Prepared for

Omni Waste

Omni Waste of Osceola County, LLC
1501 Omni Way
St. Cloud, Florida 34773

MINOR MODIFICATION APPLICATION FOR REVISED FINANCIAL ASSURANCE

PHASE 1 PARTIAL CLOSURE CONSTRUCTION

J.E.D. SOLID WASTE MANAGEMENT FACILITY
Osceola County, Florida

Prepared by

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Project Number FQ1672-03

December 2009

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ATTACHMENTS

MINOR MODIFICATION APPLICATION FOR REVISION OF FINANCIAL ASSURANCE TO ACCOUNT FOR THE PHASE 1 PARTIAL CLOSURE CONSTRUCTION J.E.D. SOLID WASTE MANAGEMNT FACILITY

1. INTRODUCTION

Geosyntec Consultants (Geosyntec) has prepared this minor modification application to provide the revised closure estimate for the JED Solid Waste Management (JED) facility, located in Osceola County, Florida. The closure cost estimate for the JED facility is being updated to exclude the portion of the landfill closure covered by the Phase 1 partial closure construction project. The Phase 1 partial closure construction was completed on 23 November 2009.

The JED facility is owned and operated by Omni Waste of Osceola County, LLC (Omni), which is a wholly owned subsidiary of Waste Services, Inc. (WSI). This minor modification application is being submitted to the Florida Department of Environmental Protection (FDEP), Central District on behalf of Omni.

This minor modification application is being submitted to comply with Permit No. SO49-0199726-010. This permit was issued by FDEP on 17 February 2009 authorizing the construction of Phase 1 partial closure based on a minor modification application dated 25 November 2008 and response to request for additional information (RAI #1) dated 18 December 2008. Attachment 1 includes the FDEP Form 62-701.900(1), Application for a Permit to Construct, Operate, Modify or Close a Solid Waste Management Facility, which has been completed for this minor modification for revised financial assurance.

2. PROJECT BACKGROUND

The current 5-year construction and operation permit authorizes the development of Phases 1 through 3 of the JED facility. Phase 1 consists of four cells, Cells 1 through 4, and has a footprint of approximately 53 acres. Phase 2 consists of three cells, Cells 5 through 7, and has a footprint of approximately 36 acres. To date, Cells 1 through 6 have been constructed.

Since each of the remaining cells (Cells 7 through 10) in Phases 2 and 3 will be constructed at different times, the financial assurance requirement for each new cell will be provided to FDEP as a minor modification with the submittal of each Cell certification report. Annual financial assurance updates will consider only the cells containing waste during the period covered by the financial assurance. The current financial assurance, approved by FDEP for the JED facility includes closure and long-term care costs for Cells 1 through 6.

The financial assurance cost estimates included in this minor modification application are based on the JED vertical expansion solid waste and environmental resource permits (ERP), and Phase 1, Sequence 1-3 GCCS construction drawings.

3. FINANCIAL ASSURANCE COST ESTIMATE FOR PHASE 1 PARTIAL CLOSURE

This minor modification application is being submitted to update the financial assurance cost estimate for the JED facility to exclude the landfill area closed as part of the Phase 1 partial closure project. The unit prices for the closure of the JED facility are based on the unit prices provided in the successful bids for the Phase 1 partial closure project completed in November 2009 and the Phase 1, Sequence 1 and 2 Gas Collection and Control System (GCCS) project completed in January 2009. Additionally, closure costs for the Waste Tire Storage and Processing and Auto Shredder Residual Recycling operations have been included. These operations were proposed for the JED facility based on a minor permit modification submitted to FDEP on December 20, 2009. FDEP Form 62-701.900(28), Financial Assurance Cost Estimate Form, with notes and calculations is included as Attachment 2. It is noted that the financial assurance cost estimate presented in Attachment 2 includes only revised closure costs. Since the entire facility has not received final closure, the long-term care costs have not been adjusted.

The current approved closure and long-term care costs include six cells (Cells 1 through 6). This minor modification application updates the current closure cost estimate (Cells 1 through 6) for the JED facility to exclude the Phase 1 area which received final closure.

The closure and long-term care cost estimates for Cells 1 through 6, at the JED facility are presented in the table below.

Identification	Closure Cost Estimate	Long-Term Care Cost Estimate	Financial Assurance Cost Estimate
Current Approved Closure Cost Estimate (Cells 1-6)	$6,467,502.27	$6,536,404.23	**$13,003,906.50**
Revised Closure Cost Estimate (Cells 1-6)	$4,722,141.72	$6,536,404.23	**$11,258,545.95**

Omni will provide the FDEP with an insurance certificate for the revised financial assurance cost estimate of $11,258,545.96 upon approval of this revised closure cost estimate.

ATTACHMENT 1

FDEP FORM 62-701.900(1)

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

DEP Form # 62-701.900(1)
Form Title Solid Waste Management Facility Permit
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION

APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE A SOLID WASTE MANAGEMENT FACILITY

APPLICATION INSTRUCTIONS AND FORMS

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

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

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

INSTRUCTIONS TO APPLY FOR A SOLID WASTE MANAGEMENT FACILITY PERMIT

I. General

Solid Waste Management Facilities shall be permitted pursuant to Section 403.707, Florida Statutes,(FS) and in accordance with Florida Administrative Code (FAC) Chapter 62-701. A minimum of four copies of the application shall be submitted to the Department's District Office having jurisdiction over the facility. The appropriate fee in accordance with Rule 62-701.315, FAC, shall be submitted with the application by check made payable to the Department of Environmental Protection (DEP).

Complete appropriate sections for the type of facility for which application is made. Entries shall be typed or printed in ink. All blanks shall be filled in or marked "not applicable" or "no substantial change". Information provided in support of the application shall be marked "submitted" and the location of this information in the application package indicated. The application shall include all information, drawings, and reports necessary to evaluate the facility. Information required to complete the application is listed on the attached pages of this form.

II. Application Parts Required for Construction and Operation Permits

A. Landfills and Ash Monofills - Submit parts A,B, D through T
B. Asbestos Monofills - Submit parts A,B,D,E,F,G,J,L,N, P through S, and T
C. Industrial Solid Waste Facilities - Submit parts A,B, D through T
D. Non-Disposal Facilities - Submit parts A,C,D,E,J,N,S and T

NOTE: Portions of some parts may not be applicable.

NOTE: For facilities that have been satisfactorily constructed in accordance with their construction permit, the information required for A,B,C and D type facilities does not have to be resubmitted for an operation permit if the information has not substantially changed during the construction period. The appropriate portion of the form should be marked "no substantial change".

III. Application Parts Required for Closure Permits

A. Landfills and Ash Monofills - Submit parts A,B,M, O through T
B. Asbestos Monofills - Submit parts A,B,N, P through T
C. Industrial Solid Waste Facilities - Submit parts A,B, M through T
D. Non-Disposal Facilities - Submit parts A,C,N,S and T

NOTE: Portions of some parts may not be applicable.

IV. Permit Renewals

The above information shall be submitted at time of permit renewal in support of the new permit. However, facility information that was submitted to the Department to support the expiring permit, and which is still valid, does not need to be re-submitted for permit renewal. Portions of the application not re-submitted shall be marked "no substantial change" on the application form.

V. Application Codes

S	-	Submitted
LOCATION	-	Physical location of information in application
N/A	-	Not Applicable
N/C	-	No Substantial Change

VI. LISTING OF APPLICATION PARTS

PART A: GENERAL INFORMATION

PART B: DISPOSAL FACILITY GENERAL INFORMATION

PART C: NON-DISPOSAL FACILITY GENERAL INFORMATION

PART D: PROHIBITIONS

PART E: SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL

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PART O: GAS MANAGEMENT SYSTEM REQUIREMENTS

PART P: LANDFILL CLOSURE REQUIREMENTS

PART Q: CLOSURE PROCEDURES

PART R: LONG TERM CARE REQUIREMENTS

PART S: FINANCIAL RESPONSIBILITY REQUIREMENTS

PART T: CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

STATE OF FLORIDA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
APPLICATION FOR A PERMIT TO CONSTRUCT, OPERATE, MODIFY OR CLOSE
A SOLID WASTE MANAGEMENT FACILITY

Please Type or Print

A. GENERAL INFORMATION

1. Type of facility (check all that apply):

[✓] Disposal
- [✓] Class I Landfill
- [ ] Class II Landfill
- [ ] Class III Landfill
- [ ] Other Describe: _____
- [ ] Ash Monofill
- [ ] Asbestos Monofill
- [ ] Industrial Solid Waste

[ ] Non-Disposal
- [ ] Incinerator For Non-biomedical Waste
- [ ] Waste to Energy Without Power Plant Certification
- [ ] Other Describe: _____

NOTE: Waste Processing Facilities should apply on Form 62-701.900(4), FAC; Land Clearing Disposal Facilities should notify on Form 62-701.900(3), FAC; Compost Facilities should apply on Form 62-701.900(10), FAC; and C&D Disposal Facilities should apply on Form 62-701.900(6), FAC

2. Type of application:
- [ ] Construction
- [✓] Operation
- [ ] Construction/Operation
- [ ] Closure

3. Classification of application:
- [ ] New
- [ ] Renewal
- [ ] Substantial Modification
- [ ] Intermediate Modification
- [✓] Minor Modification

4. Facility name: **J.E.D. Solid Waste Management Facility**

5. DEP ID number: **89544 (WACS)** County: **Osceola**

6. Facility location (main entrance): **1501 Omni Way**
St. Cloud, FL 34773

7. Location coordinates:
Section: 11, 13, 14, 17 & 18 Township: **28S** Range: **32E & 33E**

Latitude: **28** ° **03** ' **32** " Longitude: **81** ° **05** ' **46** "

8. Applicant name (operating authority): Omni Waste of Osceola County, LLC (Omni)

Mailing address: 1501 Omni Way, St. Cloud, FL 34773
Street or P.O. Box City State Zip

Contact person: Mike Kaiser Telephone: (904) 673-0446

Title: Vice President

mkaiser@wsii.us
E-Mail address (if available)

9. Authorized agent/Consultant: Geosyntec Consultants

Mailing address: 14055 Riveredge Dr., Suite 300, Tampa, FL 33637
Street or P.O. Box City State Zip

Contact person: Craig R. Browne, P.E. Telephone: (813) 558-0990

Title: Project Engineer

cbrowne@geosyntec.com
E-Mail address (if available)

10. Landowner(if different than applicant): N/A

Mailing address: _____
Street or P.O. Box City State Zip

Contact person: _____ Telephone: (___) _____

_____
E-Mail address (if available)

11. Cities, towns and areas to be served: Osceola County and other Counties (see Section 2.7.1 of 2006 SW Renewal Permit Application)

12. Population to be served:

Current: ~5.8 M Five-Year Projection: _____

13. Date site will be ready to be inspected for completion: N/A

14. Expected life of the facility: N/A years

15. Estimated costs:

Total Construction: $ N/A Closing Costs: $ 4.8 M

16. Anticipated construction starting and completion dates:

From: N/A To: N/A

17. Expected volume or weight of waste to be received:

_____ yds^3/day 6000 tons/day _____ gallons/day

B. DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of disposal facility design and operations planned under this application:

This minor modification application is being submitted to update the financial assurance for the JED facility to reflect the partial closure of Phase 1 (Cells 1 through 4).

2. Facility site supervisor: **Matt Orr**

Title: **Site Manager** Telephone: (**407**) **891-3720**

morr@wasteservicesinc.com
E-Mail address (if available)

3. Disposal area: Total **264** acres; Used **76** acres; Available **188** acres.

4. Weighing scales used: [✓] Yes [ ] No

5. Security to prevent unauthorized use: [✓] Yes [ ] No

6. Charge for waste received: _____ $/yds^3 **30-40** $/ton

7. Surrounding land use, zoning:

[ ] Residential
[✓] Agricultural
[ ] Commercial
[ ] Industrial
[ ] None
[ ] Other Describe: _____

8. Types of waste received:

[✓] Residential
[✓] Commercial
[ ] Incinerator/WTE ash
[✓] Treated biomedical
[✓] Water treatment sludge
[ ] Air treatment sludge
[ ] Agricultural
[✓] Asbestos
[ ] Other Describe: _____
[✓] C & D debris
[✓] Shredded/cut tires
[ ] Yard trash
[ ] Septic tank
[ ] Industrial
[✓] Industrial sludge
[✓] Domestic sludge

9. Salvaging permitted: [ ] Yes [✓] No Unless volume of recyclable goods is sufficient

10. Attendant: [ ] Yes [ ] No Trained operator: [✓] Yes [ ] No for separatio

11. Spotters: Yes [✓] No [ ] Number of spotters used: __Min. 1 of per workface__

12. Site located in: [✓] Floodplain [ ] Wetlands [ ] Other _____

13. Property recorded as a Disposal Site in County Land Records: [✓] Yes [ ] No

14. Days of operation: **Monday thru Saturday**

15. Hours of operation: **Mon-Fri: 6am to 5pm and Sat: 6am to 2pm**

16. Days Working Face covered: **Each working day**

17. Elevation of water table: 79 Ft. (NGVD 1929)

18. Number of monitoring wells: 63

19. Number of surface monitoring points: 2

20. Gas controls used: [✓] Yes [ ] No Type controls: [✓] Active [ ] Passive

Gas flaring: [✓] Yes [ ] No Gas recovery: [ ] Yes [✓] No

21. Landfill unit liner type:

[ ] Natural soils
[ ] Single clay liner
[ ] Single geomembrane
[ ] Single composite
[ ] Slurry wall
[ ] Other Describe: **Additional GCL below primary geomembrane in the sump**

[ ] Double geomembrane
[ ] Geomembrane & composite
[✓] Double composite (for Cells 1 through 4)
[ ] None

22. Leachate collection method:

[✓] Collection pipes
[✓] Geonets (geocomposite)
[ ] Well points
[ ] Perimeter ditch
[ ] Other Describe:

[✓] Sand layer
[ ] Gravel layer
[ ] Interceptor trench
[ ] None

23. Leachate storage method:

[ ] Tanks
[✓] Surface impoundments (with flexible storage containers)
[ ] Other Describe:

24. Leachate treatment method:

[ ] Oxidation
[ ] Secondary
[ ] Advanced
[✓] None
[ ] Other

[ ] Chemical treatment
[ ] Settling

25. Leachate disposal method:

[✓] Recirculated
[✓] Transported to WWTP
[ ] Injection well
[✓] Evaporation
[ ] Other _____

[ ] Pumped to WWTP
[ ] Discharged to surface water
[ ] Percolation ponds

26. For leachate discharged to surface waters:

Name and Class of receiving water: N/A

27. Storm Water:

Collected: [✓] Yes [ ] No

Type of treatment: Dry and wet retention for landfill and dry retention for acess road

Name and Class of receiving water: Bull Creek, Class III

28. Environmental Resources Permit (ERP) number or status:

Current ERP Numbers are ERP49-0199752-001-EI (Phase 1 Individual), ERP49-0199752-002-EI (Conceptual), ERP-49-0199752-003 (Phase 2 Individual), and ERP49-0199752-004-EM (Phase 3 Individual)

C. NON-DISPOSAL FACILITY GENERAL INFORMATION

1. Provide brief description of the non-disposal facility design and operations planned under this application:

_____

_____

_____

_____

2. Facility site supervisor: _____

Title: _____ Telephone: (___)_____

_____
E-Mail address (if available)

3. Site area: Facility _____ acres; Property _____ acres

4. Security to prevent unauthorized use: [ ] Yes [ ] No

5. Site located in: [ ] Floodplain [ ] Wetlands [ ] Other _____

6. Days of operation: _____

7. Hours of operation: _____

8. Number of operating staff: _____

9. Expected useful life: _____ Years

10. Weighing scales used: [ ] Yes [ ] No

11. Normal processing rate: _____ yd^3/day _____ tons/day _____ gal/day

12. Maximum processing rate: _____ yd^3/day _____ tons/day _____ gal/day

13. Charge for waste received: _____

14. Storm Water Collected: [ ] Yes [ ] No

Type of treatment: _____

Name and Class of receiving water: _____

15. Environmental Resources Permit (ERP) number or status: _____

_____

16. Final residue produced:

_____ % of normal processing rate _____ % of maximum processing rate

_____ Tons/day _____ Tons/day

Disposed of at:

Facility name: _____ County: _____

17. Estimated operating costs: $ _____

Total cost/ton: $ _____ Net cost/ton: $ _____

18. Provide a site plan, at a scale not greater than 200 feet to the inch, which shows the facility location and identifies the proposed waste and final residue storage areas, total acreage of the site, and any other features which are relevant to the prohibitions or location restrictions in Rule 62-701.300, FAC, such as water bodies or wetlands on or within 200 feet of the site, and potable water wells on or within 500 feet of the site.

19. Provide a description of how the waste and final residue will be managed to not be expected to cause violations of the Department's ground water, surface water or air standards or criteria

20. Provide an estimate of the maximum amount of waste and final residue that will be store on-site.

21. Provide a detailed description of the technology use at the facility and the functions of all processing equipment that will be utilized. The descriptions shall explain the flow of waste and residue through all the proposed unit operations and shall include: (1) regular facility operations as they are expected to occur; (2) procedures for start up operations, and scheduled and unscheduled shut down operations; (3) potential safety hazards and control methods, including fire detection and control; (4) a description of any expected air emissions and wastewater discharges from the facility which may be potential pollution sources; (5) a description and usage rate of any chemical or biological additives that will be used in the process; and (6) process flow diagrams for the facility operations.

22. Provide a description of the loading, unloading and processing areas.

23. Provide a description of the leachate control system that will be used to prevent discharge of leachate to the environment and mixing of leachate with stormwater. Note: Ground water monitoring may be required for the facility depending on the method of leachate control used.

24. Provide an operation plan for the facility which includes: (1) a description of general facility operations, the number of personnel responsible for the operations including their respective job descriptions, and the types of equipment that will be used at the facility; (2) procedures to ensure any unauthorized wastes received at the site will be properly managed; (3) a contingency plan to cover operation interruptions and emergencies such as fires, explosions, or natural disasters; (4) procedures to ensure operational records needed for the facility will be adequately prepared and maintained; and (5) procedures to ensure that the wastes and final residue will be managed to not be expected to cause pollution.

25. Provide a closure plan that describes the procedures that will be implemented when the facility closes including: (1) estimated time to complete closure; (2) procedures for removing and properly managing or disposing of all wastes and final residues; (3) notification of the Department upon ceasing operations and completion of final closure.

D. **PROHIBITIONS** (62-701.300, FAC)

S	LOCATION	N/A	N/C		
		X			
__	_____	___	___	1.	Provide documentation that each of the siting criteria will be satisfied for the facility; (62-701.300(2), FAC)
__	_____	X	___	2.	If the facility qualifies for any of the exemptions contained in Rules 62-701.300(12) through (16), FAC, then document this qualification(s).
__	_____	X	___	3.	Provide documentation that the facility will be in compliance with the burning restrictions; (62-701.300(3), FAC)
__	_____	X	___	4.	Provide documentation that the facility will be in compliance with the hazardous waste restrictions; (62-701.300(4), FAC)
__	_____	X	___	5.	Provide documentation that the facility will be in compliance with the PCB disposal restrictions; (62-701.300(5), FAC)
__	_____	X	___	6.	Provide documentation that the facility will be in compliance with the biomedical waste restrictions; (62-701.300(6), FAC)
__	_____	X	___	7.	Provide documentation that the facility will be in compliance with the Class I surface water restrictions; (62-701.300(7), FAC)
__	_____	X	___	8.	Provide documentation that the facility will be in compliance with the special waste for landfills restrictions; (62-701.300(8), FAC)
__	_____	X	___	9.	Provide documentation that the facility will be in compliance with the special waste for waste-to-energy facilities restrictions; (62-701.300(9), FAC)
__	_____	X	___	10.	Provide documentation that the facility will be in compliance with the liquid restrictions; (62-701.300(10), FAC)
__	_____	X	___	11.	Provide documentation that the facility will be in compliance with the used oil restrictions; (62-701.300(11), FAC)

E. SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL (62-701.320, FAC)

S	LOCATION	N/A	N/C		
___	_____	X	___	1.	Four copies, at minimum, of the completed application form, all supporting data and reports; (62-701.320(5)(a),FAC)
___	_____	X	___	2.	Engineering and/or professional certification (signature, date and seal) provided on the applications and all engineering plans, reports and supporting information for the application; (62-701.320(6),FAC)
___	_____	X	___	3.	A letter of transmittal to the Department; (62-701.320(7)(a),FAC)
___	_____	X	___	4.	A completed application form dated and signed by the applicant; (62-701.320(7)(b),FAC)
___	_____	X	___	5.	Permit fee specified in Rule 62-701.315, FAC in check or money order, payable to the Department; (62-701.320(7)(c),FAC)
___	_____	X	___	6.	An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 1/2 inch by 11 inch consecutively numbered pages, a table of contents or index, the body of the report and all appendices including an operation plan, contingency plan, illustrative charts and graphs, records or logs of tests and investigations, engineering calculations; (62-701.320(7)(d),FAC)
___	_____	X	___	7.	Operation Plan and Closure Plan; (62-701.320(7)(e)1,FAC)
___	_____	X	___	8.	Contingency Plan; (62-701.320(7)(e)2,FAC)
				9.	Plans or drawings for the solid waste management facilities in appropriate format (including sheet size restrictions, cover sheet, legends, north arrow, horizontal and vertical scales, elevations referenced to NGVD 1929) showing; (62-702.320(7)(f),FAC)
___	_____	X	___		a. A regional map or plan with the project location;
___	_____	X	___		b. A vicinity map or aerial photograph no more than 1 year old;
___	_____	X	___		c. A site plan showing all property boundaries certified by a registered Florida land surveyor;

S	LOCATION	N/A	N/C	PART E CONTINUED
___	_____	X	___	d. Other necessary details to support the engineering report.
___	_____	X	___	10. Documentation that the applicant either owns the property or has legal authority from the property owner to use the site; (62-701.320(7)(g),FAC)
___	_____	X	___	11. For facilities owned or operated by a county, provide a description of how, if any, the facilities covered in this application will contribute to the county's achievement of the waste reduction and recycling goals contained in Section 403.706,FS; (62-701.320(7)(h),FAC)
___	_____	X	___	12. Provide a history and description of any enforcement actions taken by the Department against the applicant for violations of applicable statutes, rules, orders or permit conditions relating to the operation of any solid waste management facility in this state; (62-701.320(7)(i),FAC)
___	_____	X	___	13. Proof of publication in a newspaper of general circulation of notice of application for a permit to construct or substantially modify a solid waste management facility; (62-702.320(8),FAC)
___	_____	X	___	14. Provide a description of how the requirements for airport safety will be achieved including proof of required notices if applicable. If exempt, explain how the exemption applies; (62-701.320(13),FAC)
___	_____	X	___	15. Explain how the operator training requirements will be satisfied for the facility; (62-701.320(15), FAC)

F. LANDFILL PERMIT REQUIREMENTS (62-701.330, FAC)

S	LOCATION	N/A	N/C		
___	_____	X	___	1.	Vicinity map or aerial photograph no more than 1 year old and of appropriate scale showing land use and local zoning within one mile of the landfill and of sufficient scale to show all homes or other structures, water bodies, and roads other significant features of the vicinity. All significant features shall be labeled; (62-701.330(3)(a),FAC)
___	_____	X	___	2.	Vicinity map or aerial photograph no more than 1 year old showing all airports that are located within five miles of the proposed landfill; (62-701.330(3)(b),FAC)
___	_____	X	___	3.	Plot plan with a scale not greater than 200 feet to the inch showing; (62-701.330(3)(c),FAC)
___	_____	X	___		a. Dimensions;
___	_____	X	___		b. Locations of proposed and existing water quality monitoring wells;
___	_____	X	___		c. Locations of soil borings;
___	_____	X	___		d. Proposed plan of trenching or disposal areas;
___	_____	X	___		e. Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets;
___	_____	X	___		f. Any previously filled waste disposal areas;
___	_____	X	___		g. Fencing or other measures to restrict access.
				4.	Topographic maps with a scale not greater than 200 feet to the inch with 5-foot contour intervals showing; (62-701.330(3)(d),FAC):
___	_____	X	___		a. Proposed fill areas;
___	_____	X	___		b. Borrow areas;
___	_____	X	___		c. Access roads;
___	_____	X	___		d. Grades required for proper drainage;
___	_____	X	___		e. Cross sections of lifts;

S	LOCATION	N/A	N/C	PART F CONTINUED
___	_____	X	___	f. Special drainage devices if necessary;
___	_____	X	___	g. Fencing;
___	_____	X	___	h. Equipment facilities.
				5. A report on the landfill describing the following; (62-701.330(3)(e),FAC)
___	_____	X	___	a. The current and projected population and area to be served by the proposed site;
___	_____	X	___	b. The anticipated type, annual quantity, and source of solid waste, expressed in tons;
___	_____	X	___	c. The anticipated facility life;
___	_____	X	___	d. The source and type of cover material used for the landfill.
___	_____	X	___	6. Provide evidence that an approved laboratory shall conduct water quality monitoring for the facility in accordance with Chapter 62-160,FAC; (62-701.330(3)(h),FAC)
X	Attachment 2	___	___	7. Provide a statement of how the applicant will demonstrate financial responsibility for the closing and long-term care of the landfill; (62-701.330(3)(i),FAC)

G. GENERAL CRITERIA FOR LANDFILLS (62-701.340,FAC)

___	_____	X	___	1. Describe (and show on a Federal Insurance Administration flood map, if available) how the landfill or solid waste disposal unit shall not be located in the 100-year floodplain where it will restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain unless compensating storage is provided, or result in a washout of solid waste; (62-701.340(4)(b),FAC)
___	_____	X	___	2. Describe how the minimum horizontal separation between waste deposits in the landfill and the landfill property boundary shall be 100 feet, measured from the toe of the proposed final cover slope; (62-701.340(4)(c),FAC)
___	_____	X	___	3. Describe what methods shall be taken to screen the landfill from public view where such screening can practically be provided; (62-701.340(4)(d),FAC)

H. LANDFILL CONSTRUCTION REQUIREMENTS (62-701.400,FAC)

S	LOCATION	N/A	N/C	
___	_____	X	___	1. Describe how the landfill shall be designed so that solid waste disposal units will be constructed and closed at planned intervals throughout the design period of the landfill; (62-701.400(2),FAC)
				2. Landfill liner requirements; (62-701.400(3),FAC)
				a. General construction requirements; (62-701.400(3)(a),FAC):
___	_____	X	___	(1) Provide test information and documentation to ensure the liner will be constructed of materials that have appropriate physical, chemical, and mechanical properties to prevent failure;
___	_____	X	___	(2) Document foundation is adequate to prevent liner failure;
___	_____	X	___	(3) Constructed so bottom liner will not be adversely impacted by fluctuations of the ground water;
___	_____	X	___	(4) Designed to resist hydrostatic uplift if bottom liner located below seasonal high ground water table;
___	_____	X	___	(5) Installed to cover all surrounding earth which could come into contact with the waste or leachate.
				b. Composite liners; (62-701.400(3)(b),FAC)
___	_____	X	___	(1) Upper geomembrane thickness and properties;
___	_____	X	___	(2) Design leachate head for primary LCRS including leachate recirculation if appropriate;
___	_____	X	___	(3) Design thickness in accordance with Table A and number of lifts planned for lower soil component.

S	LOCATION	N/A	N/C	PART H CONTINUED
				c. Double liners; (62-701.400(3)(c),FAC)
___	_____	X	___	(1) Upper and lower geomembrane thicknesses and properties;
___	_____	X	___	(2) Design leachate head for primary LCRS to limit the head to one foot above the liner;
___	_____	X	___	(3) Lower geomembrane sub-base design;
___	_____	X	___	(4) Leak detection and secondary leachate collection system minimum design criteria ($k \geq 10$ cm/sec, head on lower liner ≤ 1 inch, head not to exceed thickness of drainage layer);
				d. Standards for geosynthetic components; (62-701.400(3)(d),FAC)
___	_____	X	___	(1) Field seam test methods to ensure all field seams are at least 90 percent of the yield strength for the lining material;
___	_____	X	___	(2) Geomembranes to be used shall pass a continuous spark test by the manufacturer;
___	_____	X	___	(3) Design of 24-inch-thick protective layer above upper geomembrane liner;
___	_____	X	___	(4) Describe operational plans to protect the liner and leachate collection system when placing the first layer of waste above 24-inch-thick protective layer.
___	_____	X	___	(5) HDPE geomembranes, if used, meet the specifications in GRI GM13;
___	_____	X	___	(6) PVC geomembranes, if used, meet the specifications in PGI 1197;
___	_____	X	___	(7) Interface shear strength testing results of the actual components which will be used in the liner system;
___	_____	X	___	(8) Transmissivity testing results of geonets if they are used in the liner system;
___	_____	X	___	(9) Hydraulic conductivity testing results of geosynthetic clay liners if they are used in the liner system;

S	LOCATION	N/A	N/C	PART H CONTINUED
				e. Geosynthetic specification requirements; (62-701.400(3)(e),FAC)
___	_____	X	___	(1) Definition and qualifications of the designer, manufacturer, installer, QA consultant and laboratory, and QA program;
___	_____	X	___	(2) Material specifications for geomembranes, geocomposites, geotextiles, geogrids, and geonets;
___	_____	X	___	(3) Manufacturing and fabrication specifications including geomembrane raw material and roll QA, fabrication personnel qualifications, seaming equipment and procedures, overlaps, trial seams, destructive and nondestructive seam testing, seam testing location, frequency, procedure, sample size and geomembrane repairs;
___	_____	X	___	(4) Geomembrane installation specifications including earthwork, conformance testing, geomembrane placement, installation personnel qualifications, field seaming and testing, overlapping and repairs, materials in contact with geomembrane and procedures for lining system acceptance;
___	_____	X	___	(5) Geotextile and geogrid specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil materials and any overlying materials;
___	_____	X	___	(6) Geonet and geocomposite specifications including handling and placement, conformance testing, stacking and joining, repair, and placement of soil materials and any overlying materials;
	_____	X	___	(7) Geosynthetic clay liner specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil material and any overlying materials;
				f. Standards for soil components (62-710.400(3)(f),FAC):
___	_____	X	___	(1) Description of construction procedures including overexcavation and backfilling to preclude structural inconsistencies and procedures for placing and compacting soil component in layers;

S	LOCATION	N/A	N/C	PART H CONTINUED
___	_____	X	___	(2) Demonstration of compatibility of the soil component with actual or simulated leachate in accordance with EPA Test Method 9100 or an equivalent test method;
___	_____	X	___	(3) Procedures for testing in-situ soils to demonstrate they meet the specifications for soil liners;
				(4) Specifications for soil component of liner including at a minimum:
___	_____	X	___	(a) Allowable particle size distribution, Atterberg limits, shrinkage limit;
___	_____	X	___	(b) Placement moisture and dry density criteria;
___	_____	X	___	(c) Maximum laboratory-determined saturated hydraulic conductivity using simulated leachate;
___	_____	X	___	(d) Minimum thickness of soil liner;
___	_____	X	___	(e) Lift thickness;
___	_____	X	___	(f) Surface preparation (scarification);
___	_____	X	___	(g) Type and percentage of clay mineral within the soil component;
___	_____	X	___	(5) Procedures for constructing and using a field test section to document the desired saturated hydraulic conductivity and thickness can be achieved in the field.
				3. Leachate collection and removal system (LCRS); (62-701.400(4),FAC)
				a. The primary and secondary LCRS requirements; (62-701.400(4)(a),FAC)
___	_____	X	___	(1) Constructed of materials chemically resistant to the waste and leachate;
___	_____	X	___	(2) Have sufficient mechanical properties to prevent collapse under pressure;
___	_____	X	___	(3) Have granular material or synthetic geotextile to prevent clogging;
___	_____	X	___	(4) Have method for testing and cleaning clogged pipes or contingent designs for rerouting leachate around failed areas;

S	LOCATION	N/A	N/C	PART H CONTINUED
				b. Primary LCRS requirements; (62-701.400(4)(b),FAC)
___	_____	X	___	(1) Bottom 12 inches having hydraulic conductivity $\geq$ 1 x 10^{-3} cm/sec;
___	_____	X	___	(2) Total thickness of 24 inches of material chemically resistant to the waste and leachate;
___	_____	X	___	(3) Bottom slope design to accomodate for predicted settlement;
___	_____	X	___	(4) Demonstration that synthetic drainage material, if used, is equivalent or better than granular material in chemical compatibility, flow under load and protection of geomembrane liner.
				4. Leachate recirculation; (62-701.400(5),FAC)
___	_____	X	___	a. Describe general procedures for recirculating leachate;
___	_____	X	___	b. Describe procedures for controlling leachate runoff and minimizing mixing of leachate runoff with storm water;
___	_____	X	___	c. Describe procedures for preventing perched water conditions and gas buildup;
___	_____	X	___	d. Describe alternate methods for leachate management when it cannot be recirculated due to weather or runoff conditions, surface seeps, wind-blown spray, or elevated levels of leachate head on the liner;
___	_____	X	___	e. Describe methods of gas management in accordance with Rule 62-701.530, FAC;
___	_____	X	___	f. If leachate irrigation is proposed, describe treatment methods and standards for leachate treatment prior to irrigation over final cover and provide documentation that irrigation does not contribute significantly to leachate generation.

S	LOCATION	N/A	N/C	PART H CONTINUED
				5. Leachate storage tanks and leachate surface impoundments; (62-701.400(6),FAC)
				a. Surface impoundment requirements; (62-701.400(6)(b),FAC)
___	_____	X	___	(1) Documentation that the design of the bottom liner will not be adversely impacted by fluctuations of the ground water;
___	_____	X	___	(2) Designed in segments to allow for inspection and repair as needed without interruption of service;
				(3) General design requirements;
___	_____	X	___	(a) Double liner system consisting of an upper and lower 60-mil minimum thickness geomembrane;
___	_____	X	___	(b) Leak detection and collection system with hydraulic conductivity $\geq$ 1 cm/sec;
___	_____	X	___	(c) Lower geomembrane placed on subbase $\geq$ 6 inches thick with k $\leq$ $1x10^{-5}$ cm/sec or on an approved geosynthetic clay liner with k $\leq$ $1x10^{-7}$ cm/sec;
___	_____	X	___	(d) Design calculation to predict potential leakage through the upper liner;
___	_____	X	___	(e) Daily inspection requirements and notification and corrective action requirements if leakage rates exceed that predicted by design calculations;
___	_____	X	___	(4) Description of procedures to prevent uplift, if applicable;
___	_____	X	___	(5) Design calculations to demonstrate minimum two feet of freeboard will be maintained;
___	_____	X	___	(6) Procedures for controlling disease vectors and off-site odors.

S	LOCATION	N/A	N/C	PART H CONTINUED
				b. Above-ground leachate storage tanks; (62-701.400(6)(c),FAC)
___	_____	X	___	(1) Describe tank materials of construction and ensure foundation is sufficient to support tank;
___	_____	X	___	(2) Describe procedures for cathodic protection if needed for the tank;
___	_____	X	___	(3) Describe exterior painting and interior lining of the tank to protect it from the weather and the leachate stored;
___	_____	X	___	(4) Describe secondary containment design to ensure adequate capacity will be provided and compatibility of materials of construction;
___	_____	X	___	(5) Describe design to remove and dispose of stormwater from the secondary containment system;
___	_____	X	___	(6) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling;
				(7) Inspections, corrective action and reporting requirements;
___	_____	X	___	(a) Overfill prevention system weekly;
___	_____	X	___	(b) Exposed tank exteriors weekly;
___	_____	X	___	(c) Tank interiors when tank is drained or at least every three years;
___	_____	X	___	(d) Procedures for immediate corrective action if failures detected;
___	_____	X	___	(e) Inspection reports available for department review.
				c. Underground leachate storage tanks; (62-701.400(6)(d),FAC)
___	_____	X	___	(1) Describe materials of construction;
___	_____	X	___	(2) A double-walled tank design system to be used with the following requirements;

S	LOCATION	N/A	N/C	
___	_____	X	___	(a) Interstitial space monitoring at least weekly;
___	_____	X	___	(b) Corrosion protection provided for primary tank interior and external surface of outer shell;
___	_____	X	___	(c) Interior tank coatings compatible with stored leachate;
___	_____	X	___	(d) Cathodic protection inspected weekly and repaired as needed;
___	_____	X	___	(3) Describe an overfill prevention system such as level sensors, gauges, alarms and shutoff controls to prevent overfilling and provide for weekly inspections;
___	_____	X	___	(4) Inspection reports available for department review.
___	_____	X	___	d. Schedule provided for routine maintenance of LCRS; (62-701.400(6)(e),FAC)
				6. Liner systems construction quality assurance (CQA); (62-701.400(7),FAC)
___	_____	X	___	a. Provide CQA Plan including:
___	_____	X	___	(1) Specifications and construction requirements for liner system;
___	_____	X	___	(2) Detailed description of quality control testing procedures and frequencies;
___	_____	X	___	(3) Identification of supervising professional engineer;
___	_____	X	___	(4) Identify responsibility and authority of all appropriate organizations and key personnel involved in the construction project;
___	_____	X	___	(5) State qualifications of CQA professional engineer and support personnel;
___	_____	X	___	(6) Description of CQA reporting forms and documents;

S	LOCATION	N/A	N/C	PART H CONTINUED
___	_____	X	___	b. An independent laboratory experienced in the testing of geosynthetics to perform required testing;
				7. Soil Liner CQA (62-701.400(8)FAC)
___	_____	X	___	a. Documentation that an adequate borrow source has been located with test results or description of the field exploration and laboratory testing program to define a suitable borrow source;
___	_____	X	___	b. Description of field test section construction and test methods to be implemented prior to liner installation;
___	_____	X	___	c. Description of field test methods including rejection criteria and corrective measures to insure proper liner installation.
				8. Surface water management systems; (62-701.400(9),FAC)
___	_____	X	___	a. Provide a copy of a Department permit for stormwater control or documentation that no such permit is required;
___	_____	X	___	b. Design of surface water management system to isolate surface water from waste filled areas and to control stormwater run-off;
___	_____	X	___	c. Details of stormwater control design including retention ponds, detention ponds, and drainage ways;
				9. Gas control systems; (62-701.400(10),FAC)
___	_____	X	___	a. Provide documentation that if the landfill is receiving degradable wastes, it will have a gas control system complying with the requirements of Rule 62-701.530, FAC;
		X		10. For landfills designed in ground water, provide documentation that the landfill will provide a degree of protection equivalent to landfills designed with bottom liners not in contact with ground water; (62-701.400(11),FAC)

I. HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS (62-701.410(1), FAC)

S	LOCATION	N/A	N/C		
				1.	Submit a hydrogeological investigation and site report including at least the following information:
___	_____	X	___		a. Regional and site specific geology and hydrogeology;
___	_____	X	___		b. Direction and rate of ground water and surface water flow including seasonal variations;
___	_____	X	___		c. Background quality of ground water and surface water;
___	_____	X	___		d. Any on-site hydraulic connections between aquifers;
___	_____	X	___		e. Site stratigraphy and aquifer characteristics for confining layers, semi-confining layers, and all aquifers below the landfill site that may be affected by the landfill;
___	_____	X	___		f. Description of topography, soil types and surface water drainage systems;
___	_____	X	___		g. Inventory of all public and private water wells within a one-mile radius of the landfill including, where available, well top of casing and bottom elevations, name of owner, age and usage of each well, stratigraphic unit screened, well construction technique and static water level;
___	_____	X	___		h. Identify and locate any existing contaminated areas on the site;
___	_____	X	___		i. Include a map showing the locations of all potable wells within 500 feet, and all community water suupply wells within 1000 feet, of the waste storage and disposal areas;
___	_____	X	___	2.	Report signed, sealed and dated by PE or PG.

J. GEOTECHNICAL INVESTIGATION REQUIREMENTS (62-701.410(2),FAC)

S	LOCATION	N/A	N/C		
				1.	Submit a geotechnical site investigation report defining the engineering properties of the site including at least the following:
___	_____	X	___		a. Description of subsurface conditions including soil stratigraphy and ground water table conditions;
___	_____	X	___		b. Investigate for the presence of muck, previously filled areas, soft ground, lineaments and sink holes;
___	_____	X	___		c. Estimates of average and maximum high water table across the site;
					d. Foundation analysis including:
___	_____	X	___		(1) Foundation bearing capacity analysis;
___	_____	X	___		(2) Total and differential subgrade settlement analysis;
___	_____	X	___		(3) Slope stability analysis;
___	_____	X	___		e. Description of methods used in the investigation and includes soil boring logs, laboratory results, analytical calculations, cross sections, interpretations and conclusions;
___	_____	X	___		f. An evaluation of fault areas, seismic impact zones, and unstable areas as described in 40 CFR 258.13, 40 CFR 258.14 and 40 CFR 258.15.
___	_____	X	___	2.	Report signed, sealed and dated by PE or PG.

K. VERTICAL EXPANSION OF LANDFILLS (62-701.430,FAC)

S	LOCATION	N/A	N/C		
___	_____	X	___	1.	Describe how the vertical expansion shall not cause or contribute to leachate leakage from the existing landfill or adversely affect the closure design of the existing landfill;
___	_____	X	___	2.	Describe how the vertical expansion over unlined landfills will meet the requirements of Rule 62-701.400, FAC with the exceptions of Rule 62-701.430(1)(c),FAC;
___	_____	X	___	3.	Provide foundation and settlement analysis for the vertical expansion;
___	_____	X	___	4.	Provide total settlement calculations demonstrating that the final elevations of the lining system, that gravity drainage, and that no other component of the design will be adversely affected;
___	_____	X	___	5.	Minimum stability safety factor of 1.5 for the lining system component interface stability and deep stability;
___	_____	X	___	6.	Provide documentation to show the surface water management system will not be adversely affected by the vertical expansion;
___	_____	X	___	7.	Provide gas control designs to prevent accumulation of gas under the new liner for the vertical expansion.

L. LANDFILL OPERATION REQUIREMENTS (62-701.500,FAC)

___	_____	X	___	1.	Provide documentation that landfill will have at least one trained operator during operation and at least one trained spotter at each working face; (62-701.500(1),FAC)
				2.	Provide a landfill operation plan including procedures for: (62-701.500(2), FAC)
___	_____	X	___		a. Designating responsible operating and maintenance personnel;
___	_____	X	___		b. Contingency operations for emergencies;
___	_____	X	___		c. Controlling types of waste received at the landfill;
___	_____	X	___		d. Weighing incoming waste;
___	_____	X	___		e. Vehicle traffic control and unloading;
___	_____	X	___		f. Method and sequence of filling waste;
___	_____	X	___		g. Waste compaction and application of cover;
___	_____	X	___		h. Operations of gas, leachate, and stormwater controls;
___	_____	X	___		i. Water quality monitoring.
___	_____	X	___		j. Maintaining and cleaning the leachate collection system;
___	_____	X	___	3.	Provide a description of the landfill operation record to be used at the landfill; details as to location of where various operational records will be kept (i.e. FDEP permit, engineering drawings, water quality records, etc.) (62-701.500(3),FAC)
___	_____	X	___	4.	Describe the waste records that will be compiled monthly and provided to the Department quarterly; (62-701.500(4),FAC)
___	_____	X	___	5.	Describe methods of access control; (62-701.500(5),FAC)
___	_____	X	___	6.	Describe load checking program to be implemented at the landfill to discourage disposal of unauthorized wastes at the landfill; (62-701.500(6),FAC)
				7.	Describe procedures for spreading and compacting waste at the landfill that include: (62-701.500(7),FAC)
___	_____	X	___		a. Waste layer thickness and compaction frequencies;

S	LOCATION	N/A	N/C	PART L CONTINUED
___	_____	X	___	b. Special considerations for first layer of waste placed above liner and leachate collection system;
___	_____	X	___	c. Slopes of cell working face and side grades above land surface, planned lift depths during operation;
___	_____	X	___	d. Maximum width of working face;
				e. Description of type of initial cover to be used at the facility that controls:
___	_____	X	___	(1) Disease vector breeding/animal attraction
___	_____	X	___	(2) Fires
___	_____	X	___	(3) Odors
___	_____	X	___	(4) Blowing litter
___	_____	X	___	(5) Moisture infiltration
___	_____	X	___	f. Procedures for applying initial cover including minimum cover frequencies;
___	_____	X	___	g. Procedures for applying intermediate cover;
___	_____	X	___	h. Time frames for applying final cover;
___	_____	X	___	i. Procedures for controlling scavenging and salvaging.
___	_____	X	___	j. Description of litter policing methods;
___	_____	X	___	k. Erosion control procedures.
				8. Describe operational procedures for leachate management including; (62-701.500(8),FAC)
___	_____	X	___	a. Leachate level monitoring, sampling, analysis and data results submitted to the Department;
___	_____	X	___	b. Operation and maintenance of leachate collection and removal system, and treatment as required;
___	_____	X	___	c. Procedures for managing leachate if it becomes regulated as a hazardous waste;
___	_____	X	___	d. Agreements for off-site discharge and treatment of leachate;
___	_____	X	___	e. Contingency plan for managing leachate during emergencies or equipment problems;

S	LOCATION	N/A	N/C	PART L CONTINUED
___	_____	X	___	f. Procedures for recording quantities of leachate generated in gal/day and including this in the operating record;
___	_____	X	___	g. Procedures for comparing precipitation experienced at the landfill with leachate generation rates and including this information in the operating record;
___	_____	X	___	h. Procedures for water pressure cleaning or video inspecting leachate collection systems.
___	_____	X	___	9. Describe how the landfill receiving degradable wastes shall implement a gas management system meeting the requirements of Rule 62-701.530, FAC; (62-701.500(9),FAC)
___	_____	X	___	10. Describe procedures for operating and maintaining the landfill stormwater management system to comply with the requirements of Rule 62-701.400(9); (62-701.500(10),FAC)
				11. Equipment and operation feature requirements; (62-701.500(11),FAC)
___	_____	X	___	a. Sufficient equipment for excavating, spreading, compacting and covering waste;
___	_____	X	___	b. Reserve equipment or arrangements to obtain additional equipment within 24 hours of breakdown;
___	_____	X	___	c. Communications equipment;
___	_____	X	___	d. Dust control methods;
___	_____	X	___	e. Fire protection capabilities and procedures for notifying local fire department authorities in emergencies;
___	_____	X	___	f. Litter control devices;
___	_____	X	___	g. Signs indicating operating authority, traffic flow, hours of operation, disposal restrictions.
___	_____	X	___	12. Provide a description of all-weather access road, inside perimeter road and other roads necessary for access which shall be provided at the landfill; (62-701.500(12),FAC)
				13. Additional record keeping and reporting requirements; (62-701.500(13),FAC)

S	LOCATION	N/A	N/C	PART L CONTINUED
___	_____	X	___	a. Records used for developing permit applications and supplemental information maintained for the design period of the landfill;
___	_____	X	___	b. Monitoring information, calibration and maintenance records, copies of reports required by permit maintained for at least 10 years;
___	_____	X	___	c. Maintain annual estimates of the remaining life of constructed landfills and of other permitted areas not yet constructed and submit this estimate annually to the Department;
___	_____	X	___	d. Procedures for archiving and retrieving records which are more than five year old.

M. WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS (62-701.510, FAC)

S	LOCATION	N/A	N/C	
___	_____	X	___	1. Water quality and leachate monitoring plan shall be submitted describing the proposed ground water, surface water and leachate monitoring systems and shall meet at least the following requirements;
___	_____	X	___	a. Based on the information obtained in the hydrogeological investigation and signed, dated and sealed by the PG or PE who prepared it; (62-701.510(2)(a),FAC)
___	_____	X	___	b. All sampling and analysis preformed in accordance with Chapter 62-160, FAC; (62-701.510(2)(b),FAC)
				c. Ground water monitoring requirements; (62-701.510(3),FAC)
___	_____	X	___	(1) Detection wells located downgradient from and within 50 feet of disposal units;
___	_____	X	___	(2) Downgradient compliance wells as required;
___	_____	X	___	(3) Background wells screened in all aquifers below the landfill that may be affected by the landfill;
___	_____	X	___	(4) Location information for each monitoring well;
___	_____	X	___	(5) Well spacing no greater than 500 feet apart for downgradient wells and no greater than 1500 feet apart for upgradient wells unless site specific conditions justify alternate well spacings;
___	_____	X	___	(6) Well screen locations properly selected;
___	_____	X	___	(7) Procedures for properly abandoning monitoring wells;
___	_____	X	___	(8) Detailed description of detection sensors if proposed.

S	LOCATION	N/A	N/C	PART M CONTINUED
				d. Surface water monitoring requirements; (62-701.510(4),FAC)
___	_____	X	___	(1) Location of and justification for all proposed surface water monitoring points;
___	_____	X	___	(2) Each monitoring location to be marked and its position determined by a registered Florida land surveyor;
___	_____	X	___	e. Leachate sampling locations proposed; (62-701.510(5),FAC)
				f. Initial and routine sampling frequency and requirements; (62-701.510(6),FAC)
___	_____	X	___	(1) Initial background ground water and surface water sampling and analysis requirements;
___	_____	X	___	(2) Routine leachate sampling and analysis requirements;
___	_____	X	___	(3) Routine monitoring well sampling and analysis requirements;
___	_____	X	___	(4) Routine surface water sampling and analysis requirements.
___	_____	X	___	g. Describe procedures for implementing evaluation monitoring, prevention measures and corrective action as required; (62-701.510(7),FAC)
___	_____	X	___	h. Water quality monitoring report requirements; (62-701.510(9),FAC)
___	_____	X	___	(1) Semi-annual report requirements;
___	_____	X	___	(2) Bi-annual report requirements signed, dated and sealed by PG or PE.

N. SPECIAL WASTE HANDLING REQUIREMENTS (62-701.520, FAC)

S	LOCATION	N/A	N/C		
___	_____	X	___	1.	Describe procedures for managing motor vehicles; (62-701.520(1),FAC)
___	_____	X	___	2.	Describe procedures for landfilling shredded waste; (62-701.520(2),FAC)
___	_____	X	___	3.	Describe procedures for asbestos waste disposal; (62-701.520(3),FAC)
___	_____	X	___	4.	Describe procedures for disposal or management of contaminated soil; (62-701.520(4), FAC)
___	_____	X	___	5.	Describe procedures for disposal of biological wastes; (62-701.520(5), FAC)

O. GAS MANAGEMENT SYSTEM REQUIREMENTS (62-701.530,FAC)

				1.	Provide the design for a gas management systems that will (62-701.530(1), FAC):
___	_____	X	___	a.	Be designed to prevent concentrations of combustible gases from exceeding 25% the LEL in structures and 100% the LEL at the property boundary;
___	_____	X	___	b.	Be designed for site-specific conditions;
___	_____	X	___	c.	Be designed to reduce gas pressure in the interior of the landfill;
___	_____	X	___	d.	Be designed to not interfere with the liner, leachate control system or final cover.
___	_____	X	___	2.	Provide documentation that will describe locations, construction details and procedures for monitoring gas at ambient monitoring points and with soil monitoring probes; (62-701.530(2), FAC):
___	_____	X	___	3.	Provide documentation describing how the gas remediation plan and odor remediation plan will be implemented; (62-701.530(3), FAC):
				4.	Landfill gas recovery facilities; (62-701.530(5), FAC):
___	_____	X	___	a.	Information required in Rules 62-701.320(7) and 62-701.330(3), FAC supplied;
___	_____	X	___	b.	Information required in Rule 62-701.600(4), FAC supplied where relevant and practical;
___	_____	X	___	c.	Estimate of current and expected gas generation rates and description of condensate disposal methods provided;

S	LOCATION	N/A	N/C		
					PART O CONTINUED
___	_____	X	___	d.	Description of procedures for condensate sampling, analyzing and data reporting provided;

___	_____	X	___	e. Closure plan provided describing methods to control gas after recovery facility ceases operation and any other requirements contained in Rule 62-701.400(10), FAC;
___	_____	X	___	f. Performance bond provided to cover closure costs if not already included in other landfill closure costs.

P. LANDFILL FINAL CLOSURE REQUIREMENTS (62-701.600,FAC)

1. Closure schedule requirements; (62-701.600(2),FAC)

___	_____	X	___	a. Documentation that a written notice including a schedule for closure will be provided to the Department at least one year prior to final receipt of wastes;
___	_____	X	___	b. Notice to user requirements within 120 days of final receipt of wastes;
___	_____	X	___	c. Notice to public requirements within 10 days of final receipt of wastes.

2. Closure permit general requirements; (62-701.600(3),FAC)

___	_____	X	___	a. Application submitted to Department at least 90 days prior to final receipt of wastes;
				b. Closure plan shall include the following:
___	_____	X	___	(1) Closure report;
___	_____	X	___	(2) Closure design plan;
___	_____	X	___	(3) Closure operation plan;
___	_____	X	___	(4) Closure procedures;
___	_____	X	___	(5) Plan for long term care;
X	Attachment 2		___	(6) A demonstration that proof of financial responsibility for long term care will be provided.

3. Closure report requirements; (62-701.600(4),FAC)

				a. General information requirements;
___	_____	X	___	(1) Identification of landfill;

S	LOCATION	N/A	N/C	PART P CONTINUED
___	_____	X	___	(2) Location, description and vicinity map;
___	_____	X	___	(3) Total acres of disposal areas and landfill property;
___	_____	X	___	(4) Legal property description;
___	_____	X	___	(5) History of landfill;
___	_____	X	___	(6) Identification of types of waste disposed of at the landfill.
___	_____	X	___	b. Geotechnical investigation report and water quality monitoring plan required by Rule 62-701.330(3),FAC;
___	_____	X	___	c. Land use information report indicating: identification of adjacent landowners; zoning; present land uses; and roads, highways right-of-way, or easements.
___	_____	X	___	d. Report on actual or potential gas migration at landfills containing degradable wastes which would allow migration of gas off the landfill property;
___	_____	X	___	e. Report assessing the effectiveness of the landfill design and operation including results of geotechnical investigations, surface water and storm water management, gas migration and concentrations, condition of existing cover, and nature of waste disposed of at the landfill;
				4. Closure design requirements to be included in the closure design plan: (62-701.600(5),FAC)
___	_____	X	___	a. Plan sheet showing phases of site closing;
___	_____	X	___	b. Drawings showing existing topography and proposed final grades;
___	_____	X	___	c. Provisions to close units when they reach approved design dimensions;
___	_____	X	___	d. Final elevations before settlement;
___	_____	X	___	e. Side slope design including benches, terraces, down slope drainage ways, energy dissipators and discussion of expected precipitation effects;
				f. Final cover installation plans including:
___	_____	X	___	(1) CQA plan for installing and testing final cover;

S	LOCATION	N/A	N/C	PART P CONTINUED
___	_____	X	___	(2) Schedule for installing final cover after final receipt of waste;
___	_____	X	___	(3) Description of drought-resistant species to be used in the vegetative cover;
___	_____	X	___	(4) Top gradient design to maximize runoff and minimize erosion;
___	_____	X	___	(5) Provisions for cover material to be used for final cover maintenance.
				g. Final cover design requirements:
___	_____	X	___	(1) Protective soil layer design;
___	_____	X	___	(2) Barrier soil layer design;
___	_____	X	___	(3) Erosion control vegetation;
___	_____	X	___	(4) Geomembrane barrier layer design;
__	_____	X	___	(5) Geosynthetic clay liner design if used;
__	_____	X	___	(6) Stability analysis of the cover system and the disposed waste.
___	_____	X	___	h. Proposed method of stormwater control;
___	_____	X	___	i. Proposed method of access control;
___	_____	X	___	j. Description of proposed final use of the closed landfill, if any;
__	_____	X	___	k. Description of the proposed or existing gas management system which complies with Rule 62-701.530, FAC.
				5. Closure operation plan shall include: (62-701.600(6),FAC)
___	_____	X	___	a. Detailed description of actions which will be taken to close the landfill;
___	_____	X	___	b. Time schedule for completion of closing and long term care;
___	_____	X	___	c. Describe proposed method for demonstrating financial responsibility;
___	_____	X	___	d. Indicate any additional equipment and personnel needed to complete closure.

S	LOCATION	N/A	N/C	PART P CONTINUED
___	_____	X	___	e. Development and implementation of the water quality monitoring plan required in Rule 62-701.510, FAC.
___	_____	X	___	f. Development and implementation of gas management system required in Rule 62-701.530, FAC.
___	_____	X	___	6. Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (62-701.600(7),FAC)

Q. CLOSURE PROCEDURES (62-701.610,FAC)

S	LOCATION	N/A	N/C		
___	_____	X	___	1.	Survey monuments; (62-701.610(2),FAC)
___	_____	X	___	2.	Final survey report; (62-701.610(3),FAC)
___	_____	X	___	3.	Certification of closure construction completion; (62-701.610(4),FAC)
___	_____	X	___	4.	Declaration to the public; (62-701.610(5),FAC)
___	_____	X	___	5.	Official date of closing; (62-701.610(6),FAC)
___	_____	X	___	6.	Use of closed landfill areas; (62-701.610(7),FAC)
___	_____	X	___	7.	Relocation of wastes; (62-701.610(8), FAC)

R. LONG TERM CARE REQUIREMENTS (62-701.620,FAC)

___	_____	X	___	1.	Maintaining the gas collection and monitoring system; (62-701.620(5), FAC)
___	_____	X	___	2.	Right of property access requirements; (62-701.620(6),FAC)
___	_____	X	___	3.	Successors of interest requirements; (62-701.620(7),FAC)
___	_____	X	___	4.	Requirements for replacement of monitoring devices; (62-701.620(9),FAC)
___	_____	X	___	5.	Completion of long term care signed and sealed by professional engineer (62-701.620(10), FAC).

S. FINANCIAL RESPONSIBILITY REQUIREMENTS (62-701.630,FAC)

X	Attachment 2	___	___	1.	Provide cost estimates for closing, long term care, and corrective action costs estimated by a PE for a third party performing the work, on a per unit basis, with the source of estimates indicated; (62-701.630(3)&(7), FAC).
___	_____	X	___	2.	Describe procedures for providing annual cost adjustments to the Department based on inflation and changes in the closing, long-term care, and corrective action plans; (62-701.630(4)&(8), FAC).
X	Attachment 2	___	___	3.	Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms; (62-701.630(5),(6),&(9), FAC).

T. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

1. Applicant:

The undersigned applicant or authorized representative of Omni Waste of Osceola County, LLC (Omni) is aware that statements made in this form and attached information are an application for a Minor Modification Permit from the Florida Department of Environmental Protection and certifies that the information in this application is true, correct and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to comply with the provisions of Chapter 403, Florida Statutes, and all rules and regulations of the Department. It is understood that the Permit is not transferable, and the Department will be notified prior to the sale or legal transfer of the permitted facility.

Signature of Applicant or Agent

Mike Kaiser, Vice President, WSI
Name and Title (please type)

mkaiser@wsii.us
E-Mail address (if available)

1501 Omni Way
Mailing Address

St. Cloud, Florida 34773
City, State, Zip Code

(904) 673-0446
Telephone Number

Date: 12/31/2009

Attach letter of authorization if agent is not a governmental official, owner, or corporate officer.

2. Professional Engineer registered in Florida (or Public Officer if authorized under Sections 403.707 and 403.7075, Florida Statutes):

This is to certify that the engineering features of this solid waste management facility have been designed/examined by me and found to conform to engineering principles applicable to such facilities. In my professional judgment, this facility, when properly maintained and operated, will comply with all applicable statutes of the State of Florida and rules of the Department. It is agreed that the undersigned will provide the applicant with a set of instructions of proper maintenance and operation of the facility.

Signature 12/31/09

Craig R. Browne, Project Engineer
Name and Title (please type)

68613
Florida Registration Number
(please affix seal)

14055 Riveredge Drive, Suite 300
Mailing Address

Tampa, Florida 33637
City, State, Zip Code

cbrowne@geosyntec.com
E-Mail address (if available)

(813) 558-0990
Telephone Number

Date: 12/31/09

ATTACHMENT 2

FDEP FINANCIAL ASSURANCE FORM 62-701.900(28) WITH NOTES AND CALCULATIONS

DEP Form # 62-701.900(28)
Form Title Financial Assurance Cost Estimate Form
Effective Date 05-27-01

DEP Application No. _____
(Filled by DEP)

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

FINANCIAL ASSURANCE COST ESTIMATE FORM

Date: December 2009 Date of DEP Approval: _____

I. GENERAL INFORMATION:

Facility Name: J.E.D. Solid Waste Management Facility WACS or GMSID #: 89544

Permit / Application No.: SC49-0199726-004/SO49-0199726-005 Expiration Date: 11 Jan 2012

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

Permittee: Omni Waste of Osceola County, LLC (a wholly owned subsidiary of WSI)

Mailing Address: 2893 Executive Park Drive, Suite 305 Weston, Florida 33331

Latitude: 28 03'31" Longitude: 81 05'46" or UTM: _____

Solid Waste Disposal Units Included in Estimate:

Phase / Cell	Acres	Date Unit Began Accepting Waste	Design Life of Unit From Date of Initial Receipt of Waste
Ph 1/Cell 1	7.8	Jan 2004	1 to 2 yrs
Ph 1/Cell 2	4.8	Apr 2006	1 to 2 yrs
Ph 1/Cell 3	8.3	Nov 2006	1 to 2 yrs
Ph 1/Cell 4	7.0	Sept 2005	1 to 2 yrs
Ph 2/Cell 5	11.2	Mar 2009	1 to 2 yrs
Ph 2/Cell 6	12.5	Mar 2009	1 to 2 yrs

Total Landfill Acreage included in this estimate. 51.6 acres Closure 76.7 acres Long-Term Care

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

II. TYPE OF FINANCIAL ASSURANCE DOCUMENT (Check Type)

_____ Letter of Credit*

✓ Insurance Certificate

_____ Surety Bond*

_____ Escrow Account

_____ Trust Fund Agreement

_____ Financial Test

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

Northwest District
160 Governmental Center
Pensacola, FL 32501-5794
850-595-8360

Northeast District
7825 Baymeadows Way, Ste. B200
Jacksonville, FL 32256-7590
904-448-4300

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

Southwest District
3804 Coconut Palm Dr.
Tampa, FL 33619
813-744-6100

South District
2295 Victoria Ave., Ste. 364
Fort Myers, FL 33901-3881
941-332-6975

Southeast District
400 North Congress Ave.
West Palm Beach, FL 33401
561-681-6600

III. ESTIMATE ADJUSTMENT

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

☐ **(a) Inflation Factor Adjustment**

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

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

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

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

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

Number of Years of Long Term Care Remaining: X _____

Inflation Adjusted Long-Term Care Cost Estimate: = 0.00

☑ **(b) Recalculate Estimates** (see section V)

IV. CERTIFICATION BY ENGINEER

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

Signature of Engineer

Craig Browne P.E., Project Engineer
Name & Title (please type) Geosyntec Consultants

68613 12/31/09
Florida Registration Number (affix seal) &Date

14055 Riveredge Drive Ste 300,Tampa,FL
Mailing Address

(813)558-0990
Telephone Number

Signature of Owner/Operator

Mike Kaiser, Vice President
Name & Title (please type) Waste Services, Inc.

(904) 673-0446
Telephone Number

V. RECALCULATE ESTIMATED CLOSING COST

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

**** Third Party Estimate / Quote must be provided for each item**

**** Costs must be for a third party providing all material and labor**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
1. Proposed Monitoring Wells	(Do not include wells already in existence.)			
	EA			$0.00
2. Slope and Fill (bedding layer between waste and barrier layer):				
Excavation	CY			$0.00
Placement and Spreading	CY	86,959	$1.85	$160,874.15
Compaction	CY			$0.00
Off-Site Material	CY			$0.00
Delivery	CY			$0.00
		Subtotal Slope and Fill:		**$160,874.15**
3. Cover Material (Barrier Layer):				
Cover Protective Soil	CY	130,438	$2.00	$260,876.00
Synthetics - 40 mil (textured)	SY	260,876	$2.34	$610,449.84
Synthetics - 40 mil (smooth)	SY	0	$0.00	$0.00
Synthetics - Geocomposite	SY	229,416	$3.02	$692,836.32
Synthetics - Other	SY			$0.00
		Subtotal Barrier Layer Cover:		**$1,564,162.1**
4. Vegetative Soil Cover:				
Off-Site Material	CY			$0.00
Delivery	CY			$0.00
Spread	CY	43,479	$3.00	$130,437.00
		Subtotal Top Soil Cover:		**$130,437.00**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
5. Vegetative Layer				
Sodding	SY	260,876	$1.75	$456,533.00
Hydroseeding	AC			$0.00
Fertilizer	AC			$0.00
Mulch	AC			$0.00
Other	SY			$0.00
			Subtotal Vegetative Layer:	**$456,533.00**
6. Stormwater Control System:				
Earthwork	CY	19,609	$2.00	$39,218.00
Grading	SY			$0.00
Piping	LF	4,070	$29.00	$118,030.00
Ditches	LF			$0.00
Berms	LF			$0.00
Control Structures	EA	70	$850.00	$59,500.00
Other (4-in seepage pipe)	SY	25,700	$4.10	$105,370.00
			Subtotal Stormwater Controls:	**$322,118.00**
7. Gas Controls: Active				
Wells	EA	51	$9,645.39	$491,914.89
Pipe and Fittings	LF	10,400	$19.58	$203,632.00
Monitoring Probes	EA			$0.00
NSPS/Title V requirements	LS			$0.00
			Subtotal Passive Gas Control:	**$695,546.89**

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
8. Gas Control: Active Extraction				
Traps	EA	2	$6,500.00	$13,000.00
Sump	EA			$0.00
Flare Assembly	EA			$0.00
Flame Arrestor	EA			$0.00
Mist Eliminator	EA			$0.00
Flow Meter	EA			$0.00
Blowers	EA			$0.00
Collection System	LS			$0.00
Other (Gas Flare System)	LS	1	$345,690.00	$345,690.00
			Subtotal Active Gas Extraction:	**$358,690.00**
9. Security System:				
Fencing				$0.00
Gate(s)	LS			$0.00
Sign(s)				$0.00
			Subtotal Security System:	**$0.00**
10. Engineering:				
Closure Plan report	LS			$20,000.00
Certified Engineer	LS			$0.00
NSPS/Title V Air Permit	LS			$0.00
Final Survey	LS			$64,680.00
Certification of Closure	LS			$6,000.00
				$0.00
			Subtotal Engineering:	**$90,680.00**

11. Professional Services

	Contract Management		Quality Assurance		
	Hours	LS	Hours	LS	Total
P.E. Supervisor					$0.00
On-Site Engineer					$0.00
Office Engineer					$0.00
On-Site Technician					$0.00
Other (explain) 3% of construction cost		$113,371	7% of construction cost	$264,533	$377,904.0(

DESCRIPTION	UNIT	QUANTITY	UNIT COST	TOTAL
Quality Assurance Testing	LS			$0.00

Subtotal Professional Services: **$377,904.0(**

Subtotal of 1-11 Above: **$4,156,945.20**

12. Contingency % of Total (example. enter .1 for 10%) 10%

Closing Cost Subtotal: 4,572,639.72

13. Site Specific Costs (explain)

a. Mobilization (3% of total construction cost)	$113,371.00
b. Waste Tire Processing Facility	$37,700.00
c. Auto Shredder Residual Recycling Operations	$40,000.00
t	

Subtotal Site Specific Costs: $191,071.00

TOTAL CLOSING COSTS **$4,722,141.72**

VI. ANNUAL COST FOR LONG-TERM CARE

(Check Term Length)

_____ 5 Years _____ 20 Years ✓ 30 Years _____ Other

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

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

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

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

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

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
5. Leachate Collection/Treatment Systems Maintenance				
Maintenance				
Collection Pipes	LS			$0.00
Sumps, Pumps	LS			$0.00
Lift Stations	EA			$0.00
Cleaning	LS			$0.00
Other LS				$0.00
Impoundments (Flexible Storage Bladder)				
Liner Repair	SY			$0.00
Sludge Re				$0.00
Aeration Systems				$0.00
Floating Aerators	EA			$0.00
Spray Aerators	EA			$0.00
Disposal				
Off-site (Include Transportation and Disposal)	gallon			$0.00
				$0.00

6. Leachate Collection/Treatment Systems Operation

Operation		Hours	$/Hour	Total
P.E. Supervisor	HR			$0.00
On-Site Enginee				$0.00
Office Enginee				$0.00
OnSite Technician	HR			$0.00
Materials	LS			$0.00

Subtotal Leachate Collection/Treatment System Maintenance & Operation: $0.00

7. Maintenance of Groundwater Monitoring Wells

Monitoring Wells				$0.00
Replacement				$0.00
Abandonment	EA			$0.00

Subtotal Groundwater Monitoring Well Maintenance: $0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST

8. Gas System Maintenance

Piping, Vents	LF			$0.00
Blowers	EA			$0.00
Flaring Units				$0.00
Meters, Valves				$0.00
Compressors	EA			$0.00
Flame Arrestors	EA			$0.00
Total Cost for Replacement	LS			$0.00

SubTotal Gas System: $0.00

9. Landscape

Mowing				$0.00
Fertilizer				$0.00

Subtotal Landscape Maintenance: $0.00

DESCRIPTION	UNIT	QUANTITY	UNIT COST	ANNUAL COST
10. Erosion Control & Cover Maintenance				
Sodding	SY			$0.00
Regrading				$0.00
Liner Repair				$0.00
Clay	CY			$0.00
		Subtottal Erosion Control and Cover Maintenance:		$0.00
11. Storm Water Management System Maintenance				
Conveyance Maintena				
12. Security System Maintenance				
Fences	LF			$0.00
Gate(s)				$0.00
Sign(s)				$0.00
		Subtotal Security System:		$0.00
13. Utilities	LS			$0.00
14. Administrative		Hours	$/Hour	Total
P.E. Supervisor	HR			$0.00
On-Site Engineer				$0.00
Office Engineer				$0.00
OnSite Technician	HR			$0.00
Other (explain)	LS			$0.00
		Subtotal Administrative:		$0.00
15. Contingency	% of Total			10%
	$0.00	Subtotal Contingency:		$0.00

16. Site Specific Costs (explain) UNIT COST

ANNUAL LONG-TERM CARE COST ($/Year):	$0.00
NUMBER OF YEARS OF LONG-TERM CARE	0.00
TOTAL LONG-TERM CARE COST ($)	$0.00

Written by:	Kirk Wills	Date:	December 2009	Reviewed by:	C. Browne	Date:	Dec 2009
Client:	Omni Waste of Osceola County, LLC	Project:	Financial Assurance	Project No.:	FQ1672	Phase No.:	03

FINANCIAL ASSURANCE COST ESTIMATE FOR PHASE 1 (CELLS 1-4) AND PHASE 2 (CELLS 5 & 6): NOTES AND CALCULATIONS J.E.D. SOLID WASTE MANAGEMENT FACILITY

The information provided below presents the methods and assumptions used to estimate the cost for the items listed on the FDEP Form 62-701.900(28), *Financial Assurance Cost Estimate Form*. The unit prices for closure of the J.E.D. Solid Waste Management (JED) facility are based on the unit prices provided in the successful bids for the Phase 1 Partial Closure project completed in November 2009 and the Phase 1, Sequence 1 and 2 Gas Collection and Control System (GCCS) project completed in January 2009. Side slope areas of Phase 1, Cells 1-4 were closed in November 2009. Additionally, closure costs for the Waste Tire Storage and Processing and Auto Shredder Residual Recycling operations have been included. These operations were proposed for the facility based on a minor permit modification submitted to the FDEP on December 20, 2009. The original and closed areas for each Cell are as follows:

Cell	Original Area	Area Closed	Remaining Area to be Closed
Cell 1	18	10.2	7.8
Cell 2	12	7.2	4.8
Cell 3	12	3.7	8.3
Cell 4	11	4.0	7.0
Cell 5	11.2	0	11.2
Cell 6	12.5	0	12.5

The JED vertical expansion solid waste and environmental resource permits (ERP), and Phase 1, Sequence 1-3 GCCS construction drawings were utilized for determining the closure quantities used in this closure cost estimate. The areas shown in the table above are plan areas and have not been corrected for the three horizontal to one vertical (3H:1V) side slopes. The remaining areas to be closed for Cells 1-4 have been divided into side slope and top areas. Cells 5 and 6 have been considered to contain only 3H:1V side slopes as assumed in previously approved estimates. The corrected areas are included in the

quantity calculations that follow. The bid documents for the construction of Phase 1 partial closure and installation of the Phase 1, Sequence 1 & 2 GCCS are included in Attachment 2-1. The section numbers noted below correspond to the item numbers on the FDEP form. Since the entire facility has not received final closure, the long term care costs have not been adjusted.

I. GENERAL INFORMATION

The financial assurance cost estimate presented on the FDEP form provides for the closure costs for the remainder of the Phase 1, Cells 1-4 areas (upper slopes and top), Cell 5, and Cell 6 of the Phase 2 development area at the JED facility.

V. RECALCULATE ESTIMATED CLOSING COST

1. Monitoring Wells

The groundwater monitoring well system for Phases 1 through 3 (Cells 1 through 10) has already been completed. Therefore, no costs have been included as part of this financial assurance revision.

2. Slope and Fill (Intermediate Cover)

On-site soils will be used for intermediate cover. The total estimated cubic yardage is 86,959 yd^3 for the 1-ft thick intermediate cover layer over the waste surface. The cost per cubic yard (yd^3) includes excavation, hauling, placement, spreading, grading, and compaction. The estimated cost for slope and fill material is as follows:

For Phase 1 (Cells 1-4), the top deck area covers 6.5 acres and 3H:1V side slope area of 21.4 acres. Cell 5 and Cell 6 have been considered to have only 3H:1V side slopes. To account for the additional area attributed to the 3H:1V side slopes the plan areas are multiplied by 1.05. Therefore, for Phase 1, 21.4 acres x 1.05 = 22.5 acres; for Cell 5, 11.2 acres x 1.05 = 11.8 acres; and for Cell 6, 12.5 acres x 1.05 = 13.1 acres for a total corrected area of **53.9 acres**.

(53.9 acres x 43,560 ft^2/acre x 1 ft cover thickness) ÷ 27 ft^3/ yd^3 = 86,959 yd^3

86,959 yd^3 @ $1.85/ yd^3 = **$160,874**

3. Cover Material (Barrier Layer)

The final cover system for the JED facility is comprised of (from bottom to top):

- 12 inch intermediate cover soil layer (Item No.2 above)
- 40-mil PE textured geomembrane;
- geocomposite drainage layer (on 3H:1V side slopes only);
- 18 inch cover protective soil layer; and
- 6 inch vegetative soil layer (Item No. 4 below)

Cover protective soil will consist of material obtained from on-site. Cost for cover protective soil includes excavation, hauling, placement, spreading, grading, and compaction. Cost for geosynthetics includes material and installation costs.

The estimated quantities are:

- 40-mil PE textured geomembrane:
  53.9 acres x 43,560 ft^2/acre ÷ 9 ft^2/yd^2 = 260,876 yd^2
  260,876 yd^2 40-mil PE textured geomembrane @ $2.34/$yd^2$= **$ 610,450**

- geocomposite drainage layer (on 3H:1V side slopes only):
  53.9 acres – 6.5 acres (top of Phase 1) = 47.4 acres
  47.4 acres x 43,560 ft^2/acre ÷ 9 ft^2/yd^2 = 229,416 yd^2
  229,416 yd^2 geocomposite drainage layer @ $3.02/$yd^2$= **$ 692,836**

- 18 inch cover protective soil layer:
  (53.9 acres x 43,560 ft^2/acre x 1.5 ft cover thickness) ÷ 27 ft^3/ yd^3 = 130,438 yd^3
  130,438 yd^3 cover soils @ $2.00/ yd^3 = **$ 260,876**

The total cost for final cover materials (excluding the intermediate and vegetative soil layers) is **$1,564,162.**

4. Vegetative Soil Layer

The vegetative soil layer consists of a 6 inch layer over the cover protective soil. The estimated cubic yardage is 43,479 yd^3. The vegetative soil will consist of material obtained from on-site sources. The cost per cubic yard includes hauling, placing, spreading, and grading. The estimated cost for the vegetative soil layer is as follows:

(53.9 acres x 43,560 ft^2/acre x 0.5 ft cover thickness) ÷ 27 ft^3/ yd^3 = 43,479 yd^3
43,479 yd^3 @ $3.00/ yd^3 = **$ 130,437**

5. Vegetative Layer

The final cover area will be sodded. Sodding costs include all labor and materials.

53.9 acres x 43,560 ft^2/acre ÷ 9 ft^2/yd^2 = 260,876 yd^2
260,876 yd^2 Bahia sod @ $1.75/$yd^2$= **$ 456,533**

6. Storm Water Control System

Most of the perimeter site storm water control system components (i.e., concrete storm water structures, discharge pipes to dry retention areas, and perimeter road swale inlet pipes) were installed as part of the landfill (Cell) construction, and therefore, have not been included as part of this closure construction estimate. Storm water control components that will be installed during closure consist of side slope drainage swales, inlet structures on the side slope swales, cover drainage piping, and HDPE corrugated down chute pipes. The earthwork estimate includes excavation, hauling, placement, spreading, grading, and compaction of additional soils required on the drainage benches for sloping and over the down chute piping.

Based on the JED Vertical Expansion Permit drawings (Sheet 37 of 40), approximately 4,070 linear feet of 18-inch down chute pipes, 25,700 linear feet of 4-in cover drainage pipe, and seventy (70) inlet structures will be installed to convey the storm water from the proposed side slope swales to the dry retention area located at the toe of the landfill

perimeter berm. These quantities exclude the quantities installed during the Phase 1, Cell 1-4 partial closure construction completed in November 2009.

The total cost for the storm water control system is estimated to be **$322,118** as indicated below.

- Earthwork: Additional soil to construct drainage swales = 20.6 ft^2 per linear foot of swale. 20.6 ft^2 x 25,700 ft = 529,420 ft^3 ÷ 27 ft^3/yd^3 = 19,609 yd^3 19,609 yd^3 @ $2.00/ yd^3 = **$ 39,218**
- Piping (material and installation):
    1. 4,070 ft of 18-inch HDPE corrugated pipe @ $29/ft = **$118,030**
    2. 25,700 ft of 4-inch HDPE corrugated pipe @ 4.10/ft = **$105,370**
- Drainage inlet structures: 70 @ $850 each = **$59,500**

7. Gas Controls: Active

The JED facility has an active gas collection and control system (GCCS) within the Phase 1 development area (i.e., Cells 1-4), which will be expanded upon with the closure of subsequent cells. The costs associated with the installation of gas controls were calculated utilizing the proposed GCCS design as provided in the vertical expansion permit application for the JED facility (sheet 29 of 40) and the Phase 1, Sequence 1 and 2 GCCS Construction Drawings. Costs include materials and installation.

Gas Wells (drilling, perforated pipe section, solid pipe section, and well head):
[Drilling @ $27/ft, perforated pipe section @ $51.50/ft, solid pipe section @$34/ft, and well heads @ $1,200 each] Well depths shown are typical.

- 10 – 35-ft gas well @ $3,449/gas well = **$34,490**
- 10 – 75-ft gas well @ $6,659/gas well = **$66,590**
- 19 – 135-ft gas well @ $11,605/gas well = **$220,495**
- 12 – 170-ft gas well @ $14,195/gas well = **$170,340**

To calculate an average cost per gas well for the FDEP form, the total well costs above have been divided by the proposed number of gas wells:

($34,490 + $66,590 + $220,495 + $170,340) = $491,915 ÷ (10 + 10 + 19 + 12) = **$9,645.39** per well x 51 gas wells = **$491,914.89**

Lateral Piping (6-inch SDR-17 HDPE Pipe):

- 9,370 ft @ $18/ft = **$168,660**

Header piping (12-inch SDR-17 HDPE Pipe):

- 1,030 ft @ $34/ft = **$35,020**

To calculate the cost per linear foot of gas system piping, the total pipe cost has been divided by the total estimated linear footage of pipe:

($168,660 + $35,020) = $203,680 ÷ (9,370 + 1,030) ft = **$19.58/ft**

$19.58/ft x 10,400ft = **$203,632**

Note that the cost per linear foot of pipe includes fittings.

Perimeter gas monitoring probes have been installed for Phases 1 through 3 (i.e., Cells 1-10) therefore, no costs have been included in this closure cost estimate.

The total cost for active gas controls is **$695,546.89**.

8. Gas Control: Active Extraction

Based on the proposed GCCS design, two gas flare stations will be installed as part of the GCCS for Phases 1 through 3. One gas flare station was already installed as part of the Phase 1, Sequence 1 and 2 GCCS installation (for Cells 1 through 4). One additional gas flare station will be installed for the closure of Phases 2 and 3 (Cells 5-10). The cost for the gas flare station is $221,690 plus an additional $124,000 for site work, installation, electrical, condensate management, and misc. installation costs for a total of $345,690. Phases 2 through 3 consist of six landfill cells (i.e., Cells 5 through 10). Because the additional gas flare station must be installed regardless of the number of cells constructed in Phases 2 and 3 at the time of closure, the entire amount was included in the estimate and equals **$345,690**.

In addition, two condensate traps will be installed as part of the GCCS system within the footprint of Cells 5 and 6. The cost per condensate trap is $6,500 x 2 = **$13,000.**

The total cost for active gas extraction control is **$358,690.**

9. Security System

The perimeter fencing and gates were installed as part of the Phase 1 construction and therefore have not been included as part of this closure cost estimate.

10. Engineering

Costs for each item of engineering services associated with closure of the remaining Phase 1 area, and Cells 5 and 6 are based on the costs associated with the partial closure of Phase 1. Where applicable, the costs are split based on the acreage to estimate the costs for the closure of the remaining Phase 1 area and Cells 5 and 6 (53.3 acres). As an example – the survey cost for the partial closure of Phase 1 was based on the closure area of approximately 25-acres: $30,000 / 25 acres = $1,200/acre

- Closure Permit Plan and Report (includes Construction Drawings and Technical Specifications): **$20,000**
- Final Survey: $1,200/acre x 53.9 acres = **$64,680**
- Certification Report (prepared and certified by Florida registered professional engineer): **$6,000**

Total cost for Engineering is **$90,680.**

11. Professional Services

It has been assumed that 3% of construction cost will be needed for contract/construction management, which corresponds to 0.03 x $3,779,041 = **$113,371.**

It has also been assumed that 7% of construction cost will be needed for construction quality assurance, which corresponds to 0.07 x $3,779,041 = **$264,533**. This amount includes quality assurance testing.

Total cost for Professional Services is **$377,904.**

12. Contingency

A contingency of 10% of the closure cost has been assumed: 0.10 x $4,156,945 = **$415,695**

13. Site Specific Costs

a. Mobilization

Contractor mobilization has been assumed to be 3% of the closure cost, excluding the costs for professional services, which corresponds to 0.03 x $3,779,041 = **$113,371.**

b. Waste Tire Storage and Processing Facility

Based on the permit modification application for the Waste Tire Storage and Processing Facility, the maximum number or volume of whole passenger tires, processed tires, and residuals that can be stored at the storage and processing areas are 41,760 whole tires (469 tons), 469 tons of processed tires, and 10 tons of residuals.

Quoted costs to transport and recycle whole tires is provided by RMD Americas of Florida, LLC has been included in Attachment 2-2. Loading of whole tires into RMD's trucks will be completed by ERC General Contracting Services, Inc. based on the estimated costs also provided in Attachment 2-2.

Cost for off-site transport and disposal of the 469 tons of whole tires is **$23,450** ($50.00/ton).

ERC provided costs for: i) loading whole tires (469 tons) onto tractor trailers for off-site disposal; and ii) loading the processed tire chips (469) on off-road trucks and hauling to the active disposal area. The costs associated with the two scenarios listed above are **$4,250**

and **$6,500**, respectively. In addition, a **$3,500** cost has been included for final clean-up of the waste tire storage area, which includes removal of the 10 tons of residuals, soil base material, regrading of area to natural grade, and seeding of the area.

The total cost for closure of the waste tire storage area as described above is **$37,700**.

c. Auto Shredder Residual Recycling Operations

Auto shredder residual (ASR) recycling operations will be performed within the lined active disposal area. At closure, any remaining residual auto shredder material will be incorporated into the active disposal area. Resource Reclamation Company/RMG Holdings, LLC (subcontracted operator of the ASR recycling operations) has provided a cost estimate of **$40,000** to dismantle and remove all processing equipment from the Facility. A copy of the cost estimate provided by RMG Holdings, LLC. is provided in Attachment 2-3.

Total Closure Costs for the remaining areas of Phase 1, Cell 5, and Cell 6, as described above, is **$4,722,142.**

ATTACHMENT 2-1

BID DOCUMENTS FOR THE PHASE 1 PARTIAL CLOSURE CONSTRUCTION AND PHASE 1, SEQUENEC 1 AND 2 GCCS CONSTRUCTION

2.4 BID WORKSHEET:

JED Solid Waste Management Facility (J.E.D. Landfill)
Partial Closure Construction Cells 1 - 4

Revised February 11, 2009

Item	Description	Unit	Quantity	Unit Price	Sub-Total
1	Mobilization and Demobilization (not to exceed 5% of total bid) (See Note 1)	LS	1	$35,000.00	$35,000
2	Offloading and Staging Geosynthetic Liner Materials	LS	1	$2,500.00	$2,500
3	Surveying & As-builts (See Note 2)	LS	1	$30,000.00	$30,000
4	Borrow Area Development and Management (See Note 3)	LS	1	$50,000.00	$50,000
5	Silt Fencing at Borrow Area	LF	3,000	$0.65	$1,950
6	NOI, SWPPP, Sediment and Erosion Controls (BMP's)	LS	1	$3,500.00	$3,500
7	Expose Existing Base Liner at Anchor Trench	LF	4,430	$0.65	$2,880
8	Disconnect Existing Odor Flares at Leachate Cleanout Risers (See Note 4)	EA	14	$150.00	$2,100
9	Placement of Earthfill and Regrading to Meet Design Waste Grades (See Note 5)	CY	85,000	$1.85	$157,250
10	Placement and Grading of Intermediate Cover Layer (See Note 6)	CY	41,200	$1.85	$76,220
11	Excavation and Backfilling of Anchor Trenches	LF	4,000	$1.20	$4,800
12	Placement and Grading of Cap Protective Layer (See Note 6)	CY	68,750	$2.00	$137,500
13	18" Dia. Stormwater Piping (See Note 7)	LF	3,045	$29.00	$88,305
14	18" Dia. Stormwater Inlet Structures at Benches (See Note 8)	EA	40	$850.00	$34,000
15	18" Dia. Stormwater Inlet Structures (Top Area Outside Closure Limits) (See Note 9)	EA	10	$730.00	$7,300
16	Supply of Recycled Concrete Rip-Rap	TN	50	$63.00	$3,150
17	4-inch Diamater Seepage Header Pipe (solid and perforated)	LF	11,750	$1.10	$12,925
18	Placement and Grading of Soil Vegetation Layer	CY	21,750	$3.00	$65,250
19	Vegetation Layer Soil Amendments	AC	27	$1,000.00	$27,000
20	Sodding	SY	130,750	$1.75	$228,813
21	Waste/Closure Limit Markers	EA	20	$37.00	$740
22	Flushing of Existing Stormwater Control Structures and Outfall Piping (See Note 10)	EA	10	$185.00	$1,850
					$0
					$0
				Total Bid	**$973,032**

See Notes Below and Scope of Work - Section I of Contract Agreement:

Note 1 - One half of total cost will be paid upon mobilization and one half upon demobilization.

Note 2 - Six (6) signed and sealed hard copies and one each (pdf and CADD file) of all as-built drawings must be provided to Owner at completion of project.

Note 3 - Borrow Area Development and Management (Item 3) shall be in accordance with SFWMD permits and RHPA drawings dated October 2004. This item also includes any necessary survey, clearing, grubbing, dewatering, grading and restoration activities for the borrow area and haul road. Vegetation cleared at the borrow area shall be stockpiled south of the Cell 5 area in a location approved by the Owner.

Note 4 - Payment includes disconnecting, storing and reconnecting odor flares at leachate cleanouts riser pipes.

Note 5 - Includes haul and placement of clean fill soil to achieve waste grade elevations (account for existing waste underfill). Regrading of overfill soils shall be included in the unit rate.

Note 6 - Unit rate and payment will be based on in-place compacted volumes based on design grades: No additional payment will be made for overfilling and tolerance allowance.

Note 7 - Unit rate shall include miscellaneous fittings (elbows, bends, bands and ties, gaskets etc.) required to complete the stormwater piping. Pay item does not include Y-fittings at the bench locations.

Note 8 - Includes all costs for Y-fittings, pipe extensions, bar screens and concrete to complete the stormwater inlet structures at the bench locations.

Note 9 - Includes mitered end fittings, filter fabric and placement of recycled concrete rip-rap.

Note 10 - Includes flushing of sediments in existing stormwater structures and outfall piping at perimeter road/disposal area limits.

BID WORKSHEET
J.E.D. Solid Waste Management Facility
Phase 1 - Gas Collection and Control System
Revised May 9, 2008 - Mike Kaiser

Item/Description	Unit	Quantity	Unit Cost	Subtotal Cost
General				
Mobilization/Demobilization	LS	1	5% of Total	$ 19,500.00
Erosion and Sediment Control	LS	1	$ 7,760.00	$ 7,760.00
Survey	LS	1	$ 11,300.00	$ 11,300.00
HDPE Header and Lateral Piping				
6" SDR-17 Lateral Pipe	LF	2800	$ 18.00	$ 50,400.00
8" SDR-17 LateralPipe	LF	200	$ 24.00	$ 4,800.00
12" SDR-17 Pipe, Header	LF	350	$ 34.00	$ 11,900.00
14" SDR-17 Pipe, Header	LF	310	$ 41.00	$ 12,710.00
18" SDR-17 Pipe, Header	LF	1650	$ 59.00	$ 97,350.00
20" SDR-17 Pipe, Header	LF	310	$ 79.00	$ 24,490.00
24" SDR-17 Pipe, Header	LF	100	$ 160.00	$ 16,000.00
Valves and Other Components				
Fittings	LS	1	$ 15,000.00	$ 15,000.00
Header Access Riser (Header High Points)	EA	1	$ 1,000.00	$ 1,000.00
14" Isolation Butterfly Valve	EA	1	$ 8,200.00	$ 8,200.00
18" Isolation Butterfly Valve	EA	1	$ 16,000.00	$ 16,000.00
20" Isolation Butterfly Valve	EA	1	$ 19,000.00	$ 19,000.00
Gas Extraction Wells				
Gas Well Head Assemply	EA	29	$ 1,200.00	$ 34,800.00
8" Sch 80 PVC Perforated Gas Extraction Well Section	LF	1410	$ 51.50	$ 72,615.00
8" Sch 80 PVC Solid Gas Extraction Well Section	LF	587	$ 34.00	$ 19,958.00
Vertical Well Drilling (36-inch diameter)	LF	1910	$ 27.00	$ 51,570.00
Condensate Collection & Management				
Condensate Drains at Leachate Cleanouts	EA	3	$ 6,500.00	$ 19,500.00
HDPE 36" Dia. Knockout Pot at Flare Station	EA	1	$ 15,000.00	$ 15,000.00
Condensate Management System at Flare Station	LS	1	$ 18,000.00	$ 18,000.00
Gas Flare Station				
Flare Station Pad (Excavation, Fill and Grading)	LS	1	$ 13,000.00	$ 13,000.00
Gas Flare Station Receiving & Installation	LS	1	$ 10,900.00	$ 10,900.00
Electrical	LS	1	$ 23,000.00	$ 23,000.00
8' Tall Chain Link Fencing	LF	160	$ 29.00	$ 4,640.00
4' Wide Man Gate	EA	1	$ 520.00	$ 520.00
Sodding	SF	1000	$ 2.00	$ 2,000.00
12" Thick 3/4" Gravel with Geofabric	SF	1250	$ 3.50	$ 4,375.00
Retaining Wall and Footing (8' H x 8" W)	LF	80	$ 350.00	$ 28,000.00
Start-up Support	LS	1	$ 4,690.00	$ 4,690.00
TOTAL CONSTRUCTION COSTS				**$ 637,978.00**

Notes:
1. Mobilization and demobilization shall not exceed 5% of total.

Utility Flare Model PCFT1444I12 Sales Agreement No. 030802R2
Date: April 10, 2008

This Agreement covers the purchase of a landfill methane flare system with control rack and related peripheral equipment from LFG Specialties (LFG) by Purchaser.

Bill-to Address (please fill in)	**Ship-to Address (please fill in)**
J.E.D Solid Waste Management Facility	Same as billing address
1501 Omni Way	
St. Cloud, Florida 34773	
Attention: Mike Kaiser	**Attention:**
Phone: (904) 673-0446	**Phone:**
Fax: (407) 891-3730	**Fax:**

The terms and conditions set forth in this Agreement herein, which include the Equipment Specification and the Terms and Conditions of Sales, constitute the entire understanding of the parties relating to the goods and services provided for herein. All subsequent modifications to this Agreement shall not be effective unless they are in writing and signed by LFG Specialties.

TOTAL EQUIPMENT COST:	**$205,930.00**
START-UP AND TRAINING ASSISTANCE:	**$4,690.00**
ESTIMATED SHIPPING & HANDLING:	**$9,500.00**
OPTIONS SELECTED	
Ten foot stack extension (to-be-confirmed)	$ 1,570.00
	$
	$
TOTAL ESTIMATED CONTRACT VALUE:	$ 221,690

IN WITNESS WHEREOF, the parties have caused this Agreement to be executed by their duly authorized representatives as of the month, day, and year set forth below.

LFG SPECIALTIES	PURCHASER
	SIGN:
	NAME: R. Shawn McCash
	TITLE: Sr. Vice President
	DATE: 4/11/08
	P.O.#: NA – Reference JED Flare 2008

2.4 BID WORKSHEET:

JED Solid Waste Management Facility- Geosynthetics for Partial Closure Cells 1-4

M/P Item	Description	Unit	Bid Estimate Install Quantity	Comanco		Bid Estimate Material Supply Quantity	Agru	
1	Mobilization and Demobilization	LS	1	$5,000	$5,000			
2	Tie-In to Existing 60-mil Liner at Base Anchor T	LF	4,000	4.25	$17,000			
3	40-mil Textured Geomembrane	SF	1,120,000	$0.095	$106,400	1,250,000	0.1664	$208,000
4	Geocomposite	SF	1,120,000	$0.090	$100,800	1,250,000	0.2460	$307,500
5	Seepage Header Piping Wrap	LF	11,750	$3	$30,550			
6	8" Diameter Leachate Riser Pipe Boots	EA	15	$225	$3,375	15		
7	8" Diameter Gas Well Boots	EA	43	$225	$9,675	43		
8	6" Diameter Lateral Boots	EA	43	$225	$9,675	43		
9	4" Diamater Header Riser Access Pipe Boots	EA	10	$225	$2,250	10		
	Estimated Delivery							$37,500
					284,725			**$553,000**

WSI Notes:

1. Install and material supply quantities are provided for bid estimate purposes. Install pay quantities will be based on actual square footage verified by 3rd party survey (including anchor trench). Material supply quantities shall be based on Installers take-off estimate, approved by Owner. Supply quantities shall include waste, slope, anchor trench, overlap, and any other adjustment factors necessary to supply all material to complete the work.
2. Earthwork Contractor will offload and stage geosynthetics materials delivered to the site. Material Supplier will furnish strappings on the rolls for offloading.
3. Installation quotes will be evaluated on cost and time to complete the work - both are important. Please indicate how many crews can be placed on the project and estimated time.
4. Material Supply Unit Price INCLUDES FREIGHT and is a DELIVERED TO FACILITY price. The JED Facility is exempt from sales tax.
5. Material specifications are attached. Material Unit Price includes all MQC testing as required by the specifications.
6. Earthwork Contractor will supply and place the seepage header pipe. Geomembrane installer shall cut, wrap and sew the geocomposite around the pipe.

Bidder Notes:

ATTACHMENT 2-2

CLOSURE COST ESTIMATE FOR WASTE TIRE PROCESSING FACILITY

ERC GENERAL CONTRACTING SERVICES, INC.

Carter CommerCenter • 890 Carter Road, Suite 170
Winter Garden, Florida 34787
(407) 656-3900 • Fax (407) 656-2128

December 14, 2009

Mr. Kirk Wills
Geosyntec Consultants
14055 Riveredge Drive, Suite 300
Tampa, FL 33637

Re: JED Landfill
Closure of Waste Tire Storage Area
Estimated Costs
1501 Omni Way
St. Cloud, FL 34773

Dear Mr. Wills:

I have reviewed the information you provided for the JED Landfill regarding closure of the waste tire storage area. Below are estimated costs to perform the work requested:

1. Load approximately 41,760 (469 tons) passenger tires into semi-tractor trailers for transport to a recycling facility. Costs if for loading only using rubber tire loader or other equipment. **Estimate - $4,250**

2. Load approximately 469 tons processed tires onto heavy haul trucks and transport to active disposal area. ERC will provide all equipment. **Estimate - $6500**

3. Remove soil and base material at storage area and regrade to natural grades. General cleanup and reseeding. **Estimated - $3500**

Total estimated costs - $14,250

If there is anything else that you need, please give me a call.

Sincerely,

Jerry Pinder
ERC General Contracting Services, Inc.

Whole Tire Disposal

OMNWA070709

RMD Americas of Florida, LLC.
270 Barnes Blvd.
Rockledge, FL 32955
Phone: 321-636-3532
Fax: 321-631-9218

AMERICAS

Recycling: Copper, aluminium, plastic and rubber
Engineering and Equipment: Recycling and waste-to-energy turnkey plants
Thermolysis Process: Integral recovery of scrap tires

- Tire Disposal

RECEIVED
JUL 09 2009
BY

July 07, 2009

OMNI WASTE
1501 OMNI WAY

ST CLOUD, FL 34773

Invoice OMNWA070709
Customer ID OMNWA
Terms N30
Due 8/6/2009

Ticket #	Ship Date	Description	Qty	Rate	Charge	Tax	
CHARGES AND ADJUSTMENTS							
	OMNI WASTE						
92013	7/6/2009	TIP TIRES, WEIGHT	17.90	50.000	895.00	0.00	895.00
					895.00	0.00	895.00
	NET CHARGES AND ADJUSTMENTS THIS INVOICE		17.90		895.00	0.00	895.00

+Per Penny @ THFT
pay invoice amount
- load re-weighed
@ RMD @ 17.90TN

OK TO PAY
C.O.

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ATTACHMENT 2-3

COST ESTIMATE FOR CLOSURE ACTIVITIES ASSOCIATED WITH THE AUTO SHREDDER RESIDUAL RECYCLING OPERATIONS

RMG Holdings, LLC
6111 Cochran Rd.,
Solon, OH 44139
Phone: 440-519-1768; Fax: 440-519-1769

Mr. Kirk Wills
Principal Engineer
Geosyntec Consultants
14055 Riveredge Drive, Suite 300
Tampa, Florida 33637

December 1, 2009

RE: Closure Cost Estimate – Auto Shredder Residue (ASR) Recycling Plant

Dear Mr. Wills,

Please be advised that upon closure of the JED Solid Waste Management Facility or upon discontinued operation of the RMG Holdings, LLC ASR Recycling Plant, the total cost for RMG Holdings, LLC to dismantle and remove the equipment from the JED Landfill facility is $40,000.00.

Should you have additional questions, please contact me at 440-287-7216, by e-mail at dennisstropko@reserve-group.com, or by mail at the above address.

Sincerely,

Dennis V. Stropko
Safety and Environmental Manager, Reserve Management Group

CC: Mike Kaiser, JED Landfill
Steve Joseph, Reserve Management Group
Scott Joseph, Reserve Management Group
Saba Salloum, Reserve Management Group