

San Juan Islands Conservation District

To: Brandi Lubliner, Department of Ecology
From: Linda Lyshall and Mitch Lesoing
Date: 9/30/2015
Re: Quarterly Report – Project Management Status Update

San Juan Island site: 006 OUGA

Name: False Bay Creek West Fork.

Staff gauge coordinates at Index: 48.526210, -123.099040

Deliverable 2.2

SJICD sampled this single site in July, August and September 2015. The summer seasonal flow is greatly reduced and very low, yet consistent. The site remains accessible, wadeable, and safe for the collection of water samples, stage measure, in-situ and flow measurements. The staff gauge is stable, elevation is unchanged with the location serviceable. An alternate stream profile transect was located upstream from the staff gage to access adequate water depth for a flow meter, however, flow was below detection limits for the meter. An alternate method for measuring flow ("timed float") was employed. Stream flow was measured and discharge calculated on 20 July 2015, 09 August 2015 and 14 Sept. 2015.

The real-time "follow-up" communication system assuring sample delivery and pick up with airline carrier and Edge Analytical to meet QAPP time/ temperature matrix for the bacteria sample continues to be required.

Coordinated with and provided assistance to the USGS Watershed Health Monitoring team during their site visit. The Watershed Health Monitoring Team collected samples at the site on Friday, September 18, 2015. SJICD water samples were collected on Tuesday, September 15, 2015, for close proximity to WHM field samples.

Suitability:

Net flow remained unidirectional at the index. Side channel near the mouth of the culvert is completely dry and the reach from the culvert mouth to the staff gage remains clear of obstructions during this quarter's work with the exception of leaf debris resulting from dry weather. Measuring flow with the Swoffer 2100 at the original location below the staff gage is not feasible. Stream profile transect and flow measurements are made approximately 5 - 8 meters upstream of the gage, depending upon depth of the stream each month. Water quality samples are taken near the mouth of the culvert in the stream main current. Anticipate continued low flow rate for the next couple of months. Staff gage is silted up slightly at the base. (This condition is described and documented in the field observation notes.*)

Access:

Permissions have been successfully secured from the San Juan County Land Bank. Vehicle parking above the site for SJICD and WHM crews was approved on Town of Friday Harbor property. WHM "Site Length" was a 150 meter uninterrupted surface-water sampling reach. This metric crossed a fence line with several transects beyond the fence.

Monitoring Plan:

Additions to monitoring beginning in October include the following:

Employ Swiffer 2100 flow meter in favor of alternate "Mid-stream velocity timed float" method for determining velocity and calculating discharge as flow increases and reach water depth accommodates meter prop.

Remediate sediment deposition at the staff gage base with the WHM team and RSMP Coordinator.

Deliverable 3.3

All water quality grab samples for the quarter are 100% complete for MEL and EDGE Analytical samples. All samples were received within laboratory holding times and within temperature requirements. All coolers arrived intact with no breakage as per QAPP/ COC requirements. All in-situ measurements for the quarter were 100% complete and recorded per QAPP. All in-situ meters were pre and post calibrated as per manufacture specifications per QAPP. Calibration data copied and recorded. All In situ field data report forms, Quanta calibration sheets, discharge worksheets and general field notes for July, August and September have been copied as PDF's and e-mailed to RSMP coordinator. All stream flow measurements and discharge calculations for the quarter are 100% complete.