UST-70

North Carolina Division of Waste Management

NON-DISCHARGE PERMIT APPLICATION FOR SOIL REMEDIATION PROJECTS

THIS FORM MAY BE PHOTOCOPIED FOR USE AS AN ORIGINAL

PLEASE PRINT CLEARLY - OR TYPE - ALL INFORMATION

SUBMIT THE ORIGINAL AND 1 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. Print 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. Project Name (Specify the name of the facility or site proposed for remediation, treatment, or storage of soil): _____
6. Facility Address: _____
7. County where soil remediation site or facility is located: _____

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

f. ___ Other treatment/disposal alternative. Fully describe the type of alternative treatment or disposal:

_____

_____

_____

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].

III. <u>CONTAMINATED SOIL INFORMATION</u> *(Dedicated facilities and mobile incineration unit must maintain this information separately for each source)*

1. List the contaminants found in the contaminated soil: _____

_____

_____

2. 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 <u>Guidelines for Assessment and Corrective Action, North Carolina Underground Storage Tank Section</u>? ____ YES ____ NO. If yes, please attach a copy of all TCLP analyses.

3. 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: _____

_____

_____

4. Describe the proposed method of transportation of contaminated soil from the site of origin to the final disposal site: _____

_____

_____

5. For each source of contaminated soil that is a part of this project, list the following information for each, including the highest results from each source for individual analytes and either Total Petroleum Hydrocarbons (TPH) or Aliphatic and Aromatic Hydrocarbon Ranges.

	Incident No. (if known)	Site where soil originated	Volume of Soil (cubic yards)	Analytical Methods	Contaminant Concentration mg/kg (ppm)
a.					
b.					
c.					
d.					

<u>Additional sources and results may be listed as an attachment to this application form.</u>

ATTACH COPIES OF ALL LABORATORY ANALYSES

V. DESIGN ENGINEER'S INFORMATION:

All applications for treatment, storage, and disposal of petroleum-contaminated soil, *except land application of soil and associated activities as defined by 15A NCAC 2H .0205(d)(1)(A)(iii)(II)* ***[i.e., 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, with or without the addition of nutrients or the mechanical tilling of the soil]*** 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 MANAGMENT 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, as specified below:
   1. $400 for new applications, modifications, or late renewals,
   2. $200 for timely renewals without modifications, and
   3. $100 for permittee name changes only.

c) Two sets of detailed plans and specifications signed and sealed by a North Carolina Professional Engineer [excluding projects listed in 15A NCAC 2H .0205(d)(1)(A)(iii)(II), i.e., 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, with or without the addition of nutrients or the mechanical tilling of the soil]. 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, or disposal 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. Unless excluded above, each sheet of the plans and the first page of the specifications must be signed and sealed.

d) Two copies of any of the following items applicable to the treatment, storage, or disposal 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 Guidelines for Assessment and Corrective Action, North Carolina Underground Storage Tank Section,
   3. Calculations associated with the treatment and disposal method demonstrating the proposed remediation system will remediate the contaminated soil,
   4. A soil evaluation report of the disposal area **prepared and signed by a soil scientist licensed by the State of North Carolina** (required for Soil Remediation at Conventional Rates and Bioremediation and volatilization on impermeable surfaces). The report shall include, but is not limited to texture, color, structure, restrictive horizons (if any), depth to seasonal high water table, for further requirements see 2H .0205(d)(12).
   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 disposal 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 disposal 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. (Note: Mobile systems must obtain permits from each Region where operated.)

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 4 inches).
5. Type of fertilizers added and amount (as determined by the soil scientist):

   Type = _____ Amount = _____ pounds
6. Amount of lime to be added: _____ pounds per acre
7. Type of vegetative cover to be established:_____
8. Will a storage unit be utilized: _____ YES _____ NO.
9. Are other contaminated soil disposal 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.

10. The land application site must conform to the following buffers:

    a) 100 feet from any habitable residence under separate ownership or to be sold;

    b) 100 feet between the disposal area and any public or private water supply, including wells;

    c) 100 feet between the disposal area and waters classified as WS-II, WS-III, or B;

    d) 100 feet between the disposal area and the normal high water levels of waters classified as SA or SB;

    e) 100 feet between the disposal area and any stream, lake, river, or natural drainage way;

    f) 50 feet between the disposal area and property lines;

    g) 10 feet between the disposal area and any surface water interceptor drains or diversions (upslope); and

    h) 25 feet between the disposal area and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems.

    i) 10 feet of area shall be maintained around the disposal area with a permanent vegetative cover to be included within any of the existing buffers.

SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT I.
(continued)

DESIGN INFORMATION FOR LAND APPLICATION SYSTEMS:

11. 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: _____
_____
_____
_____

12. ***The land application of contaminated soil in watersheds classified as WS-I is prohibited.*** Specify the name and classification of the closest downslope surface waters (as established by the Environmental Management Commission) to the land application site: _____

NOTE: A permit application for the disposal 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 disposal 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.

13. APPLICANT'S SIGNATURE: _____ DATE _____

14. ENGINEER'S SIGNATURE AND SEAL (If Applicable): _____ 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.

SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT II.

(Continued)

DESIGN INFORMATION FOR CONTAINMENT AND TREATMENT (of any kind) AND STORAGE/UTILIZATION AT PRODUCTION FACILITIES:

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:
   a) 100 feet from any habitable residence under separate ownership or to be sold;
   b) 100 feet between the facility and any public or private water supply, including wells;
   c) 100 feet between the facility and waters classified as WS-II, WS-III, or B;
   d) 100 feet between the facility and the normal high water levels of waters classified as SA or SB;
   e) 100 feet between the facility and any stream, lake, river, or natural drainage way;
   f) 50 feet between the facility and property lines;
   g) 10 feet between the facility and any surface water interceptor drains or diversions (upslope); and
   h) 25 feet between the facility and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems.
   i) 10 feet of area shall be maintained around the disposal area with a permanent vegetative cover to be included within any of the existing buffers.

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: _____

SOIL REMEDIATION PROJECTS APPLICATION FORM -- ATTACHMENT III.

(Continued)

DESIGN INFORMATION FOR INCINERATION OR OTHER THERMAL DESTRUCTION OR CONSUMPTION FACILITIES:

6. The remediation facility must conform to the following buffers:
   a) 100 feet from any habitable residence under separate ownership or to be sold;
   b) 100 feet between the facility and any public or private water supply, including wells;
   c) 100 feet between the facility and waters classified as WS-II, WS-III, or B;
   d) 100 feet between the facility and the normal high water levels of waters classified as SA or SB;
   e) 100 feet between the facility and any stream, lake, river, or natural drainage way;
   f) 50 feet between the facility and property lines;
   g) 10 feet between the facility and any surface water interceptor drains or diversions (upslope); and
   h) 25 feet between the facility and any surface water interceptor drains or diversions (downslope) and any groundwater drainage systems.

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 _____