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San Juan Islands Conservation District

To: Brandi Lubliner, Department of Ecology

From: Linda Lyshall and Mitch Lesoing

Date: 2/6/2015

Re: RSMP Deliverable A1.1

The following is a summary of site visits to confirm suitability, obtain permissions, and develop stage measurement approach.

San Juan Island Site Name:

- 006 OUGA-False Bay Creek West Fork

Staff Gage Location at Index:

- 48 31.576 N., 123 05.943 W.

Permanent Index Fixed Reference Point:

- 1" bolt head on top of Wold Road culvert - N 48 31.578, W 123 05.945

Reference Elevation:

- Top of staff gage is 45.25" below elevation of the 1" bolt on top of 10' Wold Road culvert. (Tape hook nestled along side bolt head, butting culvert.)

Permission:

- Permission secured for access to property from Doug McCutchen and Eliza Habeggar at the Land Bank.

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Suitability Confirmation:

- Identified suitable reach per QAPP; net flow of water is unidirectional, defined left and right banks readily discernible from mid-stream, uninterrupted surface-water flow for 120' to index with bankfull width of 12', anticipate perennial freshwater flow, flow is in a natural channel w/ natural substrate on channel bottom. Safety- banks provide safe ingress and egress, stream is wadable during high water.

Access:

- Index site is located on the San Juan County Land Bank King Sisters Preserve property. Access to the index is from a trailhead off Wold road down an established game trail to False Bay Creek. Parking is a pull-off located on Wold Road 100 yds. up the hill from trailhead.
- Winter flows in the stream channel are wadeable and use of the flow meter will be possible. It would take inordinate conditions for the channel to flood and over top the banks. There will be 4 to 5 months of the year when measuring flow with the meter will not be possible. Anticipate very minimal flow during the dry season.

Monitoring Plan:

- Measure stage from staff gage as well as depth data from pressure transducer. Velocity-area discharge method measuring flow with a Swoffer 2100 meter. Establish cross section; measure and record distance, depth, and velocity to calculate discharge.
- Develop stage-discharge relationship for this index station.
- During low flow; measure stage and estimate the flow volumetrically using a bucket and stopwatch at the Wold Road culvert at attached hanging corrugated foot.

Activity Summary:

- Located Index station and installed a Style C 0-3.33' staff gage attached to a 2x6 fastened to a T-post with accompanying 2"x3’ PVC pipe as a well for deploying a datalogger (pressure transducer). Stage height, water samples and Insitu parameters have been collected /measured at the index. Stream profiling- two optional locations; 3 meters upstream and 2 meters downstream of the staff gage. A Swoffer 2100 and Quanta are the measuring instruments. Permanent datum was surveyed as reference for stage gage elevation and site Index delineation to sea level for future reference.