North Carolina Division of Waste Management

UST-70 Non-Discharge Permit Application for Soil Remediation Projects

Page 1 of 11

THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL.
PLEASE PRINT CLEARLY - OR TYPE - ALL INFORMATION.
SUBMIT THE ORIGINAL AND ONE COPY OF ALL DOCUMENTS INCLUDING THIS FORM.

Date of Application: __________________ Application No. (to be completed by DWM): ________________
Application Fee Submitted: $ _____________.

I. GENERAL INFORMATION:
1. Applicant (corporation, individual or other): ________________________________________________
2. Facility Owner or Signing Official's Name and Title (the person legally responsible for the facility and its compliance): ________________________________________________
3. Mailing Address of Applicant: ___________________________________________________________
   ___________________________________________________________________________________
   City: ____________________________________ State: ______________ Zip: ____________
   Telephone No.: (____) _____________________________
4. Is the applicant a public _____ or private _____ entity?
5. County where land application site or facility is located: ______________________________________
6. Project Name (Specify the name of the facility or site proposed for remediation, treatment, or storage of soil): ________________________________________________________________________________
7. Facility Address: ______________________________________________________________________

II. PERMIT INFORMATION:
1. Specify whether project is: _____new; _____renewal; _____modification.
2. If this application is being submitted as a result of a renewal or modification to an existing permit, list the existing permit number ____________ and issuance date ______________
3. Does the applicant possess other permits for storage, treatment, or disposal of contaminated soil? If yes, please list the permit numbers: ___________________________________________________________
4. What type of soil remediation permit is being requested? Please attach the appropriate Soil Remediation Projects Attachment Form (see below).
   a. ___Land Application at Minimum Rate (i.e., less than or equal to 1 inch thickness).
      Use ATTACHMENT I.
   b. ___Land Application at Conventional Rates (i.e., greater than 1 inch but less than or equal to 4 inches).
      Use ATTACHMENT I.
   c. ___Containment and Treatment Facility (includes bioremediation or composting in enclosed or open structures). Use ATTACHMENT II.
d. ___ Storage/Utilization at Production Facility (i.e., brick/asphalt production facility). Use ATTACHMENT II.

e. ___ Incineration or other Thermal Destruction or Consumption Facility. Use ATTACHMENT III.

   ___ Stationary Facility   ___ Mobile Facility

5. Is the facility to be permitted considered a "Dedicated Facility"? ____ Yes ____ No

   [NOTE: A "Dedicated Facility" is defined as a facility or land application site that is designed to receive contaminated soil on a repetitive basis, and may include conventional rate land application, production facility storage or containment and treatment methodologies.]

6. Is a copy of the notice (for land application) that the applicant intends to apply for a land application permit attached? Has evidence that the notice was sent to each city and county government having jurisdiction over the land on which treatment is proposed been provided? (General Statute 143-215.1 (d) (2))

III. CONTAMINATED SOIL INFORMATION (Not applicable to multiple-source facilities and mobile incineration units, which will be listed on a case-by-case basis.)

1. For the source of contaminated soil that is a part of this project, list the following information for each:

<table>
<thead>
<tr>
<th>Site where soil originated</th>
<th>Incident No. (if known)</th>
<th>Volume of Soil (in cubic yards)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

2. List the contaminants found in the contaminated soil: ________________________________________________

________________________________________________________________________________________

________________________________________________________________________________________

3. Describe the type/nature of the contaminants (virgin petroleum product, non-virgin petroleum product, UST release, spill, etc.): ________________________________________________

Will a TCLP analysis be required pursuant to the Soil Remediation Permitting Guidelines, North Carolina Underground Storage Tank Section? ____ YES ____ NO. If yes, please attach a copy of all TCLP analyses.
4. Has the contaminated soil been excavated and is it temporarily being stored? _____ YES _____ NO.
   If yes, is the contaminated soil stored on the site of origin (Y/N) _____?
   If soil is being stored at another location, give the location, county, and any applicable permit number
   associated with the offsite storage: __________________________________________________________
   ____________________________________________________________________________
   ____________________________________________________________________________

5. Describe the proposed method of transportation of contaminated soil from the site of origin to the final
   application and/or disposal site: __________________________________________________________
   ____________________________________________________________________________
   ____________________________________________________________________________
   ____________________________________________________________________________

6. Please list the range of concentrations of volatile and semi-volatile hydrocarbons and Total Petroleum
   Hydrocarbons (TPH) below for each source of contaminated soil (not applicable to dedicated facilities):

   What analytical methods were used? _________________________.

   **ATTACH COPIES OF ALL LABORATORY ANALYSES**

<table>
<thead>
<tr>
<th>Source of Contaminated Soil (As listed in question III.1)</th>
<th>Concentration (ppm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>a.</td>
<td></td>
</tr>
<tr>
<td>b.</td>
<td></td>
</tr>
<tr>
<td>c.</td>
<td></td>
</tr>
<tr>
<td>d.</td>
<td></td>
</tr>
</tbody>
</table>

   *Additional sources may be listed as an attachment to this application form.*
IV. DESIGN ENGINEER'S INFORMATION:

All applications for treatment and storage of petroleum-contaminated soil, except projects proposing land application of contaminated soil, when no storage units are being proposed and no treatment of the material is being proposed other than that provided by the soil and exposure to the atmosphere, shall be signed and sealed by a professional engineer registered in this state.

1. Name and Complete Address of Engineering Firm: __________________________________________
   ____________________________________________________________________________________
   ____________________________________________________________________________________

2. Print Name of Design Engineer: _________________________________________________________

3. North Carolina Professional Engineer Registration Number: _________________________________

PROFESSIONAL ENGINEER'S CERTIFICATION:

I, ____________________________________________ attest that this application for __________________
   ____________________________________________________________________________________
   ____________________________________________ has been reviewed by me and is accurate and complete to the best of my knowledge. I further attest that, to the best of my knowledge, the proposed design has been prepared in accordance with the applicable regulations and guidelines. Although certain portions of this submittal package may have been developed by other professionals, inclusion of these materials under my signature and seal signifies that I have reviewed this material and have judged it to be consistent with the proposed design.

North Carolina Professional Engineer's Registration No. _______________________________________

Print Name of Engineer: __________________________________________________________________

Seal and Signature (specify date)

THIS APPLICATION PACKAGE WILL NOT BE ACCEPTED BY THE DIVISION OF WASTE MANAGEMENT UNLESS ALL OF THE APPLICABLE ITEMS REQUIRED BY RULES ARE INCLUDED WITH THE PROJECT SUBMITTAL.
Required Items

a) One original and one copy of the completed and appropriately executed application form.

b) The appropriate permit processing fee. (Check with permit writer for current fees)

c) Two sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer excluding projects proposing land application of contaminated soil, when no storage units are being proposed and no treatment of the material is being proposed other than that provided by the soil and exposure to the atmosphere. The plans must include a general location map; topographic map; a site map which indicates where soil borings were advanced; a map showing the application site or treatment/storage facility; buffers; all property lines; wells; surface water bodies and drainage features; and detailed plans of all treatment units, leachate collection and treatment, and soil handling equipment. Each sheet of the plans and the first page of the specifications must be signed and sealed.

For a site map if required by G.S. 89C, a professional land surveyor shall provide location information on boundaries and physical features not under the purview of other licensed professions. A scaled map of the site with a horizontal scale of one inch equals 100 feet or less and topographic contour intervals not exceeding 10 feet or 25 percent of total site relief, whichever is less and including the following: The North Carolina Board of Examiners for Engineers and Surveyors has determined, via letter dated December 1, 2005, that locating boundaries and physical features, not under the purview of other licensed professions, on maps pursuant to this Paragraph constitutes practicing surveying under G.S. 89C.

d) Two copies of any of the following items applicable to the treatment/storage alternative must be submitted as a part of the signed and sealed supporting documents:
1. All attachments associated with the proposed remediation alternative;
2. Analytical data to confirm the levels of contamination in the soil, per the “UST Section Guidelines for Sampling,” current edition;
3. Calculations associated with the treatment method demonstrating the proposed remediation system will remediate the contaminated soil;
4. A report (prepared and signed by a soil scientist licensed by the State of North Carolina) of the native soil which describes the texture, color, structure, restrictive horizons (if any), seasonal high water table, hydraulic conductivities, etc.; and
5. Epidemiological information for any additives used to enhance remediation of contaminated soil. This information may include documented approval received from other governing agencies.

Although certain documentation is developed by other professionals, inclusion of these materials under the signature and seal of a North Carolina Professional Engineer signifies that he or she has reviewed this material and has judged it to be consistent with the proposed design.

e) Two copies of the existing permit for renewals or modifications of an existing permit.

f) A permit application for the treatment of petroleum-contaminated soil by land application cannot be accepted unless it is accompanied by a copy of a notice and evidence that the notice was sent to each city and county government having jurisdiction over the land on which treatment is proposed. This notice shall state in writing in accordance with General Statute 143-215.1 (d) (2), that the applicant intends to apply for a land application permit.

APPLICANT'S CERTIFICATION:

I, ________________________________, attest that this application has been reviewed by me and is accurate and complete to the best of my knowledge. I understand that if all required parts of this application are not completed and that if all required supporting information and attachments are not included, this application will be returned as incomplete.

Signature __________________________________________ Date _________________
THE COMPLETED APPLICATION PACKAGE, INCLUDING ALL SUPPORTING INFORMATION AND MATERIALS, SHOULD BE SENT TO THE APPROPRIATE REGIONAL OFFICE AS SHOWN IN FIGURE 1 OF THE GUIDELINES. (ALL APPLICATIONS FOR FACILITIES INVOLVING MOBILE THERMAL DESTRUCTION OR CONSUMPTION SHOULD BE SUBMITTED TO THE: UST SECTION, 1637 MAIL SERVICE CENTER, RALEIGH, NC 27699-1637.)
SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT I.
DESIGN INFORMATION FOR LAND APPLICATION SYSTEMS:

Land Application:  _____ Minimum Rate  _____ Conventional Rate

1. Slope of the site: ________%.
2. Predominant Soil Series Name(s): ____________________________________ (from soil borings or SCS maps).
3. Depth to any seasonal high water table ________ feet below land surface.
   Depth to the static water table ________ feet below land surface.
   Depth to bedrock or saprolite ________ feet below land surface (if less than 20 feet).
   How was this information obtained and what sources were used? ________________________________
   ______________________________________________________________________________________

4. Size of land application area: __________________ square feet or acres (circle one).
   Thickness of contaminated soil application: ____________ inches (not to exceed four inches).
5. Type of fertilizers added and amount:
   Type __________________________________  Amount _______________ pounds.
6. Amount of lime to be added: _________________________ pounds per acre.
7. Type of vegetative cover to be established: ________________________________________________.
8. Are other contaminated soil application sites contiguous to the subject land application site? ___YES  ___NO.
   NOTE: If more than one contiguous acre of land is utilized, documentation must be provided which verifies that the applicant is working with the appropriate regional engineer of the Division of Land Resources on an erosion control plan.

9. The land application site must conform to the following buffers:
   Any habitable residence or place of public assembly under separate ownership or not to
   be maintained as part of the project site 100
   Any well with the exception of a Division approved groundwater monitoring well 100
   Surface waters (streams – intermittent and perennial, perennial water bodies, and wetlands) 100
   Surface water diversions (ephemeral streams, waterways, ditches) 25
   Groundwater lowering ditches (where the bottom of the ditch intersects the SHWT) 25
   Subsurface groundwater lowering drainage systems 25
   Any building foundation except treatment facilities 15
   Any basement 15
   Any property line 50
   Any water line 10
   Any swimming pool 100
   Rock outcrops 25
   Public right-of-way 50
   10 feet of area shall be maintained around the disposal area with a permanent grass cover to be included within any of the existing buffers

   NOTE: If applicable, the Compliance boundary requirements are specified by regulations in 15A NCAC 2L, Groundwater Classifications and Standards.
10. If any of the buffers specified above are not being met, please explain how the proposed buffers will provide equal or better protection of the waters of the state with no increased potential for nuisance conditions. 
________________________________________________________________________________________
________________________________________________________________________________________
________________________________________________________________________________________

11. The land application of contaminated soil in watersheds classified as WS-I is prohibited. Specify the name and classification of the closest down slope surface waters (as established by the Environmental Management Commission) to the land application site.  
________________________________________________________________________________________

NOTE: A permit application for the treatment of petroleum-contaminated soil by land application cannot be accepted unless it is accompanied by a copy of a notice and evidence that the notice was sent to each city and county government having jurisdiction over the land or which treatment is proposed. This notice shall state in writing, in accordance with General Statute 143-215.1 (d) (2), that the applicant intends to apply for a land application permit.

12. APPLICANT'S SIGNATURE: _________________________________ DATE ____________
SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT II.
DESIGN INFORMATION FOR CONTAINMENT AND TREATMENT (OF ANY KIND) AND STORAGE/UTILIZATION AT PRODUCTION FACILITIES:

Please check as appropriate:  ____ Containment and Treatment  ____ Storage/Utilization at Production Facilities

1. Fully describe the proposed containment/treatment/storage facilities including pertinent design considerations.
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________

2. Fully describe the liner system used in the design, including type of liner, thickness and permeability.
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________

3. Fully describe any cover or roof on the facility (if applicable).
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________

4. Is a leachate expected from the proposed design?  ____ YES  ____ NO. If yes, describe the proposed methods of leachate collection, treatment, final disposal and contingency plans in case of spillage.
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________
   _________________________________________________________________________________________

5. Does the treatment of contaminated soil include the incorporation of any additives (bulking agents, nutrient fertilizers, pH adjustment materials, microbiological cultures, etc.)?  ____YES  ____NO. If yes, fully describe each additive. _____________________________________________

_________________________________________________________________________________________

_________________________________________________________________________________________

_________________________________________________________________________________________

_________________________________________________________________________________________

NOTE: An epidemiological assessment and approval of any or all additives used in the remediation process may be required.

6. Are the soils being treated/stored in an enclosed structure (a structure with an impermeable floor, complete roof and sidewalls)?  ____YES  ____NO. If yes, the Division of Air Quality may require permitting of the facility. Is an air quality permit required for this facility?  ____YES  ____NO. The applicant must contact the appropriate Regional Air Quality Supervisor to make this determination.

7. The soil remediation facility must conform to the following buffers:

   Any habitable residence or place of public assembly under separate ownership or not to be maintained as part of the project site 100
   Any well with the exception of a Division approved groundwater monitoring well 100
   Surface waters (streams – intermittent and perennial, perennial water bodies, and wetlands) 100
   Surface water diversions (ephemeral streams, waterways, ditches) 25
   Groundwater lowering ditches (where the bottom of the ditch intersects the SHWT) 25
   Subsurface groundwater lowering drainage systems 25
   Any building foundation except treatment facilities 15
   Any basement 15
   Any property line 50
   Any water line 10
   Any swimming pool 100
   Rock outcrops 25
   Public right-of-way 50

8. If any of the buffers specified above are not being met, please explain how the proposed buffers will provide equal or better protection of the waters of the State with no increased potential for nuisance conditions. _____________________________________________

_________________________________________________________________________________________

9. For containment and treatment permit applications, please describe the method and location for the disposal of the soil once remediated (i.e., future use). _____________________________________________

_________________________________________________________________________________________

10. APPLICANT'S SIGNATURE: _______________________________ DATE _________________

11. ENGINEER'S SIGNATURE AND SEAL: _______________________________ DATE _______________
SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT III.
DESIGN INFORMATION FOR INCINERATION OR OTHER THERMAL DESTRUCTION OR CONSUMPTION FACILITIES

1. Type of facility:   ____Stationary Facility   ____Mobile Unit

2. Fully describe the proposed treatment system including design considerations, any storage of soil before and after treatment, and proposed treatment levels.

   __________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________

3. Describe any measures taken to eliminate exposure to the weather and any measures to collect, treat and dispose of leachate, and contingency plans for spillage.

   __________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________

4. For stationary facilities: Describe the site conditions, including: native soil; surface drainage features; proximity to property lines, wells, or surface waters; slope; depth to groundwater and seasonal high water table; and any other site conditions that may be affected by the proposed remediation facilities.

   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________
   ________________________________________________________________________________________

5. Will the facility require the _____issuance of an air quality permit or _____registration of the facility? The Division of Air Quality must be contacted to make this determination. If a permit is required, has an application been submitted for the proposed remediation project? ____YES ____NO Please list permit application number or permit issuance number as appropriate.

   ________________________________________________________________________________________
6. The remediation facility must conform to the following buffers:

- Any habitable residence or place of public assembly under separate ownership or not to be maintained as part of the project site: 100
- Any well with the exception of a Division approved groundwater monitoring well: 100
- Surface waters (streams – intermittent and perennial, perennial water bodies, and wetlands): 100
- Surface water diversions (ephemeral streams, waterways, ditches): 25
- Groundwater lowering ditches (where the bottom of the ditch intersects the SHWT): 25
- Subsurface groundwater lowering drainage systems: 25
- Any building foundation except treatment facilities: 15
- Any basement: 15
- Any property line: 50
- Any water line: 10
- Any swimming pool: 100
- Rock outcrops: 25
- Public right-of-way: 50

7. If any of the buffers specified above can not be met, please explain how the proposed buffers will provide equal or better protection of the waters of the State with no increased potential for nuisance conditions.

_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________
_______________________________________________________________________________________

NOTE: Mobile facilities will also require the issuance of a Certificate of Approval by the appropriate regional office for each site to be remediated.

8. APPLICANT'S SIGNATURE: _______________________________ DATE _______________

9. ENGINEER'S SIGNATURE AND SEAL: _______________________________ DATE _______________