



Pikes Peak Reservoir and Pump Station Project

Community Advisory Group Meeting #4 Summary

Date: May 23, 2017

Time: 6:30 – 7:30 PM

Location: Bellevue City Hall, 1E-118 (First Floor)

Attendees

Community Advisory Group: Jennifer Duncan (Lake Washington Saddle Club), Suzanne Kagen (Lake Washington Saddle Club), Jim Erckmann (Bridle Trails Park Foundation), Alice Prince (Bridle Trails Community Club), Steve Brand (Washington State Parks), Richard Benson (Washington State Parks), Darrun Losse (resident)

(Absent: Kelly Losse, Jay Bergevin, Loretta Lopez)

Project Team: Jay Hummel (Project Manager), Regan Sidie (Design Services Manager), Michael May (Public Information Officer), Tom Lindberg (Consultant), Jenna Anderson (Consultant), John Chaney (Consultant), Cory Baranski (Consultant)

Summary

Welcome and Recap

Jay Hummel welcomed everyone to the fourth Community Advisory Group (CAG) meeting and provided a brief recap of the CAG's involvement thus far:

- Three CAG meetings (December 2016, January 2017 and March 2017).
- A CAG project field visit to the Pikes Peak reservoir and pump station site (February 2017).
- CAG members completed the Triple Bottom Line (TBL) survey to gather feedback on criteria that will be used to evaluate the reservoir and pump station siting alternatives that passed the Tier 1 initial evaluation process.

Jay added that a preferred alternative will emerge from the TBL survey results and will be presented to the Capital Improvement Projects (CIP) Cabinet, Bellevue Utilities' management group, for their review and a final decision on the alternative for which to move forward.

Alternatives

Transitioning the discussion over to the technical update, Jenna Anderson reviewed the process of identifying preferred alternatives, following input from the CAG in the initial evaluation process. The four alternatives are as follows:

Alternative A

Rectangular reinforced concrete and pump station onsite, existing easement

- Reservoir height: 38 feet tall (compared to existing 28 feet)
- Reservoir dimensions: 89 feet by 75 feet
- Maintain the same floor elevation as existing reservoir
- Modified fence location within easement
- No vehicle access around the reservoir

- Some tree removal within easement boundary (note, easement is larger than the existing fence)
- Offsite improvements in some lower elevation areas for installation of pressure reducing valves on individual water services
- Other potential offsite water system improvements as determined during design

Questions Raised

For Alternative A, the following questions were asked:

- *If the easement corner will be pushed out to provide space for maintenance, will this still be within the existing easement?*
 - Yes, this will still be in the existing easement.
- *Will the trees on the outside of the easement on the south trail remain?*
 - Yes, we anticipate that the trees will not be affected.

Alternative B

Circular prestressed concrete reservoir and pump station onsite, modified easement

- Easement area adjusted to remove the southeast corner, and add on to the southwest corner to accommodate the pump station
- Total easement area will not change
- Easement modifications pending negotiation between the City and the State
- Modified fence location within easement
- Modifications to trail on south side of easement
- Reservoir height: 38 feet tall (compared to existing 28 feet)
- Reservoir diameter: 83 feet (compared to existing 85 feet)
- Maintain the same floor elevation as existing reservoir
- Vehicle access around reservoir for maintenance
- Some tree removal within easement (note, easement is larger than the existing fence)
- Offsite improvements in some lower elevation areas for installation of pressure reducing valves on individual water services
- Other potential offsite water system improvements as determined during design

Questions Raised

For Alternative B, the following questions were asked:

- *Will the southern trees have to come down for this alternative?*
 - Some trees between the existing fence and trail may need to be removed to provide space for the pump station. The trail would shift south, in the vicinity of the pump station to provide three feet of buffer between the proposed fence and trail; it may be possible to plant trees/shrubs in that buffer area.

Alternative C

Circular prestressed concrete reservoir with pump station offsite at Cherry Crest

- Reservoir height: 38 feet tall (compared to existing 28 feet)
- Reservoir diameter: 83 feet (compared to existing 85 feet)
- Maintain the same floor elevation as existing reservoir

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- Vehicle access around reservoir for maintenance.
- Some tree removal within easement (note, easement is larger than the existing fence)
- Offsite improvements in some lower elevation areas for installation of pressure reducing valves on individual water services
- Other potential offsite water system improvements as determined during design

Questions Raised

For Alternative C, the following questions were asked:

- *If the pump station will be located offsite, will crews working on the pump station have to have access to communication with crews working on the reservoir?*
 - There is telephone line communication between the two sites, so all work will be synchronized.
- *Would the ground have a depression like the current reservoir?*
 - The ground would be level for this reservoir alternative, decreasing the apparent height.
- *Will the lifetime impact be shorter for a concrete reservoir? How long will construction take?*
 - Concrete takes longer to build but requires less maintenance overall, meaning less intrusion to the Park over time. Construction at Pikes Peak will take approximately 9-12 months. We won't know the exact construction schedule until a contractor is selected.

Alternative D

Circular steel reservoir and pump station offsite at Cherry Crest

- Reservoir height: 38 feet tall (compared to existing 28 feet)
- Reservoir diameter: 93 feet (compared to existing 85 feet; will be wider to accommodate increased floor height)
- Reservoir floor raised 5 feet above existing floor to remove need for retaining wall around perimeter of reservoir (since steel reservoir cannot be partially buried)
- Vehicle access around reservoir for maintenance.
- Some tree removal within easement (note, easement is larger than the existing fence)
- Offsite improvements in some lower elevation areas for installation of pressure reducing valves on individual water services
- Other potential offsite water system improvements as determined during design

Triple Bottom Line Results

Jay reminded the CAG that the Triple Bottom Line is a methodology to evaluate three main areas: economic (initial and life cycle costs), social (how does it affect people), and environmental (how does it affect the surroundings). Criterion was developed, and then a weight (relative importance) and a score (how well the alternative fits the criteria) was applied to each alternative to then arrive at a total numbered score for each alternative to rank them and determine a preferred alternative.

CAG members completed the Triple Bottom Line (TBL) survey to gather feedback on criteria that will be used to evaluate the reservoir and pump station siting alternatives that passed the Tier 1 initial evaluation process. The project team had a workshop to go through the criteria as well. Jay noted the scoring and weighting was parallel between the CAG and Bellevue Utilities.

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Jay informed the group that the team is working to determine the cost of each alternative, and that will be factored in at a later time. The scoring and weighting of other categories (social, environmental) identified Alternative C as the preferred alternative from both the CAG and Bellevue Utilities perspective. Alternative D and Alternative B and Alternative A ranked lower, respectively.

Jenna noted the CAG received a list of all criteria items, including those not shown in the TBL survey. Excluded items were those such as safety for employees, service life, and other factors that the CAG had less interest in.

Questions Raised:

- *Is concrete as earthquake safe as steel, or are they comparable?*
 - Prestressed concrete and welded steel are nearly equally safe. Prestressed concrete is a reinforced concrete wall wrapped with steel cable/wire in tension, making it the best option for earthquake resistance.
- *What happens when an alternative is selected?*
 - Once an alternative is selected and approved (projected for August), the project moves into the design phase.
- *How long will construction at Pikes Peak take if the pump station will be located at Cherry Crest?*
 - Construction would likely begin in 2020, after construction of the new pump station at Cherry Crest. The reservoir construction would take approximately one year. Exact timing and dates won't be known until a contractor is selected.
 - Cherry Crest pump station has been on the list for replacement, so relocating the pump station to this location would move up the timeline.
- *Will the reservoir be the dark green color shown in the renders?*
 - The renders are intended to show relative shape, size and placement of the alternatives. It is likely that, if a concrete alternative is selected, the reservoir would be a natural concrete color. It is possible to coat concrete reservoirs to change the color, however this requires more maintenance over time and is not necessary for the integrity of the structure.
- *Will it be possible to schedule construction to keep trails open during peak usage?*
 - Construction operation would be typically Monday through Friday, so it is likely this work will not interfere with weekend use of the trails. Exact construction impacts won't be known until a contractor is selected.

Next Steps

Jay thanked everyone for sharing and wanted to discuss next steps before the meeting adjourned.

Jay informed everyone the next CAG meeting will be in approximately another month (most likely late June) and that a Doodle poll would be emailed out to gauge everyone's availability. In addition, he stated that the project team has scheduled an open house on June 6 at Benjamin Franklin Elementary and requested the CAG members spread the word to their constituents. Jay thanked everyone for coming and told them he would follow-up via email.

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