

SDIC Monthly Managers Report

12/8/2022

Infrastructure:

-Evans Pump #1 repairs are still underway by our vendors. The pump and motor was removed and hauled in for repairs on Sept 14. Reed Electric has completed the rebuild of the motor and said they would store it in their shop until the pump is complete, so both can be installed at the same time. Bay Valve has completed the repairs to the pump diffuser housing and awaiting curing before reassembly. There was an unanticipated problem in procuring the raw 416 stainless steel for the center shafting that is now resolved.

-Both the Cherry Orchard pumps were flow tested on November 2, the #1 pump had indicated wear during the last vibration analysis in early 2022, I wanted to check if it was affecting the performance. The results indicate that the #1 pump has lost about %10 of its capacity compared to the #2 pump.

-We received a rebate check from the CRPUD for \$2742 that was processed thru Energy Smart Industrial, Efficiency Incentives program for the repairs we completed to the Evans Pump and Motor #2 in early 2022. I am hoping we can receive the same rebate after the repairs to the Evans #1 is complete. These rebates are always something to keep in mind if we upgrade any of our infrastructure that has the potential for kWh (power) savings.

-Bay Valve who has been repairing the Evan's #1 pump has also been analyzing the sump configurations of the Evans pump station. They have completed initial sump calculations that I am hoping to cross check with USACE or an independent engineering firm once I have the final report. Initial reports indicate, with the current sump configuration the cavitation umbrellas are actually hurting more than helping. Removing them from pumps is relatively easy, but removing them from the sump would be extremely challenging. I am hoping there is a way to leave them in the sump, but out of the way. This will allow us to operate the pumps and test the theory. If it is not correct, they can easily be reinstalled. Regardless, the root of our problem is our current operation of the Evan's pumps; current maintained water levels do not meet the minimum required submergence of the pump intakes, and the newly suggested configuration is not anticipated to stop cavitation damage, hopefully, just slow it down.

Operations:

-Several large trees were removed from the Santosh Slough between the Johnson and Smith pump stations.

-An excavator was mobilized to the Johnson pump station to remove a large buildup of aquatic vegetation.

-I marked out the footprint of the Olsen Farm toe drain according to the "as built" information available, including elevations using the crest of the levee as a benchmark. The termination (or daylight end) of the toe drain has been extremely difficult to locate. The ditch that receives the drain water seems very obvious, along with the toe drain lateral itself, how it actually gets to the ditch or if it has been altered is unknown at this point.

-All pump motor bearings, which have the ability, have been greased.

-Evans pumps are set to auto float 3.7'-4.4', still running very little, most water is draining thru the tide gates.

-Cherry-North-Johnson-Smith-Sternberg-Kessi pumps are set to 1.5'-2.0'

-Honeyman Pump is off, by landowner request

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Infrastructure & Operations-Looking Ahead / Action Items:

- Most mechanized field operations have been paused for the winter season.
- The Sternberg pumps discharge pipe has developed several small holes along the horizontal section before it crosses the sub-levee, they will be patched shortly, but this is most likely indicative of a larger problem, thinning of the sidewall of the pipe is expected.
- Turbine oil changes in several pumps
- Clean-up of hazards found during levee mowing operations, mainly old fence, logs, rocks and car tires.
- Follow up inspection of the Rip Rap by boat or walking now that the vegetation has receded.
- Toe Drain explorations at the Cherry Pump and Olsen Farm
- Non mechanized removal of small trees along the perimeter levee

Personnel:

- I have proposed a couple changes for the BOD to consider to the Employee Evaluation Form approved in 2021.

408's:

- Cadman Materials appears to have completed the geological borings approved in the single phase 408 for the proposed gravel mine on the Ellis property. I have not received any updates as to the progress of the larger 408 permit.

Accreditation / Lomar:

- Awaiting the City of Scappoose to complete their expanded Interior Drainage Analysis through WEST Consultants. The City of Scappoose has indicated that the Business Oregon grant funding was approved and the contract with WEST was executed.
- On a side note-Multnomah County, Sauvie Island Drainage (SIDIC), Columbia County, WEST Consultants, and FEMA held a virtual meeting on November 9th to inform SIDIC members and the public about the final steps of their accreditation/lomar process. Multnomah County has taken the lead on the project and created a page on their website that gives a good overview of the project and process, <https://www.multco.us/landuse/sauvie-island-flood-map-revisions> there is also a recording of the presentation. This could be very informative as we progress thru the same process.

Best Practices:

- Strategic Planning and SWOT analysis is progressing. The SDIC and SDAO completed the first phase special meeting/work session on November 29, 2022.

Scappoose Storm Water Master Plan:

- We are still awaiting the 2022 draft from the City of Scappoose

Rental Home:

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Legal:

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Mercury TMDL:

- The SDIC Willamette Basin Mercury TMDL plan was submitted, and receipt acknowledged on Sept 2. On 10/11/2022 I received some follow up questions to our plan before it can be deemed complete, but we were also given a 6-month extension from DEQ. I am in the process of responding to the follow up questions.

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GM Action Items:

- Employee Handbook
- Field Operations Tech annual review