



**Florida Department of Environmental Protection**  
 Division of Water Resource Management

## Biosolids Site Permit Application

- Type of Permit:**     New                                     Permit Renewal  
**Type of Issuance:**    Individual Permit             Part of WWTF (or BTF) Permit  
**Type of Site:**          Agricultural                         Reclamation

**I. General Information**

Enter the basic site, permittee, and contact information.

1. Site ID	FLA (enter the number if this is an existing site)						
Site Name							
Site Address							
City		State		Zip Code			
Latitude		Longitude					
Section		Township		Range		County	
Driving Directions to Site							
2. Site Permittee							
Legal Name							
Title							
Address							
City		State		Zip Code			
Phone		Fax					
Cell		Email					
Contact							
Title							
Phone		Fax					
Cell		Email					
3. Site Manager							
Address							
City		State		Zip Code			
Phone		Fax					
Cell		Email					
4. Land Owner							
Address							
City		State		Zip Code			
Phone		Fax					
Cell		Email					
5. Total Acreage of All Application Zones at Land Application Site							

## II. Site Information Checklist

Complete the checklist and attach documents, as indicated, to the permit application.

- Attach a County Section Aerial map; or a copy of such map, and other maps, indicating the boundaries of the site and delineating the boundary of each biosolids application zone. **The following shall be indicated on the maps:**
  - The identification number for each application zone. [62-640.500(4), F.A.C.]
  - Biosolids storage areas or storage facilities, if any, on the site. [62-640.700(6)(e), F.A.C.]
  - The property lines of the site and neighboring properties.
    - 75 feet setback from property lines for land application. [62-640.700(8)(b)2., F.A.C.]
    - One-quarter mile (1320 feet) setback from property lines for Class A and Class B surface-applied alkaline treated biosolids. [62-640.700(6)(b), F.A.C.]
  - Occupied buildings on the site or within ¼ mile of the site. [62-640.700(8)(a)4. and (b)1., F.A.C.]
    - 300 feet setback from buildings occupied by the general public (100 feet if biosolids are injected into the soil). [62-640.700(8)(b)1., F.A.C.]
    - 1320 feet setback from buildings occupied by the general public from any storage or stockpiling area. [62-640.700(8)(a)4., F.A.C.]
  - Water supply wells on the site or within 500 feet of the site. [62-640.700(8)(a)2., F.A.C.]
    - 300 feet setback from any private drinking water supply well or 500 feet setback from any public drinking water supply well. [62-640.700(8)(a)2., F.A.C.]
  - Surface waters on the site or within 1000 feet of the site. [62-640.700(8)(a)1., F.A.C.]
    - 1000 feet setback (setback area shall be vegetated) from Class I water bodies, Outstanding Florida Waters, or Outstanding National Resource Waters. [62-640.700(8)(a)1., F.A.C.]
    - 200 feet setback (setback area shall be vegetated) from any other surface water, including wetlands that are classified as waters of the state, except canals or bodies of water used for irrigation, which are located completely within the site and will not discharge from the site (100 feet if injected). [62-640.700(8)(a)1., F.A.C.]
  - 200 feet setback from any natural or man-made conduits that could allow direct contamination of ground water. [62-640.700(8)(a)3., F.A.C.]
  - Ground water monitoring locations, as applicable.
    - The locations of the piezometers or monitoring wells for monitoring the ground water table level if needed to demonstrate the minimum unsaturated soil depth of two feet required between the depth of biosolids placement and the water table level in accordance with subsection 62-640.700(10), F.A.C.
    - The locations of ground water monitoring wells for monitoring ground water quality (if applicable in accordance with paragraph 62-640.650(3)(c), F.A.C.).

- Frequently flooded areas from soil surveys or areas with soils with a flooding frequency class of "frequent" or "very frequent," or having a flooding duration class of "long" or "very long," as given in soil surveys and as defined by the Natural Resources Conservation Service (NRCS) in Section 618.27 of the *National Soil Survey Handbook*, as of October 2009. [62-640.700(11)(c), F.A.C.]
- Attach the proposed ground water monitoring plan (if applicable). [62-640.650(3)(c), F.A.C.]
- Attach a description of the biosolids storage, stockpiling, or staging that will be conducted onsite. [62-640.700(6)(e), F.A.C.]
- Verify that the site has fencing or other appropriate features to discourage the entry of animals and unauthorized persons from storage and staging areas. [62-640.700(6)(e)1.c., F.A.C.]
- Is site storage of biosolids for more than seven days being requested, yes or no? \_\_\_\_\_.  
If yes, attach documentation demonstrating that the requirements of subparagraph 62-640.700(6)(e)2., F.A.C., are met.
- Verify whether the seasonal high ground water level can be determined through Natural Resources Conservation Service maps or other documentation. A minimum unsaturated soil depth of two feet is required between the depth of biosolids placement and the water table level at the time Class A or Class B biosolids are applied to the soil. If the seasonal high ground water level is within two feet of the intended depth of biosolids placement or is undetermined at the time of permitting, the ground water level shall be determined in one or more representative locations in each application zone prior to each application of biosolids. [62-640.700(10), F.A.C.]
- Can the seasonal high ground water level be determined through Natural Resources Conservation Service maps or other documentation, yes or no? \_\_\_\_\_. If yes, attach maps or documentation.
- The intended depth of biosolids placement is \_\_\_\_\_ inches.
- Are there any application zones where the seasonal high ground water level will be within 2 feet of intended depth of biosolids placement, yes or no? \_\_\_\_\_.
- Using an appropriate map, such as a U.S. Geological Survey (USGS) topographic map, determine the slope of the application zones and attach documentation of the actual slope determination procedure or calculations used. Slopes shall not exceed eight percent. Slopes may be between three and eight percent if documentation is provided with the nutrient management plan (NMP) demonstrating that the runoff from a 10-year recurrence interval 1-hour duration storm event will be retained onsite or if the biosolids are injected or incorporated. [62-640.700(11)(b), F.A.C.]
- Verify that soil fertility testing will be conducted in accordance with the frequency identified in the NMP.
- Verify that most recent soil fertility testing results are included in the NMP in accordance with paragraph 62-640.500(5)(c), F.A.C. The soil testing results used to develop the NMP shall be less than one year old.
- Verify that the pH result of the soil fertility testing is greater than 5.0 in accordance with subsection 62-640.700(9), F.A.C.
- Attach documentation of the initial background soil monitoring of metals conducted in accordance with subparagraph 62-640.650(3)(b)2., F.A.C. (required only for new permits).
- Verify that provisions will be taken to comply with site recordkeeping requirements. [62-640.650(4), F.A.C.]
- Verify the site provisions for maintaining hauling records and sending receipts. [62-640.650(4)(d) & (g), F.A.C.]

- Attach a description of where copies of the site logs and records will be kept onsite and how to access them. [62-640.650(4)(j), F.A.C.]
- Verify that sites are posted with advisory signs in English and Spanish at entrances and at intervals of 500 feet for unfenced areas and the signs meet the requirements of paragraph 62-640.700(6)(f), F.A.C.
- Attach a description of the application techniques, methods and application equipment to be used at the site to ensure uniform application. [62-640.700(6)(a), F.A.C.]
- Spray guns shall not be used unless specifically authorized in the site permit. Are spray guns being requested, yes or no? \_\_\_\_\_.
- If the use of spray guns is being requested, include a demonstration of why spray guns are needed and how aerosols will be minimized in the description of the application methods and application equipment. [62-640.700(6)(d), F.A.C.]
- Attach the signed and prepared Nutrient Management Plan (for agricultural sites). [62-640.500(1), F.A.C.]**
- For reclamation sites, attach a description of the land reclamation project including the following (only applies to reclamation sites): [62-640.800), F.A.C.]
- Description of the circumstances that have caused damage to the land and resulted in the need to perform land reclamation. [62-640.800, F.A.C.]
  - Description of the existing condition of the land. [62-640.800, F.A.C.]
  - Description of how the use of biosolids on the site will be part of planned land reclamation activities. [62-640.800, F.A.C.]
  - Description of the grading to be performed (all site grading shall be completed before biosolids application begins). [62-640.800(4), F.A.C.]
  - Description of the method of incorporation into the soil that will be used. The applied biosolids shall be incorporated into the soil the same day as application, except for Class A biosolids. [62-640.800(2), F.A.C.]
  - Description of the type of vegetation to be established and the schedule for planting. Seed or turf-forming grass shall be planted as soon as possible, but in no case later than three months after the last application of residuals. [62-640.800(3), F.A.C.]
  - Description of the anticipated application quantity in dry tons per acre. The maximum allowable application quantity is 50 dry tons per acre with such application to be accomplished one time within a one-year period on any acre of the site. [62-640.800(1), F.A.C.]
- Include the permit application fee, as applicable. [62-640.300(3)(c), F.A.C.]**







## VI. Application Zones - NMP Summary

Enter the applicable nutrient information related to each application zone as established by the NMP. (Attach additional sheets as necessary to cover all application zones)

Zone ID	_____	Nutrient Information Based on NMP						
Year	Crop(s) to be grown on the application zone	Basis for Nutrient Budget (N or P)	Crop Demand N (PAN) from All Sources (lbs/ac)	Crop Demand P <sub>2</sub> O <sub>5</sub> from All Sources (lbs/ac)	Maximum Allowed PAN from Biosolids (lbs/ac)	Maximum Allowed P <sub>2</sub> O <sub>5</sub> from Biosolids (lbs/ac)	Maximum Allowed TN from Biosolids (lbs/ac)	Maximum Allowed TP from Biosolids (lbs/ac)
1								
2								
3								
4								
5								

Zone ID	_____	Nutrient Information Based on NMP						
Year	Crop(s) to be grown on the application zone	Basis for Nutrient Budget (N or P)	Crop Demand N (PAN) from All Sources (lbs/ac)	Crop Demand P <sub>2</sub> O <sub>5</sub> from All Sources (lbs/ac)	Maximum Allowed PAN from Biosolids (lbs/ac)	Maximum Allowed P <sub>2</sub> O <sub>5</sub> from Biosolids (lbs/ac)	Maximum Allowed TN from Biosolids (lbs/ac)	Maximum Allowed TP from Biosolids (lbs/ac)
1								
2								
3								
4								
5								

Zone ID	_____	Nutrient Information Based on NMP						
Year	Crop(s) to be grown on the application zone	Basis for Nutrient Budget (N or P)	Crop Demand N (PAN) from All Sources (lbs/ac)	Crop Demand P <sub>2</sub> O <sub>5</sub> from All Sources (lbs/ac)	Maximum Allowed PAN from Biosolids (lbs/ac)	Maximum Allowed P <sub>2</sub> O <sub>5</sub> from Biosolids (lbs/ac)	Maximum Allowed TN from Biosolids (lbs/ac)	Maximum Allowed TP from Biosolids (lbs/ac)
1								
2								
3								
4								
5								

(PAN = plant available nitrogen; P<sub>2</sub>O<sub>5</sub> = 2.3 x TP)



## VII. NMP Checklist

This checklist shall be completed for all sites by the site applicant's nutrient management planner or professional engineer who prepared the plan in accordance with Rule 62-640.500, F.A.C., to verify that the NMP addresses the rule requirements.

<input type="checkbox"/>	1. The NMP has been prepared in accordance with nutrient management standards and guidelines such as the USDA-NRCS-Florida Field Office Technical Guide – Nutrient Management, Code 590.
<input type="checkbox"/>	2. The NMP has been prepared and signed by a person certified by the NRCS for nutrient management planning or prepared, signed and sealed by a professional engineer licensed in the State of Florida.
<input type="checkbox"/>	3. The NMP identifies each application zone to be used at the site. The application zones shall be sized to facilitate accurate accounting of nutrient and pollutant loadings and shall comply with Rule 62-640.700, F.A.C., as applicable for the class(es) of biosolids that will be applied.
<input type="checkbox"/>	4. The NMP includes guidance for NMP implementation, site operation and maintenance, and recordkeeping.
<input type="checkbox"/>	5. The NMP includes aerial site photograph(s) or map(s), and a soil survey map of the site.
<input type="checkbox"/>	6. The NMP identifies the frequency of soil fertility testing. The interval shall be at least once every five years with consideration for more frequent testing if increases in soil phosphorus are expected.
<input type="checkbox"/>	7. The NMP includes results of soil, water, plant tissue, and biosolids analyses, as applicable.
<input type="checkbox"/>	8. The NMP establishes specific rates of application and procedures to land apply biosolids and all other nutrient sources to each application zone for each of the next five years, at a minimum. As part of establishing the application rates, the NMP includes:
<input type="checkbox"/>	a. A specific assessment of the potential for phosphorus movement from each application zone, such as the "Florida Phosphorus Index" identified in NRCS Code 590.
<input type="checkbox"/>	b. A listing and quantification of all nutrient sources to each application zone.
<input type="checkbox"/>	c. The availability of the nitrogen in the biosolids being applied, any nitrogen available from biosolids applications in previous years, and any nitrogen available in subsequent years.
<input type="checkbox"/>	d. The current and planned plant production sequence or crop rotation for each application zone for the next five years, at a minimum.
<input type="checkbox"/>	e. Realistic annual yield goals for each crop identified for each application zone.
<input type="checkbox"/>	f. The recommended nitrogen and phosphorus application rates (i.e., nutrient demand) for the crops to be grown on each application zone.
<input type="checkbox"/>	g. The calcium carbonate equivalency of any alkaline-treated biosolids and the recommended lime application rates for each application zone.
<input type="checkbox"/>	h. The method of land application for each application zone.
<input type="checkbox"/>	i. The methodology and calculations used to determine the application rates for each application zone.
<input type="checkbox"/>	9. For sites located in geographic areas subject to restrictions on phosphorus as required by subsection 62-640.500(7), F.A.C., the NMP, at a minimum, bases application rates on the phosphorus needs of the crops and addresses measures that will be used to minimize or prevent water quality impacts that could result from biosolids applications to surface waters.
<input type="checkbox"/>	10. For sites in the Lake Okeechobee, St. Lucie River, or Caloosahatchee River watersheds, the NMP shall include the demonstration required by subsection 62-640.400(11) or (12), F.A.C., as applicable.

**VIII. Land Owner Consent**

(I)(We), the undersigned, hereinafter referred to as "Landowner," being the owner(s) of the subject property of this site permit application, consent to the use of this property by the site permittee named in this permit application as a biosolids land application site. To the best of my (our) knowledge, the information provided in this permit application is accurate. (I)(We) have been provided a copy of Chapter 62-640, Florida Administrative Code, by the site permittee and understand its content. I understand that the requirements of Chapter 62-640, F.A.C., the information in this site permit application, and the site Nutrient Management Plan, must be followed and apply to all parties using this property and the use of biosolids on this property.

NAME OF LAND OWNER OR AUTHORIZED AGENT (Type or Print)	TELEPHONE NO.
SIGNATURE OF LAND OWNER OR AUTHORIZED AGENT	DATE (MM/DD/YY)

**IX. Site Permittee**

The site permittee certifies that he/she is familiar with and shall comply with the applicable requirements of Chapter 62-640, F.A.C.; shall only allow land application of biosolids that meet the general criteria for land application in Chapter 62-640, F.A.C., shall maintain the required records and logs for the site, and shall file an annual summary with the Department.

NAME OF SITE PERMITTEE OR AUTHORIZED AGENT (Type or Print)	TELEPHONE NO.
SIGNATURE OF SITE PERMITTEE OR AUTHORIZED AGENT	DATE (MM/DD/YY)