



Control Structure Installation Fact Sheet

Option 1 - Continuous Discharge

Plans and specifications for the effluent control structure must satisfy the following requirements for facilities that discharge wastewater on a **continuous basis**:

- The monitoring structure must provide for the collection of grab and 24-hour flow proportional composite samples. Flow proportional sampling must be provided through pacing from the effluent flow meter. The flow pulse (gallons per pulse), meter factor and average flow to the sewer must be posted at the effluent flow meter. The effluent flow meter must have a battery backup, two-flow proportional sampling cables, a non resetable totalizer and must be compatible with ISCO sampling machines. The control structure can be a flume or weir that measures flow utilizing a bubbler mechanism, ultrasonic transducer or other secondary flow measuring device approved by the City of Columbia (City).
- The monitoring structure must be located in a secure area that is easily accessible to City personnel.
- Plans and specifications of the sampling point and flow meter must be submitted to the City for approval. A site map depicting the proposed location of the effluent monitoring structure and a piping diagram depicting all process and sanitary wastestreams and their connection point to the monitoring structure and/or the public sewer must be submitted to this office.
- Please note that if pretreatment is required at your facility, wastewater discharged from the pretreatment system must pass through the effluent monitoring structure.

Option 2 - Batch Discharge

Plans and specifications for the effluent control structure must satisfy the following requirements for facilities that discharge wastewater on a **batch basis**:

- The monitoring structure must provide for the collection of grab and 24-hour flow proportional composite samples.
- A solenoid that operates in the pulse inhibit mode and a non-resetable counter mechanism may be used in lieu of an effluent flow meter. The solenoid must engage when the EQ tank discharge valve is opened. Each increment of the counter mechanism will represent the entire tank volume (e.g. 1 increment = 5,000 gallons). The solenoid/counter mechanism must have two flowsampling cables and must be compatible with ISCO sampling machines.
- The effluent monitoring structure must be located in a secure area that is easily accessible to City personnel.
- A site map depicting the proposed location of the effluent monitoring structure and a piping diagram depicting all process and sanitary wastestreams and their connection point to the monitoring structure and/or the public sewer must be submitted to this office. Please note that all process wastewater must pass through the effluent monitoring structure.