



# Snoqualmie Pass

## Fire & Rescue

*Serving our community*

### **GOLD CREEK POND-MODIFIED ALTERNATIVE B**

Attention: Project Partners

The Fire District 51 (Snoqualmie Pass Fire & Rescue) Board of Commissioners support the Gold Creek Pond Modified Alternative B. The Board of Commissioners passed a motion during the August 16, 2021 Board of Commissioner Meeting supporting the Gold Creek Pond Modified Alternative B plan. A copy of the meeting minutes are attached to this letter to provide documenting the Board's support of this plan.

We support the following proposal for the United States Forest Service's (USFS) plan to enhance bull trout habitat in Gold Creek valley, so that bull trout populations may increase and flourish in the upper Yakima basin. This proposal primarily focuses on the plan for the Gold Creek pond, with a few general comments relating to Gold Creek. Additional comments on Gold Creek will be forthcoming as more information becomes available from the USFS and its partners.

We support a plan to enhance the Gold Creek pond area. This area presents a unique recreational experience adjacent to the Alpine Lakes Wilderness. Because of Gold Creek pond's proximity to I-90 it is an area that many travelers and visitors can enjoy. The alpine setting is a true treasure, framed by Rampart Ridge on the east side of the valley, Chikamin Peak at the head of the valley and Kendall Peak and other mountains on the westside. On clear days, these mountains (and the sky) are reflected on the surface of Gold Creek pond. Currently there is a combined asphalt and elevated wooden trail around the pond that is ADA accessible. Way stations around the pond provide information to those who are walking around the pond, information related to the history of the pond and the animals that inhabit the area. Picnic facilities are present at the south end of the pond.

To date (July 2021) the USFS has proposed three alternatives for the restoration of Gold Creek pond; referred to as alternatives A, B and C. These alternatives can be found on the USFS's website. We support a modified alternative B as discussed here and as shown on the attached graphic, figure 1.

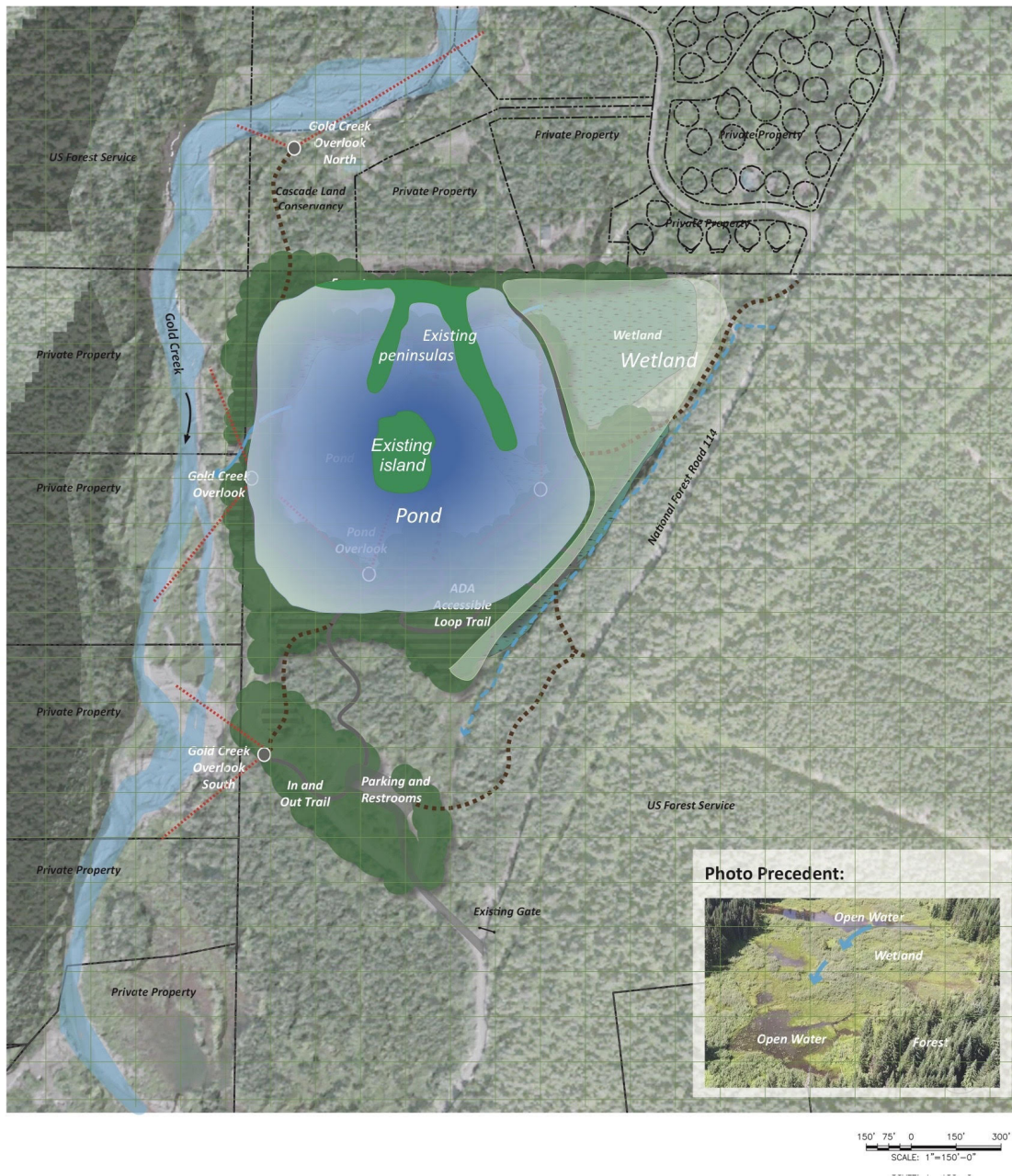


Figure 1 Modified alternative B-Key features of this modified plan compared to alternative B include leaving the pond's footprint essentially as it exists today (note below, that if it is shown that the pond lowers the groundwater and water in the stream in the identified dry reach, the pool elevation can be raised which will cause the groundwater table to rise, resulting in better exchange between groundwater and surface water in the creek. See Figure 2.

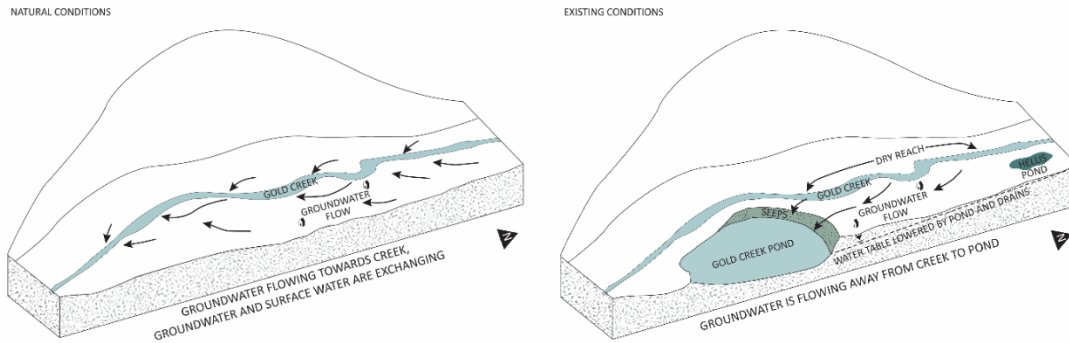
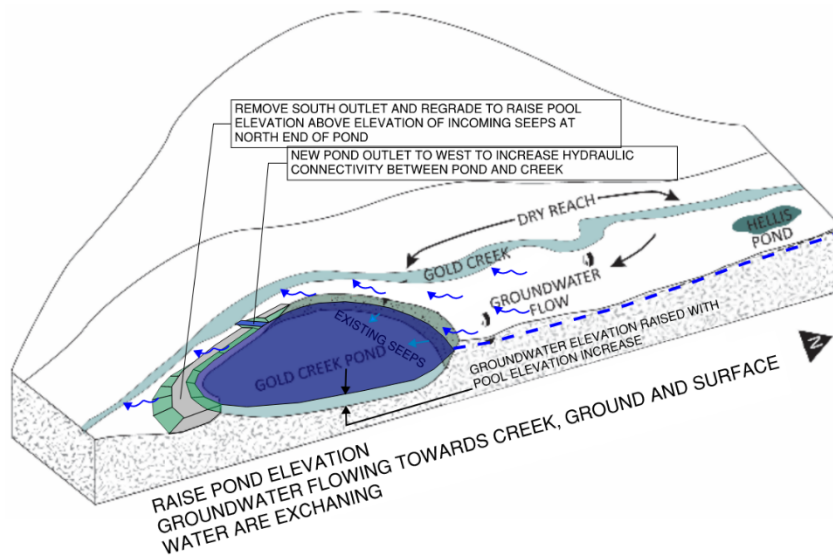


Figure 8. From Purpose and Need Document  
Graphic representation of the influence of Gold Creek Pond, a former gravel borrow pit, which intercepts groundwater and prevents it from entering the dry reach of Gold Creek.



Modified Alternative B. Graphic representation depicting raising the pool elevation of Gold Creek Pond above the elevation of the seeps entering at the north end of the pond. Raising the pool elevation will bring raise the groundwater table to the natural elevation prior to the establishment of the gravel pit and will improve the exchange of groundwater between surface water (including the Pond) and groundwater and Gold Creek.

Figure 2

This proposed plan would not involve any fill material being placed in the pond, either to reduce the footprint or reduce the depth of the pond. In addition, this plan presented below meets the NEPA purpose and need.

The modified alternative B plan would relocate the pond outlet from the eastside to the westside of the pond as shown in Figure 2. This relocated outlet flow would be directed into Gold Creek such that the outlet flow channel length would be minimal. Moving the outlet ensures that colder water from the pond enters Gold Creek. Consideration should be given to raising the pond surface elevation **if** it can be determined that the pond is lowering the groundwater table in the immediate vicinity of the pond. This could easily be accomplished by allowing the water level in the pond come to equilibrium with the ground water table.

For example, the new westside outlet for the pond would be constructed with a simple vee-shaped concrete flow control structure whereby the bottom of the vee would correspond to the elevation of the ground water table. After the westside outlet and flow control structure are constructed, the east side outlet would be filled in, and the water in the pond would rise (if it is lower than the groundwater table) until it is at the same elevation as the groundwater table. Material excavated from constructing the westside outlet would be used to fill in the east side outlet. Fill material would not need to be trucked in for this proposal.

With a flow control structure, water flowing out of the pond would not allow the water in the pond to drop below the elevation of the groundwater table, allowing the pond to function independently from flows in Gold Creek. The cost to relocate the pond outlet from the eastside of the pond to the westside and install a concrete flow control structure is on the order of \$400,000. The timeframe to construct the new outlet (and fill in the existing easting outlet) would be several months.

Advantages of modified B compared to current alternatives A, B, C

- Cost- \$400,000 vs \$14,000,000 to \$20,000,000 or more. The money saved could be applied to other fishery habitats in the Yakima basin.
- Time to construct-3 months vs 2 or more construction seasons for alternatives A, B or C.

Environmental impacts-none (or very minimal) for the modified B alternative vs the following large temporary (2 seasons or more) impacts associated with the construction of alternatives A, B or C

- Noise, dust, air pollution, and water quality degradation/turbidity in Gold Creek due to discharging pond water that is displaced by the infilling operation,
- These impacts will have a direct effect on the USFS's recently established wildlife corridor, which is immediately adjacent to Gold Creek Pond and adjacent to the roads which will be traversed by dump trucks and other construction traffic,
- Consumption of resources
  - Between 190,000 to 320,000 gallons of diesel fuel from hauling material to the site (and from other construction equipment), and the resultant contribution to climate change.
  - The placement of approximately 750,000 cubic yards gravel borrow used for the fill material in the pond.
- Recreational users of the site would be prohibited from accessing the site during this timeframe due to the large scale of construction at the pond.
- Construction traffic would create congestion along the roads accessing the site affecting the communities of Ski Tur and Starwater.

The benefits of the modified B alternative (in addition to low cost, short construction duration, recreational use during construction and no temporary environmental impacts)

- Cold water discharged from the pond into Gold Creek in the modified B alternative vs warmer water discharged to Gold Creek due to infilling the pond.
- Maximizes recreational use vs reduced recreational use after construction. It is assumed that there will be a reduced desire on the part of recreational users to visit the site if the pond is filled in or a large wetland replaces the pond.

- Reservoir pool for Wildfires: Since Gold Creek pond and Heli's pond would not be filled in, both ponds could be used as a source of water if there were wildfires in the valley or surrounding area vs not having pond water as an option for fire suppression water. The Ski Tur Valley community maintains its own water system and there is not enough flow in the existing system to fight wildfire and/or structure fires.

Both ponds act as critical reservoirs for fighting fires either by firefighting equipment from Fire District 51 or as a source of water for aerial drops from helicopters. Gold Creek Pond has been identified as the preferred helicopter dip site for a few reasons. Used as a reservoir for firefighting helicopters the location of the ponds significantly reduces the transit time from having to travel farther to Lake Keechelus and will allow helicopters to stay on station longer and be more effective with reduced times between water drops. Also using Lake Keechelus would require temporary traffic closures on I-90 for helicopter firefighting operations that cross the highway.

Other relatively low cost features of this modified B proposal include enhancing the existing low-class wetland on the northeast side of the pond and constructing wetlands on the east side of the pond where the current pond outflow channel is, creating a continuous wetland on the east side of the pond. Topsoil and soil amendment would be brought in and placed around the area bordering the pond. Native plants would be planted and figure prominently in this area. More picnic tables and freestanding grills would be installed around the pond. Additional interpretative signing could be installed around the pond including signing discussing bull trout enhancements in Gold Creek, information on the Alpine Lakes Wilderness recreational area including a map of the valley highlighting the lakes and hiking trails, history in the valley including mining and logging, etc.

The asphalt trail around the pond should be widened while meeting ADA accessibility requirements. The wooden section of the trail should also be replaced and widened to match the width of the asphalt trail.

These enhancements are not required for bull trout habitat and could be constructed if funding is available. The total cost of modified B including the enhancements would be about \$4,000,000 compared to \$14,000,000 to \$20,000,000 plus for alternatives A, B and C.

Other features related to the modified plan B include relocating the Starwater storm drainage system so that it discharges into Gold Creek, assuming that the function of the storm drainage system is not degraded as a result of relocation. The parking capacity would remain as it is today. Finally, Heli's pond should remain in its current state (or construct a flow control structure if it can be confirmed that the pond lowers the groundwater table).

The major issue with bull trout habitat in Gold Creek is the lack of flowing water in the stream during critical times in the life of bull trout. Because of the natural geomorphology of the stream and stream flow conditions of the creek what water does enter the stream during late summer/fall infiltrates into the ground so that there isn't stream flow to naturally support bull trout in most years (see photo below taken of Gold Creek in 1936 before the Gold Creek pond was constructed).



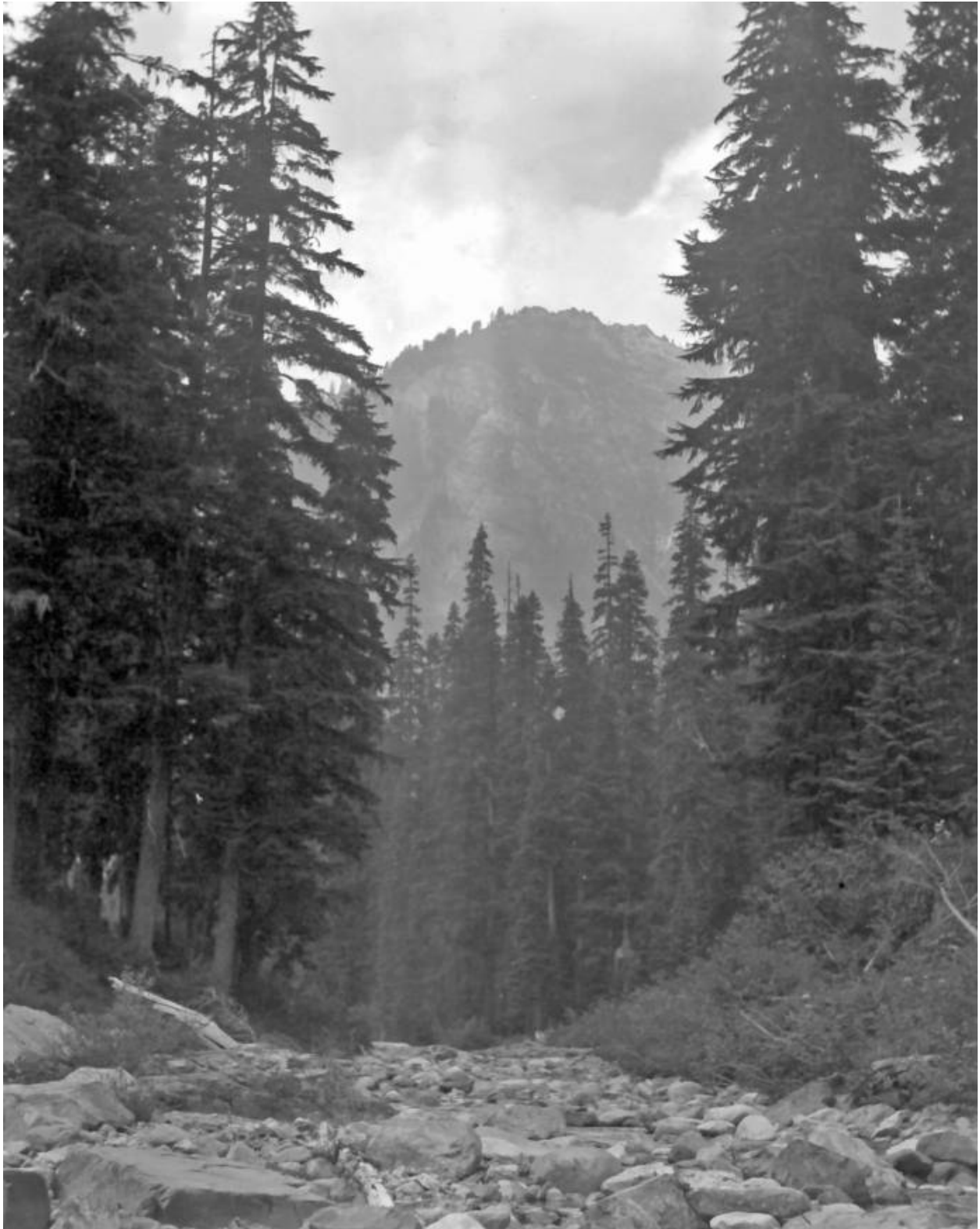


Photo by Pio Panieri taken at Gold Creek on August 13, 1936 (from the Washington Rural Heritage Digital Collection). Snowfall in the winter of 1935/36 was approximately 35% higher than the winter snowfalls of 2017/18 and 2018/19, and yet Gold Creek had sections where there was no stream flow.

Large sections of Gold Creek can be classified as “losing stream sections” which is a natural physical characteristic of a stream where it runs dry during periods of low streamflows because the streamflow infiltrates into the ground. Note, this photo was taken many decades before Gold Creek pond was constructed.

Filling in Gold Creek pond as proposed in alternatives A, B and C will not lead to an increase in stream flows which is the basis for putting forward alternatives A, B or C. In addition to the natural physical deficiency of Gold Creek, climate change will lead to decrease flows over the next several decades (or more), because of predicted reduced snowfall and faster melting of the snowpack in the Spring, and reduced rainfall in the Spring and Summer. Gold Creek has in the past been a challenging site for bull trout, and it will be more challenging with the effects of climate change. Spending \$14,000,000 to \$20,000,000 or more filling in Gold Creek pond as presented in alternatives A, B and C will not improve bull trout habitat. Modified B allows a modest improvement by discharging colder water into Gold Creek for a modest cost compared to A, B and C. In conclusion modified B is the best alternative. The money saved by constructing Modified B could be spent on fish habitat at other locations where a benefit in bull trout habitat could be realized. Constructing alternatives A, B or C have major environmental impacts, including discharging warmer water into Gold Creek after construction compared to modified B. Modified B maximizes recreational use during construction and post construction which is a win-win situation for bull trout habitat and recreational users of the site, as the majority of comments from recreational users at Gold Creek pond preferred that the pond is not filled in or altered.

One outcome could be that there is not a feasible solution to increasing bull trout populations in Gold Creek. The multi-disciplinary team should consider Cold Creek and Meadow Creek for bull trout habitat as these two creeks appear to have year-round stream flow. Both creek’s discharge into the Keechelus Reservoir. Finally, the Native American term for Keechelus means “few fish”. This term came before there were man-made impacts in this section of the watershed.

Submitted by:

James Sammet, Fire District 51 Commissioner  
representing  
The Fire District 51 Board of Commissioners.

Attachments:

Board of Commissioners Fire Protection District #51, August 2021 Final Meeting Minutes.

# **SNOQUALMIE PASS FIRE & RESCUE**

King & Kittitas Counties Fire Protection District #51

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## **Minutes**

### **Regular meeting/Zoom Conference**

**August 16, 2021**

**6:00 p.m.**

The meeting was called to order by Commissioner Powers at 6:00 p.m.

The following Department personnel were present:

Commissioners:

Lloyd Holman, Bill Powers, Morris Hanan, Jim Sammet

Staff:

Fire Chief Jay Wiseman

No members of the public were present in person at the meeting.

### **Approval of Agenda**

Commissioner Holman motioned to approve the agenda as written. Commissioner Sammet seconded the motion. The motion passed 4/0.

### **Previous Meeting Minutes:**

The July 21, 2021 regular meeting minutes were tabled for approval for the September 2021 regular meeting.

### **Voucher Approval:**

Commissioner Holman motioned to approve vouchers totaling \$33,917.89. The motion was seconded by Commissioner Sammet. The motion passed 4/0.

Commissioner Holman motioned to approve vouchers totaling \$14,563.19. The motion was seconded by Commissioner Powers. The motion passed 4/0.



## **Financial Statements:**

The chief reviewed the current financial statements with the Board.

## **Old Business:**

**A. Dodge Ridge Radio Repair:** The Chief reported that the District has until early September to install and broadcast on the new frequency to remain compliant with the FCC license. The Chief has been working with Director Long at KITTCOM to enter into an agreement with KITTCOM to install and perform the work. Chief Wiseman explained that this is the best avenue since KITTCOM already has agreements in place with the State for use of the space and that someday the work being done now could benefit the upper Kittitas County area as another tactical frequency.

**B. New Aid Car:** Chief Wiseman reported that the pre-construction meeting has been scheduled and work on the aid car has begun. The expected earliest deliver date is estimated to be late February or March.

**C. SPUD Storage Tank.** The Board was updated that the test drill is scheduled for late October.

**D. Resident Firefighter Policy 100:** Chief Wiseman presented the Board with a draft policy defining the districts intent to begin a resident program. The chief also informed the Board that we had originally been talking about 2 residents but lately another person has indicated they would like to be in the program which would require money that was not budgeted. There was discussion. Commissioner Holman commented that he votes for 3 residents if that is possible. The District Commissioner adopted Policy 100 by a motion from Commissioner Holman. Commissioner Sammet seconded the motion. The motion passed 4/0.

## **New Business:**

- A. Gold Creek Restoration Project:** Commissioner Sammet presented a proposal to the Board that the community had developed in response to the filling in of Gold Creek Pond due to concern that the pond de-waters Gold Creek and contributes to reduced habitat to Bull Trout spawning. The Proposal was presented to the Fire Commissioners for their support so that fire protection needs are still accounted for while accomplishing some of the concerns from the conservation groups wanting to fill the pond. There was discussion from the Board. Commissioner Holman and Powers mentioned they would support this alternative proposal. Commissioner Holman motioned to endorse the alternative to be presented. Commissioner Powers Seconded the motion. The motion passed 3/0.

- B. Snow Removal: The Chief informed the Board that he has been working with the attorney about the process of going to bid for the snow removal contract at Station 46. The Commissioners recommended that the Chief define the expectations of the snow removal in addition to the contract so that they can be handed out when the Chief walks the project with the bidding contractors.
- C. The Chief informed the Board the SPFR responders do fall into the mandatory vaccine mandate that was issued by the Governor. The Chief indicated almost all of the SPFR members have been vaccinated.
- D. The Chief discuss this falls levy, FBC and budget adopting process with the Board. No action was taken.

### **Chiefs Report:**

The Chief gave an operational report to the Board

### **Public Comment:**

There were no public comments.

### **Commissioners Comments:**

There were no additional Commissioner Comments

### **Adjourn:**

At 19:37 p.m. Commissioner Powers motioned to adjourn the meeting. Commissioner Holman seconded the motion. The motion passed 4/0.

## **SNOQUALMIE PASS FIRE & RESCUE**

By: \_\_\_\_\_  
William J. Powers Jr., Chairman

By: \_\_\_\_\_  
Walter Anderson, Commissioner

By: \_\_\_\_\_  
Lloyd Holman, Commissioner

By: \_\_\_\_\_  
Jim Sammet, Commissioner

By: \_\_\_\_\_  
Morris Hanan, Commissioner

Certify: \_\_\_\_\_  
Jay Wiseman, Secretary

Date: \_\_\_\_\_