567—120.6(455B) PCS analysis and characterization.

120.6(1) *Department-supervised emergency cleanups.* PCS originating from the cleanup of a spill or expedited overexcavation at a tank closure or upgrade under department jurisdiction shall be characterized and tested as follows before being landfarmed. Such PCS may be landfarmed prior to chemical testing, pursuant to the application rate in subrule 120.9(6) and reporting requirements of rule 567—120.11(455B), if permission is obtained from department emergency response personnel or the department field office with jurisdiction over the landfarm site.

a. Source identification. The name and address of the contaminated site from which the PCS originated and the spill or underground storage tank (UST) registration number shall be recorded.

b. Type classification. The PCS shall be classified by type according to the petroleum product's trade name (e.g., gasoline, diesel fuel) or according to the trade names if there is a mixture of petroleum products.

c. Chemical testing. A sample of the PCS shall be obtained from the emergency cleanup site and tested pursuant to paragraph 120.6(2)*"c."*

120.6(2) *Other cleanups.* PCS not originating from a department-supervised emergency cleanup pursuant to subrule 120.6(1) shall be characterized and tested as follows before being landfarmed. PCS originating from a cleanup pursuant to 567—Chapter 135 may utilize those test results as applicable.

a. Source identification. The name and address of the contaminated site from which the PCS originated, the UST registration number, and the leaking underground storage tank (LUST) number shall be recorded, if applicable.

b. Type classification. The PCS shall be classified by type according to the petroleum product's trade name (e.g., gasoline, diesel fuel) or according to the trade names if there is a mixture of petroleum products.

c. Chemical testing. The following analyses shall be performed. Samples shall be acquired, stored, handled, tested, and reported in accordance with the required methodology and accepted scientific procedures.

(1) BTEX testing. The PCS shall be tested for benzene, toluene, ethylbenzene, and xylene (BTEX). A laboratory certified for UST petroleum analyses pursuant to 567—Chapter 83 shall test the samples. The analysis shall utilize the most recent version of Method OA-1 (GCMS), "Method for Determination of Volatile Petroleum Hydrocarbons (Gasoline)," University of Iowa Hygienic Laboratory.

(2) TEH-diesel testing. The PCS shall be tested for total extractable hydrocarbons (TEH-diesel). A laboratory certified for UST petroleum analyses pursuant to 567—Chapter 83 shall test the samples. The analysis shall utilize the most recent version of Method OA-2, "Extractable Petroleum Products (and Relatively Low Volatility Organic Compounds)," University of Iowa Hygienic Laboratory.

(3) MTBE testing. The PCS shall be tested for methyl tertiary-butyl ether (MTBE) unless prior analysis at a site, pursuant to rule 567—135.15(455B), has shown that MTBE is not present in soil or groundwater. A laboratory certified for UST petroleum analyses pursuant to 567—Chapter 83 shall test the samples. The analysis shall utilize one of the following methods:

1. The most recent version of Method OA-1 (GCMS), "Method for Determination of Volatile Petroleum Hydrocarbons (Gasoline)," University of Iowa Hygienic Laboratory.

2. U.S. Environmental Protection Agency (EPA) Method 8260B, SW-846, "Test Methods for Evaluating Solid Waste," Third Edition.

(4) Total metals testing. If the history of the petroleum contaminated site is known to have included solvents, batteries, leaded fuel, waste oil, or a gas station in operation prior to 1985, then the PCS shall be tested for total Resource Conservation and Recovery Act (RCRA) metals.

120.6(3) *Tar balls.* PCS that has the potential to produce tar balls shall not be landfarmed. Such PCS may be disposed of in a sanitary landfill pursuant to 567—Chapter 109.

120.6(4) *Other tests.* The department may require testing of the PCS for other chemicals of concern.

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