

UNPRODUCTIVE WATER SUPPLY WELL KEY TO AQUIFER STORAGE POTENTIAL

An Oregon water supply district needing to increase their storage capacity by at least a million gallons retained Buffalo Geological to assess the feasibility of developing an aquifer storage and recovery (ASR) system as an alternative to construction of a steel above-ground storage tank. Buffalo's evaluation quickly focused on the anomalous nature of an unused system supply well. Originally intended to increase the system's water supply, the well exhibited very high

deliverability but inadequate recharge and was functionally unusable. Buffalo Geological reviewed the well installation and completion records, compiled local geologic and hydrogeologic information and evaluated historic pump tests. The information suggests the well taps a network of high porosity fractures within, but isolated from, the regional basalt aquifer and is likely capable of storing up to five times the target storage volume.

Following the feasibility assessment, Buffalo Geological prepared the water quality and geological supplemental reports required by Oregon for a Limited License.

Buffalo reports it completed the feasibility study and application reports for a fraction of the costs quoted by other consultants. The project was recently approved as submitted.