



APPLICATION FOR PERMIT TO OPERATE
A RESOURCE RECOVERY AND MANAGEMENT FACILITY
LIMITED TO LAKE FILL

A. General Information

- 1. Information requested in the attached Lake Fill Permit Application Guidelines (Guidelines) shall be submitted with a completed and signed application.
2. Applications received without the information requested in the Guidelines or review fee (see E below) will not be processed.
3. Solid waste cannot be stored or disposed on site without a permit from DERM.

B. Applicant Information (Note: Permit will be issued to this name)

Name: Title:

Mailing Address:

Telephone No.: Facsimile No.:

C. Owner Information

Name (if different from above):

Mailing Address:

Telephone No.: Facsimile No.:

D. Lake Fill Information

Location/Address:

Folio #:

Section Township Range

Size of Lake (acres): Average Lake Depth (ft):

Size of Lake Fill (acres): Average Land Elevation (ft-NGVD):

Average Post-fill Land Elevation (ft-NGVD):

Documentation that the applicant either owns the property or has legal authorization from the property owner to use the site for a Lake Fill shall be submitted with this application. A Warranty Deed is required to establish ownership. A certified copy of one of the following instruments, accompanied by an affidavit and Warranty Deed, is required to document legal authorization from the property owner to use the site for a Lake Fill: lease agreement, operating agreement, or contact.

**E. Application Fee**

Permit Application Fee: \$ 250.00

Check shall be made payable to “Miami-Dade County DERM.”

**F. Lake Fill Permit Fee**

If the application is approved by the PCD, an operating permit fee will be required prior to issuance of the permit. The annual permit fee shall be based on the following schedule:

<b>Operating Permits for Lake Fill</b>	
<10 acres	\$3,000
≥10 to ≤20 acres	\$6,500
For up to 9 additional acres	+ \$3,000
For up to 20 additional acres	+ \$6,500

The undersigned owner or authorized representative of \_\_\_\_\_ is fully aware that the statements made in this application for an operation permit are true, correct, and complete to the best of his/her knowledge and belief. Further, the undersigned agrees to maintain and operate the potential pollution source and pollution control facilities in such a manner as to comply with the aforementioned criteria, the provisions of Chapter 24, Miami-Dade County Code, and all applicable rules and regulations. He/She also understands that a permit, if granted by the Department, will be non-transferable and he/she will promptly notify the Department upon sale, change of location, or legal transfer of the permitted facility. He/She further understands that failure to comply with the above criteria, rules and regulations may result in suspension or revocation of the permit and obligation of site restoration.

\_\_\_\_\_  
Signature, Applicant

\_\_\_\_\_  
Signature, Owner/Authorized Representative

\_\_\_\_\_  
Typed Name and Title

\_\_\_\_\_  
Typed Name and Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Date

Sworn to and subscribed before me this \_\_\_\_\_ day of \_\_\_\_\_ 20\_\_\_\_.

\_\_\_\_\_  
Notary



## **LAKE FILL PERMIT APPLICATION GUIDELINES**

This document provides guidelines for preparing the lake fill permit application package and identifies additional reviews and approvals required (e.g., Water Control and Zoning). The application package shall be submitted to the Pollution Control Division (PCD) of the Department of Environmental Resources Management (DERM) for processing.

Be advised that lake fill material shall be limited to "clean fill" as defined in Chapter 24-5 of the Code of Miami-Dade County, Florida (Code): soil, rock, sand, earth, marl, clay, stone and/or concrete rubble (with no protruding steel). In addition, **lake fill operations shall not commence until a Lake Fill Permit is issued by the PCD.**

### **A. Application Package**

The permit application package shall include the following items (Be advised that the application will be returned if any of these items are missing):

1. A completed APPLICATION FOR PERMIT TO OPERATE A RESOURCE RECOVERY AND MANAGEMENT FACILITY LIMITED TO LAKE FILL (Lake Fill Permit Application).
2. The application review fee.
3. Proof of property ownership in the form of Warranty Deed and, if the applicant is not the owner, an affidavit of legal authorization from the property owner and a certified copy of the lease agreement, operating agreement or contract.
4. A copy of the zoning resolution and zoning permit (Certificate of Use). Refer to Section B for additional guidance.
5. Approval from the WCS of DERM or documentation that an application package has been submitted to the WCS (e.g., cover letter with WCS received date stamp), in accordance with the criteria set forth in Section C of this guidance.
6. A Baseline Assessment Report, in accordance with Section D of this guidance.
7. A Process Description and Routine Monitoring Plan, in accordance with Section E of this guidance.

Note: Approval from the Miami-Dade County Department of Solid Waste Management (DSWM) is also required before the permit can be issued. However, the PCD will be responsible for requesting approval from the DSWM. Therefore, no action is required by the applicant. If approved, any conditions associated with the DSWM's approval will be incorporated into the Lake Fill Permit issued by the PCD.

### **B. Zoning**

If the proposed lake fill is located in un-incorporated Miami-Dade County, zoning approval and Certificate of Use shall be obtained from the Miami-Dade Planning & Zoning Department. If the

proposed lake fill is located within a municipality, zoning approval (i.e., Zoning Resolution and Certificate of Use or equivalent) shall be obtained from the corresponding municipality.

### **C. DERM Water Control Section**

Approval from the WCS is required prior to approval of the lake fill permit application if:

1. There are any storm water outfalls into the existing lake or the lake serves as storm water retention or detention for any on-site or off-site areas, or
2. The lake fill area is greater than two (2) acres, or the percentage of the area to be filled is greater than 20% of the total existing lake area.

Note: To facilitate the process, the PCD recommends submitting the necessary information to the WCS prior to or concurrent with submittal of the permit application to PCD. As part of the review WCS may require an engineering study by the applicant to quantify flooding. For more information, please contact the WCS at 305 372-6681.

If the above conditions do not apply, review by the WCS is not required and final approval of the Lake Fill Permit Application shall be determined by the PCD.

### **D. Baseline Assessment Plan and Report**

A Baseline Assessment Plan addressing groundwater and surface water shall be submitted to the PCD for review and approval prior to implementing the baseline assessment. Note that if the intent is to permit the lake fill in phases (e.g., 10 acres at a time), then the baseline assessment may be proposed either by phase or for the entire lake fill. While the proposed number and location of groundwater and surface water sampling locations shall be determined by considering site-specific factors such as the size and configuration of the lake fill operation and site history, the baseline assessment plan shall include, at a minimum, the following:

1. Groundwater Assessment
  - a. Shallow groundwater monitoring wells shall be installed along each side of the lake fill at an interval not to exceed 500 feet between wells, but not less than one (1) well per lake fill side.
  - b. Shallow wells shall be located within 20 feet from the water's edge.
  - c. If the lake fill depth is greater than 20 feet, then deep (depth of lake fill) monitoring wells shall also be required.
  - d. The number of deep wells shall be one (1) for every two (2) shallow wells, but not less than one (1) per lake fill side. The deep wells shall be located in the immediate vicinity of the selected shallow wells (in cluster formation) with a screened interval appropriate for obtaining representative samples of the lake bottom interval.
  - e. The monitoring wells shall be sampled and analyzed for the groundwater Contaminants of Concern (COCs) listed in Table 1 of this guidance.

Note: For details regarding well construction and installation refer to the RBCA Guidance No. 7A, Monitoring Well Construction Guidance for Contaminated Sites Regulated by Section 24-11.1(2) of the Code.

## 2. Surface Water Assessment

- a. The number and location of the surface water sampling points shall be such that they provide adequate vertical and horizontal representation of the surface water quality prior to the filling activities.
- b. A minimum of two surface water-sampling points is required.
- c. At each surface water sampling location, a shallow (0-5 feet), a mid depth, and a deep (5 feet above the bottom) sample shall be collected and analyzed for the surface water COCs listed in Table 1 of this guidance.

## E. Process Description and Routine Monitoring Plan

### 1. Process Description Plan

The Process Description Plan shall include, at a minimum, the following:

- a. A reference to the corresponding zoning resolution and Certificate of Use or equivalent.
- b. A site plan that shows:
  - (1) Site boundaries (e.g., right-of-way, property line, boundary monuments, benchmarks, etc.),
  - (2) Site elevations and lake bottom elevations,
  - (3) Zoning approved lake fill boundaries,
  - (4) Existing lake boundaries,
  - (5) Access routes and access controls,
  - (6) Process flow,
  - (7) Dumping, storage and sorting areas,
  - (8) Jurisdictional wetlands and other water bodies on or within 200 feet of the lake (contact the Wetlands and Forest Resources Section of DERM at 305 372-6585 for information), and
  - (9) Storage setbacks. The following minimum setbacks are required
    - i. Waste storage and sorting areas: 50 feet from water's edge
    - ii. Storage containers for unacceptable waste: 200 feet from water's edge
- c. An aerial photograph, taken within one year preceding the date of the Lake Fill Permit Application, that depicts the lake fill and land use within one quarter (1/4) mile of the lake fill. The aerial photograph shall be of sufficient scale to show all homes or other structures, water bodies, roads, and other significant features. All significant features shall be labeled.
- d. The mechanism (e.g. spotters) to evaluate the incoming material stream to ensure acceptability for compliance with permit conditions, prior to accepting waste on site.
- e. The quantity of the waste per day, number of expected trucks per day, hours of operation, and method or sequence of filling.

- f. A description of the process for unacceptable waste storage and disposal. Note: material used for lake filling shall be limited to clean fill as defined in Chapter 24-3(120) of the Code: soil, rock, sand, earth, marl, clay, stone and/or concrete rubble (concrete with no protruding steel).
- g. A description of the floating debris barrier.
- h. A contingency plan to prevent nuisance conditions including, but not limited to, the generation of odors or fugitive dust conditions (e.g., material handling, truck traffic).
- i. A conceptual closure plan including a site plan, which depicts the closed lake fill area and property boundaries, and cross sections, which depict lake bottom, top of cover, toe and top of berms, and type and thickness of final cover material. Be advised that upon completion of the lake fill, a groundwater and surface water post-closure assessment plan shall be submitted to the PCD for approval. The plan shall duplicate the baseline assessment (see Section D. of this guidance), except that it shall be expanded, as warranted, based upon the specific operations of the lake fill (e.g., additional wells, surface water sampling locations, COCs, etc.).

Note: All drawings and maps shall include, at a minimum, a North arrow, title block, and scale. In addition, all drawings and surveys shall be signed and sealed by a Florida Professional Engineer (PE) and Professional Land Surveyor (PLS), accordingly, and be a minimum of 24-inch by 36-inch.

## 2. Routine (Semi-Annual) Monitoring Plan

The Routine Monitoring Plan shall be developed based on the results of the baseline assessment, the proposed lake fill operations, and the following:

- a. Groundwater - Groundwater from representative monitoring wells (approved by DERM) shall be sampled semi-annually for the COCs listed in Table 2 of this guidance as well as any additional COCs determined appropriate based upon the baseline assessment.
- b. Surface Water - A minimum of two (2) surface water-sampling locations shall be proposed for semi-annual surface water monitoring. The surface water sampling points shall be located equidistant along a line parallel to the longest edge, and within 50 feet, of the working face of the active lake fill operation. At each surface water sampling location, a shallow (0-5 feet), a mid depth, and a deep (5 feet above the bottom) sample shall be collected and analyzed for the surface water COCs listed in Table 2 of this guidance as well as any additional COCs determined appropriate based upon the results of the baseline assessment.

**Table 1**  
**Baseline and Post-Closure Assessment COCs**

	<b>Groundwater</b>	<b>Surface Water</b>
<i>Organics</i>		
EPA Method 8260	√	√
EPA Method 8270	√	√
TRPH	√	√
<i>Metals</i>		
Aluminum	√	√
Arsenic	√	√
Barium	√	√
Chromium	√	√
Iron	√	√
Lead	√	√
Mercury	√	√
<i>Other Inorganics</i>		
Ammonia (Total)	√	√
Ammonia (Unionized)		√
Chlorides	√	√
Nitrates	√	√
Sodium	√	√
Sulfates	√	√
Total Dissolved Solids	√	√
<i>Field Measurements</i>		
Dissolved oxygen	√	√
Conductivity	√	√
pH	√	√
Temperature	√	√
Turbidity	√	√

- 1) In addition to the COCs specified in Table 1, any other chemical identified as a COC during the operations of the lake fill shall be added to the post-closure assessment.
- 2) The analytical method used shall be capable of achieving the applicable cleanup target level, or the method with the best achievable detection limit shall be used. For more information, see the FDEP "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits".
- 3) All sampling, analysis, and reporting shall be performed in accordance with Chapter 62-160, FAC, Quality Assurance, and Section 24-44(2)(m) of the Code.
- 4) Lorna Bucknor of the PCD shall be notified in writing at least 3 days prior to sampling.

**Table 2**  
**Routine (Semi-Annual) Monitoring COCs**

	Groundwater	Surface Water
<i>Organics</i>		
Phenolic Compounds (via Method 604)	√	√
TRPH	√	√
<i>Metals</i>		
Aluminum	√	√
Arsenic	√	√
Chromium	√	√
Iron	√	√
Lead	√	√
<i>Other Inorganics</i>		
Ammonia (Total)	√	√
Ammonia (Unionized)		√
Sulfates	√	√
Total Dissolved Solids	√	√
<i>Field Measurements</i>		
Dissolved oxygen	√	√
Conductivity	√	√
PH	√	√
Temperature	√	√
Turbidity	√	√

- 1) In addition to the COCs specified in Table 2, any other chemical identified as a COC in the baseline assessment shall be added to the routine (semi-annual) monitoring.
- 2) The analytical method used shall be capable of achieving the applicable cleanup target level, or the method with the best achievable detection limit shall be used. For more information, see the FDEP "Guidance for the Selection of Analytical Methods and for the Evaluation of Practical Quantitation Limits".
- 3) All sampling, analysis, and reporting shall be performed in accordance with Chapter 62-160, FAC, Quality Assurance, and Section 24-44(2)(m) of the Code.
- 4) Lorna Bucknor of the PCD shall be notified in writing at least 3 days prior to sampling.