



Progress Report

Project: Lummi Island Scenic Estates Community Club

Wilson Project Number: 2022-120

Service Dates: Through 2/17/2023

SMALL WATER SYSTEM MANAGEMENT PLAN ASSISTANCE

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

- Provided to LISECC staff for review and comment.

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

- Project list beginning to be considered.

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

Task 1. Alternatives development:

- Alternatives continue to be developed with respect to piping and electrical configurations of the new/existing water treatment plant and raw water pumping and piping systems. Three raw water pumping options have been developed:
 - 1: keep similar configuration of one raw water submersible pump that pumps to a tank in the existing water treatment plant, then duplex pump station similar to existing (but slightly lower head and higher capacity) to pump raw water to new WTP
 - 2: Duplex raw water submersible pumping system in lake, replace all raw water piping to handle high pressure.
 - Benefits: leave existing system as-is until change-over, one raw water pumping system instead of two
 - 3: Duplex raw water self-priming pumping skid in existing WTP, replace raw water piping

- Benefits: no need for submersible pump in lake, leave existing system as-is until change-over, one raw water pumping system instead of two
 - Limitations: potential concern about self-priming functionality
- Task is ongoing.

Task 2. Research and analysis of alternatives:

- Task beginning now as alternatives are developed.

Task 3. Alternatives cost development:

- Task will begin once alternatives have been solidified.

Task 4. Pre-design memo documenting alternatives:

- Memo is progressing.
- Task is ongoing.

Task 5. Pre-design coordination meeting discussing alternatives with staff and board members:

- Will be scheduled once pre-design memo draft has been provided.

PRELIMINARY ENGINEERING REPORT

- Report has been started and will be progressing in conjunction with pre-design efforts.

ENVIRONMENTAL REPORT

- No work on this phase yet – report cannot begin until a recommended project alternative scope has been settled on so that the project extents are known and can be assessed with respect to environmental considerations.

USDA-RD LOAN APPLICATION

- Nick provided LISECC's Unique Entity ID number from sam.gov, and is in the process of reactivating the account.
- Brian contacted the USDA-RD representative to let them know of this upcoming project and begin to discuss application logistics, funding availability, etc.

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:

- Chris Jepson is aware that we will be requesting additional survey. Need to determine recommended project alternatives that will dictate project extents and limits of additional



survey prior to submitting request. Request will include boundary survey, likely Dogwood Terrace roadway prism, likely additional downgradient area from new WTP building site.

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

- Have made significant progress in integrating existing survey information into basemap for project drawings. Have created list of questions/clarifications for Jepson & Associates.

PERMITTING

- Confirmed with Whatcom County no permitting requirements for small tree removal to allow for geotechnical investigation.
- Have had discussions with Whatcom County about setbacks. Conversations are ongoing.
- Permit applications can begin once 30% design documents are nearing completion.

PREPARE CONSTRUCTION DOCUMENTS

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

- WesTech has provided layout drawings for proposed basis-of-design membrane treatment equipment. Building layout will be worked on in conjunction with pre-design efforts.

Task 2. Geotechnical Report for Building Foundation Design:

- Field work for Geotechnical explorations is complete. Bedrock discovered at 3-5 ft depth at proposed water treatment plant location.
- Geotechnical engineer is working on writing geotechnical report.

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

- Will begin once pre-design complete.

Task 4. Construction Stormwater Pollution Prevention Plan:

- Will begin once pre-design complete.

Task 5. 30% Plans and Construction Cost Estimate:

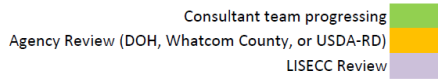
- Will begin once pre-design has progressed further.

Task 6. 60% Plans and further progress of plans, estimate, and specifications: Will begin after feedback provided on 30% Plans.



OVERALL SCHEDULE STATUS:

PROPOSED LISECC WTP DESIGN PROJECT SCHEDULE																		
	2023												2024					
	Jan	Feb	Mar	April	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	April	May	Jun
Geotechnical field work and report																		
Small Water System Management Plan																		
Pre-design memo																		
Preliminary Engineering Report																		
USDA-RD Loan Application																		
30% Design and conditional use permit																		
60% Plans/Specs/Estimate																		
90% Plans/Specs/Estimate																		
DOH Review of Construction Documents																		
100% Plans/Specs/Estimate																		



POTENTIAL ISSUES / CONCERNS:

- As noted above, need to confirm with land owner that everyone agrees about extents of easement and site access for proposed WTP facility.
- Setback for new water treatment plant building: Current layout shows a 7 ft setback from property line, and setback requirement is 20 ft, but there are nuances and potential options related to easement adjustments (as opposed to property line adjustments or building layout adjustments). Will assess information in Geotechnical report once it is provided to assess feasibility of shifting the building ~13 ft south, we will continue to determine the best path forward.

