



Date Prepared/Revised
<b>DEP USE ONLY</b>
Date Received

## FORM F SOIL INFORMATION – PHASE I

This form must be fully and accurately completed. All required information must be typed or legibly printed in the spaces provided. If additional space is necessary, identify each attached sheet as Form F, reference the item number and identify the date prepared. The “date prepared/revised” on any attached sheets needs to match the “date prepared/revised” on this page.

General References: Sections 273.117, 277.117, 288.124, 289.124

### SECTION A. SITE IDENTIFIER

Applicant/permittee:

Site Name:

Facility ID (as issued by DEP):

### SECTION B. SOIL SERIES

List each soil series on and contiguous to the site. Attach soils map.

- Soil Series
1. \_\_\_\_\_
  2. \_\_\_\_\_
  3. \_\_\_\_\_
  4. \_\_\_\_\_
  5. \_\_\_\_\_

### SECTION C. SOIL DESCRIPTION

Attach the Form 2R or Form 2 map, which identifies the soil borrow areas on, and identify all pits, excavations, and sampling locations by number or letter.

1. Describe the depth, and the method used to determine the depth, of the seasonal high water table within the proposed permit area and adjacent area.
   
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2. Attach the laboratory particle size analyses and if required, to determine acceptability of soils for cover material, clay cap, attenuating soil base, and as liner system construction material. A representative sampling plan that will be used during facility construction and operation should be included. Identify on the map the excavation site for each analysis, if borrow area is located on-site or adjacent to the site.

**EXHIBIT**

**BLC 84**

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**SECTION C. SOIL DESCRIPTION (continued)**

3. Identify the Unified Soil Classification System description of the soils to be used for the following purposes.

- Subbase \_\_\_\_\_
- Clay liner \_\_\_\_\_
- Leachate detection zone \_\_\_\_\_
- Protective cover \_\_\_\_\_
- Clay cap \_\_\_\_\_
- Final cover drainage layer \_\_\_\_\_
- Other \_\_\_\_\_

Attach testing results to support the classifications.

4. Identify the United States Department of Agriculture Soil Classification System description of the soils to be used for the following purposes. Include the percentage of fragments retained on the 2 mm No. 10 sieve and the particle size distribution for particles passing the 2 mm, No. 10 sieve (% sand, % silt, % clay) for each soil use.

- Intermediate cover \_\_\_\_\_
- Final cover \_\_\_\_\_
- Attenuating soil base\* \_\_\_\_\_
- For attenuating soil base, describe the combustible coal content, cation exchange capacity and organic carbon content. \_\_\_\_\_
- Other \_\_\_\_\_

\*Natural attenuation is an option for Class III and expansion of existing construction/demolition landfills only. If natural attenuation is proposed, explain in detail how the constituents of the waste will have no potential for surface or groundwater pollution.

5. Are the cover soils combustible?  Yes  No If yes, explain. \_\_\_\_\_

6. Identify the diameter in inches of the largest rock fragments within each borrow area for soils to be used for the following purposes.

- Subbase \_\_\_\_\_
- Clay liner \_\_\_\_\_
- Leachate detection zone \_\_\_\_\_
- Protective cover \_\_\_\_\_
- Daily cover \_\_\_\_\_
- Intermediate cover \_\_\_\_\_
- Final cover \_\_\_\_\_
- Final cover drainage layer \_\_\_\_\_
- Clay cap \_\_\_\_\_
- Attenuating soil base \_\_\_\_\_
- Other \_\_\_\_\_

**SECTION C. SOIL DESCRIPTION (continued)**

7. Identify the volume (cubic yards) of soil required for each construction purpose and quality control procedures.

Subbase \_\_\_\_\_

Clay liner \_\_\_\_\_

Leachate detection zone \_\_\_\_\_

Protective cover \_\_\_\_\_

Daily cap \_\_\_\_\_

Daily cover \_\_\_\_\_

Intermediate cover \_\_\_\_\_

Final cover \_\_\_\_\_

Final cover drainage layer \_\_\_\_\_

Attenuating soil base \_\_\_\_\_

Other \_\_\_\_\_

Attach plans and calculations to verify the volumes required.

8. Describe soils to be used for daily cover and how they will meet the performance standards for daily cover.

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9. For attenuating soil base.

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