Ken Wheeler

Dear Mr. Wheeler,

Thank you for allowing JLC Farms, INC. the opportunity to propose a bid for the hauling job as described. We are prepared to provide our truck and driver transporting the tanker with the specified trailer load from the Hardee County Landfill. We will do this at a cost of \$70.00 per hour. We would appreciate the county's consideration for this job.

Again, thank you for your time and we look forward to working with you.

Sincerely,

Jake Carlton, Vice President
JLC Farms, INC.

Assume:
6,000 gal/load
10 hours/ 7 loads (based on current disposal)

Calculate:
$$\$70/\text{hour} \times (1.5 \text{ hours}/\text{load}) \times (1 \text{ load}/6,000 \text{ gal}) = \$0.0175/\text{gal} = \$17.50/\text{Kgal}$$



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

| | | EST /UNIT | PRICE | TOTAL |
|---|---|-----------|------------|-------------|
| MOBILIZATION/DEMOBILIZATION | | | | \$ 650.00 |
| MONITORING WELLS | (Includes: Screen, Riser, Seal & Grout) | | | |
| Diameter 2" | (1x20') 0 - 50' | 20.0 /ft | 28.00 /ft | \$ 560.00 |
| ADDITIONAL ITEMS | | | | |
| Well Completion (Development, Concrete Pad) | | 1.0 /ea | 207.00 /ea | \$ 207.00 |
| Above-Ground Protective Casing | | 1.0 /ea | 75.00 /ea | \$ 75.00 |
| Per Diem | | 1.0 /dy | 385.00 /dy | \$ 385.00 |
| Permits | | 1.0 /ea | 50.00 /ea | \$ 50.00 |
| Total Estimate | | | | \$ 1,927.00 |

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

LTC Item 6 - Groundwater Monitoring Well Replacement

LTC Item 7 - Gas vent replacement



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

| | | EST /UNIT | PRICE | TOTAL |
|---|---|-----------|------------|-------------|
| MOBILIZATION/DEMOBILIZATION | | | | \$ 650.00 |
| MONITORING WELLS | (Includes: Screen, Riser, Seal & Grout) | | | |
| Diameter 2" | (1x20') 0 - 50' | 20.0 /ft | 28.00 /ft | \$ 560.00 |
| ADDITIONAL ITEMS | | | | |
| Well Completion (Development, Well Cover, Concrete Pad) | | 1.0 /ea | 207.00 /ea | \$ 207.00 |
| Per Diem | | 1.0 /dy | 385.00 /dy | \$ 385.00 |
| Permits | | 1.0 /ea | 50.00 /ea | \$ 50.00 |
| | Total Estimate | | | \$ 1,852.00 |

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

Assume abandonment done concurrently with drilling:
Total = \$1,852 - \$650 = \$1,202



Client: Jones Edmunds & Associates, Inc.

Attn: FACE Backup Information - Groundwater Monitoring Well Replacement

Date: 5/10/2017

Quote Page 1 of 1

Cost Estimate Drilling: Hardee County Class I Landfill

HDI #

| | | EST /UNIT | PRICE | TOTAL |
|---|---|-----------|------------|-------------|
| | | | \$ | |
| MOBILIZATION/DEMOBILIZATION | | | | \$ 650.00 |
| MONITORING WELLS | (Includes: Screen, Riser, Seal & Grout) | | | |
| Diameter 2" | (1x20') 0 - 50' | 20.0 /ft | 28.00 /ft | \$ 560.00 |
| ADDITIONAL ITEMS | | | | |
| Well Completion (Development, Concrete Pad) | | 1.0 /ea | 207.00 /ea | \$ 207.00 |
| Above-Ground Protective Casing | | 1.0 /ea | 75.00 /ea | \$ 75.00 |
| Per Diem | | 1.0 /dy | 385.00 /dy | \$ 385.00 |
| Permits | | 1.0 /ea | 50.00 /ea | \$ 50.00 |
| | Total Estimate | | | \$ 1,927.00 |

35920 STATE ROAD 52 • DADE CITY, FL 33525 • (352) 567-9500 • (352) 567-6646

Change to 50 ft gas vent:
 50 ft x \$28/ft = \$1400
 $\$1400 + \$650 + \$207 + \$75 + \$385 + \$50 = \$2,767$

RS Means Cover Page
Cost Data: Heavy Construction
Location: Tampa, FL
Year: 2017

Guide Me

Welcome JoAnne Talamo



Search Data Manage Estimates Square Foot Estimator Life Cycle Cost Cost Alerts and Trends Reference Items ?

Cost DataHeavy Construction Type Unit Labor Type Open Shop Location TAMPA (335-336,346) Release Year 2017 Search ▾

Search What are you searching for? All Search Include My Custom Data

Hardee County Landfill | Page 1 of 1 | Lines 1 - 5 of 5

| Source | Qty | Line Number | | Description | Frequency | Crew | Unit | Labor Hours | Daily Output | Extended Material | Extended Material O&P |
|-------------------------------|-----|--------------|--|---|-----------|--------|--------|-------------|--------------|-------------------|-----------------------|
| <input type="checkbox"/> Unit | 0 | 312323170020 | | <input type="checkbox"/> Fill, dumped material, spread, by dozer, excludes compa | | B10B | L.C.Y. | 0.010 | 1000.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323201100 | | <input type="checkbox"/> Cycle hauling(wait, load, travel, unload or dump & return) | | B34B | L.C.Y. | 0.070 | 108.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323235040 | | <input type="checkbox"/> Compaction, riding, vibrating roller, 4 passes, 6" lifts | | B10Y | E.C.Y. | | 1900.000 | | |
| <input type="checkbox"/> Unit | 0 | 320190194190 | | <input type="checkbox"/> Mowing, lawn mowing, 5 gang reel, 12', with tractor & a | | B66 | M.S.F. | 0.010 | 1200.000 | | |
| <input type="checkbox"/> Unit | 0 | 334713531200 | | <input type="checkbox"/> Pond and reservoir liners, membrane lining systems HDPE | | 3 Skwk | S.F. | 0.010 | 1600.000 | | |

Cost Estimate Report

Hardee County Landfill

Year 2017

Unit Detail Report

Prepared By: JoAnne Talamo

Jones Edmunds & Associates, Inc.

LTC item 8:
Mowing

LTC item 9:
Sodding
Liner Repair

Closure Item 2:
Placement and Spreading
Compaction
Delivery

Closure Item 4:
Delivery
Placement and Spreading

Date: 02/07/2018

| Line Number | Description | Quantity | Unit | Total Incl. O&P | Ext. Total Incl. O&P |
|--|---|----------|--------|-----------------|--------------------------------|
| Division 31 Earthwork | | | | | |
| 312323170020 | Fill, dumped material, spread, by dozer, excludes compaction | 0.00 | L.C.Y. | \$2.05 | Placement and Spreading \$0.00 |
| 312323201100 | Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 15 min load/wait/unload, 12 C.Y. truck, cycle 30 miles, 45 MPH, excludes loading equipment | 0.00 | L.C.Y. | \$10.56 | Delivery \$0.00 |
| 312323235040 | Compaction, riding, vibrating roller, 4 passes, 6" lifts | 0.00 | E.C.Y. | \$0.61 | Compaction \$0.00 |
| Division 31 Earthwork Subtotal \$0.00 | | | | | |
| Division 32 Exterior Improvements | | | | | |
| 320190194190 | Mowing, lawn mowing, 5 gang reel, 12', with tractor & attachments | 0.00 | M.S.F. | \$0.64 | Mowing \$0.00 |
| Division 32 Exterior Improvements Subtotal \$0.00 | | | | | |
| Division 33 Utilities | | | | | |
| 334713531200 | Pond and reservoir liners, membrane lining systems HDPE, 100,000 S.F. or more, 60 mil thick, per S.F. | 0.00 | S.F. | \$1.19 | Liner Repair \$0.00 |
| Division 33 Utilities Subtotal \$0.00 | | | | | |
| $\$1.19 * 9 \text{ SF/SY} = \$10.71/\text{SY}$ | | | | | |

Florida Department of Transportation

Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

LTC Item 9 - Regrading

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|-----------|--------------|------------------|-----------------|----------------|-----------|------|--|
| 0110 7 1 | 51 | \$147.36 | \$129,386.23 | 878.000 | EA | N | MAILBOX, F&I SINGLE |
| 0110 8 | 1 | \$4,000.00 | \$8,000.00 | 2.000 | DA | N | UNDERWATER DEBRIS REMOVAL |
| 0110 12 1 | 2 | \$1,802.90 | \$124,400.00 | 69.000 | SY | N | HYDRODEMOLITION, REM OF DECK SURFACE |
| 0110 20 2 | 1 | \$405.67 | \$199,995.31 | 493.000 | SF | N | REMOVAL OF EXISTING WALL, RETAINING WALL |
| 0110 71 1 | 3 | \$453.19 | \$434,614.00 | 959.000 | LF | N | BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL |
| 0110 73 | 4 | \$107.45 | \$143,125.00 | 1,332.000 | LF | N | REMOVE EXISTING BULKHEAD |
| 0110 82 | 1 | \$5,000.00 | \$10,000.00 | 2.000 | MB | N | REMOVE & DISPOSE OF STRUCTURAL TIMBER |
| 0110 84 | 1 | \$1,855,000.00 | \$1,855,000.00 | 1.000 | LS | N | TRANSPORT EXIST MATL FOR REEF EST |
| 0110 86 | 21 | \$2,629.59 | \$73,628.42 | 28.000 | LS | N | DELIVERY OF SALVAGEABLE MATERIAL TO FDOT |
| 0120 1 | 122 | \$5.72 | \$25,304,522.95 | 4,423,742.480 | CY | N | REGULAR EXCAVATION |
| 0120 2 2 | 55 | \$12.81 | \$1,326,809.55 | 103,605.740 | CY | N | BORROW EXCAVATION, TRUCK MEASURE |
| 0120 3 | 3 | \$10.73 | \$23,932.39 | 2,230.700 | CY | N | LATERAL DITCH EXCAVATION |
| 0120 4 | 33 | \$7.39 | \$5,946,065.26 | 804,342.400 | CY | N | SUBSOIL EXCAVATION |
| 0120 5 | 13 | \$31.88 | \$375,028.03 | 11,764.600 | CY | N | CHANNEL EXCAVATION |
| 0120 6 | 99 | \$7.75 | \$72,629,367.81 | 9,369,169.100 | CY | N | EMBANKMENT |
| 0120 71 | 37 | \$30,516.96 | \$1,220,678.36 | 40.000 | LS | N | REGULAR EXCAVATION (3-R PROJECTS ONLY) |
| 0120 74 | 1 | \$3.00 | \$66,504.00 | 22,168.000 | CY | N | SURCHARGE EMBANKMENT |
| 0121 70 | 14 | \$179.62 | \$657,815.61 | 3,662.300 | CY | N | FLOWABLE FILL |
| 0125 1 | 5 | \$11.31 | \$14,498.20 | 1,282.300 | CY | N | EXCAVATION FOR STRUCTURES |
| 0125 3 | 1 | \$130.00 | \$14,040.00 | 108.000 | CY | N | SELECT BEDDING MATERIAL |
| 0141 70 | 6 | \$986.25 | \$78,900.00 | 80.000 | AS | N | SETTLEMENT PLATE ASSEMBLY |
| 0145 1 | 2 | \$3.59 | \$184,709.00 | 51,496.000 | SF | N | GEOSYNTHETIC REINFORCED SOIL SLOPE |
| 0145 2 | 9 | \$3.56 | \$307,938.79 | 86,418.000 | SY | N | GEOSYNTHETIC REINF FND OVER SOFT SOIL |
| 0145 72 | 1 | \$30.00 | \$1,530.00 | 51.000 | SY | N | CELLULAR CONFINEMENT FOR SOIL STABILIZAT |
| 0160 4 | 117 | \$4.23 | \$20,652,184.08 | 4,880,580.000 | SY | N | TYPE B STABILIZATION |
| 0162 1 11 | 77 | \$.76 | \$3,148,246.83 | 4,142,023.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 6" |
| 0162 1 12 | 6 | \$2.65 | \$100,591.93 | 37,898.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 12" |
| 0162 1 21 | 1 | \$2.70 | \$103,239.90 | 38,237.000 | SY | N | PREPARED SOIL LAYER, ORGANIC SOIL, 6" |
| 0173 76 | 1 | \$17.00 | \$17,000.00 | 1,000.000 | LF | N | GROUT PIPE INSTALLATION |
| 0173 77 1 | 2 | \$196.38 | \$143,360.00 | 730.000 | CY | N | SUBSURF PRESSURE GROUTING,SAND CEM |
| 0210 1 1 | 2 | \$5.91 | \$44,112.00 | 7,458.000 | SY | N | REWORKING LIMEROCK BASE, 6" |
| 0210 1 9 | 1 | \$50.00 | \$10,000.00 | 200.000 | SY | N | REWORKING LIMEROCK BASE, 3" |
| 0210 2 | 1 | \$30.00 | \$10,455.00 | 348.500 | CY | N | LIMEROCK-NEW MATERIAL FOR REWORKING BASE |
| 0285701 | 83 | \$16.34 | \$18,055,971.64 | 1,105,159.000 | SY | N | OPTIONAL BASE,BASE GROUP 01 |
| 0285702 | 13 | \$9.67 | \$628,106.59 | 64,933.000 | SY | N | OPTIONAL BASE,BASE GROUP 02 |
| 0285703 | 9 | \$8.60 | \$991,432.70 | 115,258.000 | SY | N | OPTIONAL BASE,BASE GROUP 03 |
| 0285704 | 12 | \$11.52 | \$1,113,645.15 | 96,680.000 | SY | N | OPTIONAL BASE,BASE GROUP 04 |
| 0285705 | 8 | \$12.74 | \$2,966,663.75 | 232,945.000 | SY | N | OPTIONAL BASE,BASE GROUP 05 |
| 0285706 | 42 | \$17.89 | \$3,573,401.31 | 199,774.000 | SY | N | OPTIONAL BASE,BASE GROUP 06 |
| 0285707 | 3 | \$28.29 | \$214,756.90 | 7,591.000 | SY | N | OPTIONAL BASE,BASE GROUP 07 |

Florida Department of Transportation

Item Average Unit Cost
 From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
 Displaying: VALID ITEMS WITH HITS
 From: 0102 1 To: 9999999

LTC Item 9 - Sodding

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|-----------|--------------|------------------|-----------------|----------------|-----------|------|--|
| 0561 1 | 14 | \$1,025.28 | \$17,236,033.42 | 16,811.100 | TN | N | COATING EXISTING STRUCTURAL STEEL |
| 0561 2 | 2 | \$34.74 | \$144,189.50 | 4,150.000 | SF | N | COATING EXISTING STRUCTURAL STEEL |
| 0563 4 | 3 | \$1.55 | \$59,729.95 | 38,439.000 | SF | N | ANTI-GRAFFITI COATING, NON-SACRIFICIAL |
| 0570 1 1 | 37 | \$1.93 | \$6,446,022.03 | 3,332,194.000 | SY | N | PERFORMANCE TURF |
| 0570 1 2 | 178 | \$2.61 | \$16,383,491.91 | 6,268,046.000 | SY | N | PERFORMANCE TURF, SOD |
| 0571 1 11 | 7 | \$3.57 | \$154,350.22 | 43,260.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 1 |
| 0571 1 12 | 4 | \$9.51 | \$192,974.82 | 20,301.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 2 |
| 0571 1 13 | 1 | \$32.00 | \$704.00 | 22.000 | SY | N | PLASTIC EROSION MAT, TRM, TYPE 3 |
| 0580 1 1 | 8 | \$97,357.28 | \$778,858.20 | 8.000 | LS | N | LANDSCAPE COMPLETE- SMALL PLANTS |
| 0580 1 2 | 11 | \$37,907.32 | \$492,795.13 | 13.000 | LS | N | LANDSCAPE COMPLETE- LARGE PLANTS |
| 0580 2 2 | 1 | \$1,400.00 | \$85,400.00 | 61.000 | EA | N | LANDSCAPE- RELOCATE TREE, PALMS >14' |
| 0580 7103 | 1 | \$10.50 | \$7,371.00 | 702.000 | EA | N | LANDSCAPE- SM SHRUB/GR, MUHLY GRASS |
| 0590 3 | 1 | \$27,400.00 | \$27,400.00 | 1.000 | EA | N | IRRIGATION SYSTEM CONTROLLER |
| 0590 70 | 4 | \$60,785.00 | \$243,140.00 | 4.000 | LS | N | IRRIGATION SYSTEM |
| 0590 70 1 | 8 | \$39,113.22 | \$312,905.75 | 8.000 | LS | N | IRRIGATION SYSTEM REPAIRS |
| 0630 2 11 | 111 | \$7.25 | \$10,856,822.73 | 1,497,112.000 | LF | N | CONDUIT, F& I, OPEN TRENCH |
| 0630 2 12 | 119 | \$16.69 | \$9,059,246.65 | 542,719.000 | LF | N | CONDUIT, F& I, DIRECTIONAL BORE |
| 0630 2 14 | 25 | \$19.45 | \$163,021.46 | 8,381.000 | LF | N | CONDUIT, F& I, ABOVEGROUND |
| 0630 2 15 | 25 | \$18.44 | \$827,936.08 | 44,910.000 | LF | N | CONDUIT, F& I, BRIDGE MOUNT |
| 0630 2 65 | 4 | \$7.58 | \$37,961.00 | 5,011.000 | LF | N | CONDUIT, REMOVE, BRIDGE MOUNT |
| 0632 7 1 | 75 | \$5,129.21 | \$1,128,425.73 | 220.000 | PI | N | SIGNAL CABLE- NEW OR RECO, FUR & INSTALL |
| 0632 7 2 | 23 | \$4.95 | \$98,857.73 | 19,969.000 | LF | N | SIGNAL CABLE, REPAIR/REPL-FUR & INSTALL |
| 0632 7 6 | 36 | \$620.06 | \$45,264.08 | 73.000 | PI | N | SIGNAL CABLE, REMOVE- INTERSECTION |
| 0632 7 7 | 2 | \$2.89 | \$1,435.00 | 496.000 | LF | N | SIGNAL CABLE, REMOVE- OUTSIDE OF INTERSE |
| 0633 1111 | 3 | \$5.20 | \$7,880.00 | 1,516.000 | LF | N | FIBER OPTIC CABLE, F&I, OVH,2-12 |
| 0633 1112 | 1 | \$2.68 | \$696.80 | 260.000 | LF | N | FIBER OPTIC CABLE, F&I,OVH,13-48 |
| 0633 1113 | 1 | \$3.00 | \$17,976.00 | 5,992.000 | LF | N | FIBER OPTIC CABLE,F&I, OVH,49-96 |
| 0633 1121 | 35 | \$2.58 | \$1,266,097.12 | 490,785.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,2-12 |
| 0633 1122 | 22 | \$2.94 | \$452,050.70 | 153,537.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,13-48 |
| 0633 1123 | 16 | \$2.72 | \$2,772,762.46 | 1,018,780.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,49-96 |
| 0633 1124 | 3 | \$3.67 | \$503,361.00 | 137,118.000 | LF | N | FIBER OPTIC CABLE, F&I, UG,97-144 |
| 0633 1410 | 1 | \$2.07 | \$581.67 | 281.000 | LF | N | FIBER OPTIC CABLE, REL, OV |
| 0633 1420 | 7 | \$12.19 | \$65,179.58 | 5,345.000 | LF | N | FIBER OPTIC CABLE, REL, UG |
| 0633 1610 | 3 | \$1.77 | \$5,767.48 | 3,266.000 | LF | N | FIBER OPTIC CABLE, REM, OV |
| 0633 1620 | 19 | \$.81 | \$172,882.85 | 213,371.000 | LF | N | FIBER OPTIC CABLE, REM, UG |
| 0633 2 31 | 38 | \$41.53 | \$345,342.94 | 8,316.000 | EA | N | FIBER OPTIC CONNECTION, INSTALL, SPLICE |
| 0633 2 32 | 20 | \$86.60 | \$233,723.96 | 2,699.000 | EA | N | FIBER OPTIC CONNECTION, INSTALL, TERM |
| 0633 3 11 | 35 | \$860.87 | \$303,027.83 | 352.000 | EA | N | FIBER OPTIC CONN HDWR, SPLICE ENCLOSURE |
| 0633 3 12 | 30 | \$68.88 | \$40,430.86 | 587.000 | EA | N | FIBER OPTIC CONN HDWR, SPLICE TRAY |
| 0633 3 13 | 14 | \$94.35 | \$229,180.07 | 2,429.000 | EA | N | FIBER OPTIC CONN HDWR, PRETERM CONNECT A |

Florida Department of Transportation

Item Average Unit Cost
 From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
 Displaying: VALID ITEMS WITH HITS
 From: 0102 1 To: 9999999

LTC Item 10 - Stormwater Ditch

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|-----------|--------------|------------------|-----------------|----------------|-----------|------|--|
| 0110 7 1 | 51 | \$147.36 | \$129,386.23 | 878.000 | EA | N | MAILBOX, F&I SINGLE |
| 0110 8 | 1 | \$4,000.00 | \$8,000.00 | 2.000 | DA | N | UNDERWATER DEBRIS REMOVAL |
| 0110 12 1 | 2 | \$1,802.90 | \$124,400.00 | 69.000 | SY | N | HYDRODEMOLITION, REM OF DECK SURFACE |
| 0110 20 2 | 1 | \$405.67 | \$199,995.31 | 493.000 | SF | N | REMOVAL OF EXISTING WALL, RETAINING WALL |
| 0110 71 1 | 3 | \$453.19 | \$434,614.00 | 959.000 | LF | N | BRIDGE FENDER SYSTEM, REMOVAL & DISPOSAL |
| 0110 73 | 4 | \$107.45 | \$143,125.00 | 1,332.000 | LF | N | REMOVE EXISTING BULKHEAD |
| 0110 82 | 1 | \$5,000.00 | \$10,000.00 | 2.000 | MB | N | REMOVE & DISPOSE OF STRUCTURAL TIMBER |
| 0110 84 | 1 | \$1,855,000.00 | \$1,855,000.00 | 1.000 | LS | N | TRANSPORT EXIST MATL FOR REEF EST |
| 0110 86 | 21 | \$2,629.59 | \$73,628.42 | 28.000 | LS | N | DELIVERY OF SALVAGEABLE MATERIAL TO FDOT |
| 0120 1 | 122 | \$5.72 | \$25,304,522.95 | 4,423,742.480 | CY | N | REGULAR EXCAVATION |
| 0120 2 2 | 55 | \$12.81 | \$1,326,809.55 | 103,605.740 | CY | N | BORROW EXCAVATION, TRUCK MEASURE |
| 0120 3 | 3 | \$10.73 | \$23,932.39 | 2,230.700 | CY | N | LATERAL DITCH EXCAVATION |
| 0120 4 | 33 | \$7.39 | \$5,946,065.26 | 804,342.400 | CY | N | SUBSOIL EXCAVATION |
| 0120 5 | 13 | \$31.88 | \$375,028.03 | 11,764.600 | CY | N | CHANNEL EXCAVATION |
| 0120 6 | 99 | \$7.75 | \$72,629,367.81 | 9,369,169.100 | CY | N | EMBANKMENT |
| 0120 71 | 37 | \$30,516.96 | \$1,220,678.36 | 40.000 | LS | N | REGULAR EXCAVATION (3-R PROJECTS ONLY) |
| 0120 74 | 1 | \$3.00 | \$66,504.00 | 22,168.000 | CY | N | SURCHARGE EMBANKMENT |
| 0121 70 | 14 | \$179.62 | \$657,815.61 | 3,662.300 | CY | N | FLOWABLE FILL |
| 0125 1 | 5 | \$11.31 | \$14,498.20 | 1,282.300 | CY | N | EXCAVATION FOR STRUCTURES |
| 0125 3 | 1 | \$130.00 | \$14,040.00 | 108.000 | CY | N | SELECT BEDDING MATERIAL |
| 0141 70 | 6 | \$986.25 | \$78,900.00 | 80.000 | AS | N | SETTLEMENT PLATE ASSEMBLY |
| 0145 1 | 2 | \$3.59 | \$184,709.00 | 51,496.000 | SF | N | GEOSYNTHETIC REINFORCED SOIL SLOPE |
| 0145 2 | 9 | \$3.56 | \$307,938.79 | 86,418.000 | SY | N | GEOSYNTHETIC REINF FND OVER SOFT SOIL |
| 0145 72 | 1 | \$30.00 | \$1,530.00 | 51.000 | SY | N | CELLULAR CONFINEMENT FOR SOIL STABILIZAT |
| 0160 4 | 117 | \$4.23 | \$20,652,184.08 | 4,880,580.000 | SY | N | TYPE B STABILIZATION |
| 0162 1 11 | 77 | \$.76 | \$3,148,246.83 | 4,142,023.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 6" |
| 0162 1 12 | 6 | \$2.65 | \$100,591.93 | 37,898.000 | SY | N | PREPARED SOIL LAYER, FINISH SOIL, 12" |
| 0162 1 21 | 1 | \$2.70 | \$103,239.90 | 38,237.000 | SY | N | PREPARED SOIL LAYER, ORGANIC SOIL, 6" |
| 0173 76 | 1 | \$17.00 | \$17,000.00 | 1,000.000 | LF | N | GROUT PIPE INSTALLATION |
| 0173 77 1 | 2 | \$196.38 | \$143,360.00 | 730.000 | CY | N | SUBSURF PRESSURE GROUTING,SAND CEM |
| 0210 1 1 | 2 | \$5.91 | \$44,112.00 | 7,458.000 | SY | N | REWORKING LIMEROCK BASE, 6" |
| 0210 1 9 | 1 | \$50.00 | \$10,000.00 | 200.000 | SY | N | REWORKING LIMEROCK BASE, 3" |
| 0210 2 | 1 | \$30.00 | \$10,455.00 | 348.500 | CY | N | LIMEROCK-NEW MATERIAL FOR REWORKING BASE |
| 0285701 | 83 | \$16.34 | \$18,055,971.64 | 1,105,159.000 | SY | N | OPTIONAL BASE,BASE GROUP 01 |
| 0285702 | 13 | \$9.67 | \$628,106.59 | 64,933.000 | SY | N | OPTIONAL BASE,BASE GROUP 02 |
| 0285703 | 9 | \$8.60 | \$991,432.70 | 115,258.000 | SY | N | OPTIONAL BASE,BASE GROUP 03 |
| 0285704 | 12 | \$11.52 | \$1,113,645.15 | 96,680.000 | SY | N | OPTIONAL BASE,BASE GROUP 04 |
| 0285705 | 8 | \$12.74 | \$2,966,663.75 | 232,945.000 | SY | N | OPTIONAL BASE,BASE GROUP 05 |
| 0285706 | 42 | \$17.89 | \$3,573,401.31 | 199,774.000 | SY | N | OPTIONAL BASE,BASE GROUP 06 |
| 0285707 | 3 | \$28.29 | \$214,756.90 | 7,591.000 | SY | N | OPTIONAL BASE,BASE GROUP 07 |

Florida Department of Transportation
Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

LTC Item 11 - Fencing

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------------|--------------|------------------|-----------------|----------------|-----------|------|---|
| 0536 6 | 12 | \$13.55 | \$140,289.18 | 10,350.000 | LF | N | PIPE RAIL FOR GUARDRAIL |
| 0536 7 | 14 | \$188.95 | \$107,323.60 | 568.000 | EA | N | SPECIAL GUARDRAIL POST |
| 0536 7 1 | 3 | \$90.49 | \$247,674.50 | 2,737.000 | EA | N | SPECIAL GUARDRAIL POST- DEEP POST FOR SL |
| 0536 7 2 | 5 | \$137.07 | \$19,327.48 | 141.000 | EA | N | SPECIAL GUARDRAIL POST- SP STEEL POST CM |
| 0536 7 3 | 5 | \$93.44 | \$8,970.50 | 96.000 | EA | N | SPECIAL GUARDRAIL POST- ENCASED POST SM |
| 0536 7 4 | 1 | \$175.00 | \$3,150.00 | 18.000 | EA | N | SPECIAL GUARDRAIL POST- FRANG LEAVE OUT |
| 0536 8 | 43 | \$2,585.78 | \$669,717.06 | 259.000 | EA | N | GUARDRAIL- BRIDGE ANCHORAGE ASSEM, F&I |
| 0536 8 6 | 19 | \$192.24 | \$14,994.70 | 78.000 | EA | N | GUARDRAIL, BRIDGE ANCHORAGE ASSEM, REMOVE |
| 0536 8 11 | 3 | \$1,888.44 | \$16,996.00 | 9.000 | EA | N | APPR TRANS- BRIDGE ANCH ASSY, F&I |
| 0536 8 12 | 2 | \$1,532.14 | \$10,725.00 | 7.000 | EA | N | APPROACH TRANS CONN TO RIGID BA, F&I, 2 |
| 0536 8 13 | 5 | \$1,647.71 | \$59,317.44 | 36.000 | EA | N | APPROACH TRANS CONN TO RIGID BA, F&I, 3 |
| 0536 73 | 82 | \$2.01 | \$458,026.16 | 227,916.000 | LF | N | GUARDRAIL REMOVAL |
| 0536 82 | 14 | \$2,430.26 | \$272,189.40 | 112.000 | EA | N | GUARDRAIL ANCHORAGE- CONC BARRIER |
| 0536 83 1 | 1 | \$150.00 | \$1,200.00 | 8.000 | EA | N | GUARDRAIL POST REPLACEMENT, REGULAR |
| 0536 85 22 | 59 | \$2,522.14 | \$802,039.58 | 318.000 | EA | N | GUARDRAIL END ANCH ASSY/END TRE- FLARED |
| 0536 85 24 | 35 | \$2,474.45 | \$316,730.16 | 128.000 | EA | N | GUARDRAIL END ANCH ASSY/END TRE, PARALLEL |
| 0536 85 25 | 49 | \$883.34 | \$225,252.08 | 255.000 | EA | N | GUARDRAIL END ANCH ASSY/END TRE- TYPE II |
| 0536 85 26 | 10 | \$1,995.03 | \$53,865.72 | 27.000 | EA | N | GUARDRAIL END ANCH ASSY/END TRE- TYP CRT |
| 0536 85 27 | 6 | \$5,023.07 | \$45,207.66 | 9.000 | EA | N | GUARDRAIL END ANCH ASSY/END TR- DBL FACE |
| 0538 1 | 15 | \$8.83 | \$513,979.78 | 58,225.000 | LF | N | GUARDRAIL RESET |
| 0542 70 | 5 | \$47.36 | \$8,288.66 | 175.000 | EA | N | BUMPER GUARDS, CONCRETE |
| 0544 75 1 | 19 | \$17,697.45 | \$796,385.10 | 45.000 | EA | N | CRASH CUSHION |
| 0546 71 | 4 | \$708.40 | \$11,334.40 | 16.000 | PS | N | RUMBLE STRIPS |
| 0546 72 52 | 14 | \$1,480.28 | \$86,754.95 | 58.607 | GM | N | RUMBLE STRIPS, GROUND-IN, 16" CENTERLINE |
| 0546 72 53 | 29 | \$1,095.45 | \$365,161.36 | 333.345 | GM | N | RUMBLE STRIPS, GROUND-IN, 8" EDGELINE |
| 0546 72 55 | 20 | \$1,328.08 | \$333,851.18 | 251.378 | GM | N | RUMBLE STRIPS, GROUND-IN, 16" SHOULDER |
| 0548 12 | 13 | \$31.65 | \$20,211,532.68 | 638,607.000 | SF | N | RET WALL SYSTEM, PERM, EX BARRIER |
| 0548 13 | 8 | \$14.61 | \$2,648,570.34 | 181,286.000 | SF | N | RETAINING WALL SYSTEM, TEMP, EXC BAR. |
| 0550 10110 | 5 | \$12.70 | \$29,623.20 | 2,332.000 | LF | N | FENCING, TYPE A, 0.0-5.0', STANDARD |
| 0550 10120 | 4 | \$11.79 | \$40,826.44 | 3,462.000 | LF | N | FENCING, TYPE A, 5.1-6.0, STANDARD |
| 0550 10149 | 1 | \$11.87 | \$653,051.79 | 55,017.000 | LF | N | FENCING, TYPE A, 7.1-8.0', SPECIAL FEATU |
| 0550 10150 | 2 | \$10.66 | \$766,519.00 | 71,932.000 | LF | N | FENCING, TYPE A, 8.1-10.0', STANDARD |
| 0550 10210 | 2 | \$25.93 | \$12,135.00 | 468.000 | LF | N | FENCING, TYPE B, 0.0-5.0', STANDARD FEAT |
| 0550 10212 | 2 | \$13.66 | \$15,664.00 | 1,147.000 | LF | N | FENCING, TYPE B, 0.0-5.0', W/ VINYL COAT |
| 0550 10218 | 1 | \$40.00 | \$6,400.00 | 160.000 | LF | N | FENCING, TYPE B, 0.0-5.0', RESET EXIST |
| 0550 10220 | 10 | \$12.72 | \$1,008,272.54 | 79,273.000 | LF | N | FENCING, TYPE B, 5.1-6.0', STANDARD |
| 0550 10221 | 1 | \$15.00 | \$1,890.00 | 126.000 | LF | N | FENCING, TYPE B, 5.1-6.0', W/ BARB ATTMT |
| 0550 10222 | 9 | \$17.14 | \$160,232.02 | 9,348.000 | LF | N | FENCING, TYPE B, 5.1-6.0, W/ VINYL COAT |
| 0550 10228 | 7 | \$11.69 | \$38,478.00 | 3,291.000 | LF | N | FENCING, TYPE B, 5.1-6.0, RESET EXISTING |
| 0550 10231 | 1 | \$59.50 | \$8,330.00 | 140.000 | LF | N | FENCING, TYPE B, 6.1-7.0, W/ BARB ATTMT |

Florida Department of Transportation

Item Average Unit Cost

From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
 Displaying: VALID ITEMS WITH HITS
 From: 0102 1 To: 9999999

LTC item 11 - Gate

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------------|--------------|------------------|----------------|----------------|-----------|------|--|
| 0550 10238 | 1 | \$20.00 | \$980.00 | 49.000 | LF | N | FENCING, TYPE B, 6.1-7.0, RESET EXISTING |
| 0550 10248 | 2 | \$43.91 | \$6,938.15 | 158.000 | LF | N | FENCING, TYPE B, 7.1-8.0, RESET EXISTING |
| 0550 10251 | 4 | \$18.29 | \$2,000,988.85 | 109,432.000 | LF | N | FENCING, TYPE B, 8.1-10.0', W/ BRBD WR ATT |
| 0550 10315 | 1 | \$45.00 | \$62,460.00 | 1,388.000 | LF | N | FENCING, TYPE R, 0-5.0', VERTICAL |
| 0550 10325 | 1 | \$107.00 | \$3,317.00 | 31.000 | LF | N | FENCING, TYPE R, 5.1-6.0', VERTICAL |
| 0550 10343 | 1 | \$220.00 | \$94,160.00 | 428.000 | LF | N | FENCING, TYPE R, 7.1-8.0, W/FULL ENCLOS |
| 0550 10344 | 2 | \$30.35 | \$91,313.80 | 3,009.000 | LF | N | FENCING, TYPE R, 7.1-8.0, W/PART ENCLOS |
| 0550 10353 | 3 | \$79.27 | \$216,162.35 | 2,727.000 | LF | N | FENCING, TYPE R, 8.1-10', W/FULL ENCLOS |
| 0550 10410 | 1 | \$80.00 | \$18,080.00 | 226.000 | LF | N | FENCING, WOOD FENCE, 0.0-5.0' |
| 0550 10420 | 2 | \$5.24 | \$4,946.25 | 944.000 | LF | N | FENCING, WOOD, 5.1-6.0' |
| 0550 10918 | 1 | \$50.00 | \$4,250.00 | 85.000 | LF | N | FENCING, SPECIAL TYP, 0.0-5.0', RESET EXI |
| 0550 10938 | 1 | \$18.00 | \$4,014.00 | 223.000 | LF | N | FENCING, SPECIAL TYPE, 6.1-7.0', RESET |
| 0550 10948 | 1 | \$20.00 | \$60.00 | 3.000 | LF | N | FENCING, SPECIAL TYPE, 7.1-8.0', RESET |
| 0550 11 11 | 1 | \$5.46 | \$89,653.20 | 16,420.000 | LF | N | FENCING ENHANCEMENTS- GALV STEEL MESH |
| 0550 11 12 | 1 | \$5.80 | \$79,895.00 | 13,775.000 | LF | N | FENCING EN- PVC COAT STEEL MESH, 0-5' |
| 0550 60112 | 2 | \$3,661.00 | \$14,644.00 | 4.000 | EA | N | FENCE GATE,TYP A, SGL, 6.1-12' OPENING |
| 0550 60124 | 1 | \$2,053.02 | \$2,053.02 | 1.000 | EA | N | FENCE GATE,TYP A, DBL, 18.1-20.' OPENING |
| 0550 60133 | 2 | \$1,725.00 | \$3,450.00 | 2.000 | EA | N | FENCE GATE,TYP A, SLIIDE/CAN, 12.1-18.' |
| 0550 60134 | 1 | \$2,200.00 | \$15,400.00 | 7.000 | EA | N | FENCE GATE,TYP A, SLIIDE/CAN, 18.1-20.' |
| 0550 60135 | 1 | \$1,850.00 | \$5,550.00 | 3.000 | EA | N | FENCE GATE,TYP A, SLIDE/CAN, 20.1-24.0' |
| 0550 60211 | 4 | \$798.34 | \$4,790.04 | 6.000 | EA | N | FENCE GATE,TYP B,SGL, 0- 6.0' OPENING |
| 0550 60212 | 1 | \$977.57 | \$2,932.71 | 3.000 | EA | N | FENCE GATE,TYP B,SGL,6.1-12.0' OPENING |
| 0550 60213 | 2 | \$1,275.00 | \$5,100.00 | 4.000 | EA | N | FENCE GATE,TYP B, SGL,12.1-18.0' OPENING |
| 0550 60214 | 1 | \$1,400.00 | \$2,800.00 | 2.000 | EA | N | FENCE GATE,TYP B,SGL,18.1-20.0' OPENING |
| 0550 60222 | 3 | \$1,900.00 | \$9,500.00 | 5.000 | EA | N | FENCE GATE,TYP B, DBL, 6.1-12.0' OPENING |
| 0550 60223 | 1 | \$1,515.00 | \$3,030.00 | 2.000 | EA | N | FENCE GATE,TYP B, DBL,12.1-18.0' OPENING |
| 0550 60224 | 2 | \$1,092.50 | \$7,647.51 | 7.000 | EA | N | FENCE GATE,TYP B, DBL,18.1-20.0' OPENING |
| 0550 60225 | 3 | \$1,146.78 | \$3,440.33 | 3.000 | EA | N | FENCE GATE,TYP B, DBL, 20.1-24' OPENING |
| 0550 60226 | 1 | \$2,000.00 | \$12,000.00 | 6.000 | EA | N | FENCE GATE,TYP B, DBL, 24-30' OPENING |
| 0550 60227 | 1 | \$3,500.00 | \$49,000.00 | 14.000 | EA | N | FENCE GATE,TYP B,DBL, > THAN 30' OPENING |
| 0550 60232 | 1 | \$3,500.00 | \$3,500.00 | 1.000 | EA | N | FENCE GATE,TYP B,SLIDE/CANT,6.1-12'OPEN |
| 0550 60234 | 3 | \$4,300.06 | \$17,200.24 | 4.000 | EA | N | FENCE GATE,TYP B,SLIDE/CANT,18.1-20'OPEN |
| 0550 60235 | 4 | \$3,152.72 | \$31,527.16 | 10.000 | EA | N | FENCE GATE,TYP B,SLIDE/CANT,20.1-24'OPEN |
| 0550 60236 | 1 | \$3,200.00 | \$12,800.00 | 4.000 | EA | N | FENCE GATE,TYP B,SLIDE/CANT,24.1-30'OPEN |
| 0550 60237 | 2 | \$3,922.15 | \$74,520.94 | 19.000 | EA | N | FENCE GATE,TYP B,SLI CANT, > THAN 30' |
| 0550 60400 | 1 | \$1,200.00 | \$1,200.00 | 1.000 | EA | N | FENCE GATE, RESET EXISTING |
| 0550 60412 | 1 | \$650.00 | \$1,300.00 | 2.000 | EA | N | FENCE GATE, WOOD, SINGLE, 6.1-12.0' OP |
| 0550 60424 | 1 | \$1,100.00 | \$1,100.00 | 1.000 | EA | N | FENCE GATE, WOOD, DOUBLE, 18-20 OPEN |
| 0550 60912 | 1 | \$1,950.00 | \$1,950.00 | 1.000 | EA | N | FENCE GATE,SPEC A, SGL, 6.1-12' OPENING |
| 0550 60927 | 1 | \$2,500.00 | \$2,500.00 | 1.000 | EA | N | FENCE GATE, SPE, DOUBLE, >30' OPENING |

Florida Department of Transportation
Item Average Unit Cost
From 2016/04/01 to 2017/03/31

Contract Type: CC STATEWIDE
Displaying: VALID ITEMS WITH HITS
From: 0102 1 To: 9999999

LTC item 11 - Sign

| Item | No. of Conts | Weighted Average | Total Amount | Total Quantity | Unit Meas | Obs? | Description |
|------|--------------|------------------|--------------|----------------|-----------|------|-------------|
| 0684 | 7 | 2 | \$31,421.96 | \$157,109.82 | 5.000 | EA | N |
| 0685 | 1 11 | 14 | \$6,241.27 | \$486,818.96 | 78.000 | EA | N |
| 0685 | 1 13 | 2 | \$6,066.56 | \$24,266.25 | 4.000 | EA | N |
| 0687 | 1 12 | 1 | \$25,000.00 | \$50,000.00 | 2.000 | EA | N |
| 0687 | 1 50 | 1 | \$7,520.00 | \$7,520.00 | 1.000 | EA | N |
| 0687 | 1 60 | 1 | \$1,200.00 | \$2,400.00 | 2.000 | EA | N |
| 0695 | 1 1 | 38 | \$1,470.78 | \$442,705.09 | 301.000 | EA | N |
| 0695 | 3 11 | 3 | \$5,515.00 | \$33,090.00 | 6.000 | AS | N |
| 0695 | 5 1 | 1 | \$3,100.00 | \$3,100.00 | 1.000 | EA | N |
| 0695 | 6 12 | 39 | \$1,280.31 | \$426,344.45 | 333.000 | EA | N |
| 0695 | 7131 | 3 | \$4,391.64 | \$30,741.50 | 7.000 | EA | N |
| 0695 | 7132 | 17 | \$4,181.59 | \$137,992.32 | 33.000 | EA | N |
| 0695 | 7141 | 7 | \$5,279.36 | \$58,072.99 | 11.000 | EA | N |
| 0695 | 7600 | 12 | \$401.31 | \$8,828.84 | 22.000 | EA | N |
| 0700 | 1 11 | 146 | \$349.52 | \$1,832,527.43 | 5,243.000 | AS | N |
| 0700 | 1 12 | 101 | \$1,043.36 | \$1,530,610.68 | 1,467.000 | AS | N |
| 0700 | 1 13 | 50 | \$1,391.25 | \$475,808.37 | 342.000 | AS | N |
| 0700 | 1 14 | 6 | \$2,282.00 | \$93,562.11 | 41.000 | AS | N |
| 0700 | 1 21 | 4 | \$658.33 | \$3,950.00 | 6.000 | AS | N |
| 0700 | 1 22 | 5 | \$3,194.30 | \$201,240.83 | 63.000 | AS | N |
| 0700 | 1 31 | 5 | \$2,326.39 | \$55,833.31 | 24.000 | AS | N |
| 0700 | 1 32 | 2 | \$3,733.18 | \$41,065.00 | 11.000 | AS | N |
| 0700 | 1 33 | 1 | \$1,877.82 | \$1,877.82 | 1.000 | AS | N |
| 0700 | 1 50 | 107 | \$174.69 | \$138,177.92 | 791.000 | AS | N |
| 0700 | 1 60 | 142 | \$30.72 | \$143,511.29 | 4,672.000 | AS | N |
| 0700 | 2 11 | 4 | \$3,454.00 | \$34,540.00 | 10.000 | AS | N |
| 0700 | 2 12 | 24 | \$3,157.24 | \$173,648.19 | 55.000 | AS | N |
| 0700 | 2 13 | 27 | \$3,561.07 | \$284,885.31 | 80.000 | AS | N |
| 0700 | 2 14 | 37 | \$4,446.05 | \$551,310.45 | 124.000 | AS | N |
| 0700 | 2 15 | 28 | \$6,133.56 | \$588,821.81 | 96.000 | AS | N |
| 0700 | 2 16 | 11 | \$11,571.08 | \$705,835.94 | 61.000 | AS | N |
| 0700 | 2 17 | 8 | \$14,139.51 | \$325,208.62 | 23.000 | AS | N |
| 0700 | 2 18 | 3 | \$13,343.75 | \$106,750.00 | 8.000 | AS | N |
| 0700 | 2 50 | 23 | \$3,405.20 | \$153,234.12 | 45.000 | AS | N |
| 0700 | 2 60 | 57 | \$817.16 | \$279,468.22 | 342.000 | AS | N |
| 0700 | 3101 | 27 | \$215.37 | \$50,396.58 | 234.000 | EA | N |
| 0700 | 3102 | 3 | \$283.75 | \$1,135.00 | 4.000 | EA | N |
| 0700 | 3103 | 1 | \$600.00 | \$600.00 | 1.000 | EA | N |
| 0700 | 3201 | 48 | \$520.62 | \$148,378.11 | 285.000 | EA | N |
| 0700 | 3202 | 15 | \$734.67 | \$39,672.33 | 54.000 | EA | N |

RS Means Cover Page
Cost Data: Heavy Construction
Location: Tampa, FL
Year: 2017

RSMeans data from GORDIAN®

Guide Me Welcome JoAnne Talamo 

Search Data Manage Estimates Square Foot Estimator Life Cycle Cost Cost Alerts and Trends Reference Items  ?

Cost DataHeavy Construction Type Unit Labor Type Open Shop Location TAMPA (335-336,346) Release Year 2017 Search 

Search What are you searching for? All  Search Include My Custom Data



Estimate Action Select From List

Hardee County Landfill Page 1 of 1 Lines 1 - 5 of 5

| Source | Qty | Line Number |  |  | Description | Frequency | Crew | Unit | Labor Hours | Daily Output | Extended Material | Extended Material O&P |
|-------------------------------|-----|--------------|---|---|---|-----------|--------|--------|-------------|--------------|-------------------|-----------------------|
| <input type="checkbox"/> Unit | 0 | 312323170020 | | | <input type="checkbox"/> Fill, dumped material, spread, by dozer, excludes compa | | B10B | L.C.Y. | 0.010 | 1000.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323201100 | | | <input type="checkbox"/> Cycle hauling(wait, load, travel, unload or dump & return) | | B34B | L.C.Y. | 0.070 | 108.000 | | |
| <input type="checkbox"/> Unit | 0 | 312323235040 | | | <input type="checkbox"/> Compaction, riding, vibrating roller, 4 passes, 6" lifts | | B10Y | E.C.Y. | | 1900.000 | | |
| <input type="checkbox"/> Unit | 0 | 320190194190 | | | <input type="checkbox"/> Mowing, lawn mowing, 5 gang reel, 12', with tractor & a | | B66 | M.S.F. | 0.010 | 1200.000 | | |
| <input type="checkbox"/> Unit | 0 | 334713531200 | | | <input type="checkbox"/> Pond and reservoir liners, membrane lining systems HDPE | | 3 Skwk | S.F. | 0.010 | 1600.000 | | |

Cost Estimate Report

Hardee County Landfill

Year 2017

Unit Detail Report

Prepared By: JoAnne Talamo

Jones Edmunds & Associates, Inc.

LTC item 8:
Mowing

LTC item 9:
Sodding
Liner Repair

Closure Item 2:
Placement and Spreading
Compaction
Delivery

Closure Item 4:
Delivery
Placement and Spreading

Date: 02/07/2018

| Line Number | Description | Quantity | Unit | Total Incl. O&P | Ext. Total Incl. O&P |
|--|---|----------|--------|-----------------|--------------------------------|
| Division 31 Earthwork | | | | | |
| 312323170020 | Fill, dumped material, spread, by dozer, excludes compaction | 0.00 | L.C.Y. | \$2.05 | Placement and Spreading \$0.00 |
| 312323201100 | Cycle hauling(wait, load, travel, unload or dump & return) time per cycle, excavated or borrow, loose cubic yards, 15 min load/wait/unload, 12 C.Y. truck, cycle 30 miles, 45 MPH, excludes loading equipment | 0.00 | L.C.Y. | \$10.56 | Delivery \$0.00 |
| 312323235040 | Compaction, riding, vibrating roller, 4 passes, 6" lifts | 0.00 | E.C.Y. | \$0.61 | Compaction \$0.00 |
| Division 31 Earthwork Subtotal \$0.00 | | | | | |
| Division 32 Exterior Improvements | | | | | |
| 320190194190 | Mowing, lawn mowing, 5 gang reel, 12', with tractor & attachments | 0.00 | M.S.F. | \$0.64 | Mowing \$0.00 |
| Division 32 Exterior Improvements Subtotal \$0.64/MSF x 1 MSF/1,000 SF x 43,560 SF/AC = \$27.88/AC \$0.00 | | | | | |
| Division 33 Utilities | | | | | |
| 334713531200 | Pond and reservoir liners, membrane lining systems HDPE, 100,000 S.F. or more, 60 mil thick, per S.F. | 0.00 | S.F. | \$1.19 | Liner Repair \$0.00 |
| Division 33 Utilities Subtotal \$1.19 * 9 SF/SY = \$10.71/SY \$0.00 | | | | | |

Closure Item 3:
Geocomposite



The Plastics Experts.

AGRU America, Inc.
500 Garrison Road
Georgetown, SC 29440
Phone: 1-843-546-0600

January 10, 2018

Jeremy Toms, EI
Jones Edmunds & Associates, Inc.
730 NE Waldo Road
Gainesville, FL 32641

RE: Sarasota County Central Landfill Closure – Requested Budgetary Pricing

Agru America is pleased to provide the following budget pricing for the requested geosynthetic profile(s). Budget pricing options include a 40mil LLDPE MicroSpike and Geocomposite system as Option #1 and a 50 mil LLDPE MicroDrain geomembrane and geotextile as Option #2. As discussed, ClosureTurf may work well in this application if you would want to evaluate further.

Requested Geosynthetic Closure System #1

This geosynthetic closure system includes a standard 40 mil LLDPE MicroSpike geomembrane with 8-200-8 geocomposite.

| Description | Quantity (SF) | Unit Price (\$/SF) | Total |
|--|---------------|--------------------|------------------------|
| 40 mil MicroSpike LLDPE - Material | 2,700,000 | \$ 0.30 | \$ 810,000.00 |
| 40 mil MicroSpike LLDPE - Installation | 2,700,000 | \$ 0.15 | \$ 405,000.00 |
| 8/200/8 Geocomposite - Material | 2,700,000 | \$ 0.46 | \$ 1,242,000.00 |
| 8/200/8 Geocomposite - Installation | 2,700,000 | \$ 0.13 | \$ 351,000.00 |
| Total Budget for Conventional | | | \$ 2,808,000.00 |

*Material budget pricing includes estimated freight to Sarasota, FL but no taxes. Installation budget pricing assumes non-union/non-prevailing wage rates.

*A 200 mil Geocomposite product is unlikely to meet the site specific requirements of a highly permeable cover soil typically found in FL.

Requested Geosynthetic Closure System #2

$$\$0.46 + \$0.13 = \$0.59/\text{SF} * 9 \text{ SF/SY} = \$5.31/\text{SY}$$

This geosynthetic closure system includes a standard 50 mil LLDPE MicroDrain geomembrane with 8 oz nonwoven geotextile.

| Description | Quantity (SF) | Unit Price (\$/SF) | Total |
|--|---------------|--------------------|------------------------|
| 50 mil LLDPE MicroDrain - Material | 2,700,000 | \$ 0.55 | \$ 1,485,000.00 |
| 50 mil LLDPE MicroDrain - Installation | 2,700,000 | \$ 0.18 | \$ 486,000.00 |
| Agrutex 081 Nonwoven Geotextile - Material | 2,700,000 | \$ 0.11 | \$ 297,000.00 |
| Agrutex 081 Nonwoven Geotextile - Installation | 2,700,000 | \$ 0.10 | \$ 270,000.00 |
| Total Budget for MicroDrain Option | | | \$ 2,538,000.00 |

*Material budget pricing includes estimated freight to Sarasota, FL but no taxes. Installation budget pricing assumes non-union/non-prevailing wage rates.

We would recommend performing design shear strength and transmissivity testing specific to your project needs. We can supply material samples for this testing when appropriate and answer any questions you may have. Thank you for reaching out to us and please feel free to contact me to discuss further at ceichelberger@agrumerica.com or 330.606.8970.

Sincerely,

A handwritten signature in black ink, appearing to read "Chris Eichelberger".

Chris Eichelberger
Agru America

Hardee County Landfill
Closure Design and Construction Services
Fee Estimate

| |
|--|
| Closure Item 10 - Engineering |
| Closure Item 11 - Professional Services |

| | Senior Project Engineer | Project Manager | Project Engineer | Staff Engineer/Professional | Resident Construction Representative | Technician/AutoCAD | Administrative Assistant | Total | Labor Cost | Subconsult. Cost | Other Direct Costs | Total Costs |
|-------------------------------|-------------------------|-----------------|------------------|-----------------------------|--------------------------------------|--------------------|--------------------------|-------------|-------------------|------------------|--------------------|-------------------|
| Tasks | \$ 215.00 | \$ 170.00 | \$ 170.00 | \$ 130.00 | \$ 85.00 | \$ 80.00 | \$ 80.00 | | | | | |
| Engineering Services | | | | | | | | | | | | |
| Closure Report and Permitting | 100 | 40 | 240 | 240 | 0 | 80 | 8 | 708 | \$ 107,340 | \$ - | \$ 1,000 | \$ 108,340 |
| Closure Design | 120 | 40 | 240 | 240 | 0 | 80 | 8 | 728 | \$ 111,640 | \$ - | \$ 1,000 | \$ 112,640 |
| Final Survey | 0 | 2 | 4 | 8 | 0 | 24 | 0 | 38 | \$ 3,980 | \$ 10,000 | \$ - | \$ 13,980 |
| Certification | 16 | 8 | 40 | 100 | 0 | 24 | 16 | 204 | \$ 27,800 | \$ - | \$ - | \$ 27,800 |
| Subtotal | 236 | 90 | 524 | 588 | 0 | 208 | 32 | 1678 | \$ 250,760 | \$ 10,000 | \$ 2,000 | \$ 262,760 |
| Professional Services | | | | | | | | | | | | |
| Contract Management | 20 | 80 | 40 | 16 | 0 | 0 | 8 | 164 | \$ 27,420 | \$ - | \$ 5,000 | \$ 32,420 |
| CQA | 40 | 40 | 80 | 80 | 800 | 16 | 8 | 1064 | \$ 109,320 | \$ 40,000 | \$ 20,000 | \$ 169,320 |
| Subtotal | 60 | 120 | 120 | 96 | 800 | 16 | 16 | 1228 | \$ 136,740 | \$ 40,000 | \$ 25,000 | \$ 201,740 |