

- g. The backwash supply pipe for the 2010 SWTP gravity media filters must be disconnected from the backwash pumps' pipe coming from the Cypress High Service Pump Station during the verification testing. The pipe from the pump station will need to be temporarily plugged or capped at the point of disconnection to prevent the entrance of contaminants. During the verification testing, the City will need to use one of the following methods to supply backwash water for the 2010 SWTP gravity media filters by temporarily connecting the backwash supply pipe at the 2010 SWTP gravity media filters either:
 - i. To a pipe from the temporary 2010 SWTP transfer pumps' discharge header (going to waste) with necessary flow and pressure control valves to prevent blowing media out of the filters;
 - ii. Directly to the discharge of one of the 2010 SWTP transfer pumps with any necessary flow and pressure control valves solely for the purpose of backwashing the tested 2010 SWTP gravity media filters; or
 - iii. To a temporary dedicated pump and any necessary flow and pressure control valves that is taking suction from either:
 - 1. The 2010 SWTP clearwell; or
 - 2. An acceptable temporary storage tank that will be filled with gravity media filtered water or water from the 2010 SWTP clearwell transfer pumps.
- 13. All of the above referenced valve and gate closures and piping modifications must be completed prior to the RR WWTP transfer pumps being turned on after connecting the wastewater effluent piping to the temporary Cypress DPR WTP. TCEQ staff will inspect the DPR WTP to confirm isolation as described in Item No. 12 has been completed. The inspection must occur before the Full-Scale Verification Test may begin.
- 14. As noted in the TCEQ letters approving exceptions for the use of membranes and construction for the Cypress 2008 SWTP, each individual MF membrane unit's and RO membrane skid's piping must be equipped with cross-connection protection in the form of an air gap, double block-and-bleed valve system, isolation valves with removable pipe spools, or another TCEQ-approved method. The following piping must have cross-connection protection:
 - a. Feed water piping;
 - b. MF filtrate piping;
 - c. RO permeate piping;
 - d. Backwash supply piping;
 - e. Backwash waste piping;
 - f. RO concentrate piping;
 - g. Maintenance clean solution feed piping;
 - h. Maintenance clean recirculation piping;
 - i. Maintenance clean solution waste piping;
 - j. Clean-in-place (CIP) solution feed piping;
 - k. CIP solution recirculation piping; and
 - l. CIP solution waste piping.