



## Biosolids Dewatering WWTP

### Objective:

An Idaho Wastewater Treatment plant was using sand beds at their plant. They were having problems dewatering their biosolids in the winter months. Clearwater Dewatering of Nampa, Idaho the local agent for WaterSolve LLC, worked with the city to solve their problem. The solids would be dewatered and then hauled to a landfill for final disposal by the city. The project was started in December 2007.

### Geotube® container sizing:

Geotube® containers are manufactured from high strength polypropylene fabric and designed to allow effluent water to escape through the pores of the fabric while retaining the chemically conditioned solids. The containment location selected at the site allowed for the 15' by 25' Geotube® units to be installed.

### The Result:

Clearwater Dewatering trained the city Wastewater Treatment Plant personnel and superintendent in the proper procedures to install and fill the Geotube® units. The city was taught how to adjust their polymer dosage and to test the mixing rate before going into the unit. The city has a digester tank to hold their solids in, which they then transfer into the Geotube® units two or three times a week. After the Geotube® units are filled and dewatered, they are cut open and spread out to dry further and hauled to a landfill for final disposal.

After using the Geotube® units and testing them for several years the City of Riggins built a permanent facility for dewatering of their Biosolids. On one side they built a dewatering area and on the other they have covered storage area that they finish drying the Biosolids to about 90% solids and store then until disposal.



The permanent facility for Geotube® containers.



Geotube® units drying area.



The sludge is drying after the Geotube® units are opened.