

**Project: Flow Monitoring**  
**Client: Hyrum Waste Water Treatment**  
**Location: Hyrum, Utah**  
**Year: 1995**

**Application Notes:**

The City of Hyrum, Utah needed some new instrumentation to monitor the influent and effluent of their wastewater treatment plant.

**Installation and System Design:**

Intermountain Environmental personnel installed a Greyline OCF-III at the influent and a DFM-IV at the effluent.

The influent runs through a 9" Parshall Flume. The OCF-III uses an ultrasonic sensor to measure the water level in the flume and calculates the flow. The current flow is displayed locally as well as the total flow in MGD. The effluent runs through a 9" pipe that exits the treatment plant. The DFM-IV is mounted on the outside of the pipe and uses Doppler ultrasonic technology to measure the flow. The current flow and total flow in MGD are displayed on a local display.



*Greyline OCF-III Open Channel Flow Monitor with Sun Shield*



*Greyline DFM-III Closed Pipe Flow Monitor. (Inset) Doppler Ultrasonic sensor strapped to pipe.*

The 4-20mA signals from the OCF-III and the DFM-IV are connected by cable to a control and measurement system in the main office of the plant. This system is in turn connected to a computer and a chart recorder. This way the plant operator can view the data either by using the computer to pull in the data and display it, or can look at the chart recorder. The data collected by the control and measurement system can also be used to create monthly flow reports.

For Information on this project or these products please contact:

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