
North Coast Regional Water Quality Control Board

TO: Coastal Pathogen Project File

FROM: Planning Unit

DATE: March 17 2023

SUBJECT: Exclusion of Specific Source Assessment Study Sampling Stations from Fecal Indicator Bacteria and Microbial Source Tracking Data Assessment

As part of the Coastal Pathogens Project (project), North Coast Regional Water Quality Control Board (Region 1) staff conducted a source assessment study in order to identify sources of fecal pollution that correlate to specific land use practices occurring within the project boundaries. Staff collected instream source assessment samples from the 26 sampling stations described in Table 1, between December 2016 and January 2018. Region 1 staff plan to analyze data from 21 of the 26 source assessment sampling stations in conjunction with the Coastal Pathogen Streams Report. Data from 23 of the 26 Source Assessment Monitoring Study sampling stations will be considered during development of the Coastal Pathogen Source Assessment Report. This technical memorandum provides the rational for exclusion of data collected from six of the Source Assessment Monitoring Study sampling stations.

Data collected from six of the 26 sampling stations described in Table 1 will be excluded from Coastal Pathogen Streams Report analysis. These six sampling stations include:

- Hookton Slough at Hookton Road
- Roadside Ditch at Foster Road and Seidel Road
- Roadside Ditch at Jackson Road
- Unnamed Slough at Hunt Check Station
- Unnamed Slough at Long Pond
- Unnamed Slough at Visitor Center.

The Coastal Pathogen Streams Report focuses on comparison of instream *E.coli* and enterococci fecal indicator bacteria (FIB) concentrations to the following thresholds: 1) the statewide numeric bacteria Water Quality Objectives for the protection of REC-1 (fresh and saline waters) and 2) the Region 1 narrative Water Quality Objective for bacteria. FIB data collected from the Roadside Ditch at Foster Road and Seidel Road, and the Roadside Ditch at Jackson Road sampling stations were excluded from the streams assessment since results from these stations represent land use runoff, not instream conditions.

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In addition, staff conducted only one sample event at the remaining four stations identified above. A single sample is not sufficient to compare with bacteria objectives, nor to conduct a fecal pollution source assessment using microbial source tracking techniques. Therefore, data from these four stations will not be considered under the Coastal Pathogen Project.

Table 1 Source Assessment Monitoring Study Sample Collection Details

Station Name	Station Code	Number of Samples Collected	
		Dry Weather	Wet Weather
Campbell Creek at 14th Street and Union Street	110GS6500	1	3
Campbell Creek at 7th Street	110GS5000	1	3
Cooper Gulch at Myrtle Avenue and 8th Street	110CG5000	2	2
Elk River at Zanes Road	110ER6642	2	2
Elk River South Fork at Headwaters Forest	110SF1612	2	2
Freshwater Creek at County Park	110FR4642	2	2
Graham Gulch at Pacific Lumber Camp Road	110GG0100	2	2
Grotzman Creek at Bayside Road	110GR0500	2	2

Station Name	Station Code	Number of Samples Collected	
		Dry Weather	Wet Weather
Hookton Slough at Hookton Road	110HS5050	0	1
Jacoby Creek at Jacoby Creek Road	110JC6316	2	2
Jacoby Creek at Old Arcata Road	110JC0966	2	2
Liscom Slough at Jackson Road	110UNSJXN	1	3
Martin Slough at Campton Street and Fern Street	110MS6750	2	2
McDaniel Slough at Q Street	110MD3750	1	3
Mill Creek at Stagecoach Road	108MC1250	2	2
Roadside Ditch at Jackson Road	110DJXNRD	1	3
Roadside Ditch at Foster Road and Seidel Road	110DSEIDL	0	3

Station Name	Station Code	Number of Samples Collected	
		Dry Weather	Wet Weather
Salmon Creek at Eel River Drive	110SA1720	2	2
Strawberry Creek at Highway 101	108SC0550	2	2
Swain Slough at Elk River Road	110SS9000	2	2
Unnamed Slough at Lanphere Road	110UNSLPHR	1	3
Unnamed Slough at Ranch Road	110UNSRNCH	2	2
Unnamed Stream at Anker Road	109UNTANKR	2	2
Unnamed Slough at Hunt Check Station	110US09HC	0	1
Unnamed slough at Visitor Center	110US18VC	0	1
Unnamed Slough at Long Pond	110US27LP	0	1