

15A NCAC 02T .1505 DESIGN CRITERIA

(a) Land Application of Soils Containing Petroleum Products at Minimum Rates. Petroleum-contaminated soils shall be incorporated into the native soils of the receiver site immediately upon application. Subsequent application of petroleum-contaminated soils onto the same receiver site shall not occur for at least 18 months from the date of the most recent application of petroleum-contaminated soils and shall cause the receiver site to be reclassified as a "dedicated site" unless the permittee or applicant can demonstrate, through soil sampling and contaminant analytical procedures pursuant to 15A NCAC 02H .0800, that the petroleum contaminant level in the upper eight inches of the receiver site soils is below either the soil-to-groundwater contaminant concentrations or the residential maximum soil contaminant concentrations established by the Department pursuant to 15A NCAC 02L .0411, whichever is lower.

(b) Land Application of Soil Containing Petroleum Products at Conventional Rates. Land application of soils containing petroleum products at an application thickness greater than one inch shall require fertilization, liming, and aeration of the mixture of native and petroleum-contaminated soils. Application thickness shall be based upon the nature of the receiver site soils, depth to the seasonal high water table, the intended cover crop, and the source of contamination. Operation of the land application program shall not result in contravention of groundwater or surface water standards. Subsequent application of petroleum-contaminated soils onto the same receiver site shall not occur for at least 18 months from the date of the most recent application of petroleum-contaminated soils and shall cause the receiver site to be reclassified as a "dedicated site" unless the permittee or applicant can demonstrate, through soil sampling and contaminant analytical procedures pursuant to 15A NCAC 02H .0800, that the petroleum contaminant level in the upper eight inches of the receiver site soils is below either the soil-to-groundwater contaminant concentrations or the residential maximum soil contaminant concentrations established by the Department pursuant to 15A NCAC 02L .0411, whichever is lower.

(c) Disposal of Soils Containing Petroleum Products at Dedicated Land Application Sites. Subsequent applications of petroleum-contaminated soils at dedicated sites shall not recur until such time as it can be demonstrated that additional applications of contaminated soils will not result in the contravention of any groundwater or surface water standards.

(d) Containment, Treatment and Containment, and Use of Contaminated Soil.

- (1) A containment structure designed to bioremediate or volatilize contaminated soil shall be constructed of either a synthetic liner of at least 30 mils thickness or of a one-foot-thick liner of natural material compacted to at least 95 percent standard proctor dry density and with a permeability of less than 1×10^{-7} cm/sec.
- (2) The bottom of the containment structure shall be at least three feet above the seasonal high water table or bedrock.
- (3) A leachate collection system shall be installed in order to prevent runoff from the contaminated soils within the containment structure, or a cover shall be provided to avoid accumulation of stormwater within the containment structure.
- (4) The containment structure shall be compatible with the chemical and physical properties of the contaminants involved.

*History Note: Authority G.S. 143-215.1; 143-215.3(a);
Eff. September 1, 2006;
Readopted Eff. January 1, 2018.*