PUBLIC HEALTH DIVISION
Center for Health Protection, Drinking Water Services
Kate Brown, Governor

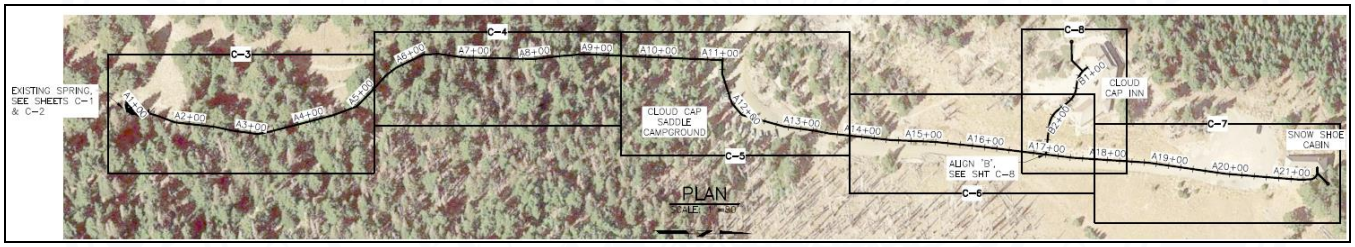
Oregon Health Authority
800 NE Oregon St.
Portland, Oregon 97232-2162
Voice (971) 673-0405
FAX or TTY (971) 673-0694

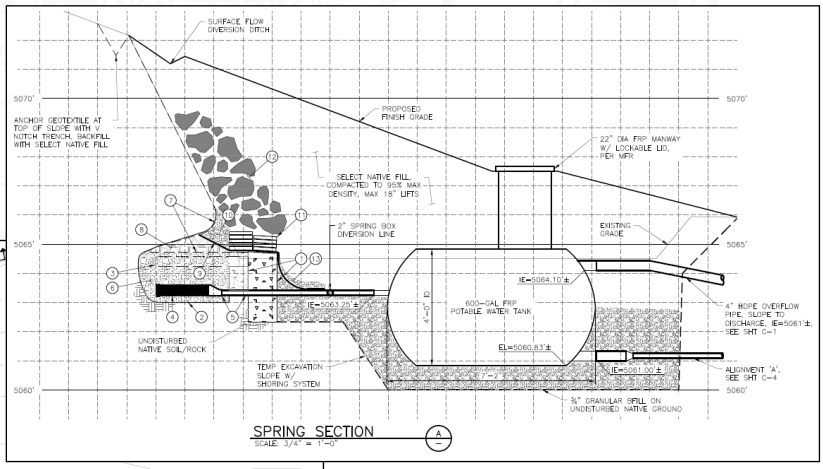
December 9, 2021

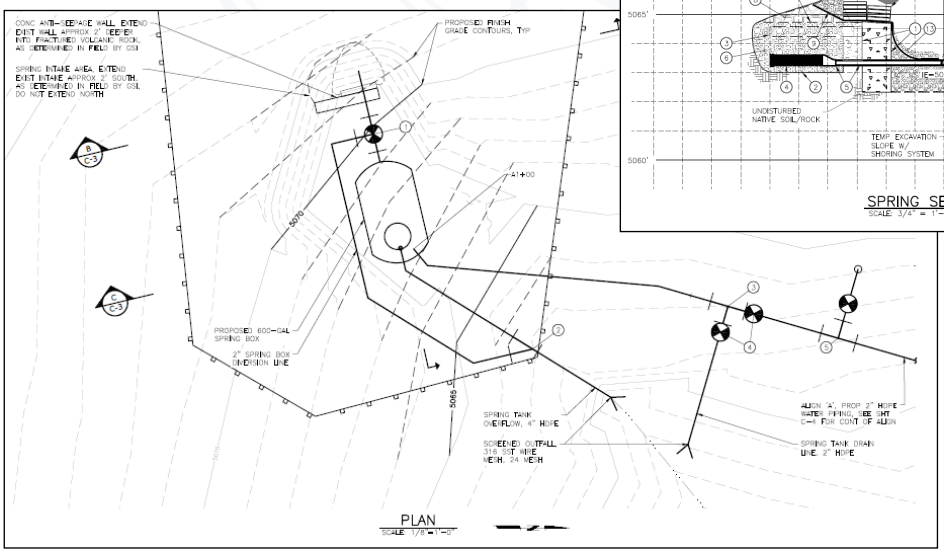
Alex Bargmeyer, PE
Alex.Bargmeyer@murraysmith.us
Murray Smith & Associates
888 SW 5th Ave, Ste 1170
Portland, OR 97204

Re: Plan Review – Cloud Cap Inn Spring Reconstruction and Waterlines
USFS Cloud Cap/Cooper Spur (PWS ID# 92634)
Conditional Approval – PR #199-2021

I received updated plans and specifications for the project referenced above on October 27, 2021, and emails regarding the plans on October 27, 2021 and November 29, 2021. The project involves reconstructing the existing spring and upgrading the existing distribution waterlines as shown in the figures below:







Originally plans submitted earlier this year only included waterline improvements, which were deemed to be not under our plan review jurisdiction. However, the revised plans received on October 27, 2021 show that the spring is to be reconstructed. Sources, tanks, and treatment are under our plan review jurisdiction since they are not covered under local plumbing code. I apologize for the delay in reviewing the revised plans as I was under the impression that they would only constitute waterline improvements and not reconstruction of the spring. In any case, I reviewed the submitted plans and **have granted the project <u>Conditional Approval</u> which means that construction may be completed so long as the following conditions are met:**

1. The plan review fee of $825 is submitted. Instructions for submitting this fee can be found on our website at: https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Pages/index.aspx#submit
   Any submittal should reference the USFS Cloud/Cap water system (PWS ID #92634) and "PR #199-2021 - Cloud Cap Inn Spring Reconstruction and Waterlines".
2. The Springbox will be provided with permanent security fencing as required under OAR 333-061-0050(2)(b)(A)(ii) – plans showed only construction fencing.
3. The interception ditch is placed to avoid surface water ponding above the springbox as well as above any other location (e.g., the perimeter of the impermeable membrane) that may allow for ponded water to infiltrate the spring in such a way as to contaminate the groundwater. Because an interception ditch was shown on the plans, I will defer to GSI on the most appropriate placement of the interception ditch to avoid such contamination so long as it meets the requirement under OAR 333-061-0050(2)(b)(A)(i).
4. In situations where a water line and a sewer main or sewer lateral cross, the bottom of the water line shall be 1.5 feet or more above the top of the sewer line and one full length of the water line shall be centered at the crossing in accordance with OAR 333-061-0050(9)(c) – see pdf page 23;
5. The new facilities are disinfected and tested for bacteriological contamination once construction is complete according to OAR 333-061-0050(10) – see pdf page 24.
6. The water system or contractor will need to photo document the spring reconstruction and copies of the photos will need to be submitted with the final plan review documents.

Construction standards for springs under OAR 333-061-0050(2)(b) can be found on pdf page 5 (rules page 235) of the pdf on-line at: https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/OAR-333-061-0050.pdf. For convenience, I have included these construction standards for springs on the last page of this letter.

Final Approval will be granted upon completion of the proposed project, certification by the engineer-of-record that the project was completed according to the submitted plans and specifications, and that the conditions of this letter have been addressed along with photo documentation of the spring reconstruction. Note, the new facilities cannot be used to provide potable water to service connections until the plan review for this project receives Final Approval from DWS.

Once construction is complete, please submit the Project Final Approval Request Form on our website at: https://www.oregon.gov/oha/PH/HEALTHYENVIRONMENTS/DRINKINGWATER/PLANREVIEW/Documents/project-update-form.pdf

Thank you for your patience and if you have questions, please contact me at 971-200-0288, or via email at evan.e.hofeld@dhsoha.state.or.us.

Sincerely,

Evan Hofeld, P.E.
Regional Engineer
Oregon Health Authority - Drinking Water Drinking Water Services

Cc: Ian Stromquist - REHS, Environmental Health Response Coordinator
Hood River County - 541-387-7130, ian.stromquist@hoodrivercounty.gov

Luke Franz, Building Inspector - luke.franz@hoodrivercounty.gov
Hood River County Community Development - (541) 386-1306

Jeff Mitchell – USDA – jeff.mitchell2@usda.gov

Jesse Hunter – USDA – USFS jesse.hunter@usda.gov

Denise Hilkey – Contact for USFS Cloud Cap/Cooper Spur Water System
541-352-1247, denise.hilkey@usda.gov

(b) Springs:

(A) In addition to those requirements under subsection (2)(a) of this rule, construction of spring supplies shall meet the following requirements:

(i) An intercepting ditch shall be provided above the spring to effectively divert surface water;

(ii) A fence shall be installed around the spring area unless other provisions are made to effectively prevent access by animals and unauthorized persons;

(iii) The springbox shall be constructed of concrete or other impervious durable material and shall be installed so that surface water is excluded;

(iv) The springbox shall be provided with a screened overflow which discharges to daylight, an outlet pipe provided with a shutoff valve, a bottom drain, an access manhole with a tightly fitting cover, and a curb around the manhole.

(v) Spring collection facilities that meet the definition of a well in paragraph (2)(a)(A) of this rule must comply with construction requirements specified in paragraph (2)(a)(H) of this rule.

(B) Reports on flow tests shall be provided to establish the yield of springs.