

Florida Department of Environmental Protection

Bob Martinez Center 2600 Blair Stone Road Tallahassee, Florida 32399-2400 DEP Form #: 62-701.900(1), F.A.C.

Form Title: Application to Construct, Operate, Modify, or

Close a Solid Waste Management Facility

Effective Date: February 15, 2015

Incorporated in Rule: 62-701.330(3), F.A.C.

STATE OF FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

APPLICATION INSTRUCTIONS AND FORMS

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 permit application shall be submitted in accordance with the requirements of Rule 62-701.320(5)(a), F.A.C., to the appropriate Department 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 through S
- B. Asbestos Monofills Submit Parts A, B, C, D, E, F, I, K, M, O through S
- C. Industrial Solid Waste Disposal Facilities Submit Parts A through S

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 and C 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, L, N through S
- B. Asbestos Monofills Submit Parts A, B, M, O through S
- C. Industrial Solid Waste Disposal Facilities Submit Parts A, B, L through S

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: PROHIBITIONS

PART D: SOLID WASTE MANAGEMENT FACILITY PERMIT REQUIREMENTS, GENERAL

PART E: LANDFILL PERMIT REQUIREMENTS

PART F: GENERAL CRITERIA FOR LANDFILLS

PART G: LANDFILL CONSTRUCTION REQUIREMENTS

PART H: HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS

PART I: GEOTECHNICAL INVESTIGATION REQUIREMENTS

PART J: VERTICAL EXPANSION OF LANDFILLS

PART K: LANDFILL OPERATION REQUIREMENTS

PART L: WATER QUALITY AND LEACHATE MONITORING REQUIREMENTS

PART M: SPECIAL WASTE HANDLING REQUIREMENTS

PART N: GAS MANAGEMENT SYSTEM REQUIREMENTS

PART O: LANDFILL CLOSURE REQUIREMENTS

PART P: OTHER CLOSURE PROCEDURES

PART Q: LONG-TERM CARE

PART R: FINANCIAL ASSURANCE

PART S: 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

PART /	A. GENERAL INFORMATION	
1.	Type of disposal facility (check all that apply): Class I Landfill Class III Landfill Industrial Solid Waste Other (describe):	□ Ash Monofill □ Asbestos Monofill
NOTE:	Waste Processing Facilities should apply on F Yard Trash Disposal Facilities should notify on Compost Facilities should apply on Form 62-70 C&D Disposal Facilities should apply on Form	Form 62-701.900(3), FAC; 09.901(1), FAC; and
2.	Type of application:	
	☐ Construction☐ Operation	
	☐ Construction/Operation	
	□ Closure	
	☐ Long-term Care Only	
3.	Classification of application:	
	□ New	☐ Substantial Modification
	□ Renewal	☐ Intermediate Modification
		☐ Minor Modification
4.	Facility name:	
5.	DEP ID number:	County:
6.	Facility location (main entrance):	
7.	Location coordinates:	
	Section: Townshi	p: Range:
	Latitude:°'	" Longitude:°'
	Datum: Coordinate	e method:
	Collected by:	Company/Affiliation:

	Applicant name (operating authority):			
	Mailing address:Street or P.O. Box	City S	24-4-	7:
			State	-
	Contact person:	Telephone: ()		
	Title:			
		E-Mail address (if avail	able)
	Authorized egent/Consultants	,		,
	Authorized agent/Consultant:			
	Mailing address:Street or P.O. Box	City S	State	Zip
	Contact person:	,		
	Title:			
		E-Mail address (if	f availa	able)
	Landowner (if different than applicant):			
	Mailing address:			
	Street or P.O. Box		State	Zip
	Contact person:	Telephone: ()		
	Cities, towns, and areas to be served:	E-Mail address ((if avai	lable)
	Population to be served:			
	Current:	Five-Year Projection:		
	Date site will be ready to be inspected for completion:			
	Expected life of the facility: years			
	Estimated costs:			
	Total Construction: \$	_ Closing Costs: \$		
	Anticipated construction starting and completion dates:			
	From:	_To:		
	Expected volume or weight of waste to be received:			
	vde ³ /day tons	c/day gallor	ne/day	

PART B. DISPOSAL FACILITY GENERAL INFORMATION

Facility site supervisor:		
Title:	Telephone: (
		E-Mail address (if available
Disposal area: Total acres:	Used acres:	Available acres:
Weighing scales used: ☐ Yes ☐ No	0	
Security to prevent unauthorized us	e: □ Yes □ No	
Charge for waste received:	\$/yds ³	\$/ton
Surrounding land use, zoning:		
□ Residential	□ Industrial	
☐ Agricultural	□ None	
□ Commercial	□ Other (describe):	
Types of waste received:		
☐ Household	□ C & D debris	
□ Commercial	□ Shredded/cut tire	S
☐ Incinerator/WTE ash	☐ Yard trash	
☐ Treated biomedical	□ Septic tank	
☐ Water treatment sludge	□ Industrial	
☐ Air treatment sludge	□ Industrial sludge	
☐ Agricultural	□ Domestic sludge	
☐ Asbestos	□ Other (describe):	

Salvaging permitted: ☐ Yes ☐ No		
Attendant: □ Yes □ No	Trained operator: □ `	Yes □ No
Trained spotters: □ Yes □ No	Number of spotters u	sed:
Site located in: □ Floodplain	□ Wetlands	□ Other (describe)
Days of operation:		
Hours of operation:		
Days working face covered:		
Elevation of water table:	ft. Datum Used:	
Number of monitoring wells:		
Number of surface monitoring points:		
Gas controls used: □ Yes □ No	Type controls: □ Activ	ve □ Passive
Gas flaring: □ Yes □ No	Gas recovery: □ Yes	□ No
Landfill unit liner type:		
☐ Natural soils	□ Double geomemb	rane
☐ Single clay liner	☐ Geomembrane &	composite
☐ Single geomembrane	□ Double composite	
☐ Single composite	□ None	
□ Slurry wall	□ Other (describe):	
Leachate collection method:		
□ Collection pipes	□ Double geomemb	orane
□ Geonets	☐ Gravel layer	
□ Well points	☐ Interceptor trench	l
□ Perimeter ditch	□ None	

_eachate storage method:	
□ Tanks	☐ Surface impoundments
☐ Other (describe):	
Leachate treatment method:	
☐ Oxidation	☐ Chemical treatment
□ Secondary	☐ Settling
☐ Advanced	□ None
☐ Other (describe):	
_eachate disposal method:	
□ Recirculated	☐ Pumped to WWTP
☐ Transported to WWTP	☐ Discharged to surface water/wetland
☐ Injection well	□ Percolation ponds
□ Evaporation	☐ Spray irrigation
☐ Other (describe):	
For leachate discharged to surface waters:	
Name and Class of receiving water:	

26.	Storm Water:					
	Collected: □ Yes □ No					
	Type of treatment:					
	Name and Class of receiving water:					
27.	Environmental Resources Permit (ERP) number or status:					

PART C. PROHIBITIONS (62-701.300, FAC)

	LOCATION		
s□ _		N/A □ N/C □	1. Provide documentation that each of the siting criteria will be satisfied for the facility; (62-701.300(2), FAC)
s 🗆 .		N/A □ N/C □	2. If the facility qualifies for any of the exemptions contained in Rules 62-701.300(12), (13) and (16) through (18), FAC, then document this qualification(s);
s□ _		N/A □ N/C □	3. Provide documentation that the facility will be in compliance with the burning restrictions; (62-701.300(3), FAC)
s□ _		N/A □ N/C □	4. Provide documentation that the facility will be in compliance with the hazardous waste restrictions; (62-701.300(4), FAC)
s□_		N/A □ N/C □	5. Provide documentation that the facility will be in compliance with the PCB disposal restrictions; (62-701.300(5), FAC)
s□ _		N/A □ N/C □	6. Provide documentation that the facility will be in compliance with the biomedical waste restrictions; (62-701.300(6), FAC)
s□ ₋		N/A □ N/C □	7. Provide documentation that the facility will be in compliance with the Class I surface water restrictions; (62-701.300(7), FAC)
s□ ₋		N/A □ N/C □	8. Provide documentation that the facility will be in compliance with the special waste for landfills restrictions; (62-701.300(8), FAC)
s□ ₋		N/A □ N/C □	9. Provide documentation that the facility will be in compliance with the liquid restrictions; (62-701.300(10), FAC)
s 🗆 _		N/A □ N/C □	10. Provide documentation that the facility will be in compliance with the used oil and oily waste restrictions; (62-701.300(11), FAC)
s□ ₋		N/A □ N/C □	11. Provide documentation that the facility will be in compliance with the CCA treated wood restrictions; (62-701.300(14), FAC)
s 🗆 _		N/A □ N/C □	12. Provide documentation that the facility will be in compliance with the dust control restrictions; (62-701.300(15), FAC)

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

	LOCATION			
s 🗆 _		N/A □	N/C □	1. A completed application form, all supporting data and reports; (62-701.320(5)(a), FAC)
s□ _		N/A □	N/C □	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)
s □ _		N/A □	N/C □	3. A letter of transmittal to the Department; (62-701.320(7)(a), FAC)
s□ _		N/A □	N/C □	4. A completed application form dated and signed by the applicant; (62-701.320(7)(b), FAC)
s□_		N/A 🗆	N/C □	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)
s□ _		N/A □	N/C □	6. An engineering report addressing the requirements of this rule and with the following format: a cover sheet, text printed on 8 ½ 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)
s □ _		N/A □	N/C □	7. Operation Plan and Closure Plan; (62-701.320(7)(e)1, FAC)
s 🗆 _		N/A □	N/C □	8. Contingency Plan; (62-701.320(7)(e)2, FAC)
s□ _		N/A □	N/C □	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: (62-701.320(7)(f), FAC)
s□ _		N/A 🗆	N/C □	 a. A regional map or plan with the project location in relation to majo roadways and population centers;
s□ _		N/A 🗆	N/C □	b. A vicinity map or aerial photograph no more than one year old showing the facility site and relevant surface features located within 1000 feet of the facility;
s 🗆 _		N/A	N/C □	c. A site plan showing all property boundaries certified by a Florida Licensed Professional Surveyor and Mapper;
s□ _		N/A □	N/C □	 d. Other necessary details to support the engineering report, including referencing elevations to a consistent, nationally recognized datum, and identifying the method used for collecting latitude and longitude data;

PART D CONTINUED LOCATION S \square N/A \square N/C \square 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) S \square _____ N/A \square N/C \square 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) S \square _____ N/A \square N/C \square 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 the state; (62-701.320(7)(i), FAC) S \square N/A \square N/C \square 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; (62-701.320(8), FAC) S \square N/A \square N/C \square 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) S \square N/A \square N/C \square 15. Explain how the operator and spotter training requirements and special criteria will be satisfied for the facility; (62-701.320(15), FAC) LANDFILL PERMIT REQUIREMENTS (62-701.330, FAC) PART E. **LOCATION** S □ _____ N/A □ N/C □ 1. Regional map or aerial photograph no more than five years old showing all airports that are located within five miles of the proposed landfill; (62-701.330(3)(a), FAC) S \square _____ N/A \square N/C \square 2. Plot plan with a scale not greater than 200 feet to the inch showing: (62-701.330(3)(b), FAC) S \square N/A \square N/C \square a. Dimensions: S \square _____ N/A \square N/C \square b. Locations of proposed and existing water quality monitoring wells; S \square _____ N/A \square N/C \square c. Locations of soil borings; S \square N/A \square N/C \square d. Proposed plan of trenching or disposal areas; S \square _____ N/A \square N/C \square e. Cross sections showing original elevations and proposed final contours which shall be included either on the plot plan or on separate sheets:

LOCATION PART E CONTINUED S □ ______ N/A □ N/C □ f. Any previously filled waste disposal areas; S □ ______ N/A □ N/C □ g. Fencing or other measures to restrict access;

s 🗆	N/A □ N/C □	g. Fencing or other measures to restrict access;
s 🗆	N/A □ N/C □	3. Topographic maps with a scale not greater than 200 feet to the inch with five foot contour intervals showing: (62-701.330(3)(c), FAC)
s 🗆	N/A □ N/C □	a. Proposed fill areas;
s 🗆	N/A □ N/C □	b. Borrow areas;
s 🗆	N/A □ N/C □	c. Access roads;
s 🗆	N/A □ N/C □	d. Grades required for proper drainage;
s 🗆	N/A □ N/C □	e. Cross sections of lifts;
s 🗆	N/A □ N/C □	f. Special drainage devices if necessary;
s 🗆	N/A □ N/C □	g. Fencing;
s 🗆	N/A □ N/C □	h. Equipment facilities;
s 🗆	N/A N/C	4. A report on the landfill describing the following: (62-701.330(3)(d), FAC)
s 🗆	N/A □ N/C □	 a. The current and projected population and area to be served by the proposed site;
s 🗆	N/A □ N/C □	b. The anticipated type, annual quantity, and source of solid waste expressed in tons;
s 🗆	N/A □ N/C □	c. Planned active life of the facility, the final design height of the facility, and the maximum height of the facility during its operation;
s 🗆	N/A □ N/C □	d. The source and type of cover material used for the landfill;
s 🗆	N/A □ N/C □	5. 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)(g), FAC
s 🗆	N/A □ N/C □	6. 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)(h), FAC)

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

LOCAT	<u>'ION</u>		
s□	N/A 🗆 N/C 🗆	available) how the 100 year fl reduce the tem	nd show on a Federal Insurance Administration flood map, if the landfill or solid waste disposal unit shall not be located in oodplain where it will restrict the flow of the 100 year flood, apprary water storage capacity of the floodplain unless storage is provided, or result in a washout of solid waste; (62- FAC)
s□	N/A 🗆 N/C 🗆	in the landfill a	w the minimum horizontal separation between waste deposits and the landfill property boundary shall be 100 feet, measured the proposed final cover slope; (62-701.340(3)(c), FAC)
PART G.	LANDFILL CONSTRUCT	ION REQUIREM	ENTS (62-701.400, FAC)
LOCAT	<u>'ION</u>		
s□	N/A 🗆 N/C 🗆	units will be co design period of factor of safety	ow the landfill shall be designed so the solid waste disposal constructed and closed at planned intervals throughout the of the landfill, and shall be designed to achieve a minimum of 1.5 using peak strength values to prevent failures of side ep-seated failures; (62-701.400(2), FAC)
s 🗆	N/A 🗆 N/C 🗆	2. Landfill liner	requirements; (62-701.400(3), FAC)
s 🗆	N/A 🗆 N/C 🗆	a. Ger	neral construction requirements; (62-701.400(3)(a), FAC)
s 🗆	N/A 🗆 N/C 🗆	(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;
s 🗆	N/A 🗆 N/C 🗆	(2)	Document foundation is adequate to prevent liner failure;
s 🗆	N/A 🗆 N/C 🗆	(3)	Constructed so bottom liner will not be adversely impacted by fluctuations of the ground water;
s 🗆	N/A 🗆 N/C 🗆	(4)	Designed to resist hydrostatic uplift if bottom liner located below seasonal high ground water table;
s 🗆	N/A 🗆 N/C 🗆	(5)	Installed to cover all surrounding earth which could come into contact with the waste or leachate:

LOCATION PART G CONTINUED

s 🗆	N/A 🗆 N/C 🗆	b. Co	mposite liners; (62-701.400(3)(b), FAC)
s 🗆	N/A 🗆 N/C 🗆	(1)	Upper geomembrane thickness and properties;
s 🗆	N/A 🗆 N/C 🗆	(2)	Design leachate head for primary leachate collection and removal system (LCRS) including leachate recirculation if appropriate;
s 🗆	N/A 🗆 N/C 🗆	(3)	Design thickness in accordance with Table A and number of lifts planned for lower soil component;
s 🗆	N/A 🗆 N/C 🗆	c. Do	uble liners; (62-701.400(3)(c), FAC)
s 🗆	N/A 🗆 N/C 🗆	(1)	Upper and lower geomembrane thickness and properties;
s 🗆	N/A □ N/C □	(2)	Design leachate head for primary LCRS to limit the head to one foot above the liner;
s 🗆	N/A 🗆 N/C 🗆	(3)	Lower geomembrane sub-base design;
s 🗆	N/A 🗆 N/C 🗆	(4)	Leak detection and secondary leachate collection system minimum design criteria (k ≥ 10 cm/sec, head on lower liner ≤ 1 inch, head not to exceed thickness of drainage layer);
s 🗆	N/A N/C	d. Sta	andards for geosynthetic components; (62-701.400(3)(d), FAC)
s□	N/A 🗆 N/C 🗆	(1)	Factory and field seam test methods to ensure all geomembrane seams achieve the minimum specifications;
s 🗆	N/A □ N/C □	(2)	Geomembranes to be used shall pass a continuous spark test by the manufacturer;
s 🗆	N/A 🗆 N/C 🗆	(3)	Design of 24-inch-thick protective layer above upper geomembrane liner;
s□	N/A 🗆 N/C 🗆	(4)	Describe operational plans to protect the liner and leachate collection system when placing the first layer of waste above a 24-inch-thick protective layer;
s 🗆	N/A 🗆 N/C 🗆	(5)	HDPE geomembranes, if used, meet the specifications in GRI GM13, and LLDPE geomembranes, if used, meet the specifications in GRI GM17;
s 🗆	N/A 🗆 N/C 🗆	(6)	PVC geomembranes, if used, meet the specifications in PGI 1104;

LOCATION **PART G CONTINUED** S \square N/A \square N/C \square (7) Interface shear strength testing results of the actual components which will be used in the liner system; S \square _____ N/A \square N/C \square (8)Transmissivity testing results of geonets if they are used in the liner system; S \square _____ N/A \square N/C \square (9)Hydraulic conductivity testing results of geosynthetic clay liners if they are used in the liner system; S \square _____ N/A \square N/C \square e. Geosynthetic specification requirements; (62-701.400(3)(e), FAC) S \square _____ N/A \square N/C \square Definition and qualifications of the designer, manufacturer, (1) installer, QA consultant and laboratory, and QA program; S \square _____ N/A \square N/C \square (2)Material specifications for geomembranes, geocomposites, geotextiles, geogrids, and geonets; S \square _____ N/A \square N/C \square (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; S \square _____ N/A \square N/C \square (4) Geomembrane installation specifications including earthwork, conformance testing, geomembrane placement, installation personnel qualifications, field seaming and testing, overlapping and repairs, materials in contact with geomembranes, and procedures for lining system acceptance; S \square _____ N/A \square N/C \square (5) Geotextile and geogrids specifications including handling and placement, conformance testing, seams and overlaps, repair, and placement of soil materials and any overlying materials: S \square _____ N/A \square N/C \square (6) Geonet and geocomposites specifications including handling and placement, conformance testing, stacking and joining, repair, and placement of soil materials and any overlying materials; S \square N/A \square N/C \square (7)Geosynthetic clay liner specifications including handling and

materials:

placement, conformance testing, seams and overlaps, repair, and placement of soil materials and any overlying

LOCATION **PART G CONTINUED** S \square _____ N/A \square N/C \square f. Standards for soil liner components; (62-701.400(3)(f), FAC) S \square _____ N/A \square N/C \square (1) Description of construction procedures including overexcavation and backfilling to preclude structural inconsistencies and procedures for placing and compacting soil components in layers; S \square _____ N/A \square N/C \square Demonstration of compatibility of the soil component with (2) actual or simulated leachate in accordance with EPA Test Method 9100, or an equivalent test method; S \square N/A \square N/C \square (3)Procedures for testing in situ soils to demonstrate they meet the specifications for soil liners; S \square _____ N/A \square N/C \square (4) Specifications for soil component of liner including at a minimum: S \square N/A \square N/C \square (a) Allowable particle size distribution, and Atterberg limits including shrinkage limit; S \square _____ N/A \square N/C \square (b) Placement moisture and dry density criteria; S \square _____ N/A \square N/C \square Maximum laboratory-determined saturated hydraulic (c) conductivity using simulated leachate: S \square _____ N/A \square N/C \square (d) Minimum thickness of soil liner; S \square _____ N/A \square N/C \square Lift thickness; (e) S \square _____ N/A \square N/C \square (f) Surface preparation (scarification); S \square _____ N/A \square N/C \square Type and percentage of clay mineral within the soil (g) component: S □ N/A □ N/C □ (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; S \square _____ N/A \square N/C \square g. If a Class III landfill is to be constructed with a bottom liner system, provide a description of how the minimum requirements for the liner

will be achieved:

LOCATION **PART G CONTINUED** S \square N/A \square N/C \square 3. Leachate collection and removal system (LCRS); (62-701.400(4), FAC) S \square _____ N/A \square N/C \square a. The primary and secondary LCRS requirements; (62-701.400(4)(a), FAC) S \square _____ N/A \square N/C \square (1) Constructed of materials chemically resistant to the waste and leachate: S \square N/A \square N/C \square (2) Have sufficient mechanical properties to prevent collapse under pressure; S \square N/A \square N/C \square (3)Have granular material or synthetic geotextile to prevent clogging; S \square _____ N/A \square N/C \square (4) Have a method for testing and cleaning clogged pipes or contingent designs for reducing leachate around failed areas: S \square _____ N/A \square N/C \square b. Other LCRS requirements; (62-701.400(4)(b), (c) and (d), FAC S \square _____ N/A \square N/C \square (1) Bottom 12 inches having hydraulic conductivity ≥ 1 x 10³ cm/sec: S \square _____ N/A \square N/C \square Total thickness of 24 inches of material chemically resistant (2) to the waste and leachate: S \square N/A \square N/C \square (3)Bottom slope design to accommodate for predicted settlement and still meet minimum slope requirements; S \square N/A \square N/C \square (4) Demonstration that synthetic drainage material, if used, is equivalent or better than granular material in chemical compatibility, flow under load, and protection of geomembranes liner; S \square _____ N/A \square N/C \square (5) Schedule provided for routine maintenance of LCRS. S \square _____ N/A \square N/C \square 4. Leachate recirculation; (62-701.400(5), FAC) S \square _____ N/A \square N/C \square a. Describe general procedures for recirculating leachate; S \square _____ N/A \square N/C \square b. Describe procedures for controlling leachate runoff and minimizing mixing of leachate runoff with storm water; S \square _____ N/A \square N/C \square c. Describe procedures for preventing perched water conditions and

gas buildup;

LOCATION PART G CONTINUED S \square N/A \square N/C \square 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 S \square _____ N/A \square N/C \square e. Describe methods of gas management in accordance with Rule 62-701.530, FAC; S \square N/A \square N/C \square 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 \square _____ N/A \square N/C \square 5. Leachate storage tanks and leachate surface impoundments; (62-701.400(6), FAC) S \square ______ N/A \square N/C \square a. Surface impoundment requirements; (62-701.400(6)(b), FAC) S \square N/A \square N/C \square (1) Documentation that the design of the bottom liner will not be adversely impacted by fluctuations of the ground water: S \square ______ N/A \square N/C \square (2) Designed in segments to allow for inspection and repair, as needed, without interruption of service; S \square _____ N/A \square N/C \square (3)General design requirements; S \square _____ N/A \square N/C \square (a) Double liner system consisting of an upper and lower 60-mil minimum thickness geomembrane; S \square _____ N/A \square N/C \square (b) Leak detection and collection system with hydraulic conductivity ≥ 1 cm/sec; S \square _____ N/A \square N/C \square (c) Lower geomembrane place on subbase ≥ 6 inches thick with $k \le 1 \times 10^{-5}$ cm/sec or on an approved geosynthetic clay liner with $k \le 1 \times 10^{-7}$ cm/sec: S \square _____ N/A \square N/C \square (d) Design calculation to predict potential leakage through the upper liner; S \square _____ N/A \square N/C \square (e) Daily inspection requirements, and notification and corrective action requirements if leakage rates exceed that predicted by design calculations; S \square N/A \square N/C \square (4) Description of procedures to prevent uplift, if applicable:

LOCATION **PART G CONTINUED** S \square N/A \square N/C \square (5) Design calculations to demonstrate minimum two feet of freeboard will be maintained; S □ N/A □ N/C □ (6)Procedures for controlling vectors and off-site odors; S \square N/A \square N/C \square b. Above-ground leachate storage tanks; (62-701.400(6)(c), FAC) S \square _____ N/A \square N/C \square (1) Describe tank materials of construction and ensure foundation is sufficient to support tank; S \square ______ N/A \square N/C \square (2) Describe procedures for cathodic protection for the tank, if needed: S \square _____ N/A \square N/C \square (3)Describe exterior painting and interior lining of the tank to protect it from the weather and the leachate stored; S \square N/A \square N/C \square (4) Describe secondary containment design to ensure adequate capacity will be provided and compatibility of materials of construction; S \square N/A \square N/C \square (5) Describe design to remove and dispose of stormwater from the secondary containment system; S \square N/A \square N/C \square (6)Describe an overfill prevention system, such as level sensors, gauges, alarms, and shutoff controls to prevent overfilling; S \square _____ N/A \square N/C \square (7)Inspections, corrective action, and reporting requirements; S \square _____ N/A \square N/C \square (a) Weekly inspection of overfill prevention system; S \square _____ N/A \square N/C \square Weekly inspection of exposed tank exteriors; (b) S \square _____ N/A \square N/C \square (c) Inspection of tank interiors when tank is drained, or at least every three years; S \square N/A \square N/C \square Procedures for immediate corrective action if failures (d) detected: S \square _____ N/A \square N/C \square Inspection reports available for Department review; (e)

S \square N/A \square N/C \square

c. Underground leachate storage tanks; (62-701.400(6)(d), FAC)

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

support personnel;

LOCATION PART G CONTINUED S \square _____ N/A \square N/C \square (6) Description of CQA reporting forms and documents; S \square _____ N/A \square N/C \square b. An independent laboratory experienced in the testing of geosynthetics to perform required testing; S \square N/A \square N/C \square 7. Soil liner CQA; (62-701.400(8), FAC) S \square N/A \square N/C \square 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; S \square _____ N/A \square N/C \square b. Description of field test section construction and test methods to be implemented prior to liner installation; S \square _____ N/A \square N/C \square c. Description of field test methods, including rejection criteria and corrective measures to insure proper liner installation; S \square N/A \square N/C \square 8. For surface water management systems at aboveground disposal units, provide documentation showing the design of any features intended to convey stormwater to a permitted or exempted treatment system; (62-701.400(9), FAC) S \square _____ N/A \square N/C \square 9. Gas control systems; (62-701.400(10), FAC) S \square N/A \square N/C \square 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; S \square N/A \square N/C \square 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) HYDROGEOLOGICAL INVESTIGATION REQUIREMENTS (62-701.410(2), FAC) PART H. **LOCATION** S \square _____ N/A \square N/C \square 1. Submit a hydrogeological investigation and site report including at least the following information: S \square _____ N/A \square N/C \square a. Regional and site specific geology and hydrology; S \square _____ N/A \square N/C \square b. Direction and rate of ground water and surface water flow including seasonal variations;

LOCATION PART H CONTINUED S □ N/A □ N/C □ c. Background quality of ground water and surface water; S \square _____ N/A \square N/C \square d. Any on-site hydraulic connections between aquifers; S \square _____ N/A \square N/C \square e. Site stratigraphy and aquifer characteristics for confining layers, semi-confining layers, and all aguifers below the landfill site that may be affected by the landfill; S \square N/A \square N/C \square f. Description of topography, soil types, and surface water drainage systems; S \square _____ N/A \square N/C \square g. Inventory of all public and private water wells within a one mile radius of the site 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: S \square N/A \square N/C \square h. Identify and locate any existing contaminated areas on the site: S \square _____ N/A \square N/C \square i. Include a map showing the locations of all potable wells within 500 feet of the waste storage and disposal areas; S \square _____ N/A \square N/C \square 2. Report signed, sealed, and dated by P.E. and/or P.G. PART I. GEOTECHNICAL INVESTIGATION REQUIREMENTS (62-701.410(3) and (4), FAC) **LOCATION** S \square _____ N/A \square N/C \square 1. Submit a geotechnical site investigation report defining the engineering properties of the site including at least the following: S \square _____ N/A \square N/C \square a. Description of subsurface conditions including soil stratigraphy and ground water table conditions: S \square _____ N/A \square N/C \square b. Investigate for the presence of muck, previously filled areas, soft ground, and lineaments; S \square _____ N/A \square N/C \square c. Estimates of average and maximum high water table across the site: S \square _____ N/A \square N/C \square d. Evaluation of potential for fault areas and seismic impact zones; S \square _____ N/A \square N/C \square e. Foundation analysis including:

LOCATION PART I CONTINUED S \square _____ N/A \square N/C \square (1) Foundation bearing capacity analysis; S \square _____ N/A \square N/C \square (2)Total and differential subgrade settlement analysis; S \square _____ N/A \square N/C \square (3)Slope stability analysis; S \square _____ N/A \square N/C \square f. Evaluation of potential for sinkholes and sinkhole activity at the site that is based upon the investigations required in Rule 62-701.410(3)(f), F.A.C.; S \square ______ N/A \square N/C \square g. A geotechnical report providing a description of methods used in the investigation, and includes soil boring logs, laboratory results, analytical calculations, cross sections, interpretations, conclusions, and a description of any engineering measures proposed for the site: S \square _____ N/A \square N/C \square 2. Report signed, sealed, and dated by P.E. and/or P.G. PART J. **VERTICAL EXPANSION OF LANDFILLS** (62-701.430, FAC) **LOCATION** S \square N/A \square N/C \square 1. Describe how the vertical expansion shall not cause or contribute to any violations of water quality standards or criteria, shall not cause objectionable odors, or adversely affect the closure design of the existing landfill; S \square _____ N/A \square N/C \square 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; S \square _____ N/A \square N/C \square 3. Provide foundation and settlement analysis for the vertical expansion; S \square _____ N/A \square N/C \square 4. Provide total settlement calculations demonstrating that the final elevations of the lining system, gravity drainage, and no other component of the design will be adversely affected; S \square N/A \square N/C \square 5. Minimum stability factor of safety of 1.5 for the lining system component interface stability and for deep stability; S \square _____ N/A \square N/C \square 6. Provide documentation to show the surface water management system will not be adversely affected by the vertical expansion; S \square N/A \square N/C \square 7. Provide gas control designs to prevent accumulation of gas under the new liner for the vertical expansion;

PART K. LANDFILL OPERATION REQUIREMENTS (62-701.500, FAC)

	LOCATION		
s□ _		N/A □ N/C	1. Provide documentation that the 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)
s□ _		N/A □ N/C	2. Provide a landfill operation plan including procedures for: (62-701.500(2), FAC)
s□_		N/A □ N/C	a. Designating responsible operating and maintenance personnel;
s□ _		N/A □ N/C	b. Emergency preparedness and response, as required in subsection 62-701.320(16), FAC;
s□_		N/A □ N/C	c. Controlling types of waste received at the landfill;
s 🗆 _		N/A □ N/C	d. Weighing incoming waste;
s□_		N/A □ N/C	e. Vehicle traffic control and unloading;
s 🗆 _		N/A □ N/C	f. Method and sequence of filling waste;
s 🗆 _		N/A □ N/C	g. Waste compaction and application of cover;
s □ _		N/A □ N/C	h. Operations of gas, leachate, and stormwater controls;
s □ _		N/A □ N/C	i. Water quality monitoring;
s 🗆 _		N/A □ N/C	j. Maintaining and cleaning the leachate collection system;
s□ _		N/A □ N/C	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 kep (i.e. DEP permit, engineering drawings, water quality records, etc.); (62-701.500(3), FAC)
s□ _		N/A □ N/C	4. Describe the waste records that will be compiled monthly and provided to the Department annually; (62-701.500(4), FAC)
s□_		N/A □ N/C	5. Describe methods of access control; (62-701.500(5), FAC)
s□ _		N/A □ N/C	6. Describe load checking program to be implemented at the landfill to discourage disposal of unauthorized waste at the landfill; (62-701.500(6), FAC)

LOCATION PART K CONTINUED S \square N/A \square N/C \square 7. Describe procedures for spreading and compacting waste at the landfill that include: (62-701.500(7), FAC) S □ N/A □ N/C □ a. Waste layer thickness and compaction frequencies; S \square N/A \square N/C \square b. Special considerations for first layer of waste placed above the liner and leachate collection system; S \square N/A \square N/C \square c. Slopes of cell working face and side grades above land surface, and planned lift depths during operation; S \square _____ N/A \square N/C \square d. Maximum width of working face; S \square _____ N/A \square N/C \square e. Description of type of initial cover to be used at the facility that controls: S \square _____ N/A \square N/C \square (1) Vector breeding/animal attraction: S □ N/A □ N/C □ (2)Fires: S \square _____ N/A \square N/C \square (3)Odors: S \square _____ N/A \square N/C \square (4) Blowing litter; S \square _____ N/A \square N/C \square (5)Moisture infiltration; S \square N/A \square N/C \square f. Procedures for applying initial cover, including minimum cover frequencies; S \square _____ N/A \square N/C \square g. Procedures for applying intermediate cover; S \square _____ N/A \square N/C \square h. Time frames for applying final cover; S \square _____ N/A \square N/C \square i. Procedures for controlling scavenging and salvaging; S \square _____ N/A \square N/C \square j. Description of litter policing methods;

k. Erosion control procedures;

S \square _____ N/A \square N/C \square

LOCATION PART K CONTINUED S \square N/A \square N/C \square 8. Describe operational procedures for leachate management including: (62-701.500(8), FAC) S \square N/A \square N/C \square a. Leachate level monitoring; S \square N/A \square N/C \square b. Operation and maintenance of leachate collection and removal system, and treatment as required; S \square N/A \square N/C \square c. Procedures for managing leachate if it becomes regulated as a hazardous waste: S \square _____ N/A \square N/C \square d. Identification of treatment or disposal facilities that may be used for off-site discharge and treatment of leachate; S \square _____ N/A \square N/C \square e. Contingency plan for managing leachate during emergencies or equipment problems; S \square N/A \square N/C \square f. Procedures for recording quantities of leachate generated in gal/day and including this in the operating record; S \square N/A \square N/C \square g. Procedures for comparing precipitation experienced at the landfill with leachate generation rates and including this information in the operating record; S \square _____ N/A \square N/C \square h. Procedures for water pressure cleaning or video inspecting leachate collection systems: S □ N/A □ N/C □ 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) S \square _____ N/A \square N/C \square 10. Describe procedures for operating and maintaining the landfill stormwater management system to comply with the requirements of Rule 62-701.400(9), FAC; (62-701.500(10), FAC) S \square _____ N/A \square N/C \square 11. Equipment and operation feature requirements: (62-701.500(11), FAC) S \square _____ N/A \square N/C \square a. Sufficient equipment for excavating, spreading, compacting, and covering waste; S \square _____ N/A \square N/C \square b. Reserve equipment or arrangements to obtain additional

equipment within 24 hours of breakdown;

c. Communications equipment;

S \square _____ N/A \square N/C \square

PART K CONTINUED LOCATION S □ N/A □ N/C □ d. Dust control methods; S \square _____ N/A \square N/C \square e. Fire protection capabilities and procedures for notifying local fire department authorities in emergencies; S \square N/A \square N/C \square f. Litter control devices; S \square _____ N/A \square N/C \square g. Signs indicating operating authority, traffic flow, hours of operation, and disposal restrictions; S \square _____ N/A \square N/C \square 12. Provide a description of all-weather access road, inside perimeter road, and other on-site roads necessary for access at the landfill; (62-701.500(12), FAC) S \square N/A \square N/C \square 13. Additional record keeping and reporting requirements; (62-701.500(13), FAC) S \square N/A \square N/C \square a. Records used for developing permit applications and supplemental information maintained for the design period of the landfill; S \square _____ N/A \square N/C \square b. Monitoring information, calibration and maintenance records, and copies of reports required by permit maintained for at least 10 years; S \square N/A \square N/C \square 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; S □ N/A □ N/C □ d. Procedures for archiving and retrieving records which are more than five years old; PART L. WATER QUALITY MONITORING REQUIREMENTS (62-701.510, FAC) **LOCATION** S \square N/A \square N/C \square 1. A water quality monitoring plan shall be submitted describing the proposed ground water and surface water monitoring systems, and shall meet at least the following requirements: S \square _____ N/A \square N/C \square a. Based on the information obtained in the hydrogeological investigation and signed, dated, and sealed by the P.G. or P.E. who prepared it; (62-701.510(2)(a), FAC)

LOCATION PART L CONTINUED S \square N/A \square N/C \square b. All sampling and analysis performed in accordance with Chapter 62-160, FAC; (62-701.510(2)(b), FAC) S □ N/A □ N/C □ c. Ground water monitoring requirements; (62-701.510(3), FAC) S \square N/A \square N/C \square Detection wells located downgradient from and within 50 feet (1) of disposal units; S \square N/A \square N/C \square (2)Downgradient compliance wells as required: S \square ______ N/A \square N/C \square (3)Background wells screened in all aquifers below the landfill that may be affected by the landfill; S \square _____ N/A \square N/C \square (4) Location information for each monitoring well; S \square _____ N/A \square N/C \square (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; S \square N/A \square N/C \square (6) Properly selected well screen locations; S \square _____ N/A \square N/C \square Monitoring wells constructed to provide representative (7) ground water samples; S \square _____ N/A \square N/C \square Procedures for properly abandoning monitoring wells; (8)S \square _____ N/A \square N/C \square (9)Detailed description of detection sensors, if proposed; S \square _____ N/A \square N/C \square d. Surface water monitoring requirements; (62-701.510(4), FAC) S \square _____ N/A \square N/C \square (1) Location of and justification for all proposed surface water monitoring points: S \square _____ N/A \square N/C \square (2)Each monitoring location to be marked and its position determined by a registered Florida land surveyor; S \square _____ N/A \square N/C \square e. Initial and routine sampling frequency and requirements; (62-701.510(5), FAC)

(1)

S □ N/A □ N/C □

Initial background ground water and surface water sampling

and analysis requirements:

LOCATION PART L CONTINUED S \square _____ N/A \square N/C \square (2) Routine monitoring well sampling and analysis requirements; S \square _____ N/A \square N/C \square (3)Routine surface water sampling and analysis requirements; S \square _____ N/A \square N/C \square f. Describe procedures for implementing evaluation monitoring, prevention measures, and corrective action as required; (62-701.510(6), FAC) S \square N/A \square N/C \square g. Water quality monitoring report requirements; (62-701.510(8), FAC) S \square _____ N/A \square N/C \square (1) Semi-annual report requirements; (see paragraphs 62-701.510(5)(c) and (d), FAC for sampling frequencies) S \square _____ N/A \square N/C \square (2) Documentation that the water quality data shall be provided to the Department in an electronic format consistent with requirements for importing into Department databases, unless an alternate form of submittal is specified in the permit: S \square _____ N/A \square N/C \square (3)Two and one-half year, or annual, report requirements, or every five years if in long-term care, signed dated, and sealed by P.G. or P.E.; PART M. **SPECIAL WASTE HANDLING REQUIREMENTS** (62-701.520, FAC) **LOCATION** S \square _____ N/A \square N/C \square 1. Describe procedures for managing motor vehicles; (62-701.520(1), FAC) S \square _____ N/A \square N/C \square 2. Describe procedures for landfilling shredded waste; (62-701.520(2), FAC) S \square _____ N/A \square N/C \square 3. Describe procedures for asbestos waste disposal; (62-701.520(3), FAC) S \square _____ N/A \square N/C \square 4. Describe procedures for disposal or management of contaminated soil; (62-701.520(4), FAC) S \square ____ N/A \square N/C \square 5. Describe procedures for disposal of biological wastes; (62-701.520(5), FAC)

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

	LOCATION		
s□ _		N/A □ N/C □	1. Provide documentation for a gas management system that will: (62-701.530(1), FAC)
s□_		N/A □ N/C □	a. Be designed to prevent concentrations of combustible gases from exceeding 25% the LEL in structures and 100% the LEL at the property boundary;
s□_		N/A □ N/C □	b. Be designed for site specific conditions;
s□_		N/A □ N/C □	c. Be designed to reduce gas pressure in the interior of the landfill;
s□_		N/A □ N/C □	d. Be designed to not interfere with the liner, leachate control system, or final cover;
s□_		N/A □ N/C □	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)
s□ _		N/A □ N/C □	3. Provide documentation describing how the gas remediation plan and odor remediation plan will be implemented; (62-701.530(3), FAC)
s□_		N/A □ N/C □	4. Landfill gas recovery facilities; (62-701.530(5), FAC)
s□_		N/A □ N/C □	a. Provide information required in Rules 62-701.320(7) and 62-701.330(3), FAC;
s□_		N/A □ N/C □	b. Provide information required in Rule 62-701.600(4), FAC, where relevant and practical;
s□_		N/A □ N/C □	c. Provide estimates of current and expected gas generation rates and description of condensate disposal methods;
s□_		N/A □ N/C □	d. Provide description of procedures for condensate sampling, analyzing, and data reporting;
s□_		N/A □ N/C □	e. Provide closure plan describing methods to control gas after recovery facility ceases operation, and any other requirements contained in Rule 62-701.400(10), FAC;

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

LOCATION S \square N/A \square N/C \square 1. Closure permit requirements; (62-701.600(2), FAC) S \square _____ N/A \square N/C \square a. Application submitted to the Department at least 90 days prior to final receipt of wastes: S \square _____ N/A \square N/C \square b. Closure plan shall include the following: S \square _____ N/A \square N/C \square (1) Closure design plan; S \square _____ N/A \square N/C \square (2)Closure operation plan; S \square _____ N/A \square N/C \square Plan for long-term care; (3)S \square _____ N/A \square N/C \square (4) A demonstration that proof of financial assurance for longterm care will be provided; S \square _____ N/A \square N/C \square 2. Closure design plan including the following requirements: (62-701.600(3), FAC) S \square _____ N/A \square N/C \square a. Plan sheet showing phases of site closing; S \square N/A \square N/C \square b. Drawings showing existing topography and proposed final grades; S \square _____ N/A \square N/C \square c. Provisions to close units when they reach approved design dimensions; S \square _____ N/A \square N/C \square d. Final elevations before settlement; S \square _____ N/A \square N/C \square e. Side slope design including benches, terraces, down slope drainage ways, energy dissipaters, and description of expected precipitation effects; S \square ____ N/A \square N/C \square f. Final cover installation plans including: S \square _____ N/A \square N/C \square (1) CQA plan for installing and testing final cover; S \square N/A \square N/C \square (2)Schedule for installing final cover after final receipt of waste; S \square _____ N/A \square N/C \square Description of drought resistant species to be used in the (3)vegetative cover;

PART O CONTINUED LOCATION S \square ____ N/A \square N/C \square (4) Top gradient design to maximize runoff and minimize erosion: S \square _____ N/A \square N/C \square Provisions for cover material to be used for final cover (5) maintenance: S \square _____ N/A \square N/C \square g. Final cover design requirements; S \square ______ N/A \square N/C \square (1) Protective soil layer design; S \square _____ N/A \square N/C \square Barrier soil layer design; (2)S \square _____ N/A \square N/C \square Erosion control vegetation; (3)S \square _____ N/A \square N/C \square (4) Geomembrane barrier layer design; S \square _____ N/A \square N/C \square Geosynthetic clay liner design, if used; (5)S \square _____ N/A \square N/C \square (6)Stability analysis of the cover system and the disposed waste: S □ N/A □ N/C □ h. Proposed method of stormwater control; S \square _____ N/A \square N/C \square i. Proposed method of access control; S \square _____ N/A \square N/C \square j. Description of the proposed or existing gas management system which complies with Rule 62-701.530, FAC; S \square _____ N/A \square N/C \square 3. Closure operation plan shall include: (62-701.600(4), FAC) S \square _____ N/A \square N/C \square a. Detailed description of actions which will be taken to close the landfill: S \square _____ N/A \square N/C \square b. Time schedule for completion of closing and long-term care; S \square _____ N/A \square N/C \square c. Describe proposed method for demonstrating financial assurance for long-term care; S \square _____ N/A \square N/C \square d. Operation of the water quality monitoring plan required in Rule 62-701.510, FAC;

S \square N/A \square N/C \square

e. Development and implementation of gas management system

required in Rule 62-701.530, FAC;

PART O CONTINUED LOCATION S \square N/A \square N/C \square 4. Certification of closure construction completion and final report including: (62-701.600(6), FAC) S \square _____ N/A \square N/C \square a. Survey monuments; (62-701.600(6)(a), FAC) S \square _____ N/A \square N/C \square b. Final survey report; (62-701.600(6)(b), FAC) S \square _____ N/A \square N/C \square 5. Declaration to the public; (62-701.600(7), FAC) S \square _____ N/A \square N/C \square 6. Official date of closing; (62-701.600(8), FAC) S \square _____ N/A \square N/C \square 7. Justification for and detailed description of procedures to be followed for temporary closure of the landfill, if desired; (62-701.600(9), FAC) PART P. OTHER CLOSURE PROCEDURES (62-701.610, FAC) **LOCATION** S \square _____ N/A \square N/C \square 1. Describe how the requirements for use of closed solid waste disposal areas will be achieved; (62-701.610(1), FAC) S \square _____ N/A \square N/C \square 2. Describe how the requirements for relocation of wastes will be achieved; (62-701.610(2), FAC) PART Q. **LONG-TERM CARE** (62-701.620, FAC) **LOCATION** S \square ______ N/A \square N/C \square 1. Maintaining the gas collection and monitoring system; (62-701.620(5), FAC) S \square _____ N/A \square N/C \square 2. Stabilization report requirements; (62-701.620(6), FAC) S \square _____ N/A \square N/C \square 3. Right of access; (62-701.620(7), FAC) S \square _____ N/A \square N/C \square 4. Requirements for replacement of monitoring devices; (62-701.620(8), FAC) S \square _____ N/A \square N/C \square 5. Completion of long-term care signed and sealed by professional engineer; (62-701.620(9), FAC)

PART R. FINANCIAL ASSURANCE (62-701.630, FAC)

	LOCATION		
s□		N/A □ N/C □	1. Provide cost estimates for closing, long-term care, and corrective action costs estimated by a P.E. for a third party performing the work, on a per unit basis, with the source of estimates indicated; (62-701.630(3) & (7), FAC)
s□		N/A □ N/C □	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)
s□		N/A N/C	3. Describe funding mechanisms for providing proof of financial assurance and include appropriate financial assurance forms. (62-701.630(5), (6), & (9) FAC)

PART S. CERTIFICATION BY APPLICANT AND ENGINEER OR PUBLIC OFFICER

is aware	that statements made in this form and attached informati
Protection, and certifies that the information in this his/her knowledge and belief. Further, the undersification of the Florida Statutes, and all rules and regulations of the	permit from the Florida Department of Environmental application is true, correct, and complete to the best of igned agrees to comply with the provisions of Chapter 40 the Department. It is understood that the Permit is not prior to the sale or legal transfer of the permitted facility.
Signature of Applicant or Agent	Mailing Address
Name and Title (please type)	City, State, Zip Code
E-Mail Address (if available)	() Telephone Number
	Date:
Attach letter of authorization if agent is not a gover	nment official, owner, or corporate officer.
Professional Engineer registered in Florida (or Pul 403.7075, Florida Statutes):	olic Officer if authorized under Sections 403.707 and
professional judgment, this facility, when properly	o engineering principles applicable to such facilities. In n maintained and operated, will comply with all applicable partment. It is agreed that the undersigned will provide t
	Mailing Address
Signature	
Signature Name and Title (please type)	City, State, Zip Code
	City, State, Zip Code E-Mail Address (if available)