



Systems Conveyance and Operations Program (SCOP) Reach 5 – Pipeline & Outfall Diffuser System - Project Overview

Work for the Reach 5 Pipeline & Diffuser System includes below grade construction using cut/cover construction methods for five (5) – 63-inch outside diameter (OD) HDPE pipes, approximately 5,000-ft in length beginning at the Pressure Reducing/Power Generation Station (PR/PGS), formerly called Hydroelectric/Pressure Regulating Station (HPRS), and terminating at the water's edge.

The Boulder Islands Lake Diffuser System continues from the water's edge in five (5) – 63-inch sub-aqueous HDPE lines ranging from 17,400-ft to 21,400-ft in length. The diffusers will be extend into the lake and vary in length, diffusers will be anchored below lake level at approximately 875-feet.

An emergency overflow pipeline (EOP) will be constructed below grade in the same pipe excavation as the Reach 5 pipeline and diffuser system and runs from the re-regulating reservoir at the PR/PGS to convey effluent to Lake Mead in the unlikely event of emergency failure of the diffuser system. The EOP will terminate in Lake Mead at an elevation below 1,000-ft. The outlet for the EOP will be open discharge fully unrestricted. The last 100-ft section of the overflow pipe will be coated (internal/external) with silicone to reduce the potential of quagga mussels becoming attached to the pipe.

This project completes a portion of work related to the Systems Conveyance and Operations Program (SCOP) Project, developed by the Clean Water Coalition (CWC).