

**MODULE VI - GROUNDWATER CORRECTIVE ACTION
(GENERAL CONDITIONS)**

VI.A. CORRECTIVE ACTION PROGRAM

VI.A.1. The Permittee shall maintain the ongoing corrective action program. The purpose of this program shall be to remove hazardous constituents from the groundwater and to monitor the migration of the hazardous constituents as outlined in Module V. The corrective action program shall follow the plan specified below:

VI.A.1.a. The Permittee shall maintain a corrective action system. The system shall be capable of treating and removing the volatile organic hazardous constituents listed in Condition V.B.1.a., Table V-1 from the groundwater.

VI.A.1.b. The Permittee shall sample the groundwater in the impacted aquifer.

VI.A.1.c. The Permittee may submit for the approval of the Director, a plan describing additional measures that may be used to enhance the removal of the hazardous constituents specified in Condition V.B.1.a., Table V-1 from the groundwater. This plan shall be submitted as needed. This plan shall consider several options for additional measures such as pulsed pumping, installation of extraction wells in hydrodynamically isolated areas, and additional characterization and modeling of contaminant transport in the fractured bedrock, or other impacted areas. The Permittee shall implement the additional measures within 90 days after approval of the measures by the Director.

VI.B. CLOSURE OF GROUNDWATER TREATMENT SYSTEM

VI.B.1. Upon completion of the groundwater corrective action program required under Modules VI through VIII, the groundwater treatment system will be decommissioned in accordance with Utah Admin. Code R315-8-7.

VI.B.2. Decontamination of process areas, floors, walls, internal structures and equipment will be accomplished using a combination of high-pressure water and steam cleaning. Wipe samples shall be collected and analyzed to determine when decontamination is complete. All liquids generated from this process shall be collected into tanks or other approved containers. The collected liquids shall be disposed of off-site at an approved hazardous waste disposal facility.

VI.B.3. Exterior site areas (e.g., equipment staging areas, runoff accumulation areas, roadways and random soil surfaces) shall be sampled to ensure that they have not been contaminated. Any locations where contamination is discovered shall be characterized fully, and corrective action shall be taken if necessary.

VI.B.4. Prior to initiation of closure activities, notification to the Director of the Permittee's intent to close the facility will be made. This notification will include a revised closure plan with necessary changes proposed, including decontamination standards, sampling protocols, and a detailed schedule for closure activities. Approval of the revised plan by the Director will be required prior to starting closure activities. The closure procedures shall include, but not necessarily be limited to the following activities for each type of process equipment:

VI.B.4.a. Tanks - The interior and exterior of tanks shall be rinsed with high-pressure water or steam as required to remove residual contamination. Wipe samples shall be collected from the interior and exterior of the tanks to determine if decontamination is complete. If standards are not met, additional rinsing will be conducted until wipe samples demonstrate successful decontamination.

VI.B.4.b. Process Pumps, Piping and Ancillary Equipment - All process pumps, piping, and ancillary equipment shall be disconnected and isolated to allow for cleaning. The interior and exterior of each component shall be rinsed with high-pressure water or steam to remove residual contamination. Wipe samples shall be collected from the interior and exterior of each component to determine if decontamination is complete. If standards are not met, additional rinsing will be conducted until wipe samples demonstrate successful decontamination.

VI.B.4.c. Process Areas, Floors, and Interior Walls shall be pressure-washed or steam-cleaned as necessary. Wipe samples shall be collected from cleaned surfaces and analyzed to determine if decontamination is complete.

VI.B.4.d. In some cases, adequate decontamination of surfaces may not be possible. Consequently, such items shall be considered hazardous waste and managed as such.

VI.B.4.e. Exterior site areas where known or potential releases may have occurred shall be sampled for residual contamination. If contamination is detected, further characterization and corrective action shall be initiated in accordance with Module IX.