

DECISIONS AND ACTIONS

Steering Committee Wednesday, September 18, 2019

Victoria Canoe and Kayak Club

Present: Bill Thomas, Jacques Sirois, Rick Daykin, Don Munroe, Ann Klein, Morley Eldridge, Sara

Stallard, Brian Koval, Natalie Bandringa, Kitty Lloyd, Alaina Dowling (GWAS), John Roe,

Brianne Czypyha, Yogi Carolsfeld, Dorothy Chambers

Barri Rudolph (CRD), Susan Low (Emergent Sustainable Solutions), Kate MacDonald **Guests:**

(DFO) Kevin Brown (Saanich Advisory Committee)

DECISIONS									
1	Make inquiries about year-round water quality sampling in the Gorge								
Next Meeting: 20 November 2019									
	ACTIONS	ACTION BY	DUE						
1	Reach out to local First Nations to invite them to take part in the GWI	Natalie/Kitty	Soon						
2	Make available Transport Canada reports re: Gorge	Kitty	ASAP						
3	Harbours Speakers Series topic: Stormwater monitoring throughout our harbour systems	Kitty/Barri	Winter/ Spring						
5	Ask Dan S. to connect with Peninsula Streams as they would like information or a presentation about the Saanich Peninsula Stormwater Bylaw.	Natalie	ASAP						
4	Send out concept paper that Susan Low sent to Kitty earlier	Kitty	(done)						
5	UVic annual Gorge rowing race. Ask the rowers not to go up into the Portage Inlet as it is critical habitat for both high migratory bird and salmon migration season.	Sara S/ Rick D	ASAP						

INFORMATION

Agenda review:

Jill Robinson unable to attend, update on Elk/Beaver Lake Initiative is below.

Territorial acknowledgement:

Natalie acknowledged that we all work and volunteer on unceded territory of the Songhees and Esquimalt First Nations.





Review of action items from May 15, 2019 meeting:

Monitoring of swimming beaches (from Chris Lowe, CRD, Manager of Marine Monitoring):

https://www.islandhealth.ca/learn-about-health/environment/recreational-water-beach-reports

"CRD staff have been directed to include funds in the 2020 budgets required to undertake the Island Health summer recreational beach sampling on behalf of municipalities, CRD Parks, and Salt Spring Island Electoral Area. These budgets will be reviewed in November and final approval would come through in the spring 2020. Staff have also been tasked to poll municipalities RE potential additional monitoring locations; any additional locations would have to be approved by Island Health as they're going to continue paying the analytical costs."

- Recreational waters and beach reports update about which beaches are high in fecals, Sara Stallard does the monitoring for Esquimalt. Sara independently added another sampling site due to knowledge of past history of high fecals (Enterococci) at certain sites in the creek area;
- CRD is asking municipalities whether there are additional beaches that they want sampled; depends on budgets
- Samples are now sent to Burnaby for analysis, this adds to the delay in getting results in a timely manner; looking into other options

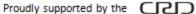
Salmon fin clipping (Bill Thomas):

Another fin clipping event will take place on October 2, need to clip another 120K fish; fish are larger now than in spring, easier to handle; had 8 volunteers from WFT to help at last event

Presentation: 2018 Stormwater Monitoring in the Gorge Waterway and Portage Inlet Barri Rudolph, CRD Stormwater Monitoring Program Supervisor (see attached PDF of slides)

- CRD role is mostly to monitor, CRD doesn't own the infrastructure. When a problem is detected, municipality is notified
- All stormwater discharges are monitored for bacteria, also for metals, nutrients, and other parameters
- Creek monitoring every 5 years do a 5 in 30 sampling in the creeks, guided by water quality guidelines set by province
- Levels over 200 E. coli/100 ml is considered elevated
- Discharges are high rated if likely to be contacted by people swimming or playing in the water, with over 5,000 E coli
- 7 high rated discharges of concern ongoing for several years, e.g. Gosper Crescent, stormwater is currently being diverted to sewer
- Uganda Ave Esquimalt found a combined manhole, on the list to be repaired
- Legend for levels of concern for ratings on map:
 - Squares are public health ratings;
 - Triangles are sediment (not as many of these are routinely taken)
 - Black means high risk; orange is moderate, yellow is low risk
- On Gorge Vale golf course, high mercury levels were found, this has been a problem for at least 9 months
- John the playing field at Esquimalt High School was a dump in 1890s, and has never been remediated; outlet went through ponds, now those have been covered up
- Sara's samples for Enterococci were taken at the mouth of Gorge Cr and in front of the swimming beach, the creek was more elevated







- Rick if results are high at the end of Island Health's monitoring window (ie. May Sept) does that mean the high rating will stay up all winter?
- Would Esquimalt be prepared to continue sampling? No, there's no more budget for 2019
- \$75/sample in labour. IH pays for analysis [Clarification after discussion with Chris Lowe: In the past, Island Health would continue to monitor a beach that had a high public health concern rating after the regular season, until the rating was lower and warnings could be taken down. With new sampling protocol, we have to see if municipal budgets will allow for continued monitoring. Remains to be determined how this will be addressed in future1
- Q: Do we have any idea how much pollution comes from geese?
 - A: There is a way to measure this: bacterial source tracking (BST), to determine the source of fecals, but results do not show proportion of different species. We have to find a new lab source to get BST testing done
- Should we write a letter to Island Health and the municipalities to request that this sampling be continued? Yes
- Would be good to test all of the harbour, not just the Gorge above the Selkirk
- How do enforcement officers fit in?
 - Needs to be a bylaw for enforcement, such as the Peninsula Stormwater Bylaw which covers stormwater going into drains from businesses
- Dan Saprunoff at CRD is the one to talk with
- City of Victoria has stormwater technologists that enforce a similar bylaw to the one on the peninsula; mostly complaints-generated
- Burnside Gorge Community Association started a best management practices for automotive industry, then ran out of funding for this program, has CoV taken this up?
 - There is some monitoring by CoV staff, but not same level of monitoring as on the Saanich Peninsula
- Discharges at Glenvale strata now cleaner; below 928 Selkirk counts fluctuate; Banfield Park better but flows are reduced

Summer bacterial beach monitoring (Barri Rudolph):

- Island Health is no longer going to do the collections, but will continue to pay for lab analysis. This has been the norm at other island locations for a while.
- Looks like CRD will do the sampling, is currently looking at the costs for a regional summer beach sampling program

Marine Monitoring (Barri Rudolph):

- 2018 5 in 30 sampling in Gorge and Portage Inlet, (6 sites); Barri thinks we need another site along the Gorge near Curtis Pt
- In the presentation slides, PPCP = pharmaceutical and personal care products

Parameters above levels in the water quality objectives:

- DO (dissolved oxygen) at most stations
- Cu (copper) in 2 stations
- Zn at 2 stations
- FC fecal coliforms 2 in Gorge, all in Portage Inlet
- Enterococci
- Cecelia Cr most parameters were above guidelines
- Mayfair Mall probably no sampling or remediation was done before all the excavations happened, for groundwater storage that was previously there



- John referenced some data that he gave me a couple of months ago from Transport Canada ACTION –Look this up and send to links GWI
- Caffeine and personal care products: the detection limits were guite high
- Q: would Barri be interested in doing a speakers series about these parameters for the whole harbour system? Yes - ACTION

It will be interesting to see whether these parameters decrease after sewage treatment is started

Q. Peninsula Streams would like information or a presentation about the Saanich Peninsula Stormwater Bylaw, who can we ask? ACTION – Natalie, get Dan to contact Brian K.

Presentation: Special Management Area Proposal for Colquitz/Gorge watershed

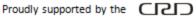
Susan Low, Emergent Sustainable Solutions (see attached PDF of slides)

- used to be Streamkeepers Coordinator for lower island
- also was with SIASS when they had funding for salmon stewardship
- here today as a consultant hired by the Songhees to speak with GWI about Songhee's Special Management Area Proposal for Colquitz/Gorge watershed
- today initiative of the Te'mexw Treaty Association, Songhees are members, negotiating a treaty that includes identifying areas for special management; identified Colquitz and the Gorge as areas of special interest
- want to be involved in land use decisions, managing the areas, sustainable salmon populations in the Colquitz, and sustainable herring populations in the Gorge
- reaching out to local governments, other levels of government
- arranged for 3 initial meetings, held the first two in May, June, 3rd one is this Friday
- want to find ways to be involved in decision making
- starting with a protocol agreement with stakeholders
- GWI could get involved at this stage; stewardship groups have great depth of knowledge of local areas; experience collecting information, making observations, good knowledge of what the issues are, what's needed to restore natural systems

Looking for:

- municipalities will be main organizations
- have put together a term sheet for how groups will be organized, how decisions will be made,
- want to have a technical committee to help provide information to the group that is making plans and decisions; don't know what this technical committee will look like, who will be on it, how it will work
- Next Steps see slides for details
- Songhees will provide the secretariat
- Prepare a state of knowledge report similar to one that the UVic Environmental Law Centre did in 1997, but bring it up to date
- Collect baseline data, analysis of municipal and CRD monitoring programs, what are the gaps, bring all to same level of data collection, what is currently in place, get other areas up to same level
- Goal of organization improve habitat and environmental quality so that salmon and herring (and oysters, etc.) populations will be enhanced
- Want a technical committee to inform the decision making by the main committee on land use and infrastructure, etc.
- Want consistency between municipalities, work together to attract funding
- Q: plan sent out earlier reflects similar information that is collected by groups like the Colquitz Coalition, Peninsula Streams





- Plan is for annual monitoring, will hire someone to do this, could be someone from this group
- To accomplish the goal, have no preconceived notion of what's involved; want to bring in people that already have much of the needed knowledge
- ACTION send out concept paper that Susan sent to Kitty earlier
- Both Dorothy and Yogi read the concept paper and sent reviews, have heard nothing back from the Sonahees
- The partnerships here are very interested in working with the Songhees and other FN, but don't necessarily want to gather information that is given over and then walk away
- Brianne sounds like the Songhees want to take this on and house the information that has been gathered by other entities. Where is the funding coming from? What is the regulatory framework? What is going to be asked of the municipalities? Is this part of the reconciliation process?
 - A: coming as a treaty-related measure, (federal and provincial funding), ongoing funding -Susan has not been told where this has come from
- Concept there's no desire to be telling the municipalities what to do
- Esquimalt, Highlands, Saanich, CRD, View Royal, CoV, DFO, Env CC, various provincial ministries, Langford, Central Saanich plus a few more are involved
- Voluntary membership, collaborative organization, consensus based decisions; evidence based decisions:
- ACTION: send out the documents that Susan sent me earlier
- Q: re staffing will there be duplication in monitoring of parameters already being monitored?
 - A: Have not decided what the parameters will be;
- Comment: this sounds like a proposal made by John Roe and others a long time ago, for an overarching authority for the Gorge Waterway, proposal included removal of all the docks, that didn't fly with most people.
 - A: this is not to be an authority, coming together with a common goal; maybe want to take on ideas such as CoV stormwater bylaw. More like a model bylaw that can be changed and adopted as desired

McKenzie Interchange Update:

Via email from Joanne Letkeman, Ministry of Transportation and Infrastructure

"Here is a quick McKenzie construction update for the period since our last report:

Habitat Restoration (MoTI Environmental – Sean Wong)

- Creation of 3 new tributaries to the Colquitz River
- Completion of two Habitat ponds at the Interchange Storm outlets
- Native Plant landscaping
- Completion of walking path

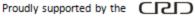
Recent Progress:

Retaining walls near Marigold School along the Galloping Goose Trail (GGT) nearing completion

McKenzie Overpass:

- Completion of the main bridge pier (July 15)
- Erection of the bridge girders (July 20-21)
- Bridge Deck pour (August 28)

Began application of topsoil on finished and graded slopes



Upcoming work:

Final Hwy1 Detour

- Completion of Hwy1 off ramp to Admirals
- Shift traffic to final grade on Admirals
- Shift Traffic on to final grade South bound on McKenzie.

The estimated long term forecast for the project is:

- Traffic on the Bridge Nov 2019
- Traffic on Hwy 1 free flowing under the bridge Winter 2019/2020
- Paving of the GGT (Less 300m) Dec 2019
- Total project completion Summer 2020.

The draft options report for Garry oak and trembling aspen mitigation will be completed this fall and we hope to be able to present it to your group before the end of the year."

News Flash Oct 11: Matt Fairbarns will be presenting this at the Nov. 20 meeting

Elk/Beaver Lake Initiative update

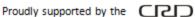
Via email from EBLI Coordinator Jill Robinson (unable to attend)

"Two plans are underway to address high nutrient levels in Elk/Beaver Lake. These plans aim to reduce frequency of blue-green algae, improve fish habitat and manage growth of Eurasian milfoil.

The development of an in-lake remediation plan is underway to address internal sources of nutrients in Elk/Beaver Lake. These nutrients have accumulated over decades in the lake and bottom sediments and are continually recycled back into the water column under low-oxygen conditions. The in-lake remediation process is guided by expert consultants and an Intergovernmental Working Group (IWG). On Sept 11, 2019 staff brought forward a Report and Business Case to the CRD Board outlining the values of the lake (over \$10 million annually) and a recommendation to remediate the lake. The CRD Board approved the recommendation to move ahead with the in-lake remediation of Elk/Beaver Lake, subject to receiving at least 50% capital grant funds for the project. This recommendation includes the installation of oxygenation systems in Elk/Beaver Lake to improve water quality at a capital cost of \$1.4 million and ongoing operational costs of \$100-150 thousand annually. For more details and to watch a video of the Board discussion and decision online (go to Section 8.9 19-755 Elk/Beaver Lake Remediation). Staff are working to develop a funding plan to support the project and will be publishing a Request for Proposals (RFP) to develop a detailed remediation plan (sizing and siting) this fall/winter.

The development of a watershed management plan is also underway to address external sources of nutrients through a public engagement process. External sources of nutrients come from urban development, forestry and agriculture surrounding the lake. CRD staff is currently facilitating a public engagement process to develop the plan. Please sign up to register for a workshop on Sept 26 and Oct 3 (7:30-9pm) at the Saanich Commonwealth Place. Go to the Elk/Beaver Lake Initiative website for more details and to sign-up. www.crd.bc.ca/elkbeaver. Following these workshops, staff will develop a draft plan that will be made available to the public for review prior to going to the Board for approval.

Lastly, staff are working to conduct a survey of the Eurasian milfoil coverage and abundance on the lake (to collect baseline information), install the hydrometric station at the Beaver Lake dam to measure lake levels and flow, and update communications and physical signage around the lake for blue-green algae notices and advisories."



Partner Updates (sent to Natalie via email as we were out of time)

Peninsula Streams:

Rock Bay Creek Revival - Community Watershed Celebration Saturday, September 21, 2019, 1 - 4 pm; Alexander Park - 1333 Walnut Street

Maltby Lake Work party, BBQ and Swim: Sunday, September 22, 2019, 9:30 am - 12:30 pm Tetayut and Saanichton Bay Cleanup: Wednesday, September 25, 2019, 5:30 - 7:30 pm

Esquimalt: Esquimalt Waterfront Park Projects Input

As part of the Mcloughlin Amenity funds for waterfront park projects in Esquimalt, community engagement has begun with a successful open house that was held on September 11, 2019 from 6 pm to 8 pm at Esquimalt Gorge Park. A second open house will be held today, September 19, 2019, from 6-8 pm at the Esquimalt Recreation Centre to solicit feedback on the conceptual artistic renderings. In addition, for those who were unable to attend the open houses the public can access our Township of Esquimalt website to complete an on-line survey to provide feedback on the waterfront park conceptual drawings from September 11-29.

Branch Out Events at Esquimalt Gorge Park

We have 3 park restoration events planned for the banks of Gorge Creek in Esquimalt Gorge Park with the Greater Victoria Green Team. If you are interested in volunteering for any of these events, please register on the Greater Victoria Green team website.

October 5, 2019, 9:45 am - 1:00 pm Focus on invasive plant removal

October 26, 2019, 11:00 am - 2:00 pm Focus on tree and shrub planting with TD Green Team

November 16, 2019, 9:45 am - 1:00 pm Focus on invasive plant removal

Hybrid Rhododendron Planting at Esquimalt Gorge Park

We are planting 30 hybrid rhododendrons as part of the expansion to the existing rhododendron garden in Esquimalt Gorge Park. This is a partnership with the Victoria Rhododendron Society. October 26, 2019, 10:00 am - 1:00 pm

CRD Harbours Program and Coordinator Updates (Natalie and Kitty)

Update: Colquitz Creek crossing at Marigold Ave, CRD Wastewater Treatment Project Via email from Kevin Simpson, Environmental Manager, CRD Wastewater Treatment Project

"As part of construction of the Residual Solids Conveyance Line for the Wastewater Treatment Project, a sewer pipeline has been installed beneath the Colquitz River on Marigold Road. The contractor began this work in late August. During installation of two coffer dams and while the work zone was being dewatered, sediment was released downstream. The contractor reported the release to EMBC and paused work while a new plan was developed.

The contractor submitted a revised construction plan to the CRD in September, which included a different damming method, a pump around system, and additional environmental control measures.

Last week, the pipe was successfully installed underneath the river, the stream bed was stabilized and the flow of the river was re-established. Work at the site ceased due to the challenging conditions brought on by the high volume of water from the heavy rainfall last Thursday. Site restoration work, including bank stabilization with rip-rap, placing of spawning gravel, and riparian vegetation planting continues is now underway and is expected to be completed shortly. The restoration work is being completed in accordance with a plan approved by the District of Saanich.





Since the start of the work, qualified environmental professionals have been monitoring the site daily and water quality has remained within the BC Water Quality Guideline for turbidity.

If you have any questions about this work or the Wastewater Treatment Project in general, please contact them."

CRD Harbours Ecological Inventory Pilot Project:

Archipelago Marine Research was contracted this summer to investigate the potential to use remote sensing techniques to re-do a downscaled version of the baseline ecological inventory of the harbours completed in 1999-2000. A Harbours Atlas stakeholder/user group workshop will take place in November to look at results of the pilot and seek users' needs.

The projects overall objective is to update ecological inventory, classification and visualization (to be on CRD Regional Map) in order to provide data that can inform land use decisions and direct protection and restoration efforts around the harbours, and link to other mapped data (i.e. stormwater discharges, bird survey, fish data, eel grass).

CRD Climate Action Program update:

The CRD and municipal partners were successful in obtaining an external grant to develop flood models and mapping for present day coastal flood hazard, future coastal flood hazard with sea level rise and inundation modelling from multiple tsunami sources. This project will build upon past studies to provide refined information to the region to better understand coastal flood hazards. Outcomes will support CRD, municipal and First Nation and other regional stakeholders in decision making related to coastal land use, infrastructure, emergency management and flood hazard plans, policies and programs. The project is ongoing, aiming to be completed by mid-spring 2020.

Adjournment: 9:30 pm





Stormwater Monitoring Program

CRD Environmental Protection Division



Our Program



- Guided by LWMP commitments
- Works with local governments, First Nations, various jurisdictions & communities to maintain healthy watersheds & protect near shore receiving environments.



Our Program



The CRD roles include: monitoring, reporting, source investigation, prioritizing issues, education, collaboration and source control



Monitoring – Gorge and Portage Inlet



SW discharges

- bacteria (some metals & hydrocarbons)
- annually

Cecelia, Craigflower & Colquitz

- bacteria, nutrients, metals, physical parameters
- every 5 yrs

Marine water

- bacteria, nutrients, metals
- every 5 yrs



2018 Stormwater Discharges – *E.coli*



- 145 SW discharges in Gorge
- 51 monitored by CRD in 2018 (including high and moderately-rated)
- 35 had elevated bacteria counts (>200 E.coli /100 mL)
- 12 of these had high counts (>5000 E.coli /100 mL)
- 7 assigned a high-public health concern rating



Photo by Sara Stallard

2018 High-rated Discharges – *E.coli*



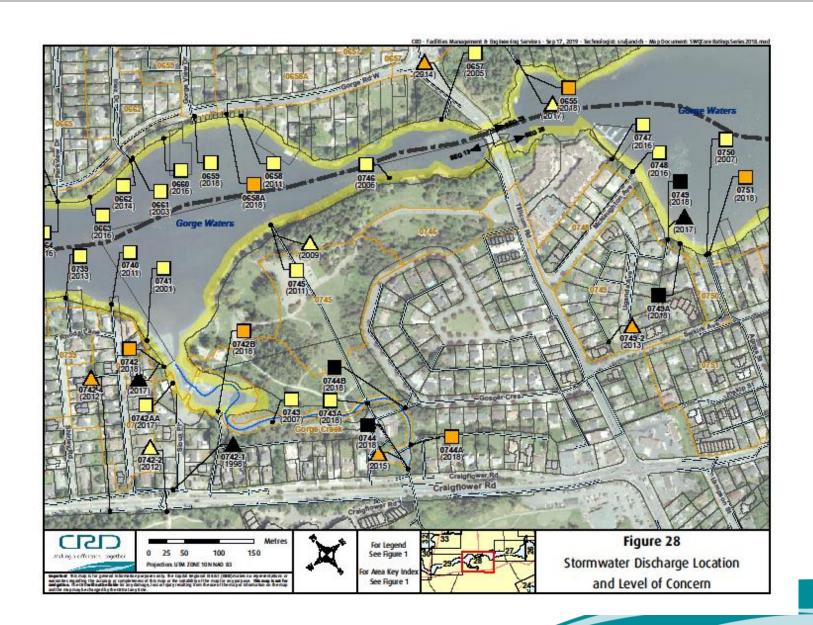
- 641 –Cecelia Creek; one source fixed in 2017; old infrastructure; investigations continue
- 649 Gorge Road Hospital contacted
- 650 –end of Harriet Road CRD to do source investigations; dry in summer
- 744 –Gorge Creek lower counts; CRD to do investigations if counts go up
- 744B –Gorge-Esquimalt Park; Gosper Cres.; cross-connection(s); Esquimalt dye-testing; currently diverted to sewer
- 749 –Uganda Ave Esquimalt found a combined manhole – on the queue for repairs
- 749A old log spillway between 930 and 936
 Selkirk Ave Esquimalt looking for source





High-Rated Discharges





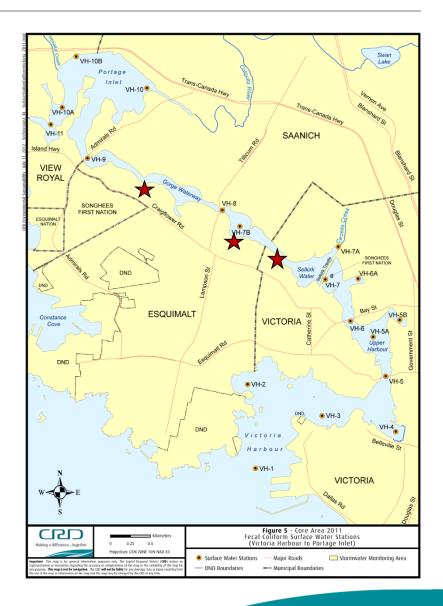
2018 Lower rated discharges



736A- Glenvale strata; cross-connection **repaired** in 2018 – counts lower

751 – below 928 Selkirk; counts fluctuate; no human bacteria identified

758A – Banfield Park; counts fluctuate; one source fixed; flows greatly reduced; dry in summer



Summer Bacterial Beach Monitoring



Island Health – no longer sampling

2019 – Esquimalt Parks- Bi-weekly sampling

2020 - CRD asked to look at costs for regional summer sampling program – under SW monitoring service





Summer Bacterial Beach Monitoring



2019 – Esquimalt Parks

- Gorge-Esquimalt Park
- Fleming Beach
- Banfield Park Dock once for swim fest (Yogi)



Current beach advisories at:

- Fleming Beach
- Gorge-Esquimalt Park

Sources are unknown but likely a stormwater influence as well as birds and dogs.



2018 Marine Monitoring



- weekly marine sample collection
- 5 weeks in summer and in fall
- 28 locations –6 in Gorge and Portage Inlet
- bacteria, metals, physical parameters
- caffeine and PPCP once
- compared results to draft WQO





2018 Marine Monitoring Results

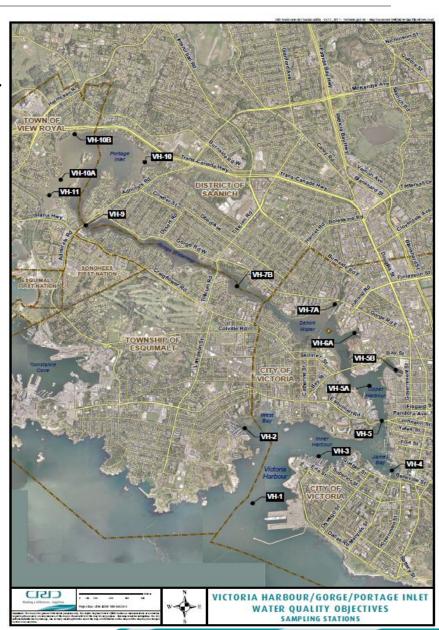


Some parameters outside the objectives

These parameters had exceedances in other areas as well (see handouts).

Less metal exceedances observed in 2018 compared to 2011/2012 – likely due to lower detection limits



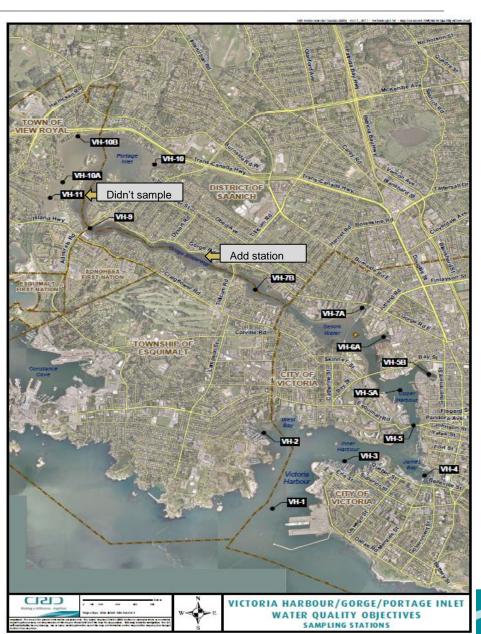


2018 Marine Results



Parameters outside the objectives

- DO :
 - all stations except 2 in Portage Inlet
- Cu:
 - 1 station in Gorge (Cecelia -VH-7A),
 - 1 in PI (VH-10)
- Zn:
 - 1 station in Gorge (Cecelia -VH-7A),
 - 1 in PI (VH-10B)
- FC:
 - 2 stations in Gorge (VH-7B, VH-9),
 - all in PI
- Enterococci:
 - 1 station in Gorge (Cecelia -VH-7A,
 - all in PI



2018 Cecelia Creek Monitoring



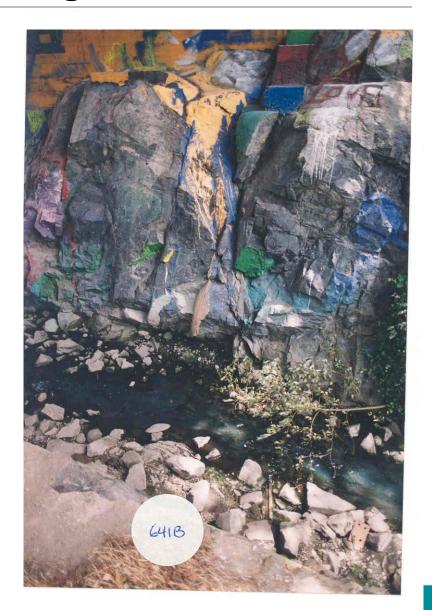
weekly sample collection

5 weeks in summer and in fall

3 locations

bacteria, metals, physical parameters comparison to WQG and WQO





Cecelia Creek Monitoring Results

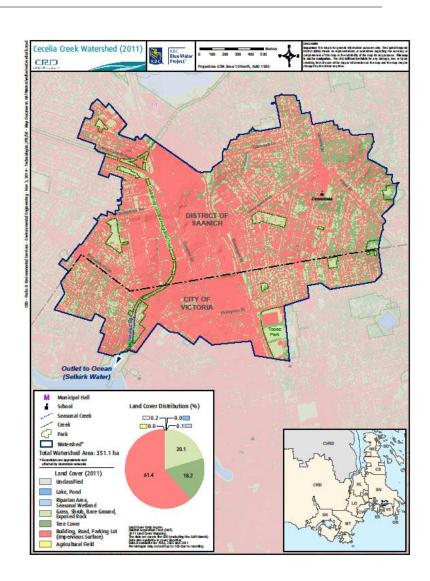


Parameters outside the objectives:

- DO
- Cu
- Zn
- Phosphorus
- Nitrate
- Temperature
- DO
- Turbidity
- TSS
- Iron
- E. Coli

Same parameters as 2013 (previous intense sampling), except iron: elevated once during heavy rainfall.

CRD to continue to work with municipal staff on source investigations and spill response



Questions?





Extra slide: Marine Results



Gorge Esquimalt Park

23/05/2019 – Enterococci : 2
04/06/2019 – Enterococci : 18
04/06/2019 – Enterococci : 7
20/06/2019 – Enterococci : 3
03/07/2019 – Enterococci : 36
18/07/2019 – Enterococci : 37
18/07/2019 – Enterococci : 39
31/07/2019 – Enterococci : 13
16/08/2019 – Enterococci : 76
16/08/2019 – Enterococci : 40
29/08/2019 – Enterococci : 90

Extra slide: Marine Results



Gorge Esquimalt Park

23/05/2019 – Enterococci : 2
04/06/2019 – Enterococci : 18
04/06/2019 – Enterococci : 7
20/06/2019 – Enterococci : 3
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18/07/2019 – Enterococci : 37
18/07/2019 – Enterococci : 39
31/07/2019 – Enterococci : 13
16/08/2019 – Enterococci : 76
16/08/2019 – Enterococci : 40
29/08/2019 – Enterococci : 90

2018 Marine Results – Caffeine and PPCP



Measured once October 31, 2018

Caffeine detected in 5 of 6 stations in Gorge and Pl.

Detected concentrations ranged from:

0.106 µg/L in VH-07B (downstream of Tillicum Bridge) and

0.828 µg/L (VH-07A at the mouth of Cecelia Creek)

None of the PPCPs was detected

	VH-07A	VH-07B	VH-09	VH-10	VH-10B	VH-10A
	Mouth of Cecelia Cr.	Downstream of Tillicum Bridge	Admirals Bridge	Colquitz Creek Mouth	Between Hospital Cr. and Discharge 695	Christie Point
Acetaminophen	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100	< 0.100
Caffeine	0.828	0.106	< 0.100	0.107	0.142	0.141
Carbamazepine	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Fluoxetine	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Primidone	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sildenafil	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Sulfamethoxazole	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Trimethoprim	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020	< 0.020
Data are in µg/L						
detected values are bold						



Where are we?

- •Te'mexw Treaty Association
- Songhees Nation
- Emergent Sustainable Solutions
- •Municipalities, Provincial and Federal Governments
- •3 Initial meetings



Informal **Regional District Protocol** Regional Not for profit **Federally or Delegated** agreement to agreement/ **District Service** society **Provincially** Commission work together mandated memorandum voluntary • registered as a Commission enabled or no written society enabled under enabled through required by understanding agreement the Local • clear the CRD **legislation** voluntary Government membership governance documented could include voluntary or structure Act voluntary municipalities required voluntary and First Nations participation voluntary

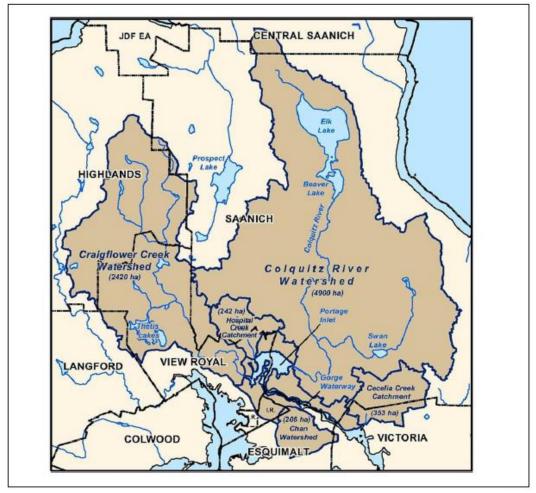
Range of possible governance/collaboration structures for special management areas

Worksheet: Preliminary SMA Boundaries

DISCUSSION INSTRUCTIONS:

Using the map below consider the preliminary working boundaries proposed for the SMA. Will these boundaries suffice as preliminary SMA boundaries? It is anticipated that these preliminary boundaries would be refined at a later date with advice from technical advisers.

Yes 🗆 No 🗆



Where do you come in?



- Your groups have been doing excellent work for decades
- Stewardship groups carry a lot of knowledge of what is needed and how the system works
- You have experience working with one or more municipalities, levels of government, as well as many First Nations

Next Steps

Oct 2019 - Apr 2020

- Form steering committee members appointed by their respective organizations
- Draft protocol agreement
- Circulate to members for approval
- Hold protocol agreement signing ceremony
- Seek long term funding
- Establish secretariat
- Establish technical advisory group

Apr – July 2020

- Prepare state of knowledge report
- Collect baseline data
- Analysis of municipal/CRD policies

August-Dec 2020

- Adjust GCSMAC area if appropriate
- Develop a 5 year strategic plan
- Implement/execute strategic plan
- Develop a communications and outreach plan

Jan-April 2021

- Implement/execute strategic plan communications and outreach plan
- Implement/execute
- Evaluate progress

2021 & Beyond

- •Implement/execute strategic plan
- Annual monitoring and reporting

