



Homeowners Association
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WATER SYSTEM PLANNING COMMITTEE MEETING

July 10, 2020

Re: Committee Report for: - July 9, 2020, called to order at roughly 10AM following the Lands and Buildings Meeting. This document is used as an agenda for succeeding meetings of the committee. This meeting was held via WebEx teleconference or in person by some participants.

Participants

Tom Newman (Chair) [x]
James Clancy (Trustee) [x]
Rudd Turner (Trustee) [x]
Ric Minich (Trustee) [x]
Tom Reber (General Manager) [x]
Gil Gonzalez (Field Superintendent) []
Kurt Olds (Trustee) [x]
Kirby Smith [x]
April Garcia (Water System Operator) [x]
John Purdin [x]
Larry Raymer [x]
Steve Flickinger []
Aaron Brooks []
Joe Plahuta, G&O [] via telecon

Water System and Water Quality Issues

Purchase of Autoflushers

(July 9) Considered for circulation of chlorine. Water System Manager will provide pricing and rationale at the next committee meeting.

Level 1 Assessment (WA DOH Letter dated June 30, 2020)

(Jul 9) Coliform found in water testing. DOH has requested a Level 1 Assessment by July 31, 2020. GM and Water Department will be evaluating system to determine source. Problem may be related to main breaks plus construction on I Street. DOH will assess chlorine levels more closely. At construction and

main break sites, testing for contaminants was negative. Flushing at various locations continues to circulate chlorine.

Carbon Filtration Plant Water Quality

(Feb 13) Tom Newman requested information regarding well life expectancy and effect of ambient temperature on biological growth. James Clancy requested historic water data and information on the building designed for the carbon filters. Kurt Olds requested he be kept informed when contacting water systems in the San Juan Islands regarding their carbon filtration experience. All requests were addressed with follow up emails.

(Mar 12) Historic data provided. San Juan Island system experience: cover building installed, corrosion effects on equipment April will recontact the Friday Harbor Water System to inquire about corrosion on the GAC vessels. As a system wide comment on the CFP operation, DOH recommended higher chlorine levels at end points of distribution. As of 2017 WAC requires a minimum of 0.20 free chlorine in the distribution system. Current conditions may result in "technical violation"; which is way this topic is under review. Low levels of chlorine in our system could have resulted in a treatment technique violation, DOH did not issue a violation. Water System Operator will continue to monitor and provide testing results to DOH and G&O. Two months data currently available with additional 20 months of data needed. Tom N. with professional expertise relayed that 20 months would be a minimum data set to use for correlating disparate samples. Our goal is to show DOH that UVA is accurately reflecting the reactive TOCs in our system. We project one year or less of data will be sufficient for DOH. Additional chlorine is being added through the ATEC system. Chlorine has been reduced at the ATEC and in the reservoirs but increased in the distribution system.

(Apr 9) Reviewed at next month's committee meeting.

(Apr 9 information provided at May 7 meeting) The carbon filters are removing 44% of the organics, with additional organic removal occurring through the ATEC filters for a total removal of 56%. Organic removal continues to improve allowing carbon media replacement to be on hold.

(May 7) Carbon removal both in the Carbon Filtration Plant and the ATEC system appears to be stable following replacement of Carbon in Reservoir 2 in July 2019. Further replacement of carbon media is on hold. Water Systems Manager will continue to monitor media consumption.

(June 11) Less removal of organics. May be a function of raw water changes during summer period. Carbon may be replaced following further analysis by G&O. Carbon has been in place for a year which meets G&O expectations in the original pilot study for the plant.

(July 9) Organics continue to rise. G&O recommends not replacing plant carbon as not to interfere with the Pilot Study described below. Organics observed at

residential locations may be attributed to main break.

Water System Efficiency

(Feb 13) The committee received a member request to discuss water use efficiency at the next committee meeting.

(Mar 12) Not included in this month's report.

(Apr 9) Not included in this month's report.

(Apr 9 information provided at May 7 meeting)"10 % distribution loss for the month, 8% annual average. The goal is to remain below 10%".

(May 7) Recent monthly water system efficiency calculated at 16 percent. Annual average is below 10 percent Monthly above average reading could be the results of less use or could be an anomaly. System efficiency above 10 percent may require leak detection investigation.

(June 11) Previous reading likely an anomaly, System loss at 7 percent below state standard, 9 percent annual average.

(July 9) Loss at 11 percent for June. Annual loss at 10 percent. Loss may include flushing and construction and main break loss.

ATEC System Operation/G&O Pilot Test

(Mar 12) As we have increased chlorination (to reach 0.20 chlorine residual), TTHMs are now at Maximum Contaminant Level. To avoid a TTHM violation this year we are investigating ways to lower the TTHMs as we increase chlorine. We will be working with G&O to investigate using oxidants with the ATEC that do not create TTHMs - KMnO4 and oxygen. We will continue to investigate treatment options (cheapest to most expensive) while giving preference to treatments which can be brought online in the shortest time frame. Please note that "At present EPA is reexamining TTHM and Haa5 regulations based on new information regarding these contaminants". "At present there is no conclusive evidence linking DBPs (TTHMs) in water with cancer or other health effects."

(Apr 9 information provided on May 7) ATEC filtration is removing 93% of iron and 79% of manganese. Chlorine levels are being increased in the distribution system."

(Apr 9) Awaiting DOH review of Grey & Osborne plan for additional TTHM testing and pilot study. EPA ~~DOH~~ is considering a revision to MCLs for TTHM.

(May 7) No further status from DOH about changes to TTHM levels. Awaiting additional guidance from DOH about health effects. System manganese removal has declined but iron has remained at levels higher than recommended system operation. Further investigation into the control of system iron levels is in progress, although the decrease in iron removal could be attributed to a missed ATEC backwash or a bad water sample. G&O consulted with DOH on pilot testing TTHM removal and has provided us with a proposal which is under review by the committee and the Water Systems Manager.

(June 11) DOH has approved a lower residual chlorine level of .05 mg/L. Residual chlorine levels measured at Stackpole remain below approved levels. An additional flushing station has been installed at that location to improve circulation which may improve free chlorine levels.

(July 9) Pilot Study will begin this month. Iron removal still below standard level. Not a health issue.

Administrative Management Issues

Carbon Filtration Plant Pacific County Permit Sign-off

(July 9) No status. Will be updated at next meeting.

Flushing Pond Review (New)

(Apr 9) Review with Pacific County on hold.

(May 7) On hold until Pacific County renews public contact following COVID19 recovery.

(June 11) GM will check with Pacific County.

(July 9) GM will check with Pacific County.

DOH Sanitary Survey and Water Systems Report.

(Feb 13) Highlights from the Annual Water System Report were reviewed. The report will be published with edits in the Surf-In-Sider. The committee is in contact with Gray & Osborne and that the current direction from G&O is to monitor carbon efficiency and monitor biological growth to its completion prior to carbon replacement.

(Mar 12) Water Systems Operator awaiting delivery of 4 reservoir vents required by the Annual DOH sanitary survey. Vents expected shortly and will be installed. A final water systems report to DOH will be submitted following installation.

(Apr 9) Final report response in development.
Awaiting electrical work by Ford Electric. Reservoir vents installed.

(May 7) Ford Electrical work completed. However additional wires discovered on one reservoir. Will be removed by Surfside crew. Vent holes need caulking or insulation. Final report to DOH will be forwarded upon completion of these repairs.

(June 11) Update at next meeting.

(July 9) Remaining item is reservoir roof electrical access issue. GM will update committee at next meeting.

Water Main Replacement Project

(Feb 13) This year's Water Main Replacement Project will be I Street from 315th to Oysterville Rd and is projected to progress slowly as the water main is larger 8" main and there will be more traffic to cope with during construction. Status: On-going.

(Mar 12) Less progress due to work on Oysterville Tie-In. Revised traffic control plan approved by Pacific County. Work will resume following completion of Oysterville Tie-In with further installation of 8-inch mains on I Street.

(Apr 9) No activity on this project.

(May 7) No activity on this project. WMR will resume in approximately 2 weeks when the Oysterville Loop Project is completed.

(June 11) Restarted at 315th and I Street. Extensive project with some interruptions in traffic flow. Flagger will be used during construction operations.

(July 9) In progress. Work on I Street continues. Generally, on schedule with delays for traffic and equipment movement. I Street work should be completed by the end of year.

Update of the 6 Year Water Systems Plan

(Feb 13) Committee discussed the need for an update completed in 2020 or 2021.

(Mar 12) Update elements include: efficiency of the CFP, revised planning for

circulation, revisions in DOH policy and state law. Committee made a motion directing the General Manager to request a proposal for a Water Systems Plan update from G&O. This motion was passed.

(Apr 9) Awaiting a proposal for the update from Grey & Osborne.

(May 7) Proposal received. Further review by committee is required. Scope of work, levels of engineering participation and cost (\$48,000) to be reviewed.

(June 11) Study tasks will be reviewed with DOH and the Association. The Association will provide items those items as needed. G&O will update regulatory requirements. Will include updates accomplished at the site. G&O will submit a separate stand-alone contract document for Association signature.

(July 9) The master contract with amendment will be used for this update. Contract amendment will be submitted to the BOT for approval.

Carbon Filtration Plant Cover Building

(Mar 12) A cover building was part of the original CFB project and design. A contract for the design and construction of the building was awarded in 2018. The building was never permitted by Pacific County or completed. Committee members believe this project should be reconsidered. New design considering maintainability of the CFB and occupancy requirements by Pacific County will be suggested to the General Manager for inclusion as a task in the G&O support contract.

(Apr 9) Research with other utilities concerning a cover building is in progress. The San Juan Island facility has a cover building; others contacted do not. Surfside will request Pacific County to suspend consideration of and permit review for the building.

(May 7) The General Manager is conducting a benefit/cost analysis which may be complete by the next committee meeting. G&O has suggested an alternate of saving the allocated cover building monies for future epoxy coating replacement. The Surfside water department is considering a maintenance inspection program. The committee may ask for a formal recommendation from DOH and G&O.

(June 11) BC analysis in progress.

(July 9) Analysis completed. GM believes that

providing a cover building is the slightly cheaper option. The committee has no clear recommendation. Water System Manager will research a cover structure for the valve assembly.

Member Water Meters

(Mar 12) Some of the water meters installed on member property are reaching the end of their 10-year warranty period. Previous failure costs have been covered in the Water Department O&M budget and through manufacturer's warranty. Accelerated failures of water meters may occur. Water System Operator will investigate expected failure rates with manufacturer. Meter replacement cost expected to be \$400. Expected to be less than \$200 if purchased in bulk. Surfside has no policy concerning the replacement of member meters. Committee will develop policy recommendations.

(Apr 9) Committee is determining the cost and likelihood of water meter failure. Policy will define the expected costs either as an O&M cost for the association or a cost passed to the member when a replacement is needed.

(May 7) Awaiting manufacturer's cost and repair data. Possible that only water meter unit batteries may need replacement; a cost which will be borne by Surfside as normal maintenance.

(June 11) Manufacturer now advises that batteries cannot be replaced. Entire metering assembly must be replaced. Life cycle is 10 years. North Beach experience does not show mass failures beyond end of life cycle. Replacement is just the metering unit not the entire meter. Will be considered in the 2021 budget submission. WS Manager will develop a cost report.

(July 9) Estimates and schedule available, will be provided by GM prior to the next meeting.

Reservoir Cleaning Proposals

(Mar 12) Four bids have been received. General Manager, Field Superintendent and Water System Operator will review bids and provide recommendation to the Committee and the Trustees.

(Apr 9) References obtained for the low bidder. General Manager will establish contact next week.

(May 7) Contract signed. Vendor will schedule with Surfside for completion of the work.

(June 11) No work accomplished.

(July 9) Awaiting scheduling by vendor.

Water Use Conservation

(Mar 12) Past committee meeting have discussed modification of the current Water Use Efficiency Conservation Rate set at 8,000 Cubit Feed per month or the imposition of additional conservation methods. A motion was passed recommending the Conservation Rate be reduced to 5,000 Cubic Feet. Available data suggests that few members will be affected.

(Apr 9) The Board of Trustee approved the lower rate recommendation of the committee.

(May 7) Board of Trustees has approved modified efficiency use levels of 4,000 Cu Ft for group use and 5,000 Cu Ft for individual use. No user exceeded the 8,000 Cu Ft in April, 3 users exceeded the 5,000 Cu Ft limit which does not go into effect until May 1, 2020.

(June 11) Action completed. Seven members observed usage above new limits.

(July 9) This issue will be reviewed at the next committee meeting.

Water Department 2021 Budget

(May 7) Announcement of the 2021 budget cycle will be distributed by the association Treasurer shortly. The committee is responsible for developing this budget.

(June 11) The Committee will develop the 2021 budget with the General Manager and the Water Department.

(July 9) Schedule for budget: August 19 first cut of draft budget, 1st Committee Meeting August 26.

Replace Neptune Sensors

(June 11) WS Manager requests that the Neptune software be replaced at a cost of option 1: \$11,560 for upgrade and 1 yr. subscription, or option 2: \$16,220 for upgrade and 3 yr. subscription. However, Core and Main proposal is available for only 1-year option at about \$11,500. Existing software expires EOY. WS Manager will investigate current pricing and recommend discounts and alternate equipment purchase.

(July 9) Awaiting updated quote from supplier.

Pressure transmitters at Booster Station

(June 11) One transmitter is no longer operating properly. Recalibration may fix problem. WS Manager will determine pricing for calibration or replacement. Motion to replace transmitters accepted.

(July 9) Awaiting installation schedule. Transmitters ordered. Vendor will schedule installation.

Second entrance to the Water Farm

(July 9) Lands and Building Committee will investigate purchase of adjacent property.

Completed Business

Replacement of Mini Excavator

(Mar 12) The existing mini excavator now has better than 5,000 hours of operation and should be replaced. The Reserve Study has a budget of approximately \$70,000 for replacement in 2020. Field staff recommends purchasing a used 2018 vehicle priced at about \$50,000 with an 18-month warranty. Field Superintendent will conduct further research and develop a proposal for Trustee approval.

(Apr 9) A new mini has been ordered and should arrive in the next two weeks.

(May 7) This item reopened. Delivery date for the mini is unknown. General Manager to investigate.

(June 11) New mini-excavator has arrived and is in use. This item will be transferred to the completed tasks.

Carbon Filtration Plant Wetlands Mitigation

(Feb 13) Ric Minich reported on the current status of the Wetlands Mitigation for the CFP. The County Planner overseeing the mitigation, Alex Russell, has left her position and has been replaced with Zane Johnson.

(Mar 12) Surfside Mitigation plan has been accepted by Pacific County. Flushing pond at CFP is in use. Further discussion with Pacific County is needed to ensure that we have met all county requirements. Appointment with Tim Crose, DCD will be requested.

(Apr 9) DCD unavailable for direct meetings. This topic will be carried under new item concerning flushing pond.

ATEC System Water Meter

(Mar 12) Current water meter is operating but needs replacement. Parts are on order.

(Apr 9) New water meter installed but observed error condition may require new parts from the manufacturer.

(May 7) Installed and error conditions have not reoccurred.

Oysterville Loop Project

(Feb 13) Ground had been broken on the Oysterville Loop Project. The project was progressing although slowly. Status: On-going.

(Mar 12) Approximately 700 feet of new pipe installed. Due to location of unmapped drain field, new easement and G&O route developed. A better route requiring less excavation. Project should be completed in the next two months.

(Apr 9) Oysterville and G Street Mains installed. Due to local conditions in the right of way, a new approval is required by adjacent property owners. Letter to property owners have been sent. Work on the project should restart in 10 days.

(May 7) Main installation mostly complete. Landscape restoration in progress. Service restoration in progress. Project should be complete in two weeks.

(June 11) Project completed. Final asphalt repair completed.

Next Meeting: August 6, 2020, 10AM, Surfside Homeowners Conference Room (held following the Lands and Buildings Committee Meeting). May be via teleconference. Contact Surfside Business Office for admission.

Attachments

Water System Operation System Report, June 2020 (may appear elsewhere)