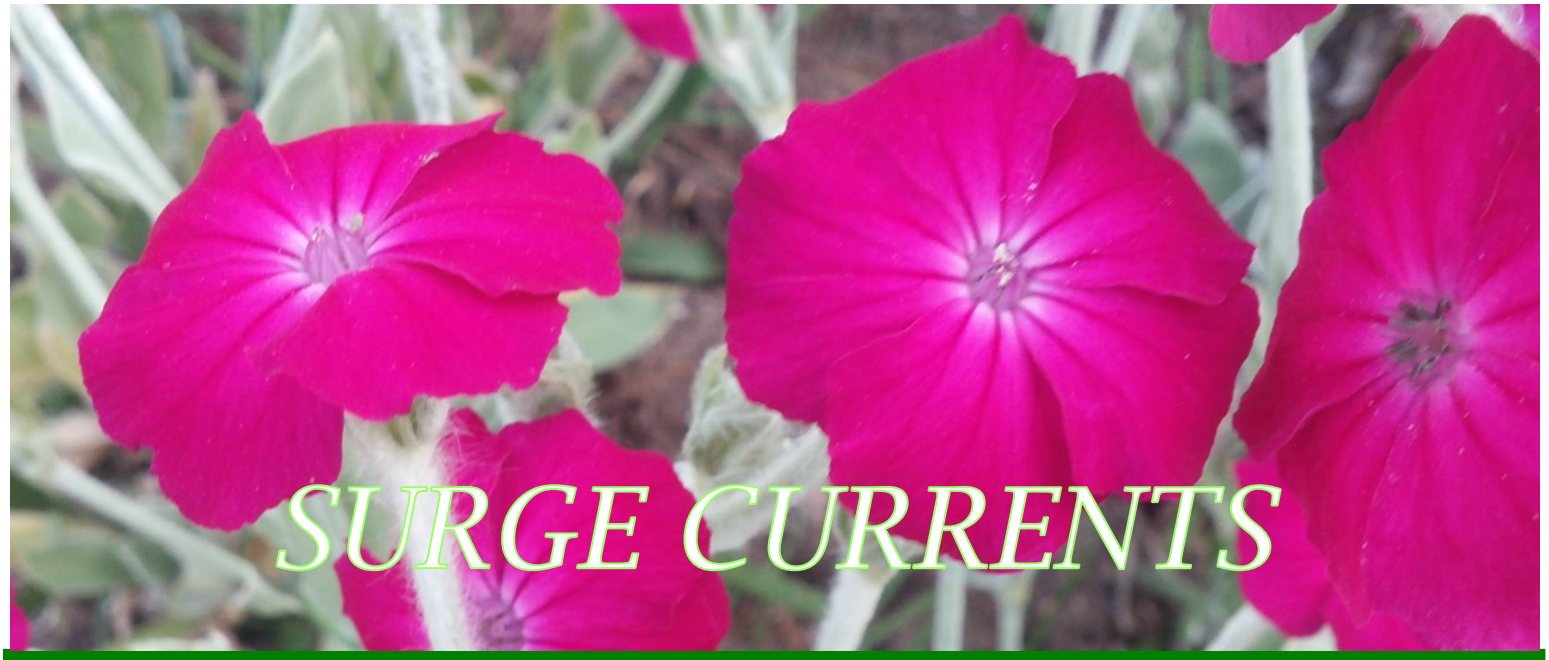


S.N.C.A. Volume 150 July 2019

A Walk on a Small, Precious Piece of the Wild Side...Lot 302

Stepping off Tipton Road into the forest pathway on Lot 302 is to step into a zone of magnificence, a remnant of what once was the norm in our coastal rainforest. On June 5th, I had the good fortune to share this walk with a few other Read and Maurelle residents, the students from the Surge Narrow Elementary School and a group of 20-25 high school students who had fortuitously arrived just in time to accompany us as part of their kayaking and leadership course.

Lot 302 meets Lot 309 as shown on the map below. Together they give us an opportunity to develop a rainforest trail that runs all the way from the Surge Narrows dock to Ken Flager's property. It is a nature sanctuary that will have much to teach us as we head into an uncertain future. Everyone is familiar with the towering moss-covered maples and the beautiful salmon stream that runs through 309. Lot 302 has its own unique features as it is untouched and cut through with boggy areas full of skunk cabbage and towering ferns. As I wandered along behind the rest of the group only heads were visible bobbing through the vibrant vegetation. I felt I was on safari in a magical lush kingdom.

We have the opportunity to preserve this experience for future generations. We will begin serious fundraising efforts soon and will reach out for good ideas. Please be thinking. KB

Current Events and Notices

Medical Clinic July

Nurse Pat will be at the Clinic...oops no dates yet

Summer Visioning Event - Saturday August 3, 2019 Surge Narrows Bunkhouse 1pm- 4pm

Hey everyone! We hope you will take some time out of your busy summer schedule to join us for the summer Visioning event. This event will be shorter in length than last time, but there will still be plenty of time to share and hear everyone's ideas and opinions.

In addition to facilitating stimulating discussions like the last event, we plan to share the findings of the round table discussions from the March Visioning event. We would also like to share the results of the online Community Surveys regarding the new SRD Surge Property and Lease.

We are currently waiting to hear whether the Strathcona Regional District's grant proposal for the Store property is successful or not, and we should know the answer by the end of July. We feel the outcome of the grant request will largely guide our discussion topics, but either way there are next steps to discuss and we can take time to share ideas about density zoning or other aspects that may be required to see proposed project ideas move forward.

Please let us know if you'd like to help out at the event; there's always lots to do between setting up, making coffee and goodies, hosting and facilitating discussions, and clean up after.

We look forward to sharing more ideas!
Sheila (fashedo@hotmail.com)
Jorge
Lise
Rosie

Mark the following dates on your calendar:

Date	Activity
Wednesday August 21	**1 pm—NP Pat Peterson talks about Joints, Hips, Knees at the Surge Narrows Dock**
Friday September 13	**10 am—Surge Narrows Community Association (SNCA) AGM, discussions with Jim Abram, catered complimentary lunch at the Bunkhouse**
Monday, October 21	**Federal Election—vote at the Bunkhouse**
Fall 2019, TBA	**2-day Wilderness 1st Aid Training**
Note:	***We are not planning a flu-shot day this year, rather, late October —early November, we will set aside an hour of NP Pat's visit for flu shots and children's vaccinations.***

Streamkeepers Course Quadra

I have arranged a Streamkeepers 1 course on Quadra at the Eco Centre (Hyacinthe Bay Rd) on October 26th and 27th (Sat/Sun). Dave Clough, an enthusiastic, knowledgeable, and experienced speaker, is giving the course. The 2 mornings are for classroom work, the afternoons for salmon stream ecology and a wetland survey.
Most of us know of a local salmon stream and even a seasonal stream will probably have cut-throat trout (in the summer puddles). In a time of habitat loss and climate change more than ever we need to know how to care for and protect our salmonid streams.
The cost of the course is nominal $0-$30 for printed materials.
Any questions, please contact me. Let me know as soon as possible if you are interested as places are filling up
Eileen Sowerby 250-285-2434

Wanted: To create an emergency communications team (or tree)

Seeing the 2nd Read Island wildfire in the space of a year made it clear that we need an emergency communications team or tree.

Yes, we have a well-oiled grapevine, and yes, the grapevine is especially active during wildfires and other emergency events. However, were an emergency requiring evacuation to occur where time was of the essence, it's been shown time and time again that your thoughts would be focused on getting you and your loved ones to safety. An emergency communications tree is a step in making ours a more resilient community.

Emergency communications team members would each be responsible for a "neighbourhood" of our definition. The first step will be determining the best way to reach each member of the neighbourhood, be it phone, text, VHF, or internet; then we'd test to make sure it works. Ongoing, we'll test the communications tree at least annually.

Please note that if individuals in the community chose not to be accessible by any of internet, phone (call or text), or VHF, that is their choice; it is not the responsibility of the communications team person to create a means of contact.

Wanted for communications team members:

You have good access to internet, VHF, and some cell phone service, and are willing to receive relevant SRD emergency communications directly.

You live in the outer islands more than ½ the year.

Contact Ginny at gvassal2@gmail.com if you'd like to be involved.

One of many large firs in Lot 302

NEW DOCTOR ARRIVES AT QI MEDICAL CLINIC MONDAY, JUNE 24

QI Health Society welcomes Dr Steve Hughes to be our new full time General Practitioner at the QI Medical Clinic joining Nurse Practitioner, Pat Peterson. Dr Hughes had 23 years of experience as a GP working in England before moving to Canada 5 years ago. He has since been working in a large Family Practice clinic in Mission where he also did all regular hospital duties.

He has especial interest and training in muscular/skeletal problems doing such things as complex joint and trigger point injections including carpal tunnel and trigger finger etc. and acupuncture. He does suturing, minor surgery, biopsies and excisions including for skin cancer. His particular interests also include mental health, working with seniors, encouraging the self-management of chronic illness and patient education. He looks forward to working with all old and new patients at the clinic.

Laboratory and ECG service, Mental Health, Tele-Health, Holter Monitor service, and foot care will all continue as well as the outreach clinics at Cape Mudge and Surge Narrows.

NEW SERVICE FOR OUTER ISLAND RESIDENTS

The Quadra Island Health Society (QIHS), Quadra Circle Community Connections, and other agencies, are in discussions to provide an *Off the Grid Outreach and Home Support Program* for the Outer Islands. In the meantime, a three month pilot project has been funded by a generous anonymous donor. As a member of the QIHS Board I'm the volunteer coordinator of this pilot project. Lise Batcheller has been hired for the part-time position of *Off the Grid Outreach and Home Support Worker.*

The Outer Islands has a very high percentage of older residents and the aim of this program is to allow people to remain healthy and in their own homes.

Lise has been working approximately three hours per week during the month of June. During this time Lise has visited a number of clients to discuss how she can help with their needs.

Early on she realized that getting groceries was a priority for many. She contacted Judith, who has since set up a grocery delivery service, from Thrifty's via Way West water taxi to Surge Dock, on Wednesdays. Judith will be elaborating on this elsewhere in the Current. Personally, I see this service eliminating a lot of fuel being used, time wasted waiting for ferries, ferry fares, wear and tear on my vehicle—and myself.

Lise has also organized a four person *Soup Group* to make home-made soup for a few of her clients. She has plans to expand this to provide added nutrition to those who don't, or can't, cook for themselves. She has been delivering the soup as well as 'meals on wheels' which were donated by SNCA and Quadra Circle.

There are lots more interesting things in the works. If you would like to enlist Lise's help, or refer someone requiring assistance, you can email her at lululise08@gmail.com or speak to her in person. She doesn't have a phone at the moment so you can always phone me at 250-204-8466 to get a message to her. If you have any questions about the program, or interest in participating in any way, you can contact Lise or me (or Sally) by phone (above) or by email.

David Cox
coxdavies@gmail.com

Sally Davies
sallyotg@gmail.com

Read Island Wildfire—2019

On the evening of June 5, around dinnertime, we heard two big thunderbolts. Morning of June 7, we received an email from Ginny, a forward from the BC Wildfire Service (BCWS) asking if we could verify a report of smoke on Evening Mountain. From out in the boat Ralph confirmed fire—there was lightning with that thunder!

An hour later helicopters appeared and not much later our front landing became a helipad for the fire fight that lasted 11 days. Friday and Saturday were full on action with helicopters dropping crew and gear at our place in Evans Bay, at three helipads on the mountain, and also at the oceanside east shore of Read. With phone and internet, CME Lodge became the communications centre for the BCWS field crew leaders.

Remoteness, rough terrain, steep bluffs and thick canopy made accessing the fire site difficult. A complex plan evolved, including an impressive array of technology – and at the height of the effort, also included 52 hardworking firefighters. For many days, multiple helicopters circled, dumping giant buckets of seawater scooped from both sides of the island. For two days, there was a fleet of four skimmer planes that flew in formation for many hours at about 5-minute intervals, sweeping down, scooping water, lifting off, circling back and dropping their load, sweeping down, again and again. Our dock hosted one of two high power pumps (the other on the east shore of Read) that fed 8.5 km of

laid over several days by the fire crew, eventually encircling the 20-hectare fire. The community was ready to help, but BCWS suggested that (for the most part) staying out of the way would be our best contribution. Ralph provided road transportation and access information, etc. Ginny sent excellent updates for everyone. Devin made his excavator available and Merlin drove it to the site on short notice. Shawnai and I baked giant cookies, also delivered by chopper to the crew.

Although the fire was only 1 km behind our home, we felt lots of love and concern from many people, and never really felt threatened because this fire was so well and thoroughly managed by BCWS. It could have been different! Nevertheless, it was an extremely expensive event for the provincial government (aka all-of-us) and I'm struck by the paradox of all the fossil fuel/CO2 required for the firefight – and the cause of the abnormal weather that is making the forest tinder dry. The firefighters are also concerned about the summer ahead.

I know everyone is grateful for the rain we've had these past few days – and it must have totally doused the last few inaccessible hotspots that BCWS had continued to monitor. We will go exploring sometime soon now.

Lannie Keller

https://www.campbellrivermirror.com/news/read-island-fire-now-over-30-hectares-in-size/
http://bcfireinfo.for.gov.bc.ca/hprScripts/WildfireNews/Fires.asp?Mode=normal&AllFires=0&FC=0

The Upper Jewakwa and Upper Heakamie Rivers, Tributaries of the Homathko, are Under Referral for New Run-of-River Power Project

Posted below are two letters, one from Regional Director Jim Abram and the other from local resident J. David Cox, in response to this recent application.

LETTER FROM JIM ABRAM

Re: Crown Land File: 3020-20/2412171

Tracking Number: 100269298

Upper Jewakwa River and Upper Heakamie River
Hydroelectric Project

Jim Abram, Director
Strathcona Regional District
Area C
Campbell River, BC

June 28, 2019

Dear Premier John Horgan,

As Director for Strathcona Regional District, Area C, I have received a referral for the above mentioned application submitted to Front Counter BC on December 10, 2018 for tenure on a tract of land in the Bute Inlet area for the purposes of an investigative license for a hydroelectric power project. I have been asked to comment on it by July 15, 2019.

I would like to ask, first of all, that the comment period deadline be extended to allow time for a more comprehensive response to this file.

The application has been made by Mirzeydin Ilhanli, listed as a permanent resident of New York City but named as the contact for a B.C. numbered company, with an office in Vancouver.

https://twitter.com/ilhanlienerji?lang=en

http://site371434.webydo.com/home-1.html

[Under Canadian law, numbered companies do not have the same rights as individuals, including the right to apply for crown tenure.]The agent for the applicant is one Josh Friedman of Sigma Engineering Ltd., a subsidiary of an international engineering firm listed on the Toronto Stock Exchange.

Perhaps the applicant and his agent are unaware of the history of water licensing and hydroelectric power projects in this area. Ten years ago when this jurisdiction, SRD Area C, was faced with an uncannily similar project by Plutonic Power (later to become Alterra Power Corp.), the Area C community as well as many other concerned individuals, groups, companies and local First Nations, rallied in overwhelming numbers to demand a full panel environmental review by a federally appointed board. The proposal at that time went to standing room only information sessions and public hearings and the proposal was, in the end, soundly rejected. BC Hydro announced that the power generated by this project was not required, and further, was directed to not purchase any more of this type of power as it was simply too expensive.

Things have not changed much since then when in the January 16th, 2009 edition of the Discovery Islander, Ray Grigg wrote for Sierra Quadra:

"Arthur Caldicott, an independent environmental researcher, gave a public presentation at the Quadra Island Community Centre on December 6th 2008, to help Islanders understand the complex issue of run-of-river power development in British Columbia. Caldicott notes several key environmental concerns:

1. Developments of this kind and scale are unprecedented in BC. With no science based, over-arching policy in place as guidance the BC government and the IPPs are working together on a site-by-site basis to make each project economically viable. This is a risky strategy that invites compromises and mistakes.
2. No studies have been conducted on the downstream effects of such water diversion.
3. These projects are industrial-scale invasions in wilderness areas with no measured impact on ecotourism values or on natural ecologies - the transmission lines themselves will be huge scars on pristine mountains, and the disposal of huge volumes of tunnel rock is problematic.
4. Projects of less than 50 megawatts do not need environmental reviews. Consequently, the impact of individual projects or the cumulative impact of many such projects is undetermined.
5. Bill 30, recently passed by the BC government, removes the right of local municipalities to stop such developments, even if these projects impair the natural assets that are valuable to any municipality – Bill 30 was probably the government's response to response to Squamish's vehement objections to an IPP development on its beloved Ashlu River, a favourite tourist attraction and world-class kayaking site. As for profitability, Caldicott estimates that these run-of-river projects will be very lucrative for private developers. This prospect has probably enticed General Electric to buy a 50 % share in Plutonic Power. And profits should rise even further when the purchasing arrangements with BC Hydro expire and the assets and rights are assumed by the developer. Because of such advantages to corporations, many British Columbians believe that these projects should be undertaken by the province's publicly owned utility, BC Hydro, so that profits and assets remain in the public rather than the private domain."

As is the case now, there was no need for this power in British Columbia, even before Site C was a reality. There was also no market south of the border. California being the only potential customer, refused to purchase this energy which would have been produced only after massive industrialization of the unspoiled natural wilderness of Bute Inlet. The law requiring California to purchase electrical power from only truly green sources is still in place today.

At the end of the previous public hearing process, in the spring of 2011, West Coast Environmental Law issued a press release including assurances by the Federal government of the day.

"Although the current Review Panel has been disbanded, the Canadian Environmental Assessment Agency issued a statement confirming the Minister of Environment will appoint a new Panel, should the Bute project proceed at a later date."

"We're happy that Minister Kent has done the right thing and made sure that if this massive hydro project comes back, it will get the strongest possible environmental assessment available under the law," said Josh Paterson, Staff Lawyer at West Coast Environmental Law, which assisted the Friends of Bute Inlet in advocating for the federal review panel to be maintained. "This project has huge potential impacts and its wider, cumulative effects on the whole region need to be studied."

https://www.wcel.org/media-release/bute-inlet-hydro-project-have-public-hearings-if-project-revived-says-ottawa

Ten years on we know that science's predictions for climate change were greatly underestimated. It is widely accepted that what we are facing today is indeed a climate emergency. In our region we have been experiencing drought conditions for the past 5 to 6 years. Average rainfall and snowpack in the Coast Range and on Vancouver Island is far below normal. Melting glaciers are receding at a far greater rate than ever before in recorded history. Water resources are being taxed like never before. We are seeing Western red cedars, shore pine, and other tree and plant species dying in alarming numbers along this coast.

Native salmon species, particularly our valuable chinook, are in peril. Low water flows in streams and rivers, and low autumn rainfall are making it all but impossible for returning salmon to reach their upstream spawning grounds in the rivers of Bute Inlet as well as the rest of the B.C. coast. Not only does this affect populations of salmon, it also affects predator species and the associated web of life that depends on strong salmon returns for survival.

The lucrative recreational and sports fishing industry, important for many jobs and businesses in Area C, has been seriously impacted by fishery closures this year. At a time when the federal Department of Fisheries and Oceans is putting very large amounts of public resources into salmon restoration and enhancement, it defies reason to enable more habitat destruction by allowing this type of industrial water diversion infrastructure to take place.

With respect to the current water crisis being experienced in the area, it seems completely and almost dangerously counter-productive to even consider granting a water license and tenure to what amounts to an un-named, offshore entity for any purpose whatsoever, let alone one that will result in on-going, large-scale industrialization of the 4800 (approx.) hectare tract of land in the upper reaches of the Jewakwa and Heakamie rivers, part of the Homathko River watershed.

The fact that the application is for a tract of land just under the 5000 hectares and 50 MW limits that would trigger a full panel environmental review requiring further scrutiny squeaks of disrespect for the people of this District who gathered together in large numbers, spending valuable time and energy protecting the wilderness of their beloved Bute Inlet just ten years ago.

Geographically, the area in question is one of steep and unstable slopes, a rugged and difficult terrain with a repeated history of huge and devastating landslides as the following links show.

https://www.sfu.ca/~jclague/dams.htm

"During the winter of 2011/2012, a massive landslide occurred on the Homathko below the Tiedemann/Mosely confluence, creating a debris field that dammed the river, catastrophically and permanently altering the majority of the notable whitewater…. While the gradient is now lost as the river flows over the debris from the avalanche….the whitewater heart of the Homathko, no longer and will never again exist. It is hard to relate the scale of this incredible geological event without seeing it in person."

(Check out the photos near the bottom of the following link where a slide came down in the Homathko Canyon and created a dam in the Homathko River.)

http://liquidlore.com/bc/homathko/

If the investigative license is allowed to move forward and infrastructure is built, there will be on-going problems with slides and washouts. This was the experience of the Toba-Montrose hydroelectric project in nearby Toba Inlet. Repeated problems with rocks and boulders wrecking pen stock and extreme wear and tear on turbines by heavy glacial silt have been costly and ongoing.

Extreme industrial activity and the effects of stability issues related to construction of infrastructure would take its toll on wildlife in the area. Mountain goats and sheep, as well as grizzly bear, are extremely sensitive to such disturbances and will not tolerate this sort of activity. This would prove to be a problem with wildlife viewing activities that border the area in question. A number of local resorts, guide-outfitters and tour operators, including those of First Nations whose territory is in question (who so far have not been referred in this proposal) employ large numbers of local people, directly and indirectly, in a multi-million dollar "soft" industry that is reliant on the wilderness of Bute Inlet remaining intact and undisturbed.

The Strathcona Regional District is currently engaged in the creation of its new Official Community Sustainability Plan. The appetite for this sort of project in the Bute Inlet and area wilderness is less than ever before. This type of industrial activity on such a large scale is absolutely not in keeping with the community's vision for the future of the Bute Inlet area, nor is it compatible with successful enterprise currently taking place in the Bute Inlet watershed area.

The proposal by Plutonic Power (later known as Alterra Corp.) a decade ago, is still being promoted on industry websites. It seems that the current applicant has simply changed the title of this proposal to include two of Plutonic's original 17 run-of-river projects making the proposal appear smaller and more benign than it actually is.

"The proposed Bute Inlet Hydroelectric Project includes 17 run-of-river hydroelectric facilities located on tributaries of the Homathko, Southgate, and Orford Rivers, in the Coast Mountains of British Columbia. Combined, these projects constitute about 1,100 MW of renewable energy, with 200 km of 230 kV and 250 km of 500 kV transmission line and interconnecting substations, new access roads, bridges and barge landing facilities, construction camps, and air strips."

https://www.knightpiesold.com/en/projects/bute-inlet-hydroelectric-project/

In 2009 the NDP, then in opposition to Gordon Campbell's provincial liberal government, made it known in a letter to a local constituent, where they stood on this type of development in the region:

"The BC NDP's position is very clear. We want a moratorium on independent power projects until there is an overall assessment of their impact. The privatisation of our power generation, combined with the loss of control over our rivers, will undermine all of our futures. BC remains a net exporter of power and while we know we need to develop alternative energy sources, selling off BC's rivers for years to come is not the way. Nor is the likely devastation caused in pristine areas to build the transmission lines. No one should be lulled into thinking that these mega, private power projects are green or in the best interests of the people of BC."

It would be interesting to know what the current NDP government would have to say about this sort of development proposal today, a decade into the future with our precious water resources on the line. I expect they would not be in favour of this proposal, and that they would also expect a full panel review, as promised by the federal government nearly ten years ago, complete with public hearings and community and First Nations involvement in the process.

Finally, it has come to light that the proponent has, within the past year, been advertising on the LinkedIn website, attempting to recruit retired staff or ministers from the Departments of the Environment and Energy to act as consultants for this proposed project. It is unknown if he was successful, but just the idea of such a thing is completely reprehensible, suggesting further disrespect for our democratic system.

https://ca.linkedin.com/jobs/view/environmental-consultant-at-ilhanli-power-generation-co-808195285
https://ca.linkedin.com/jobs/view/consultant-at-ilhanli-power-generation-co-863560791

This application, under review for the past six months now, at the expense of the provincial taxpayer, is tying up government resources as well as government staff, burdening the already overloaded system with a proposal that is very unlikely to proceed or succeed in the long run. In fact, it should not have been accepted in the first place by Front Counter BC staff.

Jim Abram
Director
Discovery Islands-Mainland Inlets
Strathcona Regional District

cc:
Front Counter B.C. FrontCounterBC@gov.bc.ca
The Honorable Doug Donaldson doug.donaldson.mla@leg.bc.ca
The Honorable Claire Trevena claire.trevena.mla@leg.bc.ca
Media

Letter from J. David Cox to all appropriate ministers and officials listed below. Please feel free to write your own.

Office Premier <premier@gov.bc.ca>,
FLNR.Minister@gov.bc.ca,
doug.donaldson.mla@leg.bc.ca,
administration@srd.ca,
communications@srd.ca,
Andrew.weaver.mla@leg.bc.ca,
Claire Trevena <Claire.trevena.mla@leg.bc.ca>

Please accept this letter as my expression of extreme opposition to the recent proposal for the run-of-river hydro power application submitted by 1172793BCLTD/Ilhanli/Sigma Engineering Ltd. The reasons for my opinion are myriad and varied but, to be frank, anyone who doesn't already know all the reasons is ignorant of our area, the environment, threats to the planet and the corrupt fiasco that is inherent in such projects. **You already know to say no.**

I am also quite sure that BC Hydro would not welcome subsidizing yet another parasite on their massively indebted system.

But let's not stand too long on protocol, procedure and Canadian politeness – this application makes me apoplectic. I am angry. It is stupid, destructive, unnecessary and just plain wrong. I know it and I know you know it. Do not spend one hour of bureaucrats' and politicians' time on such nonsense. A quick NO, as they say in business, is the second-best answer. Save yourselves and the applicant a great waste of time. Just say no. And do it quickly and loudly. I want to hear you!

Please understand that our area (Discovery Islands/Bute Inlet) is under constant assault and, unfortunately, that pressure is only increasing from all directions. The federal politicians who 'lead us' just approved shipping Trans Mountain oil sludge to the Salish Sea. They have already half-destroyed our local fishery. Our forests are being razed and bulk fiber (logs) are sent overseas without adding value. Even kayakers (normally welcome) are becoming irritating, overwhelming what few services and amenities we enjoy out here. Typically and historically regulators are failing us, the area and the planet. Stop being irresponsible. Do the right thing.

Honestly? This project takes what is priceless and gives nothing in return. In fact, it also takes from a community that is dedicated to sustainability and environmental preservation. None of us out here even HAVE BC Hydro! For the Discovery Island community, this application, if successful, is simply more theft and rape of our backyard. It is corruption of the worst kind. And, if you approve it, it will be literal proof of a dereliction of your regional duty of care that you owe us and the wilderness.

Don't hesitate. Reject the application.

Sincerely,

J. David Cox
Surge Narrows, Read Island

Walking along Tipton Road towards the trail through 302. Topton Road forms one border of Lot 320.

The Bubble Net Feeding of Humpback Whales —Excerpt from BCwhales.org
https://www.bcwhales.org/bubblenet-feeding

Bubble net seen from David Cox and Sally Davies' porch

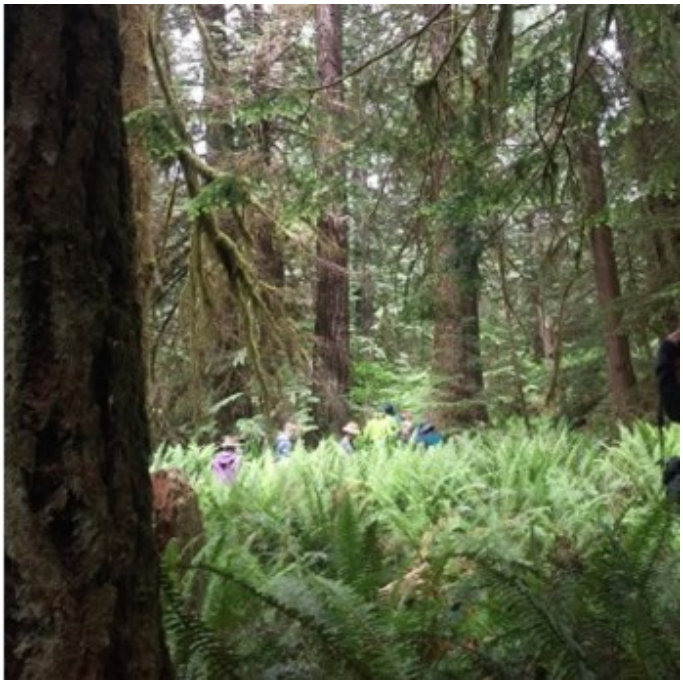
After the 3000-mile migration from the tropics, humpback whales have lost a large portion of their body weight. There is no food available in the warmer waters of Mexico and Hawaii so when they arrive up north they are in dire need of food. The feeding frenzy begins immediately and will last from dawn to dusk. We are very fortunate in our research area as the most common form of foraging is **bubble net feeding**. During this feeding display they will cooperate in groups from 2 to 15 individuals. The technique they use to ensure each whale has the opportunity to feed is inspirational and spectacular to witness. Once every whale has taken a dive the true work begins, hundreds of feet below the surface. The whales will dive below a school of prey, and then slowly they begin a spiral dance upwards towards the surface, blowing bubbles in a circular motion forming a net. On the surface you will actually see a circle of bubbles form as the whales move in this spiral formation. The purpose of the bubbles is to congregate the school of herring and force them towards the surface near the centre of this circle. Then the feeding calls begin, long hollow calls, followed by higher pitched squeals.

The whales use these specific calls when they are feeding and the calls play a huge role in this feeding technique as they further congregate the fish. What we witness next at the surface is an explosion of air as these whales surface in the centre of this bubble circle, their mouths gaping wide open, full of small fish jumping for their lives.

Humpback whales have 14 to 35 throat groves that run from chin to navel. These grooves facilitate the expansion of the throat. This expansion allows for large volumes of water and food into the mouth. As the mouth closes the whale will press down with its tongue forcing all water out through baleen plates. These baleen plates hang in rows from each side of the upper jaw and act as a filter, keeping all the small fish from escaping. Baleen is made of a protein, referred to as keratin, which is both strong and flexible. With this innovative evolutionary adaptation the humpbacks feed on krill, and various species of small shoaling fish such as herring, pilchards and mackerel.

On the sidelines are a variety of humpback companions, such as seals, sea lions, Dall's porpoise and an assortment of sea birds taking fish from the whales have been injured or left behind. We imagine, just like us, all these species are waiting for the arrival of this food frenzy so they may participate in one of the planet's most outstanding display of cooperative feeding.

Walk through Lot 302



July

Beazley

Turns		Maximum		renverse		maximum	
Day	Time	Time	Knots	jour	heure	heure	noeuds
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	0855	1214	+9.7		0333	0643	−6.5
MO	1552	1854	−6.7	TU	0945	1317	+9.4
LU	2152			MA	1641	1951	−7.1
					2245		
2		0031	+6.0	17		0125	+5.7
	0321	0627	−7.8		0416	0720	−6.7
TU	0939	1257	+10.3	WE	1023	1353	+9.3
MA	1634	1938	−6.9	ME	1719	2026	−7.0
	2238				2324		
3		0117	+6.4	18		0204	+6.0
	0409	0712	−8.0		0456	0756	−6.8
WE	1024	1340	+10.9	TH	1059	1426	+9.2
ME	1718	2023	−7.2	JE	1755	2100	−6.8
	2324						
4		0204	+6.7	19	0002	0243	+6.1
	0459	0759	−8.1		0536	0834	−6.8
TH	1109	1425	+11.1	FR	1134	1500	+9.2
JE	1802	2108	−7.3	VE	1830	2134	−6.7
5	0012	0254	+6.9	20	0040	0323	+6.2
	0551	0850	−7.8		0616	0913	−6.5
FR	1156	1512	+11.1	SA	1209	1534	+8.8
VE	1848	2156	−7.4	SA	1904	2209	−6.6
6	0101	0348	+6.9	21	0118	0402	+6.2
	0646	0944	−7.3		0658	0958	−6.0
SA	1245	1602	+10.5	SU	1246	1610	+8.3
SA	1936	2246	−7.4	DI	1938	2238	−6.5
7	0153	0445	+7.0	22	0157	0453	+6.1
	0745	1043	−6.7		0744	1042	−5.5
SU	1337	1655	+9.6	MO	1326	1649	+7.4
DI	2025	2339	−7.2	LU	2013	2319	−6.3
8	0247	0549	+7.3	23	0237	0542	+6.1
	0851	1147	−6.2		0836	1134	−5.0
MO	1435	1753	+8.4	TU	1412	1733	+6.5
LU	2117			MA	2051	2359	−6.0
9		0034	−7.0	24	0321	0630	+6.3
	0344	0656	+7.5		0936	1233	−4.6
TU	1003	1304	−5.8	WE	1507	1825	+5.6
MA	1540	1854	+7.3	ME	2133		
	2211						
10		0131	−6.8	25		0042	−5.9
	0441	0754	+7.8		0408	0719	+6.5
WE	1118	1415	−5.5	TH	1044	1337	−4.5
ME	1654	2003	+6.2	JE	1611	1924	+4.9
	2307				2220		
11		0231	−6.6	26		0132	−5.8
	0538	0900	+8.1		0457	0810	+6.9
TH	1229	1523	−5.4	FR	1154	1447	−4.6
JE	1812	2111	+5.5	VE	1726	2030	+4.6
					2312		
12	0004	0330	−6.5	27		0228	−5.9
	0633	1004	+8.5		0549	0904	+7.5
FR	1333	1634	−5.8	SA	1258	1545	−5.0
VE	1925	2216	+5.1	SA	1842	2133	+4.6
13	0102	0427	−6.5	28	0009	0324	−6.2
	0727	1102	+9.0		0642	1008	+8.3
SA	1428	1736	−6.4	SU	1355	1642	−5.5
SA	2027	2313	+5.0	DI	1949	2230	+5.0
14	0156	0518	−6.5	29	0108	0426	−6.7
	0817	1153	+9.3		0735	1102	+9.1
SU	1517	1828	−6.8	MO	1446	1736	−6.0
DI	2119			LU	2045	2322	+5.5
15		0005	+5.1	30	0208	0519	−7.3
	0247	0603	−6.5		0828	1152	+9.8
MO	0903	1238	+9.4	TU	1532	1835	−6.4
LU	1601	1913	−7.1	MA	2135		
	2204						
				31		0012	+6.2
					0304	0610	−7.8
				WE	0918	1240	+10.6
				ME	1617	1922	−6.9
					2221		

Hole in the Wall

Turns		Maximum		renverse		maximum	
Day	Time	Time	Knots	jour	heure	heure	noeuds
1	0238	0550	−7.7	16		0053	+5.4
	0907	1218	+10.0		0338	0648	−6.8
MO	1554	1858	−6.8	TU	0956	1321	+9.2
LU	2205			MA	1644	1957	−7.1
					2259		
2		0039	+6.0	17		0132	+5.8
	0326	0633	−8.1		0421	0725	−7.1
TU	0951	1300	+10.7	WE	1035	1357	+9.1
MA	1637	1941	−7.0	ME	1722	2032	−6.9
	2250				2338		
3		0124	+6.5	18		0211	+6.1
	0415	0717	−8.3		0502	0802	−7.2
WE	1035	1343	+11.2	TH	1110	1431	+9.3
ME	1720	2025	−7.2	JE	1758	2105	−6.8
	2336						
4		0211	+6.8	19	0016	0250	+6.3
	0505	0804	−8.4		0541	0840	−7.1
TH	1120	1428	+11.5	FR	1145	1505	+9.2
JE	1805	2110	−7.5	VE	1833	2139	−6.9
5	0023	0301	+7.1	20	0053	0331	+6.3
	0557	0854	−8.2		0622	0920	−6.8
FR	1207	1516	+11.4	SA	1221	1540	+8.9
VE	1851	2157	−7.6	SA	1907	2214	−6.8
6	0113	0355	+7.2	21	0131	0413	+6.2
	0652	0949	−7.7		0704	0959	−6.3
SA	1256	1607	+10.8	SU	1259	1617	+8.3
SA	1939	2248	−7.6	DI	1941	2251	−6.7
7	0206	0452	+7.3	22	0211	0451	+6.2
	0751	1048	−7.0		0750	1050	−5.7
SU	1349	1702	+9.8	MO	1341	1657	+7.4
DI	2028	2341	−7.4	LU	2017	2329	−6.6
8	0301	0552	+7.4	23	0253	0539	+6.2
	0856	1146	−6.5		0841	1143	−5.3
MO	1449	1801	+8.5	TU	1429	1742	+6.4
LU	2120			MA	2055		
9		0037	−7.2	24		0011	−6.4
	0358	0655	+7.6		0337	0626	+6.3
TU	1007	1305	−6.1	WE	0940	1243	−5.0
MA	1556	1857	+7.2	ME	1525	1835	+5.4
	2214				2137		
10		0136	−6.9	25		0057	−6.2
	0455	0801	+7.8		0424	0725	+6.6
WE	1121	1419	−5.8	TH	1045	1347	−5.0
ME	1712	2019	+6.2	JE	1632	1936	+4.7
	2310				2224		
11		0237	−6.6	26		0148	−6.1
	0552	0907	+8.0		0513	0821	+7.0
TH	1232	1532	−5.8	FR	1153	1458	−5.2
JE	1831	2128	+5.4	VE	1747	2042	+4.3
					2317		
12	0007	0336	−6.6	27		0234	−6.3
	0647	1010	+8.4		0604	0918	+7.6
FR	1335	1642	−6.1	SA	1257	1555	−5.5
VE	1943	2229	+5.0	SA	1903	2152	+4.4
13	0105	0432	−6.5	28	0013	0338	−6.6
	0740	1107	+8.8		0656	1014	+8.4
SA	1431	1744	−6.6	SU	1355	1657	−5.9
SA	2044	2321	+5.0	DI	2008	2239	+4.8
14	0159	0523	−6.5	29	0112	0433	−7.1
	0829	1158	+9.1		0748	1107	+9.2
SU	1520	1836	−7.0	MO	1447	1750	−6.3
DI	2135			LU	2101	2331	+5.5
15		0009	+5.1	30	0212	0525	−7.6
	0251	0608	−6.6		0840	1156	+10.1
MO	0915	1242	+9.2	TU	1534	1839	−6.6
LU	1604	1920	−7.2	MA	2149		
	2219						
				31		0019	+6.2
					0309	0615	−8.2
				WE	0929	1243	+10.9
				ME	1619	1924	−7.0
					2234		

Campbell River

Day	Time	Metres	Feet	jour	heure	mètres	pieds
1	0206	4.1	13.5	16	0307	3.9	12.8
	1007	0.8	2.6		1118	0.8	2.6
MO	1707	3.9	12.8	TU	1748	4.0	13.1
LU	2100	3.4	11.2	MA	2310	3.5	11.5
2	0248	4.2	13.8	17	0348	3.9	12.8
	1039	0.6	2.0		1146	0.8	2.6
TU	1751	4.1	13.5	WE	1823	4.1	13.5
MA	2147	3.4	11.2	ME	2356	3.4	11.2
3	0334	4.2	13.8	18	0427	3.8	12.5
	1117	0.4	1.3		1203	0.9	3.0
WE	1834	4.1	13.5	TH	1859	4.1	13.5
ME	2240	3.4	11.2	JE			
4	0424	4.1	13.5	19	0042	3.3	10.8
	1158	0.4	1.3		0506	3.7	12.1
TH	1917	4.2	13.8	FR	1222	1.0	3.3
JE	2347	3.4	11.2	VE	1935	4.1	13.5
5	0517	4.0	13.1	20	0131	3.2	10.5
	1240	0.5	1.6		0546	3.5	11.5
FR	2001	4.2	13.8	SA	1249	1.2	3.9
VE				SA	2011	4.1	13.5
6	0117	3.2	10.5	21	0200	3.1	10.2
	0615	3.8	12.5		0632	3.4	11.2
SA	1324	0.8	2.6	SU	1319	1.5	4.9
SA	2045	4.3	14.1	DI	2047	4.1	13.5
7	0348	3.0	9.8	22	0347	2.9	9.5
	0721	3.5	11.5		0726	3.2	10.5
SU	1408	1.1	3.6	MO	1351	1.8	5.9
DI	2129	4.3	14.1	LU	2120	4.0	13.1
8	0459	2.6	8.5	23	0439	2.6	8.5
	0840	3.3	10.8		0835	3.0	9.8
MO	1453	1.6	5.2	TU	1424	2.1	6.9
LU	2211	4.3	14.1	MA	2151	4.0	13.1
9	0601	2.2	7.2	24	0531	2.4	7.9
	1018	3.1	10.2		1011	3.0	9.8
TU	1541	2.0	6.6	WE	1459	2.4	7.9
MA	2253	4.3	14.1	ME	2218	4.0	13.1
10	0657	1.8	5.9	25	0619	2.1	6.9
	1202	3.1	10.2		1156	3.0	9.8
WE	1633	2.5	8.2	TH	1544	2.8	9.2
ME	2333	4.2	13.8	JE	2244	4.0	13.1
11	0748	1.5	4.9	26	0703	1.8	5.9
	1335	3.3	10.8		1320	3.2	10.5
TH	1731	2.9	9.5	FR	1652	3.0	9.8
JE				VE	2313	4.0	13.1
12	0014	4.2	13.8	27	0744	1.5	4.9
	0836	1.2	3.9		1425	3.5	11.5
FR	1451	3.6	11.8	SA	1806	3.3	10.8
VE	1833	3.2	10.5	SA	2353	4.0	13.1
13	0056	4.1	13.5	28	0824	1.2	3.9
	0922	1.0	3.3		1517	3.7	12.1
SA	1548	3.8	12.5	SU	1908	3.4	11.2
SA	1930	3.4	11.2	DI			
14	0140	4.0	13.1	29	0042	4.0	13.1
	1004	0.9	3.0		0904	0.9	3.0
SU	1634	3.9	12.8	MO	1602	3.9	12.8
DI	2130	3.5	11.5	LU	1958	3.4	11.2
15	0224	4.0	13.1	30	0137	4.1	13.5
	1044	0.8	2.6		0944	0.7	2.3
MO	1712	4.0	13.1	TU	1644	4.0	13.1
LU	2223	3.5	11.5	MA	2044	3.4	11.2
				31	0234	4.2	13.8
					1024	0.5	1.6
				WE	1724	4.1	13.5
				ME	2133	3.3	10.8

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If you have paid your SNCA dues and do not see your name listed please be patient. The information will be updated soon. Thank You.