

## Background

The city of Whitefish, located in northwestern Montana, has a municipal wastewater treatment plant that can handle a flow rate of about 1.5 million gallons of wastewater a day using an aerated lagoon system. The primary lagoon uses an old diffused air system to provide aeration called the AquaPuss.

## Problem

During the summer of 1994, an excess of alum chemical sludge was discharged into the primary lagoon. The increased oxygen demand from the sludge and a lack of mixing overloaded the existing aeration system and began causing strong odors. The city was flooded with phone calls from nearby townspeople complaining about the odor.

## Solution

Exactly one week after initial contact with the city, AEROMIX Systems, Inc., shipped six 30-horsepower TORNADO aerators to the site to supply the supplemental aeration and mixing needed to eliminate the odors and spread out the accumulated sludge.



# A Case Study;

## AEROMIX

"Specialists in Aeration and Mixing Equipment"

### Wastewater Treatment Plant Whitefish, Montana

Within one day of installation, the odors were gone and the lagoon was operating properly. The TORNADO's strong mixing action helped digest and distribute the excess sludge throughout the lagoon, saving the city time and money on handling costs.

By choosing AEROMIX to assist with the excess sludge problem the city benefited from; AEROMIX's quick reaction, the aerators were installed in less than two weeks from initial

contact; easy and efficient installation, the aerators did not require dewatering of the basin; and performance, the TORNADO's horizontal mixing evenly distributed the sludge throughout the lagoon, increasing biological activity and digestion.

However, the most important result of all was the TORNADO aerators not only took care of the sludge, they also solved Whitefish's most immediate problem. They helped eliminate the odor.

