

Largest Aerated Sewage Lagoon Ever Built

The largest aerated sewage lagoon ever built in the arctic, the two-compartment facility just completed at Fort Greely where winter temperatures plunge to the minus 60's, provides a solution to problems of sanitary engineering long a complexity of the far north.

Designed and built by the Alaska District of the Army Corps of Engineers on criteria developed by the District sanitary engineering expert Ed Pohl,

the lagoon is capable of handling three times the size of its present load. Each of the compartments is the size of a city block.

Inflow to the system is at 72 degrees to 75 degrees. The configuration of the lagoon and the large mass of fluid minimize heat loss, permitting outflow of the effluent to Jarvis Creek at above freezing temperatures in below zero weather.

A testing laboratory is included in the facility for analyzing

bacteria count and other checks of the sewage treatment.

Smaller aerated lagoons have been built by the corps for the Air Force in relatively warmer latitudes, Wildwood, King Salmon, Fire Island, and Elmendorf, and for the Atomic Energy Commission at Amchitka, but the Fort Greely facility is unique in size and in the winter low temperatures under which it operates.