

Draft Term of Reference
Cordova Spit (TIXEN) Conservation Plan
April 3, 2007

Project Purpose:

Develop and implement multi-jurisdictional plans for the management and restoration of a rare and vulnerable coastal dune ecosystem on British Columbia's Georgia Basin known to the WSANEC peoples on Saanich Peninsula as TIXEN.

Rationale: Coastal lands on the Tsawout First Nations Reserve, CRD Island View Beach Park and Cordova Spit Park (Municipality of Central Saanich) contain significant remnants of rare coastal sand dunes and habitats of great conservation interest, with a characteristic and rich flora and fauna. Lands within these three jurisdictions comprise the largest contiguous dune system in southern British Columbia and one of the best examples of an intact dune system in the province.

The Cordova Spit ecosystem is also important to WSANEC, for traditional and cultural reasons. TIXEN, and surrounding waters, offer many educational opportunities for members of WSANEC communities, and an important educational resource for the Saanich Tribal School. In addition to providing natural beauty to be enjoyed by residents and visitors, and protecting the coastal environment by absorbing energy from wind, tide and wave action, this dune ecosystem represents a unique and fragile environment that offers vital habitat to a number of plants and animals that are at-risk in British Columbia.

The yellow sand-verbena, beach bindweed, American glehnia (beach carrot), black knotweed and fleshy jaumea are blue-listed plants that are of special concern, whereas the grey beach peavine, creeping wildrye and contorted-pod evening-primrose are red-listed species that are either threatened or endangered. This particular dune ecosystem also provides an interesting example of a rare animal that is dependent upon a rare plant that is dependent on a rare ecosystem. The yellow sand-verbena is the host for a rare species of cutworm or sand verbena moth. This moth lays its eggs on yellow sand-verbena, and the larvae, or caterpillars, feed exclusively on this plant. A rare subspecies of the red-listed Ringlet butterfly has been observed in a grassy field, inland from the beach within Island View Beach Regional Park and may also be present on Reserve lands.

The fragile dunes of TIXEN are being severely degraded by uncontrolled public access which also facilitates the introduction and range expansion of invasive species, such as Scotch broom. TIXEN provides an important opportunity to protect and restore natural and cultural resources of this rare ecosystem.

Project Scope

- The project study area will be the 325 ha ecosystem complex on Cordova Spit, comprised of lands under the jurisdiction of the Tsawout First Nation (253ha), regional park (49 ha) and municipal park (7 ha). Resource inventories will be completed for the entire ecosystem complex. Information and knowledge of the ethnobotany and First Nations traditional uses of the area will also be assembled. These data will be used to develop a multi-jurisdiction management plan, for protection and restoration of the entire dune complex.
- The project will also identify opportunities and support outreach activities and educational products for use by various communities in British Columbia, especially WSANEC communities and Tribal School.
- The project will be featured as a case study in Sustainable Forest Resource co-management of protected areas, in which University of Victoria and other Universities in Canada are participating
- Overall project guidance, with specialized technical support, will be provided by a steering committee composed of technical or professional members of participating agencies.

Project Objectives:

Assemble information on biological, cultural and traditional knowledge resources and their uses, for sensitive dune, aquatic and associated upland ecosystems on Tsawout, Capital Region District (CRD) and Central Saanich Municipality lands along Cordova Bay, in support of;

- Multi-jurisdictional management planning for protection and ecosystem restoration which includes ongoing engagement of WSANEC community members in all phases of the project, and;

- Development of culturally appropriate outreach and education tools for use in local WSANEC and other communities.

Project Goals:

1. Develop a Terrestrial Ecosystem Map for the ecosystem, including details of past and ongoing disturbances and occurrence of invasive species.
2. Inventory and map rare and culturally significant plant and animal elements resident in the ecosystem.
3. Support population studies of the birds and other wildlife of TIXEN, within a wider scope of dune ecosystems of the southern Gulf of Georgia.
4. The three jurisdictions, with support from the management agencies, develop and implement a conservation plan for TIXEN, including measures to protect vulnerable ecosystem elements as well as restore those that have been damaged.
5. Develop innovative, culturally appropriate education products for use in WSANEC communities and schools, as well as within the wider Saanich communities.
6. Other???

Engaged Jurisdictions:

- The WSANEC community at Tsawout,
- Capital Regional District, Parks
- Central Saanich Municipality, Parks.

Supporting Agencies:

- Canadian Wildlife Service, Environment Canada
- Conservation Data Centre, BC MOE
- University of Victoria (Environmental Sciences, Linguistics, Restoration of Natural Systems)
- Other Academic Institutions – Protected Areas in Sustainable Forest Management Project

Steering Committee: ??

Report to Tsawout Council – TIXEN Conservation Plan
July 8, 2007

- Multi-jurisdictional project to develop conservation plan for TIXEN (Cordova Spit)
 - Tsawout First Nation
 - Capital Region District Parks (Island View Beach)
 - Central Saanich Municipal Parks
- Supporting Agencies
 - BC Environment – Conservation Data Centre
 - Environment Canada – Canadian Wildlife Service
 - U Victoria – Environmental Studies – Linguistics
 - Other cooperating Canadian Universities (Studies of Protected Areas in Sustainable Forest Management)
- Project proceeding well
 - biodiversity inventories and ecological mapping will be completed by September, 2007, including mapping of disturbances and invasive plants
 - Tsawout and U Vic assembling knowledge of traditional and cultural values, particularly food and medicinal plant communities
 - **Will need more detailed study of archeological resources**
- Steering Committee is working with Tsawout Lands Committee, Land Management staff, Tribal Fisheries staff, Tribal School representatives and some elders – all are engaged and supportive of project.
 - Important priority will be managing access to reverse the destruction of fragile ecological and cultural landscapes on TIXEN
 - Education of community members and general public needed on the important resources of the area, and the kinds of activities that are degrading these values.
 - Community and public education will be gradual, starting in 2007:
 - Community fact sheet outlining project objectives, stressing need to manage uncontrolled activities such as vehicle access, horse and dog use.
 - Red-shirted students patrolling beaches this summer, talking to visitors about the fragile ecological and cultural resources
 - One or two signs at strategic locations, outlining the project, requesting visitors to use the area with respect. (CRD Parks sign shop will manufacture signs)

- Longer term goals – three jurisdictions and supporting agencies –
 - Develop and implement plans for conservation and restoration of ecological, cultural and archeological values of TIXEN, including comprehensive access management plans.
 - Develop comprehensive community and public education programs, including construction of sign kiosks at strategic locations for ongoing education purposes.
- Recommendations to Tsawout Council;
 - Council explore ways to carry out inventory of archeological resources
 - Council endorse activities to date, including approval in principle of community fact sheet (draft attached)
 - Staff will return to Council for approval of the design and messages proposed for public information signs.

Draft Text – Tsawout Brochure – Pictures and Cultural Images to be added
Tom Wood – July 8, 2007

The place is known as TIXEN to the Sencot'en community of Tsawout. Our non-native neighbors on the Saanich Peninsula know it as Island View Beach or Cordova Spit. By any name, the coastal dune formations along Cordova Straight are rare remnants of a fragile landscape.

We, the Salt Water People at Tsawout, have a responsibility to pass this landscape on to future generations in a healthy way. So we are cooperating with neighboring local governments to develop a conservation plan to ensure the delicate natural and cultural balance of the dune ecology is respected.

The first step is completing an inventory of the plant, animal and cultural resources on TIXEN. That is being done this summer. The next step will be putting all this information together in a plan which controls some of the destructive ways in which the area is being used.

This plan will require setting some areas aside from use by motorized vehicles. Cutting of firewood, and open fires on the beach are probably other things the plan will address. Dogs running free, and harassing birds will be another destructive activity that will need to be managed. There will be other uses that will need to be managed. Members of the Tsawout community will be involved in decisions about land use at TIXEN.

As a start, Council has approved the use of students to patrol the beach over the summer, talking to visitors about the area's fragile resources. Several signs will also be erected, asking visitors to use the area with respect. These actions will set the stage for the more holistic conservation management plan for TIXEN.

For further information about the Conservation Planning project for TIXEN, please contact XXXXXXXXXX at Tel Number

From: [Wood, Tom \[PYR\]](#)
To: [Ford, Shane ENV:EX](#); [bonnie.mckenzie@csaanich.ca](#); [ehpelkey@tsawout.ca](#); [iward@crd.bc.ca](#)
Cc: [Donovan, Marta T ENV:EX](#); [Cadrin, Carmen ENV:EX](#); [jmiskelly@crd.bc.ca](#); [S.22](#) [Kirkby, Jan \[PYR\]](#);
[Walker, Rob: APCA](#); [Golumbia, Todd: APCA](#); [Morrison, Jim A: DFO XPAC](#); [Hureau, Stephen \[PYR\]](#)
Subject: Cordova Bay Dune Management and Restoration Plan
Date: Friday, November 3, 2006 4:49:28 PM

Hi all - I have discussed various pieces of this project with you as individuals, or with members of your staff. There is general agreement on the potential for a critical mass here. With some careful collaboration, we can make this multi-agency project a real success. I'd like to invite each of you to participate in an initial **Steering Committee** meeting to:

- agree on broad objectives and project Terms of Reference,
- formalize each agency's commitment to participate and initiate drafting of a Project Charter or MOU
- support work by Tsawout First Nation to recruit a project manager
- nominate agency staff to a project Work Group which will:
 - define individual project elements and recommend timelines
 - identify available agency budget and staff resources and recommend scheduling to complete various tasks
 - draft project funding applications to complete all pieces of the project to enable a comprehensive restoration plan for coastal dune and related ecosystems on Cordova Spit.

I'd appreciate your early consideration of this request. Please indicate your availability for a Steering Committee meeting at the Tsawout First Nation community on the morning or afternoon of Nov 15, 16 or 17

I look forward to working with you to make this exciting project a real success.

Tom Wood
Senior Policy Advisor
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e-mail; tom.wood@ec.gc.ca

From: Ford, Shane ENV:EX [<mailto:Shane.Ford@gov.bc.ca>]

Sent: Friday, November 03, 2006 11:45 AM
To: Wood,Tom [PYR]
Cc: Donovan, Marta T ENV:EX; Cadrin, Carmen ENV:EX
Subject: Tsawout Reserve & Adjacent Areas Mapping project

Hi Tom,

I want to respond to a couple of items related to the message below and your discussions with Marta and Carmen.

The CDC supports, in principle, this project and will be willing to allocate some future staff and other resources toward its successful completion because there is value on several fronts. However, before we commit too much this fiscal in advance of the project, which begins next year, I will need to see a couple of things in place. Predictably, I will need to see a project charter that is agreed upon by the agencies involved concerning scope, objectives, and resources and I would like to see a project manager in place that, preferably, comes from the Tsawout.

Until a charter and project manager are in place, I am willing to commit only limited resources, which are:

1. Request that the Cordova Spit and surrounding area be identified as a priority area within the ILMB-led CDFmm TEM (bioterrain mapping to be completed at a 1:16000 scale by the end of fiscal) .
2. Explore the use of recent hi-res CRD photo imagery as a basis for plant species at risk/element occurrence mapping and contribute to their purchase if required and if funds are available at the close of fiscal.

Please call if you would like to discuss. I would like to see this move forward but require that proper structures are in place to ensure that forward is the direction it is heading. I also realize that you cannot bring this to be on your own and I will help with the organizing of the first meeting for charter development, if that is helpful.

Sincerely,

Shane

Shane Ford M.Sc. RPBio.
A/Coordinator - Conservation Data Centre
Ecosystems Branch, Ministry of Environment
✉ E-Mail: Mailto:Shane.Ford@gov.bc.ca
☎ Phone: (250) 387.9798

web sites:

BCCDC <http://srmwww.gov.bc.ca/cdc/>

Species Explorer <http://srmwww.gov.bc.ca/atrisk/toolintro.html>

Mapped Occurrences <http://maps.gov.bc.ca/imf50/imf.jsp?site=cdc>

From: Wood,Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Mon, October 30, 2006 10:11 AM
To: Bonnie McKenzie
Cc: Ford, Shane ENV:EX; jward@crd.bc.ca; Kirkby,Jan [PYR]; XT:Brock, Ken Pacific Wildlife Research Centre EAO:IN; ehpelkey@tsawout.ca
Subject: RE: Multi-Agency Coastal Dune Inventory and Management Plan

Bonnie McKenzie

Manager of Community Services
Municipality of Central Saanich

October 30, 2006

Dear Bonnie - The Canadian Wildlife Service and the BC Ministry of Environment are working with the Tsawout First Nation to develop a comprehensive inventory of biodiversity and cultural resources of the sand dune landscapes on Cordova Spit. This inventory will be used to support planning for protection and recovery of the sensitive ecosystems along Cordova Bay.

Capital Region District Parks is also planning an eco-inventory of Island View Beach. CRD has agreed to collaborate with Tsawout and the federal and provincial agencies in collection of data and in management planning. It is highly desirable to include in the inventory lands on Cordova Spit known as the Central Saanich park. The project can then support comprehensive management planning for protection of the entire coastal dune landform along Cordova Bay.

On behalf of the Tsawout community and the involved agencies, I would like to formally request approval of Central Saanich Council to extend the biodiversity inventory and mapping to include Cordova Spit parklands. We hope to have secured sufficient resources to complete this important work, and would thus foresee only a modest commitment of Central Saanich staff time to the coordinating committee and management planning activities.

We would appreciate your presenting this request to the Central Saanich Council in a timely manner. I look forward to your positive response. If you have any further questions, please feel free to call.

Sincerely

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 250-477-1682

cel 604-833-9855
e-mail; tom.wood@ec.gc.ca

From: Bonnie McKenzie [mailto:bonnie.mckenzie@csaanich.ca]
Sent: Thursday, October 26, 2006 4:26 PM
To: Wood,Tom [PYR]
Subject: RE: Multi-Agency Coastal Dune Inventory and Management Plan

Hi, Tom,

Thanks for this information. Your study sounds very interesting. In terms of process, upon receipt of a request to conduct scientific research within District-owned parks, we begin with an internal review of the request by staff, after which a covering memo is written and the request is then forwarded to Council for consideration. What are your timelines for beginning work on-site? I'd ask that you prepare a written request addressed to "Central Saanich Mayor and Council", which outlines the proposed scope and purpose of the work. This letter could refer to the contact you have made with District staff and note that this is a formal request to Council for authorization to conduct research within Cordova Spit Park. Feel free to call me if you wish, my number is 544-4219.

Regards,
Bonnie

Bonnie McKenzie, Manager of Community Services
District of Central Saanich
Phone: (250) 544-4219
Fax: (250) 652-4737

-----Original Message-----

From: Wood,Tom [PYR] [mailto:Tom.Wood@ec.gc.ca]
Sent: October 19, 2006 12:44 PM
To: Bonnie McKenzie; jward@crd.bc.ca
Cc: Hope V. Burns; Bruce Greig; Hureau,Stephen [PYR]; Kirkby,Jan [PYR]; Walker,Rob: APCA; s.22 marta.donovan@gov.bc.ca; jmiskelly@crd.bc.ca; ehpelkey@tsawout.ca; shane.ford@gov.bc.ca
Subject: Multi-Agency Coastal Dune Inventory and Management Plan

Hello Bonnie and Jeff - Staff of the Canadian Wildlife Service and BC Ministry of Environment have been working with the Tsawout First Nation on a project to inventory the biodiversity and cultural resources on Tsawout lands, as a basis for protection and recovery planning of the fragile dune ecosystems on Cordova Spit. Tsawout Chief and Council have encouraged us to work with CRD and Central Saanich to develop a multi jurisdictional management plan for the entire coastal dune landform on the spit. Consequently, we have had some preliminary scoping discussions with members of your staff, who have been highly supportive.

I would like to formally request your cooperation and participation in this project. Some resources are available

now, so we will get the basic terrain and plant community mapping underway this fall. This will lay the ground work for more detailed rare element and cultural resources inventories in the spring, in support of a comprehensive management plan for the total dune landscape unit. We plan to apply to for federal Species at Risk funding this winter to allow completion of the planning process.

A small steering committee will be essential to ensure the success of this collaborative project. I would hope for a first meeting before Christmas. I would like to invite you participate on this committee, or to name a representative to represent the interests of your agency.

I look forward to a highly successful outcome from this important initiative. If you have any questions, please feel free to call.

Sincerely

Tom Wood

Senior Policy Advisor
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From: Bruce Greig [mailto:Bruce.Greig@csaanich.ca]
Sent: Wednesday, September 27, 2006 10:07 AM
To: Wood,Tom [PYP]
Cc: Bonnie McKenzie; Hope V. Burns
Subject: RE: Coastal Dune Project Area

Hi Tom,

It does look like things are shaping up. From the Central Saanich side of things, it would be a good idea for you to submit a one or two page letter to the District giving a general description of the project and requesting permission to undertake research in the park. The policies of the municipality absolutely support this kind of research, but it should be put to the District as a formal request. As for the initial meeting you are trying to set up in the next week or so, it would be best to invite Bonnie McKenzie, Manager of Community Services, who oversees all the parks in Central Saanich.

Please don't hesitate to contact me if you have any questions.

Bruce Greig

Planning & Building Department
District of Central Saanich
1903 Mt. Newton Cross Road
Saanichton, B.C V8M 2A9
250-544-4215

bruce.greig@csaanich.ca

-----Original Message-----

From: Wood, Tom [P.Y.R.] [mailto:Tom.Wood@ec.gc.ca]

Sent: September 25, 2006 9:36 AM

To: James Miskelly; marta.donovan@gov.bc.ca

Cc: aruncus_consulting; Kirkby, Jan [P.Y.R.]; shane.ford@gov.bc.ca; Bruce Greig

Subject: Coastal Dune Project Area

All - We had a good discussion of requirements for this project on the walk about last week, as summarized by Matt below. It looks like most of the biological pieces are falling into place, and pending approval by the First Nation, can be ready to start this fall.

Before we go back to Tsawout Council, we need to clarify what the various parts of the project are. My take is that the project can be undertaken in several phases, as follows (please correct me where I've strayed or over-generalized).

1. Broad plant community surveys of the entire area in October, perhaps undertaken by James Miskelly and Nick Claxton.
2. Biophysical mapping based on CRD's color Ortho coverage. CDC looking into contracting Bob Maxwell to do prior to March 31- approximate cost \$5K?
3. Rare plant occurrence survey of entire study area, in May 2007. Funding partly from CRD and through application to federal Interdepartmental Recovery Fund.
4. Inventory of traditional-ceremonial values and ethnobotanical resources of area, funding to be included in IRF application.
5. Begin comprehensive management planning for sensitive dune ecosystem and associated wetlands - to complete - apply for IRF funding year 2.

I'd like very soon to meet with councilor Eric Pelkey, grad student Nick Claxton and other members of the community, to clarify the Band is comfortable with our thoughts to date and begin to scope the traditional-ethnobotanical side of the

project. I'd like to suggest that Marta and I do this as soon as possible.

We'll also need to factor in more substantive First Nation participation beyond Nick's work on ethnobotany and TEK. One option, if Nick is available, is to have him play a role in all phases of the project, starting the October with the broad survey of plant communities which Matt recommends.

Before engaging Eric and Nick, I need clarification from the agencies on the steps outlined, and assurance that steps 1 and 2 are possible this winter. I'd like clarification that the various agencies agree with the steps I've suggested.

Please get back to me soonest, with comments and clarifications, so i can set up a meeting with Tsawout.

This is shaping up to be an exciting project.

Tom Wood
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From: aruncus_consulting [mailto:aruncus_consulting@yahoo.ca]
Sent: Friday, September 22, 2006 3:27 PM
To: Wood,Tom [PYR]; James Miskelly; Kirkby,Jan [PYR]
Subject: Project Area

Hi Folks

The total project area is about 325 ha. Of that, we are looking at:

- 253 ha of IR (but I imagine about 50% of that will be heavily disturbed or developed and therefore excluded from the study area)
- 49 ha of regional park
- 7 ha of municipal park

This includes about 30 ha of sand spit and dune (mostly on the reserve), about 60

ha of wetlands (1/3 of which is on the reserve) and the balance in upland forest. As far as rare plants are concerned, I suggest that surveys cover all of the sand spit and dune vegetation. Some of the wetlands (especially in the regional park) are in quite poor condition, but those in the reserve tend to be better off. It is debatable how much of the forest is worth surveying but it will have to be traversed to get to some of the wetlands - that might be enough survey effort as long as the surveyors stop and examine any Garry Oak and upland meadow habitats in transit.

The sand spit and dune habitat is best surveyed when the *Camissonia contorta* and *Lathyrus littoralis* are in flower - late May is usually good. The rest of the sand spit and dune plants can be surveyed over a longer period from May to October. There's no reason why a relatively inexperienced botanist can't go out and survey the most widespread sand dune and spit plants (*Abronia latifolia*, *Convolvulus soldanella*, *Polygonum paronychia* and *Glehnia littoralis*) right now.

The upland forest habitats should be briefly examined in early May, just in case there are some early-flowering goodies. The need for subsequent surveys can be determined at that point (an experienced rare species botanist like Hans, the Ceskas or I can evaluate the likelihood of having suitable habitat for other rare species based on understory composition and condition after a fairly quick pass).

The wetlands are best surveyed for rare plants in July since these habitats are usually slow to develop.

It will take about 4 days to survey the 30 ha of sand spit and dune habitat for *Camissonia contorta*, *Lathyrus littoralis* and any other occurrences missed during this fall's surveys. The wetlands can be surveyed in about 4 more days. The upland forests will eat up as much time as you want. I suggest we budget 2 days to look at them and keep a contingency fund just in case they turn out to be more exciting than I project. That brings us to a total of 10 survey days not including this autumn's work. Write-ups are usually fairly brief - if you add another 5 days that should suffice for rare plant observation forms and generic management recommendations. Once you begin planning you may find you want to call upon the botanist to answer specific questions. Any honourable contractor will answer a few e-mails and phone calls for free but if you expect more input into planning, set some extra time aside. Plan on paying contractors about \$500/day plus travel expenses (in this case, kilometrage is the only expense I would anticipate if you hire locally).

Regards
Matt

p.s. if you want to defer all of the rare plant survey work until next year, add about \$700 for an assistant botanist to go around mapping the *Abronia latifolia*, *Convolvulus soldanella*, *Polygonum paronychia* and *Glehnia littoralis* while the senior botanist concentrates on the more complicated species.

From: [Wood, Tom \[PYR\]](#)
To: [bonnie Mckenzie](#); [Cadrin, Carmen ENV:EX](#); [Dan Claxton](#); [ehpelkey@tsawout.ca](#); [Glenn Bartley](#); [Hureau, Stephen \[PYR\]](#); [jmiskelly@crd.bc.ca](#); [Ken Cossey](#); [Kirkby, Jan \[PYR\]](#); [Mark Jinnouchi](#); [Donovan, Marta T ENV:EX](#); [Samantha Etzel](#); [Ford, Shane ENV:EX](#); [Susan Behn](#); [Tye Swallow](#); [Wood, Tom \[PYR\]](#)
Cc: [§ 22](#); [Matt Fairbairns](#)
Subject: Cordova Spit Inventory-Mapping Project
Date: Tuesday, May 22, 2007 10:47:12 AM

May 17 attendees - Tom Wood, CWS; Susan A Behn, Sencoten; Earl Claxton Jr, Tsawout; John Williams, Seachange; Helen Jack, Sencoten (teacher); Samantha Etzel, Alenenec Place Studies; Toby Joseph, Tsawout Councilor and Alenenec Place Studies; David Underwood, Alenenec Place Studies; Richard Behn, Eh Cho Dene, Tsawout contractor; Dan Claxton, Tsawout Fisheries; Tye Swallow, Alenenec Place Studies and Saanich Indian School; Glenn Bartley, Uvic; Patrick Hayes, Uvic Law; Carmen Cadrin, BCMOE, Jo-Anne Stacey, BCMOE.

On May 17, we had a short meeting to update folks on the status of mapping and inventory activities on the Spit. We then had a field trip to experience the bio-terrain field truthing being done by Carmen Cadrin and Jo-Anne Stacey of the Ministry of Environment. Carmen and Jo-Anne illustrated through soil pits how the initial soil typing done from air photos is confirmed on the ground.

Awareness of the project and the fragile values of the Spit is important. Susan Behn will work with Councilor Toby Joseph to make a presentation on the inventory project to the Tsawout AGM on May 24. Susan, Dan Claxton and Samantha Etzel will develop concepts for signage on site, for exploration with CRD and Central Saanich.

During the field trip, it was pointed out by Earl Claxton Jr that the two soil pits were in the vicinity of old Tsawout graves. Care was taken in remediating these two soil pits. This highlighted the need for greater attention to archeological values in the mapping project. This will minimize the risk of any future disturbances, and enhance the quality of mapping and any future restoration work. Susan Behn will explore options for incorporating an archeological overview into the inventory and mapping project.

Cheers - Tom

Tom Wood
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Canadian Wildlife Service
Pacific and Yukon Region
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From: Stacey, Jo-Anne ENV:EX
To: Filatow, Deepa ENV:EX; Cadrin, Carmen ENV:EX; Donovan, Marta T ENV:EX
Subject: Cordova Spit time estimates
Date: Thursday, November 15, 2007 4:12:49 PM

Hello all,

In order to help CWS and T'sawout in their application for funding, I am hoping each of you could give me rough estimate of how much time you have already put into this project. They anticipate that indicating the time and money already into the background data work will favourably influence the evaluation of their request for funding to develop a management plan.

Has anyone else been involved in this project that I should also include? I already talked to Erin.

If you can get this to me before the afternoon of Nov.22 (next Thursday) that would be great. I will compile this and send to Tom Wood.

Thanks a bunch.

Jo-Anne

From: [Wood, Tom \[PYR\]](#)
To: [Donovan, Marta T ENV:EX](#)
Cc: [Kirkby, Ian \[PYR\]](#); [Cadrin, Carmen ENV:EX](#); jmiskelly@crd.bc.ca; bruce.greig@csaanich.ca
Subject: FW: ecosystem mapping
Date: Monday, October 23, 2006 10:09:06 AM

Hi Marta - Parks Canada and DFO (Jim Morrison - shellfish program) have both indicated a keen interest in being kept informed about the Cordova Spit project. Note Todd Golumbia's mention of MOF TEM mapping of the entire CDF on Vancouver Island. Carmen mentioned this mapping in her latest e-mail, and I know you guys are involved in a meeting about it tomorrow. Sounds like you may be able to achieve some efficiencies in the bioterrain mapping, and I am confident you will be able to maintain our plan to have this wrapped up for the Cordova Spit study area this winter. James Miskelly is going ahead this fall with mapping the major plant communities.

Once I have had a chance to explore the cultural/traditional knowledge side of things a bit more with Nancy Turner, I will be in touch with you about more detailed planning for next year to complete the project.

Cheers - Tom

Tom Wood
Senior Policy Advisor
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-----Original Message-----

From: todd.golumbia@pc.gc.ca [<mailto:todd.golumbia@pc.gc.ca>]
Sent: Monday, October 23, 2006 9:20 AM
To: Wood, Tom [PYR]
Cc: Rob.Walker@pc.gc.ca
Subject: ecosystem mapping

Hi Tom,

As I mentioned on the phone, we are mid-stream in completion of detailed (1:10,000) ecosystem mapping for all the southern Gulf Islands. Our mapping is "TEM Plus" as it includes the basic TEM attributes as well as considerable additions and enhancements. Our linework is "two-layered" to differentiate site series and more detailed structural attributes. We have also described forest fire fuel characteristics, forest cover, sensitive ecosystems and many other aspects.

Through this process, it has become obvious that the Vancouver Forest Region "Red Book" is inadequate in describing the CDF. We have described a total of 36 provisional site series (forested and non-forested) compared to 11 in the red book. We have incorporated the provisional Gary Oak types as well as wetlands (Will McKenzie's scheme) and other non-forested sites. The MOF is planning on substantial updates to the redbook for several zones.

We have incorporated 1000 site visits and are now attributing over 8000 polygons for our 12,000 ha land area and hope to have draft maps for public consultation on the islands early in the new year. Throughout the project, I have been working closely with MOF and MOE to ensure compatibility. I have also included CWS (Jan Kirkby) in the development of the Terms of Reference and proposal review. As we have been moving through our project, Andy McKinnon (Regional Forest Ecologist) has secured funds to map the remaining Coastal Douglas Fir zone. Although they will map at a more "regional" scale of 1:20K, our maps will be comparable at that scale.

You may be able to save some work by incorporating the MOF linework as a basis for your more detailed mapping at Cordova Spit. Alternatively, if you are mapping to meet or exceed TEM standards, Andy's project could incorporate your linework and then spend their limited resources to increase detail elsewhere. I will be meeting with MOF, MOE and CDC tomorrow to kick off the expanded mapping program. I will alert them to your project and encourage some level of collaboration. My hope in the end is to do a GIS-based conservation strategy for the islands and then expand to look at the CDF in its entirety.

Coastal regions, like Cordova, Sidney and James Island Spits are critical habitat. However, their value is enhanced further when they can be looked at in the context of a regional landscape. For any coastal mapping, you should consider nesting within the newly updated ShoreZone mapping which Parks Canada has done for the entire NMCA feasibility area (SE Vancouver Island - Nanaimo to Harling Point - coastline and all the adjacent islands). Some of this data, including streaming video, can be viewed at: <http://www.shim.bc.ca/gulfislands/atlas.htm> . This type of mapping is also available for much of the West Coast. There is considerably more detail within the database for shore segments and across shore components from low tide up to supratidal zones.

Your project sounds pretty exciting. I hope that you can fit it within some of these more regional initiatives so that we can all benefit from the knowledge gained. I look forward to working with you in the future.

Todd Golumbia MSc
Ecologist
Gulf Islands National Park Reserve
2220 Harbour Road
Sidney BC V8L 2P6

Phone: 250-654-4011
Fax: 250-654-4014

From: [Cadrin, Carmen ENV:EX](#)
To: ["Wood, Tom \[PYR\]"](#)
Cc: [Donovan, Marta T ENV:EX](#); [Ford, Shane ENV:EX](#)
Subject: FW: TIXEN
Date: Wednesday, July 11, 2007 10:01:34 AM
Attachments: [07-04-03 Cordova Spit Project ToFR.doc](#)
[07-07-08 Tsawout Fact Sheet.doc](#)
[07-07-08 TIXEN Status report.doc](#)

HI Tom,
A couple of questions on the ToR.

Most of the discussion is about the dune ecosystems and I'm wondering if it would be enough to have just the dune ecosystems mapped out along the coastline, spit and around the bay, or if the Tsawout really need to have the remainder of the forested and townsite area mapped.

So are there any species of cultural significance that they would like to develop mgt plans for in the forested areas?

SO far we have mapped the dunes and old wetland/field areas of the parks and the reserve, but could leave out the remainder if there is no need or interest in them.

Secondly, another MoE Section, Ecosystem Information, are providing much of the ecosystem expertise, not just the CDC so please include them, or leave it at Ministry of Environment.
Thanks Tom

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre
Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

Location/ Courier Address:
Mezzanine - 395 Waterfront Crescent
Victoria, BC V8T 5K7
Ph: 250 387-2730
Fax: 250 387-2733

"It is not the strongest of the species that survive, nor the most intelligent, but the most responsive to change." Charles Darwin (1835)

-----Original Message-----

From: Donovan, Marta T ENV:EX
Sent: Wednesday, July 11, 2007 9:45 AM
To: Cadrin, Carmen ENV:EX
Subject: FW: TIXEN

-----Original Message-----

From: Wood, Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Sunday, July 8, 2007 11:30 AM
To: s.22 Samantha Etzel
Cc: s.22
s.22 Toby Joseph; s.22

jpsyllakis@crd.bc.ca;
Ken Cossey; Kirkby, Jan [PYR];

Mark Jinnouchi; Donovan, Marta T ENV:EX; S.22
Swallow
Subject: RE: TIXEN

: Samantha Etzel; Ford, Shane ENV:EX; Tye

Hi all - Following the meeting on Friday, I have drafted some material for your consideration, in preparing to make a report to the new Tsawout Council. I've included the original Terms of Reference for the project. Also a draft report to Council, and some draft wording for a community procher. We can discuss these with Marc and Ken on Monday.

Susan, did you locate a room for our use on Monday?

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: S.22
Sent: Friday, July 06, 2007 7:37 PM
To: Samantha Etzel
Cc: S.22
jpsyllakis@crd.bc.ca; S.22
Subject: Re: TIXEN

Wood, Tom [PYR]; S.22
Toby Joseph; :

Thanks very much Sam!

I will add this set of emails to the larger one from the bigger committee and send something around in the next day or so.

I do have the Sencot'en alphabet, but pushed it off onto one of my external drives, because it does take up quite a bit of space.

I got mine through John Elliot, but I am sure Tye has access to it as well.
Susan AB

From: [Cadrin, Carmen ENV:EX](#)
To: [Filatow, Deepa ENV:EX](#); [Stacey, Jo-Anne ENV:EX](#)
Cc: [Donovan, Marta T ENV:EX](#); [Tesch, David ENV:EX](#)
Subject: FW: TIXEN
Date: Thursday, July 12, 2007 9:00:52 AM

Hi Deepa and Jo

See Tom's reply to my question about forested part of reserve. Looks like the mapping that Deepa has done for bioterrain will address the most pressing area. So let's keep it simple and work with this only. If we can get out in July and verify boundaries, etc, we can get the spatial data capture done and move ahead with this.

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre
Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

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Ph: 250 387-2730
Fax: 250 387-2733

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-----Original Message-----

From: Wood, Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Thursday, July 12, 2007 8:38 AM
To: Cadrin, Carmen ENV:EX
Cc: Donovan, Marta T ENV:EX; Ford, Shane ENV:EX
Subject: RE: TIXEN

Hi Carmen - Mapping the dunes and associated wetlands will cover the most fragile areas.

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: Cadrin, Carmen ENV:EX [<mailto:Carmen.Cadrin@gov.bc.ca>]
Sent: Wednesday, July 11, 2007 10:02 AM
To: Wood, Tom [PYR]
Cc: Donovan, Marta T ENV:EX; Ford, Shane ENV:EX
Subject: FW: TIXEN

From: [Jennifer Psyllakis](#)
To: [Tom IPYRI Wood](#); [Glenn Bartley](#); [Stacey, Jo-Anne ENV:EX](#); [Donovan, Marta T ENV:EX](#); [mjinnouchi@tsawout.ca](#); [Susan Anderson Behn](#)
Cc: [Jeff Ward](#)
Subject: Meeting items
Date: Tuesday, November 13, 2007 2:27:36 PM
Attachments: [CRD background.doc](#)

Hi There,

In preparation for tomorrow's meeting I thought I would put a brief summary of the management plan (goals) and interpretative plan (themes) that exist for IVB Regional Park. I also summarized Matt Fairbairn's general management recommendations (see attached).

We can review the existing management plan and determine if it is still useful as a stepping stone for the Conservation Plan. A number of actions have taken place at IVB since the plan was completed (1989), but I think the conservation goals are still relevant today.

We should also spend some time pinpointing the goals of the Conservation Plan as they will be put forward in the proposal. This will be helpful to frame CRD Parks contribution. I think it will be important to discuss the expectations for several positions. That will enable us to make a better assessment of how much time/ in-kind support we can commit to for Tsawout's proposal.

- Planning staff
- Environmental Conservation Specialist
- GIS Technician
- Operations staff
- Communications material

Looking forward to meeting with you tomorrow.

See you then,

Jen

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Thank you.

Background Info

Management Plan Goals (August 1989)

To protect the natural resources and character of the park. Particularly the regionally significant representative and sensitive resources

To provide opportunities for a variety of environmentally compatible day use outdoor recreational activities for people of all ages and physical levels

To minimise conflicts among recreational users.

To develop appropriate park facilities and to manage the park activities in order to utilise the natural recreational potential of the park while avoiding deterioration of the park's natural features and setting.

To present and interpret through the use of a thematic approach, the natural history of the park and associated human history.

To promote and encourage use of the park for the residents of and visitors to the CRD

To acquire additional lands for park purposes

To cooperate with the municipality of Central Saanich and adjacent land owners regarding the management. Development and operation of the park.

Interpretative Plan (February 1992)

Themes developed

Beach building

Beach colonization

Beach berm shelter

Beach survival adaptations

Beach/maritime ecosystem

Beach habitats

Threats to ecosystem

Fairbarns Report (August 2007)

General recommendations

Improve training to land managers and staff regarding location and threats to rare plant species

Improve public awareness (interpretative signage and guided hikes, as well as public participation in restoration activities)

Protect rare species and monitor success of protection measures

Restoration and invasive species management

Partnership Statement

The Cordova Shore, that includes Coastal lands on the Tsawout First Nations Reserve, CRD Island View Beach Regional Park and Cordova Spit Park (Municipality of Central Saanich) contain significant remnants of rare coastal sand dunes and habitats of great conservation interest. Lands within these three jurisdictions comprise the largest contiguous dune system in southern British Columbia and one of the best examples of an intact dune system in the province. Several species at risk are documented to occur there including: the yellow sand-verbena, beach bindweed, American glehnia (beach carrot), black knotweed and fleshy jaumea (provincially blue listed); as well as, the grey beach peavine, Howell's triteleia, and contorted-pod evening-primrose (red listed). Howell's triteleia and contorted-pod evening-primrose are also listed as endangered by the Committee on the Status of Endangered Species in Canada (COSEWIC). The sand verbena moth, also listed as endangered by COSEWIC and red-listed by the province occurs there.

The dunes and their associated ecosystems of the Cordova Shore are being degraded by uncontrolled public access, past management actions, and the expansion of invasive species. All land management jurisdictions and several management agencies agree that the Cordova Shore is a high priority site for conservation because of its unique species assemblages and the risks that threaten population persistence at the site. Because of these shared values, several agencies have agreed to work together to develop a conservation strategy as the first essential step to protecting and restoring the natural and cultural resources of this rare ecosystem.

The goal of the project is to develop and implement a multi-jurisdictional conservation plan for the Cordova Shore (also known as TIXEN), including measures to protect vulnerable ecosystem elements as well as restore those that have been damaged.

Engaged Jurisdictions:

- The WSANEC community at Tsawout,
- Capital Regional District, Parks
- Central Saanich Municipality, Parks.

Supporting Agencies:

- Canadian Wildlife Service, Environment Canada
- Conservation Data Centre, BC MOE
- University of Victoria (Environmental Sciences, Linguistics, Restoration of Natural Systems)
- Other Academic Institutions – Protected Areas in Sustainable Forest Management Project

From: Jennifer Psyllakis
To: Tom [PYRI Wood; Stacey, Jo-Anne ENV:EX
Subject: Re: "Partnership Statement" - saved attachmetn to Other folder in Cordova folders
Date: Wednesday, November 28, 2007 10:46:43 AM

Hi Jo-Anne,

I just sent this to Tom yesterday to see if it was okay, and tweaked it a bit today. It is based much on Tom's TOR document from this year's project. It may not be the final document, but it provides you something to work from. Any comments regarding content are much appreciated.

Jen

>>> "Stacey, Jo-Anne ENV:EX" <Joanne.Stacey@gov.bc.ca> 11/28 10:26 AM >>>

Hello,

I was just going over my "to-do" lists and see that Tom, is expecting to receive a letter of support for the Conservation Planning proposal from all parties - due Dec. 1.

My notes also indicate that Jen was going to draft a partnership statement that would help guide the content of those letters. Has there been any progress on that statement. I will need a few days to get approval and signatures from my managers on any official letters so may at this point have difficulty meeting the Dec 1 deadline (I am away from the office on fridays as well).

Please let me know how that is coming along.

Thanks.

Jo-Anne

Conservation Data Centre
PO Box 9358 Stn Prov. Govt. Victoria, B.C. V8W 9M2
Ph: (250) 952-6902 Fax: (250) 387-6494
email: joanne.stacey@gov.bc.ca

> <http://srmwww.gov.bc.ca/cdc/>
<http://www.env.gov.bc.ca/sei/>
<http://www.env.gov.bc.ca/atrisk/toolintro.html>
<http://srmwww.gov.bc.ca/atrisk/ims.html>

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Thank you.

From: [Richard Behn](#)
To: [Tom.Wood@ec.gc.ca](#); [bonnie.mckenzie@csaanich.ca](#); [Cadrin, Carmen ENV:EX](#); [fisheries@tsawout.ca](#); [ehpelkey@tsawout.ca](#); [Stephen.Hureau@ec.gc.ca](#); [jmiskelly@crd.bc.ca](#); [kcossey@tsawout.ca](#); [Jan.Kirkby@ec.gc.ca](#); [mjinnouchi@tsawout.ca](#); [Donovan, Marta T ENV:EX](#); [Ford, Shane ENV:EX](#)
Subject: RE: Cordova Spit Inventory-Mapping Project
Date: Tuesday, June 5, 2007 3:59:57 PM

To All Concerned:

I do not represent the Tsawout People in any official capacity.

The email of May 31, 2007, concerning the meeting and site visit on May 17 wherein I made several observations, does not in any way reflect the Tsawout leadership and their decision concerning Cordova Spit and therefore should be disregarded.

I apologize to everyone for my ignorance of the fact that there was an ongoing project with the agreement of the Tsawout leadership and management.

Respectfully,

Richard Behn

From: [Cadrin, Carmen ENV:EX](#)
To: [Ford, Shane ENV:EX](#)
Subject: RE: Cordova Spit work....and next meeting
Date: Monday, October 15, 2007 1:29:02 PM

Deepa and Jo will decide best way for Kim to support them on this.

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre
Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

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Ph: 250 387-2730
Fax: 250 387-2733

"It is not the strongest of the species that survive, nor the most intelligent, but the most responsive to change." Charles Darwin (1835)

-----Original Message-----

From: Ford, Shane ENV:EX
Sent: Monday, October 15, 2007 12:19 PM
To: Cadrin, Carmen ENV:EX
Subject: RE: Cordova Spit work....and next meeting

Is Kim going to work on this?

-----Original Message-----

From: Cadrin, Carmen ENV:EX
Sent: Monday, October 15, 2007 11:43 AM
To: Donovan, Marta T ENV:EX; Ford, Shane ENV:EX
Cc: Stacey, Jo-Anne ENV:EX; Filatow, Deepa ENV:EX
Subject: RE: Cordova Spit work....and next meeting

HI Marta, I won't be able to stay on this project. Jo-Anne and Deepa are moving ahead on this project and will be able to provide you with the update for the ecosystem mapping. Please talk directly to Jo for more information.

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
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Victoria BC V8W 9M2

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-----Original Message-----

From: Donovan, Marta T ENV:EX
Sent: Monday, October 15, 2007 8:49 AM
To: Ford, Shane ENV:EX
Cc: Cadrin, Carmen ENV:EX
Subject: RE: Cordova Spit work....and next meeting

Hi Shane,

Tom is expecting a response from me. Do you have time to discuss the status of this project with me so that I can provide him with one?

Thanks,
Marta

-----Original Message-----

From: Donovan, Marta T ENV:EX
Sent: Friday, October 12, 2007 8:32 AM
To: Cadrin, Carmen ENV:EX
Cc: Ford, Shane ENV:EX
Subject: FW: Cordova Spit work....and next meeting

Hi Carmen,

Are you able to attend this meeting at Tsawout?

Marta

-----Original Message-----

From: Wood, Tom [P.Y.R.] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Wednesday, October 10, 2007 11:36 AM
To: Glenn Bartley; dan claxton; Jennifer Psyllakis; Ken Cossey; Kirkby, Jan [P.Y.R.]; Mark Jinnouchi; Donovan, Marta T ENV:EX; s.22 Samantha Etzel; Ford, Shane ENV:EX; Susan Behn; Tye Swallow
Subject: FW: Cordova Spit work....and next meeting

All - Susan and Glenn have reminded me that we have not met for a while, and that there are a number of pieces coming together that we need to discuss. I'm hoping that Jennifer or Pam is available to report on the rare species survey done by Matt Fairbarns, and Marta or Carmen can report on the mapping work done by MOE. Those, with Glenn's avian inventory work should provide us with the basis for starting work on a restoration plan.

I'd like to schedule a meeting at Tsawout for 9:00, Oct 29. Please confirm your availability.

Jennifer, Marta and Glenn - could you please call me to discuss your pieces to the puzzle.

Thanks - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: Susan Anderson Behn s.22
Sent: Wednesday, October 10, 2007 11:14 AM
To: Wood,Tom [PYR]
Cc: Marc Jinnouchi; Tsawout Fisheries; ken cossey
Subject: Cordova Spit work....and next meeting

Glenn Bartley reported to Tsawout Council today on the work he is doing,

and in the discussions we had afterward, we realized there has not been a meeting of the Committee for some time. Glenns basic mapping is done, now looking for community comments and input....and its already the middle of October.

The Tsawout Chief and Council Chambers has only a few empty half days left in October, so we tentatively booked Monday, October 29th from 9 to noon for a Cordova Spit meeting.

Since you are the nominal Chair, could you confirm that this date will work for you, or not...and if its good, put out a notice?

The other options are the 30th and morning of the 31st.

Susan AB
Sencot'en office 544-0962

From: [Cadrin, Carmen ENV:EX](#)
To: [Ford, Shane ENV:EX](#)
Subject: RE: Cordova Spit work....and next meeting
Date: Monday, October 15, 2007 1:29:02 PM

Deepa and Jo will decide best way for Kim to support them on this.

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre
Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
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-----Original Message-----

From: Ford, Shane ENV:EX
Sent: Monday, October 15, 2007 12:19 PM
To: Cadrin, Carmen ENV:EX
Subject: RE: Cordova Spit work....and next meeting

Is Kim going to work on this?

-----Original Message-----

From: Cadrin, Carmen ENV:EX
Sent: Monday, October 15, 2007 11:43 AM
To: Donovan, Marta T ENV:EX; Ford, Shane ENV:EX
Cc: Stacey, Jo-Anne ENV:EX; Filatow, Deepa ENV:EX
Subject: RE: Cordova Spit work....and next meeting

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Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre Ecosystems Br. Environmental Stewardship Div.
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Victoria BC V8W 9M2

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From: Susan Anderson Behn S.22

Sent: Wednesday, October 10, 2007 11:14 AM

To: Wood,Tom [PYR]

Cc: Marc Jinnouchi; Tsawout Fisheries; ken cossey

Subject: Cordova Spit work....and next meeting

Glenn Bartley reported to Tsawout Council today on the work he is doing,

and in the discussions we had afterward, we realized there has not been a meeting of the Committee for some time. Glenns basic mapping is done, now looking for community comments and input....and its already the middle of October.

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The other options are the 30th and morning of the 31st.

Susan AB

Sencot'en office 544-0962

From: [Wood, Tom \[PYR\]](#)
To: [Donovan, Marta T ENV:EX](#)
Cc: [Ford, Shane ENV:EX](#); [Cadrin, Carmen ENV:EX](#); [DeShield, Coral \[PYR\]](#)
Subject: RE: East Saanich IR 2 - Tsawout First Nation
Date: Thursday, May 11, 2006 11:46:18 AM

M S and C - Was a great morning for a walkabout on the Cadboro Spit. Glad I was able to make it.

Went afterwards to the Tsawout office and met with Lands Manager, Cathy Webster. She was most interested to hear about our walk, and the importance/fragility of the dune landforms on the spit. The band is aware of several medicinal plants which occur there, but are not generally aware of the rarity and sensitivity on the ecosystem as a whole. I think they would be very receptive to some joint efforts to protect/restore the dunes. Occurs to me that an HSP project involving the community in developing and implementing a restoration program might be doable. I'd be pleased to help put that together.

I note from the map you sent that the Reserve does not encompass the whole spit. Cathy referred to the end of the spit as cut-off lands, and the Band still considers it part of their Reserve. In any case, the band controls all the access points that would be required for managing access.

Cathy would like a short description of the sensitivity of the area, and the rare plants and animals which occur there. I believe she would like to discuss this with her elders committee, perhaps preparatory to a field tour of the site for the elders. I told her we (you) would be pleased to visit and talk about the importance of the area, and possibly lead a field tour.

If you can give me a page or two in plain language outlining the area's sensitive and fragile features, I will pass this on to Cathy, and work with her to bring you guys in to talk.

Again - thanks for letting me tag along - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service, Pacific
Delta, British Columbia
cel 604-833-9855
email: tom.wood@ec.gc.ca

-----Original Message-----

From: Donovan, Marta T ENV:EX [<mailto:Marta.Donovan@gov.bc.ca>]
Sent: Thursday, May 04, 2006 12:25 PM
To: Wood, Tom [PYR]
Cc: Ford, Shane ENV:EX; Cadrin, Carmen ENV:EX
Subject: East Saanich IR 2 - Tsawout First Nation

Hello Tom,

About 20 CDC and Ecosystem Branch staff are participating in a retreat at Dunsmuir Lodge next Thursday (May 11) and we had hoped to start the day with a brief (1 hour) visit to Island View Beach and Cordova Spit, since it's a local hotspot for species and ecosystems at risk.

Since it appears (attached map shows IR boundary in pink, park boundary in green) that access to the spit is through the Reserve, we'd like to request permission from the Tsawout First Nation.

Is this something you could arrange for us or provide us with a band contact?

Thanks,

Marta Donovan, Botanist
B.C. Conservation Data Centre
Ecosystems Branch
Ministry of Environment
250-356-0943

<<island_view.jpg>>

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Version: 7.1.392 / Virus Database: 268.5.6/337 - Release Date: 5/11/2006

From: [Cadrin, Carmen ENV:EX](#)
To: ["Wood, Tom \[PYR\]"](#)
Cc: [Stacey, Jo-Anne ENV:EX](#)
Subject: RE: Fieldwork at Island View Beach
Date: Wednesday, May 16, 2007 8:38:59 AM

Hi Tom,
Thanks for contacting Jeff. Jo and I will have to select and prepare an appropriate site, especially if we need to dig a soil pit so will go on ahead. See you there.

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre
Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

Location/ Courier Address:
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Ph: 250 387-2730
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-----Original Message-----

From: Wood, Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Tuesday, May 15, 2007 9:11 PM
To: Cadrin, Carmen ENV:EX
Cc: Donovan, Marta T ENV:EX; Stacey, Jo-Anne ENV:EX; Filatow, Deepa ENV:EX; Erwin, Corey W FOR:EX; Westereng, Leah K ENV:EX
Subject: RE: Fieldwork at Island View Beach

Thanks Carmen - Spoke with Jeff Ward at CRD Parks - There will be no problem if you wish to demonstrate with a soil pit or two. See you at 10:30 Thursday? Why don't you come to the Band Council Chambers and we can make our way out to the Spit together.

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: Cadrin, Carmen ENV:EX [<mailto:Carmen.Cadrin@gov.bc.ca>]
Sent: Tuesday, May 15, 2007 4:40 PM
To: Wood, Tom [PYR]
Cc: Donovan, Marta T ENV:EX; Stacey, Jo-Anne ENV:EX; Filatow, Deepa

ENV:EX; Erwin, Corey W FOR:EX; Westereng, Leah K ENV:EX
Subject: RE: Fieldwork at Island View Beach

HI Tom, Jo-Anne and I will be able to be at the site on Thursday morning and demonstrate a sampling site with some info on bioterrain as gleaned from Deepa when she was in town.

-----Original Message-----

From: Wood, Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Tuesday, May 15, 2007 9:02 AM
To: Cadrin, Carmen ENV:EX
Cc: Donovan, Marta T ENV:EX; Stacey, Jo-Anne ENV:EX; Filatow, Deepa ENV:EX; Erwin, Corey W FOR:EX
Subject: RE: Fieldwork at Island View Beach

Carmen - As discussed we are still on for May 17. I am trying to contact Jeff Ward at CRD Parks re permission to dig a soil pit. Please call when you have confirmed your participation.
s.22 Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: Cadrin, Carmen ENV:EX [<mailto:Carmen.Cadrin@gov.bc.ca>]
Sent: Monday, May 14, 2007 9:50 AM
To: Wood, Tom [PYR]
Cc: Donovan, Marta T ENV:EX; Stacey, Jo-Anne ENV:EX; Filatow, Deepa ENV:EX; Erwin, Corey W FOR:EX
Subject: Fieldwork at Island View Beach

Hello Tom,
May 17th is the date that was chosen for the next Island View partners meeting and a request was made to meet with field crew if they were available.

Is this still in the cards (2 of us could be out on that day) and what sort of permissions do we need to arrange to do this work, especially as any soil survey will require disturbing the sites in selected sample points.

Thanks for clarification Tom.
Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

Location/ Courier Address:
Mezzanine - 395 Waterfront Crescent
Victoria, BC V8T 5K7
Ph: 250 387-2730

Fax: 250 387-2733

"It is not the strongest of the species that survive, nor the most intelligent, but the most responsive to change." Charles Darwin (1835)

From: [Michele Rempel](#)
To: [Stacey, Jo-Anne ENV:EX](#)
Cc: [Jennifer Psyllakis](#); [Michelle Simpson](#)
Subject: Re: FW: Terrestrial Ecosystem Mapping at Island View Beach
Date: Friday, August 3, 2007 11:56:22 AM
Attachments: [INSURANCE SCHEDULE.doc](#)
[RELEASE.doc](#)
[FEE SCHEDULE.doc](#)

Hello Jo-Anne,

In order to process your permit request can you:

1. Provide proof of insurance (see attached insurance schedule)
2. Return a signed release and indemnification (see attached form)
3. Provide a damage deposit of \$100 (see attached fee schedule). The permit fee is waived; however, we do require a \$100 damage deposit to the terms and conditions of the permit are met and reports and documents are completed and forwarded to us. We will take a credit card number over the phone and not put the charge through unless required.

Michele Rempel, Manager
Administrative and Visitor Services
Capital Regional District Parks
490 Atkins Avenue
Victoria, BC V9B 2Z8

Tel: (250) 478-3344
Fax: (250) 478-5416
Email: mrempel@crd.bc.ca
Web: www.crd.bc.ca/parks

>>> "Stacey, Jo-Anne ENV:EX" <Joanne.Stacey@gov.bc.ca> 08/02 10:49 AM >>>

Hi Michelle,

I received an out of office reply from Michelle Simpson. I expect her note means July 30 - August 10. So I am forwarding this to you in her absence.

Thanks in advance for your help.

Jo-Anne

>

> From: Stacey, Jo-Anne ENV:EX
> Sent: Thursday, August 2, 2007 10:45 AM
> To: 'msimpson@crd.bc.ca'
> Cc: Prescott, Erin ENV:EX; 'Jennifer Psyllakis'
> Subject: Terrestrial Ecosystem Mapping at Island View Beach
>
> Hello Michelle
> I got your name from Jennifer Psyllakis in your office. As you may
> know there is a collaborative effort on-going to develop a management
> plan for Cordova spit. Part of the information for that plan will come
> from Terrestrial Ecosystem Mapping, which is being completed by the BC

> Ministry of Environment, of which I am a part.
>
> I understand that we need to get permission to do field sampling on
> the Park land so I have attached the application that Michelle sent me
> yesterday. We would like to do the field inventory within Island View
> and other areas of the spit on August 14 and 15.
>
> I hope this meets your needs. I will be out of the office next week so
> should you have questions regarding this please contact Erin Prescott
> (cc'd)
> <<Permit_Appl_CRDparks.doc>>
> Thanks.
>
> Jo-Anne Stacey
>
> Conservation Data Centre
> PO Box 9358 Stn Prov. Govt. Victoria, B.C. V8W 9M2
> Ph: (250) 952-6902 Fax: (250) 387-6494
> email: joanne.stacey@gov.bc.ca
>
> <http://srmwww.gov.bc.ca/cdc/>
> <http://www.env.gov.bc.ca/sei/>
> <http://www.env.gov.bc.ca/atrisk/toolintro.html>
> <http://srmwww.gov.bc.ca/atrisk/ims.html>
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>
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>

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Thank you.

PARK USE PERMIT INSURANCE SCHEDULE

The permit holder must maintain insurance for park use permits that authorize a use or activity where a potential risk to loss or damage to the permit holder's clients, other users or the Capital Regional District is present.

Insurance is to be provided, maintained and paid for by the permit holder and shall include:

- Comprehensive General Liability Insurance in an amount not less than \$2,000,000 (two million dollars) inclusive per occurrence against bodily injury, personal injury and property damage and including liability assumed under contract.
- The Capital Regional District is to be added as an additional insured on this policy and the policy shall include a cross liability clause.
- The policy shall contain a clause providing that the insurer will give the Capital Regional District 30 (thirty) days prior written notice in the event of cancellation or material change to the insurance.
- The permit holder shall provide CRD Parks with evidence of such insurance coverage in the form of an executed copy of a Certificate of Insurance, prior to the issuance of the permit.

PARK USE PERMIT CATEGORY	AMOUNT OF COMPREHENSIVE GENERAL LIABILITY INSURANCE REQUIRED
Commercial Filming - Motion Picture and Television - If subject to "Policy and Regulations for Filming in CRD Parks"	\$2,000,000 \$5,000,000
Commercial Service or Activity	\$2,000,000
Picnic Shelter	Not Applicable
Research Activity	\$2,000,000
Special Event or Activity	\$2,000,000
Temporary Service Access	\$2,000,000

PARK USE PERMIT RELEASE AND INDEMNIFICATION FORM

The Individual, Group or Organization, hereinafter called the "Licensee", accepts and will use CRD Parks lands and facilities, hereinafter called the "Facilities", at its own risk and shall assume all risks and hazards incidental to use of the Facilities by the Licensee and agrees to release, absolve, save harmless and keep indemnified the Capital Regional District, its directors, officers, employees, officials, agents, servants, volunteers or representatives from and against all claims, actions, costs, expenses, and demands in respect to death, injury, loss or damage suffered or incurred by the Licensee.

No warranty is implied for use of the Facilities of the Capital Regional District and this agreement is to be binding on the Licensee, his/her heirs, executors, and assigns.

The Licensee is responsible for inspecting the Facilities prior to use to confirm they are suitable for their purpose. The Licensee agrees to accept the Facilities as is, and will use the property at their own risk.

The Licensee is responsible for ensuring the Facilities are appropriate for the activity; the activity is conducted in a safe, orderly manner; the activity is restricted to the Facilities; and the special use does not interfere with other park users.

The Capital Regional District reserves the right to cancel an activity for any reason and shall not be responsible for any associated costs or damages incurred by the Licensees or others.

SIGNED this _____ day of _____, 20____

Signature

Printed Name of Person Representing Group, Organization or the
Owner of the Business

PARK USE PERMIT FEES AND CHARGES

		PERMIT FEE			
SPECIAL USE CATEGORIES		SPECIAL USE FEE (GST INCLUDED)	REFUNDABLE SECURITY DEPOSIT	SITE PREPARATION & CLEANUP COSTS	COMPREHENSIVE GENERAL LIABILITY INSURANCE
A Park Use Permit Application must be completed by anyone requesting Special Use for Categories 1 through 6.				May Include supervision of Special Use	Proof of insurance to be submitted with permit application
1. Commercial Filming - Motion Picture, Television and Photography. Short Term: Minimal set up, less than 5 days in park Long term: Elaborate set up, no more than 10 days in park Major commercial filming projects which are more than 10 days in a park are required to follow Policy and Regulations for Filming in CRD Parks.		\$53.50 per permit \$267.50 per permit As per filming policy	\$100 \$500 As per filming policy	Hourly CRD Parks Charge Out Rate	\$2,000,000 \$2,000,000 \$5,000,000
2. Commercial Service or Activity - Such as guided programs or recreational training. Single trip: 1 day Seasonal: 4 month period Yearly: January 1 - December 31 inclusive					
		\$ 26.75 per permit \$133.75 per permit \$214.00 per permit	\$100 \$100 \$100		\$2,000,000 \$2,000,000 \$2,000,000
3. Picnic Shelter - Use of group picnic shelters at Eagle Beach, Beaver Lake or Aylard Farm.		\$26.75 per day	N/A		N/A
4. Research Activity - Such as specimen collections, surveys, inventories and monitoring plots.		\$26.75 per permit	\$100		\$2,000,000
5. Special Event or Activity - Such as a festival, tournament, competition, show or outdoor ceremony which attracts participants and spectators. Frequent Users: 10 or less events/year		\$26.75/day* \$107.00/year*	\$100		\$2,000,000
6. Temporary Service Access - Access/occupancy through a regional park or trail for such purposes as accessing a private property, utility or public works.		\$53.50*	\$100		\$2,000,000
* FEE EXEMPTIONS: Special Event or Activity: Fee exemption will be made only when all participants are under 18 years of age. Research Activity and Temporary Service Access: Fee exemption will be made only when the activity provides a benefit or improvement to the park or regional parks system.					

From: [Jennifer Psyllakis](#)
To: [Tom \[PYR\]](#); [Glenn Bartley](#); [Stacey, Jo-Anne ENV:EX](#); [Donovan, Marta T ENV:EX](#); [mjinnouchi@tsawout.ca](#); [Susan Anderson Behn](#)
Subject: Re: Spit - Funding and Plan Implementation
Date: Tuesday, November 6, 2007 3:00:02 PM
Attachments: [mill_hill_map_000.pdf](#)

Please find attached a map to Mill Hill Regional Park - CRD Park Headquarters. You can either take exit 14 to Sooke off the Highway. The exit to Sooke brings you onto Veterans Memorial Parkway, then turn L again onto Hoffman Rd, then a quick R onto Winster Rd, then L onto Atkins. Or exit to Colwood, go along the island hwy to 6 mile rd, take a R, then L onto Atkins Road (just after the Galloping Goose overpass). I have also included a link to Google Maps for reference. There are 2 driveways into the park - one is the park entrance and the other is signed for headquarters.

Look forward to seeing you that can make it.

Jen

<http://maps.google.ca/maps?f=q&hl=en&time=&date=&tttype=&q=490+Atkins+Ave,+Langford,+Capital,+British+Columbia+V9B,+Canada&sll=49.891235,-97.15369&sspn=36.085646,79.101563&ie=UTF8&cd=1&geocode=0,48.450587,-123.482461&ll=48.453883,-123.482466&spn=0.009023,0.019312&z=15&om=0>

>>> "Wood,Tom [PYR]" <Tom.Wood@ec.gc.ca> 06/11/2007 11:27:43 AM >>>

Hi all - Jennifer and I thought it a good idea for some of us to get together with CRD's parks planning staff to go over the existing (1999) Island View park management plan, to scope out if it can be updated and expanded as the basis for a Conservation Plan for the whole Spit. I think I also got a soft commitment from Jen that CRD's technical and graphics shops could be available for some tasks of plan implementation. The level of this commitment is something I hope we can clarify.

This would be a good starting point to support Tsawout in applying for project funding for completing the plan, implementing it, all the while developing greater capacity within Tsawout government for ongoing management.

Jen and the planning staff are available at 09:00, Nov 14, at the CRD parks office. I hope you can all make it. Please confirm your attendance. Jen, could you please provide directions.

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

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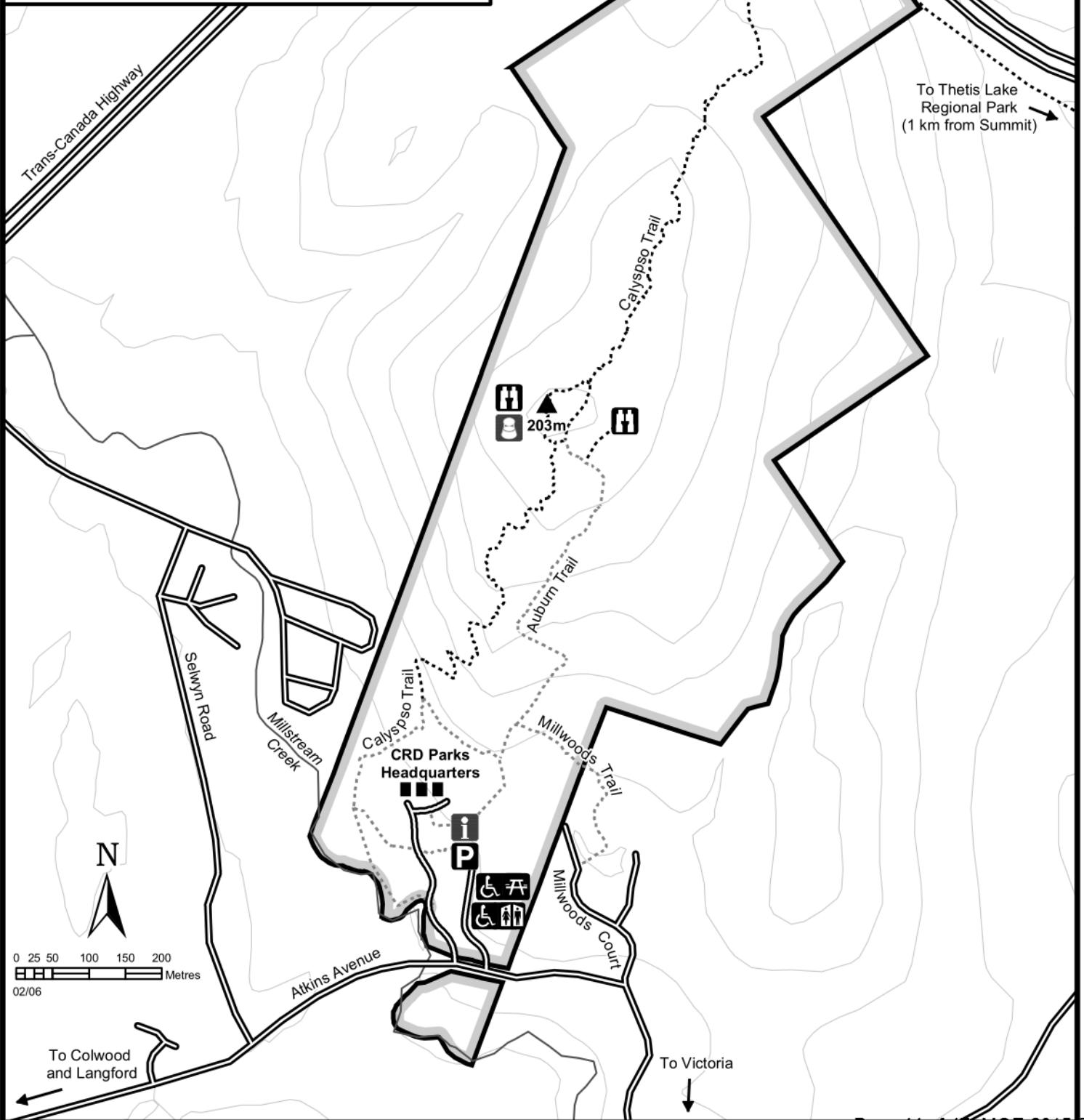
If you receive this message in error, please delete all copies and contact the sender.

Thank you.

Mill Hill Regional Park

LEGEND

- Park Boundary
- Contours (20 metre interval)
- Summit
- Viewpoint
- Hiking Trail - Moderate
- Hiking Trail - Challenging
- Parking
- Accessible Toilets
- Information
- Accessible Picnic Area
- CRD Parks 35th Anniversary Cairn



From: [Wood, Tom \[PYR\]](#)
To: [Cadrin, Carmen ENV:EX](#)
Cc: [Donovan, Marta T ENV:EX](#); [Ford, Shane ENV:EX](#)
Subject: RE: TIXEN
Date: Thursday, July 12, 2007 8:38:01 AM

Hi Carmen - Mapping the dunes and associated wetlands will cover the most fragile areas.

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: Cadrin, Carmen ENV:EX [<mailto:Carmen.Cadrin@gov.bc.ca>]
Sent: Wednesday, July 11, 2007 10:02 AM
To: Wood, Tom [PYR]
Cc: Donovan, Marta T ENV:EX; Ford, Shane ENV:EX
Subject: FW: TIXEN

HI Tom,
A couple of questions on the ToR.

Most of the discussion is about the dune ecosystems and I'm wondering if it would be enough to have just the dune ecosystems mapped out along the coastline, spit and around the bay, or if the Tsawout really need to have the remainder of the forested and townsite area mapped.

So are there any species of cultural significance that they would like to develop mgt plans for in the forested areas?

SO far we have mapped the dunes and old wetland/field areas of the parks and the reserve, but could leave out the remainder if there is no need or interest in them.

Secondly, another MoE Section, Ecosystem Information, are providing much of the ecosystem expertise, not just the CDC so please include them, or leave it at Ministry of Environment.
Thanks Tom

Carmen Cadrin
Program Ecologist
British Columbia Conservation Data Centre Ecosystems Br. Environmental Stewardship Div.
B.C. Ministry of Environment
PO Box 9358 Stn Prov Govt
Victoria BC V8W 9M2

Location/ Courier Address:
Mezzanine - 395 Waterfront Crescent

Victoria, BC V8T 5K7
Ph: 250 387-2730
Fax: 250 387-2733

"It is not the strongest of the species that survive, nor the most intelligent, but the most responsive to change." Charles Darwin (1835)

-----Original Message-----

From: Donovan, Marta T ENV:EX
Sent: Wednesday, July 11, 2007 9:45 AM
To: Cadrin, Carmen ENV:EX
Subject: FW: TIXEN

-----Original Message-----

From: Wood, Tom [PYR] [<mailto:Tom.Wood@ec.gc.ca>]
Sent: Sunday, July 8, 2007 11:30 AM
To: s.22 Samantha Etzel
Cc: s.22
jpsyllakis@crd.bc.ca; s.22 Toby Joseph;
s.22 Ken Cossey; Kirkby, Jan [PYR]; Mark
Jinnouchi; Donovan, Marta T ENV:EX; s.22 Samantha Etzel;
Ford, Shane ENV:EX; Tye Swallow
Subject: RE: TIXEN

Hi all - Following the meeting on Friday, I have drafted some material for your consideration, in preparing to make a report to the new Tsawout Council. I've included the original Terms of Reference for the project. Also a draft report to Council, and some draft wording for a community procher. We can discuss these with Marc and Ken on Monday.

Susan, did you locate a room for our use on Monday?

Cheers - Tom

Tom Wood
Senior Policy Advisor
Canadian Wildlife Service
Pacific and Yukon Region
tel 604-833-9855
e-mail; tom.wood@ec.gc.ca

-----Original Message-----

From: s.22
Sent: Friday, July 06, 2007 7:37 PM
To: Samantha Etzel
Cc: s.22 s.22 Wood, Tom [PYR];
s.22 jpsyllakis@crd.bc.ca; s.22 ; Toby
Joseph; s.22
Subject: Re: TIXEN

Thanks very much Sam!
I will add this set of emails to the larger one from the bigger committee and send something around in the next day or so.

I do have the Sencot'en alphabet, but pushed it off onto one of my external drives, because it does take up quite a bit of space.

I got mine through John Elliot, but I am sure Tye has access to it as well.

Susan AB