

Koch, Ken

0305

From: Dvija Michael Bertish [dvija@pacifier.com]
Sent: Wednesday, December 15, 2004 10:02 PM
To: 303d
Subject: 0305-Burnt Bridge Creek

Ken,

The Rosemere Neighborhood Association has been conducting stormwater samplings for municipal outfalls that flow directly into Burnt Bridge Creek in Vancouver. We have been using Addy Lab in Vancouver to conduct our water sampling analysis.

I would like to submit this data to the Department of Ecology in order that it can be included in the current 303(d) assessments. I understand the cutoff date for submittal is December 17th, so I wanted to get this to you immediately. If I recall, there is a special form required. If you could email that form to me, I would be happy to fill it out and fax it back to you.

Please note the two spreadsheets attached. One spreadsheet contains the data we have been collecting, and the second is the QAPP as provided for Addy Lab relative to our sampling process. This data is unique in that it identifies point source contaminants to the creek flow that are very high in fecal coliform and e.coli. This waterbody is 303(d) listed for fecal coliform.

The most recent data from October 6 and November 15 of this year analyzes fecal coliform, E.coli, nitrates, total phosphorus and ortho phosphorus.

Please let me know how we can proceed with this submittal.

Sincerely,

Dvija Michael Bertish, Chairman
Rosemere Neighborhood Association
360-906-8810

12/22/2004

Burnt Bridge Creek Stormwater Monitoring Plan

Introduction

The following stormwater quality monitoring program is intended to compare stormwater runoff from Burnt Bridge Creek watershed to state water quality standards.

Sample Sites

Linda Lane Outfall to Burnt Bridge Creek

This site is located at the outfall to Burnt Bridge Creek from the underground stormwater retention structure north of Fourth Plain Blvd and west of Falk Road. This major collector conveys storm water from Fourth Plain from Grand to 66th Ave and south along Brandt Road from Mill Plain.

St. John Blvd Outfall to Burnt Bridge Creek

This stormwater outfall to Burnt Bridge Creek is located on the west side of the St. Johns Blvd. collects water from 39th St to 58th St and east from 55th Ave.

33rd and Drummond Stormwater Outfall to Burnt Bridge Creek

This outfall is located under a footbridge upstream of St. Johns. This pipe channels stormwater from 26th Street north to Burnt Bridge Creek north of 33rd Street.

Burnt Bridge Creek at NE 2nd Avenue

Kramer, Chinn and Mayo first used this most downstream sample site on Burnt Bridge Creek in 1976 for the Burnt Bridge Creek Study. This site provides a comprehensive look at water quality from the entire watershed.

Sample Collection

Discrete grab samples will be collected from each of the stormwater outfall at approximately mid-stream and mid-depth, when it can be done safely. Every attempt will be made to obtain a representative sample from the flow. Sample bottles provided by the laboratory will be filled to appropriate levels.

Sampling Schedule

Sampling frequency will be based on weather conditions. Samples will be collected to measure the effect of storm events after periods of dry weather (at least three days). Three separate storm events will be measured.

Labeling

Each sample will be labeled with a unique identifying name and or number, date and time of collection, name of person collecting the samples, project name (RNA) and analysis required.

Storage and Transportation

Samples shall be placed in a cooler on ice, and then transported to the laboratory (should be less than one hour for this project). All samples will be refrigerated at 4°C when arrived at AddyLab. Samples to be sent to a reference laboratory will be sealed with custody seals when transported by courier. Custody seals will have the date of sampling, sampler initials or name and bottle numbers of total bottles. Samples are refrigerated until they are picked up, usually the next business day.

Chain-of-Custody

To insure sample integrity from sampling to data reporting a chain-of-custody form shall be used. The laboratory conducting the analysis will provide the chain-of-custody forms.

Laboratory Analysis

Only laboratories accredited by the Washington State Department of Ecology shall conduct analyses.

Quality Control

A sample will be collected at random from one of the sites as a duplicate (collected at the same time) without identification as to time and location.

Laboratory check standards, duplicate samples spiked samples, and blanks are required. Information regarding the laboratory quality measures will be provided in a Level II Deliverables Package.

Date	location	Field ID	weather	time	Q-tray e.coli/dl	MPN	LTB	nitrite-N	Nitrate-N	NO3+NO2	Orthophos	T. Phos.	Fecal 1,0,1, 0,01	FC/100ml	Turbidity	
11/4/2002	112th Ave	no gage	cold/sunny	10:33	7	<30	1.0, 1, 0.01			Total					<30	
	18th St	2.84	cold/sunny	10:55	1046	2400	5,5,2						5000	5,5,0	2400	
	NE 2nd Ave	4.45	cold/sunny	10:15	285	500	5,5,1						3000	5,1,1	500	
12/10/2002	112th Ave	no gage	rain		1120	800	5,3,0								800	7.8
	18th St		rain		4106	5000	5,5,3								5000	9.5,9.8
	NE 2nd Ave		rain		1396	3000	5,5,3								3000	64.1
1/21/2003	112th Ave	no gage		14:15	3.1	<20									<20	
	18th St	2.87		14:00	178.5	1400									1400	
	NE 2nd Ave	4.65		13:45	179.3	3000									3000	
5/19/2003	NE 2nd Ave				285.1										500	
3/16/2004	NE 2nd Ave				65.1										70	
5/12/2004	NE 2nd Ave				298.7											
4/13/2004	T-Bird				461.1											
	25'below pond				410.6											
	18 St				579.4											
Date	location	Field ID	weather	time	Q-tray e.coli/dl											
6/6/2004	Bertish	39th & U St	1 rain event	1622	>2,419.2											
	Bertish	37th & R	2 rain event	1632	478.5											
	Bertish	41st Cir& P	3 rain event	1358	1,299.65											
	Bertish	I-5 Br.Col R	4 rain event	1817	>2,419.2											
	Bertish	BBC Andresen West	5 rain event	1849	396.8											
	Bertish	N. end of X St	6 rain event	1642	1,413.80											
	Bertish	St Johns outfall	7 rain event	1655	547.5											
	Bertish	2nd Andresen outfall	8 rain event	1842	1,413.60											
	Bertish	1st Andresen Outfall	9 rain event	1835	1,119.85											
7/18/2004	Bertish	Andresen Mall Outfall	1 dry	13:29	235.9											
	Bertish	St.John ravine/Arnold Park	2 dry	14:23	23.5											
	Bertish	Andresen Heights outfall	3 dry	13:45	88.2											
	Bertish	Joes Crab Shack	4 dry	12:15	1.0											
8/19/2004	Miller	BBC at Thunderbird Bridge		1205	648.8											
		BBC at 18th St Bridge		1155	1,299.65											
		Burnt Bridge Creek Storm														
Date	location	est. flow	weather	time	Q-tray e.coli/dl	MPN	Fluoride mg/l	nitrite-N mg/l	Nitrate-N mg/l	NO3+NO2 Total	Orthophos mg/l	T. Phos. mg/l				
10/6/2004	Sampled by Carl Addy															
	AdddyLab					Coliform										
"	Linda Lane Outfall	10 cfs	rain event	0:58	>2419.2	5000	0.32	0.084	1.76	1.84	0.15	0.48				
"	St John's outfall		rain event	1:25	>2419.2	8000	0.06	0.04	0.28	0.32	0.13	0.24				
"	33rd & Drummond Outfall	2 cfs	rain event	1:41	1732.87	3000	0.07	0.04	0.42	0.46	0.14	0.27				
"	BBC and NE 2nd Ave	gauge4.76	rain event	1:58	>2419.2	3000	0.1	ND*	1.01	1.01	0.03	0.20				
"	Duplicate		rain event	1:41	2419.2	7000	0.08	0.04	0.42	0.46	0.14	0.26				
					236	100				0.3 algae		0.05				
Date	location	est. flow	weather	time	Q-tray e.coli/dl	MPN	Fluoride mg/l	nitrite-N mg/l	Nitrate-N mg/l	NO3+NO2 Total	Orthophos mg/l	T. Phos. mg/l				
11/15/2004	Sampled by Carl Addy	cfs														
	AdddyLab					Coliform										
"	Linda Lane Outfall	3	rain event	11:23	365.4	40				2.63	ND	0.09				
"	St John's outfall	10	rain event	11:54	1299.65	1700				0.17	0.13	0.35				
"	33rd & Drummond Outfall	2.5	rain event	12:14	1046.24	9000				0.17	0.06	0.24				
"	BBC and NE 2nd Ave	4.71	rain event	12:37	648.8	1100				1.05	0.03	0.15				
"	Duplicate		rain event	11:23	307.6	200				2.65	ND	0.09				
					236	100				0.3 algae		0.05				