A D D E N D U M

Phase IV Conceptual Design Report for the Seal Rock Water District Beaver Creek Water Supply

Prepared for

Seal Rock Water District, Oregon

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Addendum to the Final Report Issued September 2016

In addition to the treatment process described in the final report (Section 3.2), a low dose of sodium permanganate shall be applied to the raw water at the intake to oxidize iron and manganese prior to membrane filtration. The estimated dose is 0.1-0.2 mg/L. The application equipment will consist of a drum of liquid sodium permanganate and a metering pump, with either a duty or shelf spare pump. Contract time for the oxidation reaction shall be provided in the raw water pipeline between the intake and the treatment plant. The proposed 14-inch diameter DR 9 HDPE line, with an inside diameter of 11.696 inches, and a length of 8,100 feet, will provide approximately 50 minutes of contact time at the maximum design flow of 2.0 cfs.