

IDEQ

City of Caldwell Final Effluent Temperature Probe Placement Log

The City of Caldwell is currently using a HACH Model # DPD1R1 (SN 1401442035) pH probe with an internal thermistor for temperature monitoring of the Final Effluent.

(Built-in Temperature Element - NTC 300 ohm thermistor for automatic temperature compensation and analyzer temperature readout)

The probe is after UV disinfection located in the collection weir at the outlet of the UV disinfection building.

It is located approximately 12 to 14 inches below the water surface and is in the center of collection weir which is 6 ft wide x 30 ft long and approx 6 ft in depth.

The probe is connected to a SC1000 HACH controller which transmits the temperature readings to a Supervisory Control and Data Acquisition (SCADA) historian.

The SCADA system is supported with an Uninterrupted Power Supply (UPS) for continuous operation.

The probe and controller are backed up by emergency power and in the event of power loss there will be a lapse of information to SCADA historian for the elapse time it takes to restore power to the equipment.

Also there is a possibility of information loss due to equipment failure and/or upgrades. Efforts are made to keep those to a minimum.