

Tina Kotek, Governor

December 3, 2024

Jim Newton, PE, RG, CWRE
Principal - Engineering-Geologist
Cascade Geoengineering, LLC
Via email: newtonjim@hotmail.com

**Re: Crooked River Water Treatment Plant and Wellfield (PR#96-2019)
City of Prineville (PWS ID#00682)
Final Approval**

Dear Jim:

Thank you for the additional information for the above project. Based on conversations, DWS interprets the submitted easement to mean that the City will not use chemicals within 100' of the wells.

Final approval is issued at this time, and the facilities are approved for use. Sampling schedules for the new entry point for IOCs, VOCs, SOCs and radionuclides will be established this week. Note that Well 3, 6, 7, 8, 9, 10, 11, 13, 15, 16, 18, 22 and 26 require monthly coliform assessment monitoring for at least 12 months. Wells 17 and 19 only need monthly coliform assessment monitoring if E.coli is found in the source.

Details on DWS' evaluation of each well construction is noted on the next several pages.

If you have any questions, please feel free to call me at (971) 201-9794.

Sincerely,



Carrie Gentry, PE
Regional Engineer
OHA-Drinking Water Services
Carrie.L.Gentry@oha.oregon.gov

cc: Josh Seerup, REHS, OHA/DWS
Casey Kaiser, Public Works Director, City of Prineville, ckaiser@cityofprineville.com

Our regional geologist reviewed the construction details of the well logs and noted the following:

Well 3 (DT1, CROO 54593)

This well meets current below-ground construction standards and is drilled into a confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring for a minimum of 12 months. If E.coli is confirmed in the source or if coliform is repeatedly detected, the City will be required to collect samples for microscopic particulate analysis.

Well 6 (DT4, CROO 54785)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 7 (DT5, CROO 54792)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 8 (DT2, CROO 54592)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 9 (DT6, CROO 54834)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 10 (DT7, CROO 54832)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 11 (DT8, CROO 54833)

This well meets current below-ground construction standards and is drilled into an unconfined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 13 (DT9, CROO 54830)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 15 (DT10, CROO 54831)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 16 (DT11, CROO 54829)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 17 (DT12, CROO 54810)

This well meets current below-ground construction standards and is drilled into a confined aquifer. This well would need monthly source assessment monitoring if E.coli is ever confirmed in the source.

Well 18 (DT13, CROO 54789)

This well meets current below-ground construction standards and is drilled into an unconfined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 19 (DT14, CROO 54869)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. This well would need monthly source assessment monitoring if E.coli is ever confirmed in the source.

Well 22 (DT15, CROO 54750)

This well meets current below-ground construction standards and is drilled into a semi-confined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.

Well 26 (DT18, CROO 53215)

This well meets current below-ground construction standards and is drilled into an unconfined aquifer. Because of the location of the well with respect to the river, the City will need to conduct monthly source assessment monitoring as noted above.