

North Carolina Division of Waste Management

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

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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.**

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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:

	Site where soil originated	Incident No. <u>(if known)</u>	Volume of Soil <u>(in cubic yards)</u>
a.			
b.			
c.			

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.

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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: \_\_\_\_\_

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

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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***

	Source of Contaminated Soil (As listed in question III.1)	Concentration (ppm)
a.		
b.		
c.		
d.		

**Additional sources may be listed as an attachment to this application form.**

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**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.**

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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.)***

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**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.**

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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. \_\_\_\_\_

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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. \_\_\_\_\_

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**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.

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

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

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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.

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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. \_\_\_\_\_

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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.

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**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 \_\_\_\_\_