

\*\*\* DRAFT – NOT FOR FILING \*\*\*

3745-506-220

Ground water sample withdrawal, handling, and preservation.

(A) Sample withdrawal techniques. The description of the ground water sample withdrawal techniques in the sampling and analysis plan shall include at least the following:

(1) Procedures to minimize the physical agitation of samples including but not limited to the following:

(a) Filling sample containers for volatile organic compounds at a rate that does not do the following:

(i) Exceed the rate used to purge the well.

(ii) Aerate the sample.

(iii) Dilute the preservative below effective concentrations.

(b) Filling and capping sample containers for volatile organic compounds so that the filled and capped sample containers are not opened prior to receipt at the laboratory.

(c) Filling and capping the sample containers for volatile organic compounds in a manner that minimizes bubbles in each sample container.

(2) Procedures to minimize the exposure of samples to ambient air, airborne contaminants, and extreme temperature variations.

(B) Sample handling and preservation. The description of ground water sample handling and preservation in the sampling and analysis plan shall include at least the following:

(1) Procedures for handling and preserving samples in accordance with the requirements of the analytical method and the laboratory where analysis is performed.

(2) Procedures to minimize the exposure of the samples to excessive physical agitation and extreme temperature variations.

(3) Procedures for sampling the parameters in order from the most sensitive to the least sensitive to sampling effects. A table shall be included in the ground water sampling and analysis plan that lists all required ground water monitoring parameters, the order that the required parameters will be sampled, the required preservatives, and the type of the corresponding sample container.

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- (4) Procedures for temperature preservation of temperature-sensitive samples, including at a minimum the following:
- (a) A description of how the samples will be cooled. Unless otherwise required by the laboratory analytical method used, temperature-sensitive samples shall be preserved by packing the samples in ice in a cooler or other equivalent temperature preservation method such that they will be cooled but not frozen. The cooler or container carrying the samples to the laboratory shall contain ice or shall have an internal temperature greater than zero degrees Celsius but not greater than six degrees Celsius.
  - (b) A description of when the samples will be cooled. Unless otherwise required by the laboratory analytical method used, temperature-sensitive samples shall be cooled as soon as possible following containerization.
  - (c) A description of the duration of temperature preservation for samples. Unless otherwise required by the laboratory analytical method used, temperature-sensitive samples shall be cooled until analytical procedures on the sample begin at the laboratory.