



## Progress Report

Project: Lummi Island Scenic Estates Community Club

Wilson Project Number: 2022-120

Service Dates: Through 8/31/2023

### **SMALL WATER SYSTEM MANAGEMENT PLAN ASSISTANCE**

Task 1. Create system map with service area boundary and retail service area identified:

- Previously Provided to LISECC staff for review and comment.

Task 2. Capital Improvement Projects - identify and provide budgetary project cost estimates:

- Waiting to make progress on this until we receive direction that LISECC wants to proceed with SWSMP in the near future.

Task 3. Provide SWSMP to County for local government consistency review:

- Task cannot be completed until all Wilson-assigned tasks and LISECC staff/board tasks related to SWSMP have been completed and draft SWSMP has been compiled.

Task 4. Asset management assistance:

- Task has not yet been initiated.

Task 5. Assist in compiling SWSMP:

- Task has not yet been initiated.

Task 6. Submit SWSMP to DOH for approval:

- Task has not yet been initiated.

Task 7. Respond to DOH comments on SWSMP:

- Task has not yet been initiated.

**PRE-DESIGN:** Complete

### **PRELIMINARY ENGINEERING REPORT**

- Brian has access to RD Apply application and associated ePER, and is progressing with filling out relevant sections of the application.
- Project Report that will be submitted to DOH is in progress and will be provided to LISECC for review and comment in the near future.

## **ENVIRONMENTAL REPORT**

- No work on this phase yet – will begin on this soon now that a recommended project alternative scope has been settled and the project extents are known and can be assessed with respect to environmental considerations. Additional survey will assist in this effort.

## **USDA-RD LOAN APPLICATION**

- Brian, Melanie, Allison, and Jim met with USDA-RD representatives on 8/23 to discuss the project and logistics of loan application.
- Application is underway. Jim told USDA-RD we will likely be submitting application in 2-3 months.

## **USDA-RD LOAN IMPLEMENTATION**

Task 1. Coordinate Attorney review of construction contract:

- Will complete after loan application has been submitted and construction contract documents are complete and approved by DOH and LISECC board (final task of this contract).

## **TOPOGRAPHICAL SURVEY COORDINATION & BASE DRAWING**

Task 1. Coordination with Jepson & Associates:

- Upon receiving Allison's approval, Brian sent request for additional survey to Jepson on 7/7 requesting a scope/fee for the additional survey work. Brian also coordinating with Jepson on some feedback on existing survey. Brian has not yet seen a proposed scope/fee from Jepson for the additional work. Brian sent check-in email to Chris Jepson 8/31. The additional survey is needed as a base map to create the 60% design plans.

Task 2. Data Integration and Drafting to reference survey basemap:

- Have integrated existing survey information into basemap for 30% design project drawings. Coordinating with Jepson & Associates on some feedback on existing survey.

## **PERMITTING**

- SEPA checklist draft has been completed. Needs some refining as design proceeds.
- Preapplication packet: Allison submitted to Whatcom County on 8/30. Next steps will include scheduling preapp meeting where we will discuss all WC permitting required for the project. Packet included question to Whatcom County to clarify what is needed from property owners of easement areas of project.
- We will likely need additional survey as a basemap for design drawings before we can proceed with most of the detailed Whatcom County permits that will be required. Need to have certainty with regard to property and easement boundaries and need Dogwood Terrance roadway and existing utilities in basemap to work out all permitting logistics.



## PREPARE CONSTRUCTION DOCUMENTS

Task 1. Design - selecting and sizing equipment (pumping systems, membrane package plant, ancillary components):

- We have a working model of the equipment and piping inside the new water treatment plant building. Will continue to update and refine as design proceeds.
- With direction on duplex raw water pump system, fully redundant membrane skids, each 100 gpm, and Contact Time piping direction, we are proceeding with sizing these components.
  - Input from Water Committee at meeting on August 10 questioned the need for fully redundant membrane skids. Brian followed up by sending earlier correspondence with DOH on this subject saying that DOH requires fully redundant skids. Brian has not yet heard back from LISECC / Water Committee clarifying whether that was sufficient documentation to allow us to proceed as planned with design or if more conversations need to happen.
    - This is holding up design, as this needs to get decided to proceed in an efficient manner with design.
- Organics treatment:
  - DOH questioned if Granular Activated Carbon (GAC) could be needed for organic Disinfection By-Product (DBP)-precursor removal. Brian sent TOC/DOC data to DOH to try to get clarification, but none has been provided yet.
    - Design team is coordinating with WesTech regarding expected DOC removal with coagulant. WesTech will be sending directions on providing jar samples to do benchtop testing to determine expected % removal. This will help to hopefully conclude that GAC is not needed.
    - GAC would add significant expense to the project, both capital (need bigger building), and operational (GAC material replacement is frequent and relatively high cost).

Task 2. Geotechnical Report for Building Foundation Design:

- Geotechnical report is complete.

Task 3. Stormwater Memo documenting no need for Stormwater Report:

- Initial equipment layout models indicate that the building area may need to be increased from 20'x30' to approximately 24'x30', which will increase new impervious area to 1,820 square feet. Will need to severely restrict any further impervious area expansion to remain below 2,000 square foot threshold. Brian is flagging this as a potential concern – if we exceed 2,000 square feet, stormwater design and permitting become more involved than currently scoped in design contract.

Task 4. Construction Stormwater Pollution Prevention Plan:

- Will include in 60% design.

Task 5. 30% Plans and Construction Cost Estimate:

- 30% Design Plans and associated Construction Cost Estimate have been completed and provided to LISECC for review and comment. August 10 received feedback from water treatment committee. Currently incorporating that feedback.



Task 6. 60% Plans and further progress of plans, estimate, and specifications: Progressing from 30% design to 60% design currently. Need additional survey for 60% design plans.

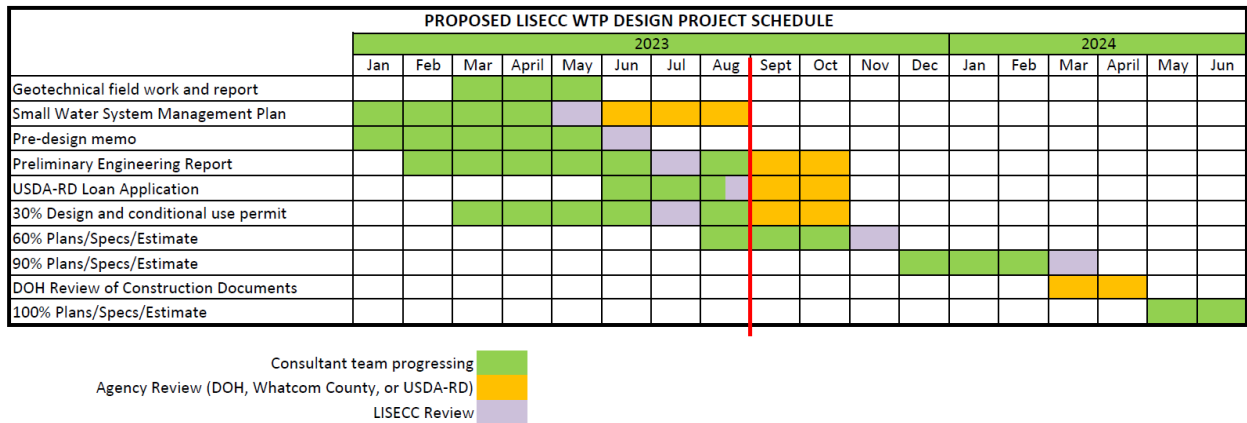
Electrical Engineering Design.

- Electrical engineer provided 30% design construction cost estimate and is working on plans that will be included in the 60% design set.

Structural Engineering.

- Initial discussions of building design.

**OVERALL SCHEDULE STATUS:**



**POTENTIAL ISSUES / CONCERNS:**

- Need to confirm with land owner that everyone agrees about extents of easement and site access for proposed WTP facility. Allison has been having ongoing conversations with land owner, and can continue those conversations with preliminary building and access site plan. May need coordination with property owners of easement along Dogwood Terrace.
- Flagged potential concern about building footprint increasing and exceeding impervious area threshold where stormwater design would become more in-depth.
- Flagged concern about needing additional survey to complete 60% design plans.
- Flagged concern about potential GAC treatment.

