

Closed Regulated Units Waste Descriptions

The closed regulated units are the Chlor-Caustic Closure Cell (SWMUs 12, 13, and 14), the Gypsum Fill Area (SWMUs 22, 23, and 24), the Forane® Lagoon (formerly named Isotron Lagoon - SWMU 9), and the Final Fluoride Lagoon (SMWU 11).

The Chlor-Caustic Closure Cell is a closed landfill that contains wastes from the old Chlor-Caustic process, which was shut down in 1982 and material from the Gypsum Fill Area. The Chlor-Caustic process manufactured sodium and potassium hydroxide, and chlorine by way of the mercury cell process. After the process was shut-down, mercury containing wastes were solidified using lime and fly ash and placed into the closure cell. Other material that was placed into the cell included equipment that could not be decontaminated and gypsum waste from the salt saturation step in the process (the Gypsum Fill area). The work was completed in accordance with a Closure Plan that was prepared and approved in 1982. The hazardous waste management facilities associated with the process were closed and certified in 1985 per the Closure Plan.

The Forane Lagoon and Final Fluoride Lagoon were part of the facility wastewater treatment system and were removed from hazardous waste service and closed in 1982 in accordance with approved Closure Plans. Additional grading and cover work was completed at the Final Fluoride Lagoon in 2008 in accordance with approved plans. The Forane® Lagoon continued to operate as a non-hazardous waste lagoon until taken out of service in 2011 at which time completion of final grading and installation of cover was completed. This work was completed in 2017 in accordance with approved plans.

Hazardous waste codes assigned to all closed regulated units based on historical generator knowledge can be found in Part A of this application, as well as updated photos.

C-1a Containers: 401 KAR 34:180 Section 3

Containers are used at the Arkema Calvert City plant for less than 90-day accumulation and satellite accumulation.

C-1b Tanks: 401 KAR 34:190 Section 2

The Arkema Calvert City plant stores hazardous waste in five tanks that are included in the RCRA Part B permit. The wastes from all of these storage tanks are treated in the incinerator. Forane® Reactor Bottoms and the liquid waste from the Forane® 32 process are stored in tanks