



Central Sector LWMP Amendment

Public Consultation Summary Report

SEPTEMBER 2015 – VERSION 2



Cowichan Valley Regional District
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Presented by:



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1. Executive Summary

1.1 PROJECT OVERVIEW

The Cowichan Valley Regional District (CVRD) is proposing an amendment to the Central Sector Liquid Waste Management Plan (CSLWMP) that may involve moving the existing Joint Utilities Board (JUB) treated wastewater effluent outfall from the Cowichan River to a new location.

Public consultation on the proposed move took place between January 15 and June 15, 2015, as the technical work on the amendment was simultaneously progressing. The technical work involved assessment of a selection of short-listed options and the development of a Stage 1 Environmental Impact Study. The technical work was completed by contracted consulting firm Great Pacific Engineering Ltd. of Victoria. Project communications and consultation was guided by communications firm ZINC Strategies, working closely with the CVRD project team and on sub-contract with Great Pacific.

The approach and tactics for public consultation during this period were based on first informing the community of the basics of wastewater management, the existing LWMP, and the need for change and then engaging them to collect feedback on the outfall options, routing and estimated costs for the project.

This Central Sector Liquid Waste Management Plan Public Consultation Report summarizes the consultation activities that took place and the feedback received between January 15 and June 15, 2015.

1.2 CSLWMP AMENDMENT PUBLIC CONSULTATION: JANUARY – JUNE 2015

The goals of communications and public consultation during this period were to:

1. Provide a clear overview of the project opportunity.
2. Inform the community about current wastewater treatment and management services.
3. Inform the public and stakeholder groups on the proposed relocation of the outfall and related topics including estimated costs and the routing of pipes.
4. Collect feedback from stakeholders, community groups, and the public on the proposed relocation of the outfall, routing of pipes, costs and related topics to help to inform the draft CSLWMP amendment.

The audiences and/or groups that were included and addressed included:

- Project Partners: CVRD, Cowichan Tribes, City of Duncan, Municipality of North Cowichan
- Stakeholder & Community Groups: Environmental, aquaculture/fisheries, residential associations, business, recreational
- Public: Service area residents, Salt Spring Island residents, general public, media

1.3 CONSULTATION PARTICIPATION – BY THE NUMBERS

During the consultation period from January to June 15, 2015:

- 70 people attended infosessions about the project
- 19 emails/phone calls were fielded by CVRD staff about the project
- 19 comment sheets were filled out and submitted by the public
- 12 presentations/updates were made at stakeholder group meetings
- 12 ads ran in newspapers and newsletters informing and inviting the public to engage
- 15 comment forms were submitted about the proposed amendment
- 6 public information poster display locations
- 4 news articles ran in local newspapers, providing updates on the project progress

1.4 THEMES THAT EMERGED DURING CONSULTATION

Coordinating consultation with the community to be in step with the progress of the technical review process resulted in very little ‘yes/no’ responses, but instead created a collaborative feedback circle which generated lots of questions that guided investigation work. This regular engagement allowed stakeholders to participate as the CVRD staff developed the recommended solution, resulting in understanding of the outcome of the process, confidence in the need for the work and a feeling that their insight has been recognized in the planning.

The themes that emerged during this process are as follows:

1. Questions about how the marine environment will be protected

- Ensuring that the marine environment would be protected if an outfall was moved to an ocean location was a key theme of the feedback. This included questions about water quality sampling, the requirements regarding shellfish bed buffer zones and questions about plume modelling as part of the next stage of environmental review.
- While there were questions about how the protection would occur, there was very little opposition to the Satellite Channel option, which is the preferred scenario being considered.

2. Interest in assessment of options for location and treatment

- Understanding what other options had been reviewed and the logistical or operational challenges associated with them was a focus of many consultation conversations.
- Of particular interest were a partnership with Catalyst Paper – Crofton Division (one of the early options under consideration), and the idea of treating to ‘drinking water standards’. (Review of financial and organizational barriers to these ideas satisfied these questions.)

3. Desire to learn more about construction plans and logistics for routing

- Among those who were satisfied a marine outfall is a viable option there was an interest in learning more about the next steps, such as logistics of what it would take to construct a new outfall, such as timing, cost, engineering solutions, exact routing and how monitoring would take place.

2. Introduction

2.1 PROJECT OVERVIEW

The Cowichan Valley Regional District (CVRD), along with partners the Municipality of North Cowichan, City of Duncan and the Cowichan Tribes, is proposing an amendment to the Central Sector Liquid Waste Management Plan (CSLWMP) to move the existing Joint Utilities Board (JUB) treated wastewater effluent outfall from the Cowichan River to a new location.

There are several reasons why a change to the outfall location is being considered including low water flows in the Cowichan River that threaten the ability to meet provincial dilution requirements, the risk to outfall infrastructure in its current river location, and a lease commitment made to the Cowichan Tribes to move the outfall by 2021.

Technical work on the CSLWMP amendment was undertaken by Great Pacific Engineering, under the leadership of the CVRD. To assist in meeting public consultation goals for the amendment process, ZINC Strategies was contracted by Great Pacific to support the CVRD in making sure the community was clearly informed and invited to engage in consultation.

2.2 TIMELINE + HISTORY

The public consultation process officially began in 2015 when the technical review process of the proposed amendment launched in January.

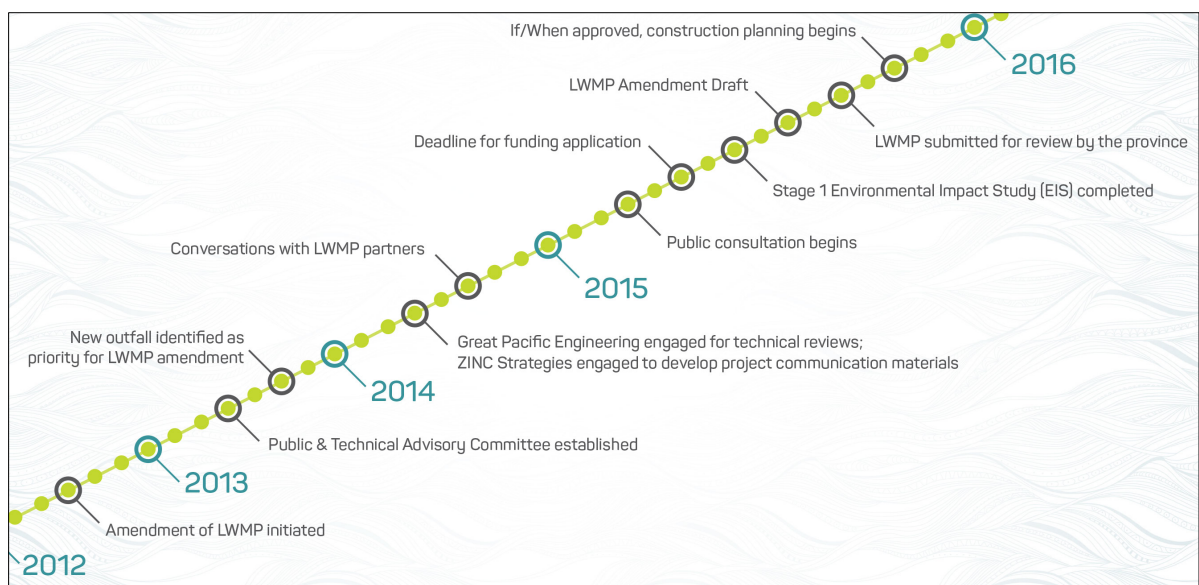


Table 1: Excerpt from “Timeline for LWMP Amendment” Infoboard. See Appendix.

The timeline above was created and used extensively during consultation to demonstrate the intensive process required before an amendment can be drafted and submitted for consideration. The full image (see Appendix) showed that work on the amendment started much earlier, with technical reviews beginning in 2000.

2.3 PUBLIC CONSULTATION: PURPOSE + PROCESS

Public consultation was designed to achieve an understanding of the project and to satisfy the expectations of the province around the required level of consultation for LWMPs. These two goals guided all activities.

The project team designed a flexible, adaptable six-month consultation process that moved from providing full background information about the project to consulting with stakeholder and community groups about the progress of technical work, and expanded to reach the general public.

While the broad community was invited to participate in the consultation process, the first groups that were focused on for engagement were stakeholder and community groups that were local, and that had a stated or obvious interest in the river and marine environments under consideration.

The consultation with stakeholder and community groups was designed to:

- Present information about the project, including highly technical information
- Provide access for groups to discuss the technical approach with staff and engineering consultants who had completed it
- Provide opportunities for input and information exchange
- Expand as needed to address public issues and questions raised during the first half of the consultation program

As the consultation expanded to more actively reach out to and involve members of the general public (including service area residents and other community members), the consultation was expanded to specifically address and get feedback on questions around costs to ratepayers.

While multiple communications tools (outlined below) were used to inform and reach stakeholders and the public, the main consultation events focused on a series of three project Infosessions held in March, April, and June. This report summarizes feedback received during each of these infosessions, as well as information and feedback gathered with other communications tools between January 2015 – June 15, 2015.

2.4 FIRST NATIONS CONSULTATION

Consultation with First Nations was a focus of work for the CVRD staff, and was undertaken as a parallel process, separate from public consultation outlined in this report. A full summary of First Nations consultation, drafted by CVRD staff, is also attached as part of the LWMP amendment documentation.

2.5 CONSULTATION TOPICS

During this consultation period, the CVRD project team shared information and sought stakeholder and public feedback on the following project areas and topics:

1. Potential Options for Relocating the Treated Discharge

Outlining the six short-listed potential locations and the rationale for selecting (or ruling out) specific options based on criteria that made them either feasible or not feasible.

2. Suitable Marine Outfall Locations

Sharing the “mapping constraints” process involved in mapping the potential marine outfall locations within Satellite Channel and gathering feedback about marine environment concerns and limitations.

3. Routing of the Outfall Pipe

Presenting early suggestions for possible pipe routes to inform the community of possible impacts at construction and provide further context to the marine outfall option proposed.

4. Costs to Property Owners

Outlining the costs involved in construction of a new outfall to Satellite Channel, how early estimates are developed including level of accuracy, how the cost will be divided between project partners, and what the potential cost to ratepayers may be based on Class D estimates.

3. Consultation Methods + Tools

Consultation involved first preparing communication materials about the project so that all audiences could understand the proposed amendment and take part in consultation in an informed manner. The consultation process then moved to a proactive engagement including both focused sessions for interested stakeholders and broad outreach to the community.

3.1 STAKEHOLDER AND COMMUNITY GROUPS

A wide range of stakeholder and community representatives were invited to take part and share their views. Outreach to and consultation with stakeholder and community groups was focused on those that were (1) local within the CVRD boundaries and (2) had a stated, demonstrated or obvious interest in the Cowichan River or in the potential marine outfall location area.

While infosessions and shared public information were open to all, the following groups were personally invited to share views and take part in planned group infosessions. In most cases, representatives from each group were contacted by email and phone and invited to attend:

Community & Interest Groups

- Arbutus Ridge Strata Council
- BC Wildlife Federation
- Cherry Point Marina
- Cowichan Estuary Restoration and Conservation Assoc.
- Cowichan Kayak and Canoe Club
- Cowichan Lake & River Stewardship Society
- Cowichan Land Trust
- Cowichan Valley Naturalists' Society
- Dragonboat Clubs
- Fishermen's Wharf Assoc.
- Friends of Ecological Reserves
- Oceanfront Ratepayer's Community Assoc.
- One Cowichan
- Saanich Inlet Protection Society
- SeaChange Marine Conservation Society
- Sidney Anglers
- T. Buck Suzuki Foundation

Aquaculture/Fisheries

- Area H Commercial Crab Fishermen
- Local fisherman and seafood retail business owners (Cowichan Bay)
- Pacific Prawn Fisherman's Assoc.
- Underwater Harvesters' Assoc.

Landowners/Industry/Business

- Catalyst Paper
- Downtown Duncan Business Improvement Association
- Duncan Chamber of Commerce
- Western Stevedoring

Government Organizations

- Jean Crowder, MP
- Bill Routley, MLA
- BC Parks
- CEEMP - Cowichan Estuary Environmental Management Committee
- City of Duncan Council
- CVRD - LWMP - Steering Committee
- CVRD - LWMP Committee - Public and Technical Committee
- CVRD Electoral Area Directors, for Areas D, E
- CVRD Environment Commission
- Department of Fisheries and Oceans
- District of North Cowichan Council
- Island Health
- Salt Spring Island Local Trust Area

3.2 COMMUNICATION AND CONSULTATION TOOLS

A wide range of tools were used to connect and engage with the community while also collecting their feedback. Below are the methods used.

- **Dedicated Website Project Page:** Included copy of existing LWMP, overview of proposed change, links to info sheets, latest updates and contact information: www.cvrld.ca/lwmp
- **Information Factsheets:** This included a Project Overview, Timeline and Glossary, and provided a primer on the proposed project for people seeking basic information.
- **Consultation Boards and Maps:** Information boards were developed to help inform the discussions at open houses, provide updated information from the last info sessions and show progress of work.
- **Lobby Displays:** Specialty displays were created for installation in high-traffic public locations such as the community pool and main library along with the municipal hall and Cowichan Tribes' lobbies. These displays were intended to offer an overview and draw the attention of people in the places they are already visiting.
- **Presentations:** Regular presentations and updates were offered and provided to community organizations, First Nations, and local governments. Presentations to Councils were broadcast live online via the internet.
- **News Releases:** Monthly releases were provided to local and regional media to keep them informed of the project's progress, resulting in coverage in local and provincial newspapers that assisted in informing the community and the region.

- **Monthly Project Updates:** Three newsletters were created and circulated widely to brief the public and stakeholders on project progress and provide updates on developing technical work.
- **Infosessions:** Three sessions were organized to engage stakeholders and the public during the development of the amendment. These included presentations and discussion circles led by team members, recorded feedback and time for questions and comment forms.

3.3 NOTIFYING STAKEHOLDERS AND THE PUBLIC

Notices about the public consultation process were broadly posted. Options to learn more and participate were made clear using the following communications tools:

- Direct invitations were sent to people representing groups through the area. Phone calls and follow-up emails were also completed to ensure they knew about the project and events. New names were added to invitation lists as others became interested. Stakeholder groups shared notices via their listservs, extending reach to over 1,000 people.
- A monthly project update was produced to brief the community on work-to-date and was posted to the website as well as mailed out to the email list developed for the project.
- Newspapers ads were placed in the local newspaper (Cowichan Valley Citizen) six times. Ads ran twice in the monthly Cowichan Tribes newsletter. Saltspring Island residents were notified in 3 ads placed in The Driftwood newspaper.
- Poster-style boards were positioned in community centres (library and public pool) as well as office lobbies of each partner each month, in advance of infosessions
- Three news releases were written and issued to local media in advance of the infosession. Each of these ran in the paper. Local radio also picked up notices of upcoming consultation.
- Details about public consultation opportunities, including the infosession schedule were posted on the CVRD website at www.cvrld.ca/lwmp

3.4 STAKEHOLDER AND PUBLIC INFOSESSIONS

Three infosessions were organized to engage stakeholders and the public throughout the development of the amendment. Each of the three events shared a similar format: presentations and discussion filled 1 hour of the two-hour session, followed by a refreshment break and an informal discussion period where participants connected one-on-one or in small groups with project team members to ask specific questions or share their concerns.

Informational boards were displayed at each event, based on the content being discussed that event. Presentations at each event were made by Emily Doyle-Yamaguchi, Environmental Analyst for the CVRD and Jason Clarke from Great Pacific Engineering. CVRD and Municipality of North Cowichan staff, plus ZINC and Great Pacific consultants were on hand to answer questions and collect feedback.

Infosession #1 – March 25, 2015, Somenos Room, Island Savings Centre, Duncan

On March 25, 2015, the CVRD hosted the first of a series of infosessions about the proposed CSLWMP amendment. The event was intended to inform community groups and stakeholders

of the proposed amendment, provide background on the need for the project and the opportunity available at this time, and update those attending on technical work to date.

- Participation: 25 people attended
- Specific Themes/Questions:
 - What other options have been considered?
 - Possible move of commercial vessel anchorage and ability to extend discharge to abayment line
 - How much investigation into options related to Catalyst Paper - Crofton
 - How will this impact the marine environment?
 - Questions about effluent dispersement and influence of currents/tides
 - How pipe will be laid and possible impact on marine life
 - Is current treatment sufficient to protect outfall environment?
 - What is monitored and how often, and how often reported.
 - Understanding dilution and opportunity it poses

Infosession #2 – April 28, 2015, Somenos Room, Island Savings Centre, Duncan

On April 28, 2015, the CVRD hosted the second of a series of infosessions about the proposed CSLWMP amendment. The event was intended to build on the information provided in the first infosession, answer questions raised by participants during the first meeting and provide an update on the technical investigations undertaken through April.

- Participation: 13 people attended
- Specific Themes/Questions:
 - Further discussion about potential wastewater treatment service through Catalyst Paper - Crofton
 - Questions about the different treatment level requirements for mill now and for JUB effluent
 - Discussion about use of onsite system and challenges to adding JUB effluent
 - Questions/Comments about new info re: moving outfall to abayment line
 - Discussion about the value of the abayment line and what it actually means
 - Questions about whether there is benefit to moving closer to the line
 - Interest in details of/ options for routing of new wastewater pipe
 - Concerns about Tzouhalem Road – narrow, foot traffic, dark
 - Questions about shoreline route and whether it would be allowed
 - Interest in ideas that see less roadway use and that introduced pipe to ocean closer to the treatment plant

Infosession #3 – June 2, 2015, Mesachie Room, Island Savings Centre, Duncan

On June 2, 2015, the CVRD hosted the third infosession about the proposed CSLWMP amendment. The event was intended to build on the information provided in the first and second infosessions, provide an update on the progress of the process to date, and present and collect feedback on estimated costs for the work. This event targeted specifically members of the public.

- Participation: 32 people attended
- Specific Themes/Questions:
 - Questions/discussions about the rationale for the project
 - What about the future of the lagoons and will they need to be replaced.
 - Requests for details about rationale for moving from the river (level of damage to the infrastructure, impact on the river environment).
 - Discussion about protecting the environment
 - Concern about shellfish and aquatic animals in marine environment.
 - Interest in further modelling of the proposed location to confirm plans.
 - Interest in other options to be considered: why not send to aquifer?
 - Questions about alternative treatment options such as 'drinking water quality' treatment and marshland phytoremediation.

4. Consultation Participation, Findings and Results

4.1 CONSULTATION PARTICIPATION

By identifying and targeting critical stakeholder groups while maintaining an open invitation to the broader community, the project team was able to deliver an inclusive consultation process.

Outreach and consultation with stakeholder and community groups was focused on those that were (1) local within the CVRD boundaries and (2) had a stated, demonstrated or obvious interest in the Cowichan River or in the potential marine outfall location area. The general public was encouraged to participate and were notified of opportunities to do so via advertisements, news articles, newsletters and more.

Because groups with a specific interest were targeted for outreach, engagement on that side was strong and consistent, with a core group attending multiple infosessions and sharing comments that assisted in moving forward the technical development of the application. By hosting three infosessions in a row, the team was also able to create “momentum” and interest for members of the public, which resulted in engaging a core group of community members over time, rather than just for one event.

Of the 25 stakeholder groups briefed on the project and invited to participate, 11 expressed interest and sent representative(s) to infosessions. Through the Public and Technical Advisory Committee another five stakeholder agencies were engaged. Through participants networks, hundreds of people were kept informed, including mailings lists of the Pacific Prawn Fisherman’s Association, Downtown Duncan Business Improvement Association and the Cowichan Watershed Board. Through public notices, an identified 40 members of the wider community engaged with the process either through requests for information or by attending an infosession.

By keeping everyone informed of progress during the six-month planning period, the CVRD was able to address questions early and tailor the final infosession to address new concerns. This resulted in the project team being confident that the community understood the outfall locations being considered and the rationale for the preferred option of a marine outfall within Satellite Channel.

4.2 KEY THEMES FROM FEEDBACK

Feedback on the four main consultation topics was collected using the various tools as outlined in the report, and specifically at infosessions, during discussion circles hosted by staff after presentations. General themes heard during this process were as follows:

Potential Options for Relocation the Outfall

- Discussion/Questions about opportunities of partnering with Catalyst Paper - Crofton: As more information became available and was shared at infosessions, it was understood that this option is not feasible.

- Interest in the level of treatment of effluent: Discussions were held looking at whether higher treatment levels would offer alternate discharge options to outfalls. By explaining further the continued challenges/risks of identifying locations as well as the significant cost of higher treatment (when effluent now is exceeding current standards), these comments were addressed.

Suitable Marine Outfall Locations

- Importance of understanding the flows from Satellite Channel into the estuary and how effluent would move: Preliminary information addressed many of the questions, and generally groups supported moving the project forward, understanding that further modeling would be required to ensure the estuary was protected before construction could proceed.
- High level of interest in constraints mapping: Those involved had extensive discussions about a map that identified the areas not-accessible to the CVRD in the marine environment. By outlining clearly the responsible approach taken to eliminate sensitive or high risk areas, the community understood the options that were presented, and could see the engineering constraints of the remaining areas available.

Routing the Outfall Piping

- Concerns about Tzouhalem Road: The narrow roadway that is high in vehicle and pedestrian traffic was identified as a concern, particularly during construction. The CVRD outlined that infrastructure installation along the route may also enable upgrades on the roadway.
- Requests for minimal disruption of the foreshore: Environmental groups and resident representatives both indicated increased support for routing options that minimized the length of pipe along the foreshore and disruptions to business in Cowichan Bay village.

Costs to Property Owners

- Very little concern about the estimated costs to property owners: The CVRD proactively shared project estimates, outlined the limits to early estimates and provided anticipated cost increases for residents via multiple channels.
- A specific infosession (June) was held with the intention of clarifying costs for residents. It drew more than 30 members of the public however there were no concerns raised verbally, via email/phone (or other available channels) about the rate increases this work would result in for service area residents. Attendees were actively encouraged to complete comment forms on this topic, however the level of concern about costs was mild: as the event came to a close only one written submission raised a cost question on whether the preferred option was the best use of the estimated funds.

4.3 HOW INFORMATION WAS GATHERED AND USED

There were multiple channels for residents and stakeholders to provide comments on the proposed amendment. A staff member was designated as the primary contact and a direct phone number and email (cslwmp@cprd.bc.ca) was included on all materials. Newsletters included contact information. Comment forms were available at all infosessions, with time designated to fill them in and return to organizers.

All comments – received by form, email, phone or verbally were recorded in a shared comment log accessible to the project team. Questions and comments made during presentations to outside groups were recorded and shared with organizers.

The majority of comments and questions voiced on an interest in receiving additional information about specific elements of the project (rather than voicing strong opinions about the project approach, for example). Gathering and gauging this “appetite” for information helped guide the project team as planning moved forward, in terms of knowing what questions to address and topics to cover in subsequent presentations and updates.

Below are examples of how comments from the community lead to further investigation by the project’s technical team:

- Stakeholders at an infosession questioned whether it would be better to move the proposed outfall location closer to the abayment line. After considering this question and reviewing the limitations involved, the project team was able to come back in the next infosession and provide more information about water flows and expected plume behaviour, thus addressing the comments by those attending.
- The possibility of linking into a wastewater outfall at Catalyst Paper – Crofton was identified by participants as an option of interest. Project staff and consultants did additional analysis of the facility at Catalyst and looked at the influence of the proposed additional inflow, while also assessing regulatory implications and meeting with Catalyst. At the next infosession, the project team was able to provide additional information such as the fact that the facility would not operate adequately and the required regulatory changes needed by Catalyst would make it unlikely to proceed.
- Localized knowledge about foreshore and marine conditions, such as eel grass beds and the location of ocean bottom features, were shared with the engineering consultants. This information is now recorded by the engineering consultants and can be incorporated in next step routing plans for an approved outfall pipe.
- Elected officials and community members that have been involved in reviewing the number and use of large container ship parking anchorage areas in Cowichan Bay were able to share new information on the status of current anchorages during infosessions, and also at Steering Committee meetings. As a result, the engineering team incorporated this information and contacted Transport Canada to ensure that new information can be factored into the outfall route planning.

4.4 NEXT STEPS IN THE PUBLIC CONSULTATION PROCESS

The information, viewpoints, questions and suggestions shared by individuals and groups during this consultation process represent a valuable resource and asset for the CVRD and its project partners. The CVRD project team will be incorporating these into the draft CSLWMP amendment, for consideration when submitted to the province later this year.

Participants who shared their input during this process—whether they are stakeholders, representing a community group, or members of the public—will be thanked for their input and able to follow the progress of the project by visiting the CSLWMP project page online at www.cvr.ca/lwmp.

Appendices 1-9

APPENDIX 1 – CONSULTATION DISPLAY BOARDS (INFOSESSIONS AND POSTERS)

- Timeline
- Constraints Map
- Outfall Options (First and final iterations)
- Plan Area Map
- Costs Table

APPENDIX 2 – PROJECT UPDATE NEWSLETTERS

- March Issue
- April Issue
- May Issue

APPENDIX 3 – INFOSHEETS

- Costs FAQ
- Glossary of Terms
- Project Overview

APPENDIX 4 – NEWSPAPER ADS

APPENDIX 5 – NEWS RELEASES

- March 18, 2015
- April 28, 2015
- May 21, 2015

APPENDIX 6 – NEWS ARTICLES

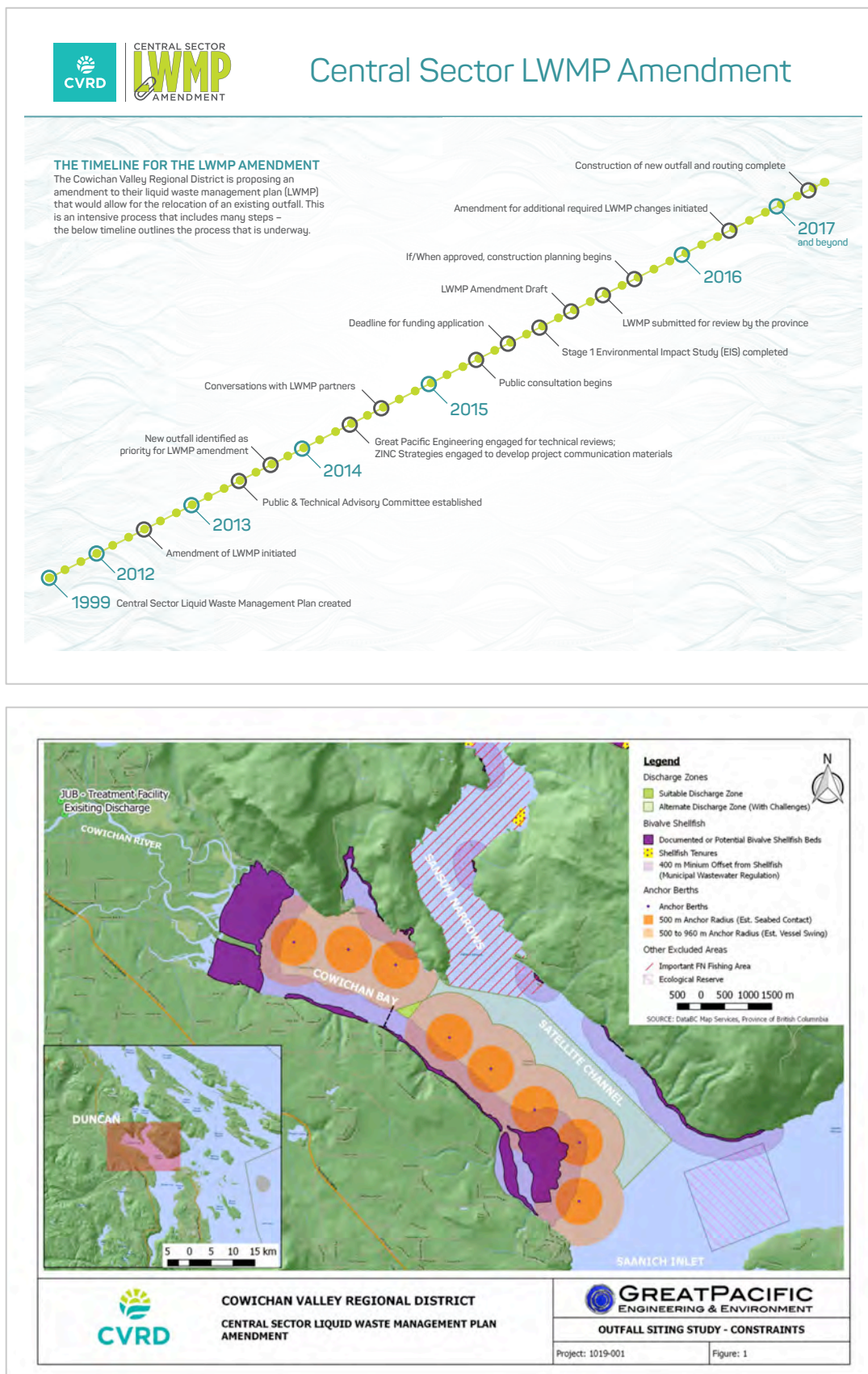
APPENDIX 7 – PROJECT WEBPAGE

APPENDIX 8 – EVENT SUMMARIES

- Infosession 1 – March 25, 2015
- Infosession 2 – April 28, 2015
- Infosession 3 – June 2, 2015

APPENDIX 9 – PUBLIC CONSULTATION LOG

APPENDIX 1: CONSULTATION DISPLAY BOARDS (INFOSESSIONS AND POSTERS)





Disposal Options Under Consideration

Due to changing climate, reduced summer river flows and a lease agreement commitment to Cowichan Tribes to move the outfall, the Cowichan Valley Regional District (CVRD) is proposing to move the existing JUB treated effluent discharge location from the Cowichan River. Research into possible options has been undertaken for a number of years. Below is a summary of options considered to date.

| | OPTION 1 | OPTION 2 | OPTION 3 | OPTION 4 | OPTION 5 | OPTION 6 |
|-------------|---|--|---|--|---|--|
| | Route to Catalyst Paper Crofton, for reuse | Route to Catalyst Paper Crofton, for treatment and discharge | Disposal to ground | Reuse as irrigation | Disposal to other surface waters | Marine outfall (Satellite Channel) |
| IDEA | Pipe treated wastewater to mill for reuse in paper production. | Pipe wastewater to onsite treatment system at existing Catalyst Paper Crofton (mill), accessing the existing treatment and approved outfall. | Release treated effluent to ground disposal fields for natural absorption. | Treat wastewater to the extent that it could be used as irrigation for public lands. | Use Quamichan Lake or Somenos Lake as possible receiving waters for treated effluent. | Use marine environment as receiving waters. Of marine options previously reviewed, the Satellite Channel option offers the best opportunity for ocean outfall. |
| ADVANTAGES | Offers opportunity for reuse of resource. | Existing infrastructure and outfall would reduce the capital costs and the process for approval of new locations. | Offers a non-marine discharge option that would include natural filtration as part of the treatment process. | Offers reuse of resource. | Offers a non-marine discharge option in closer proximity to JUB with lower routing costs. | Province indicated support for idea in 1990s. Best option for high dilution to minimize risk to environment and humans. Most cost effective. |
| CHALLENGES | Requires a very high level of treatment. Water supply from wastewater does not significantly offset need by mill (around 3 per cent). | Logistics and risk of relying on outside provider. Possible environmental and/or technical constraints. | No location within reasonable distance with sufficient buffer from drinking water wells. Local hatchery tried and was unable to make this option succeed. | Requires very high level of treatment. Extensive storage would be required during wet weather periods. | Both lakes are sensitive to nutrient enrichment and potential algae growth, making the addition of an outfall unacceptable to the lake environment. | Identifying an acceptable location that protects shellfish beds, traditional fishing areas and other existing uses/interests. |
| SUITABILITY | | | | | | |
| NEXT STEP | No further review considered. | This option is being considered further, including undertaking preliminary discussions with Catalyst about whether opportunity may exist. | No further review considered. | No further review considered. | No further review considered. | Continue with review and investigation, including public consultation via the central sector LWMP process. |



Disposal Options Under Consideration

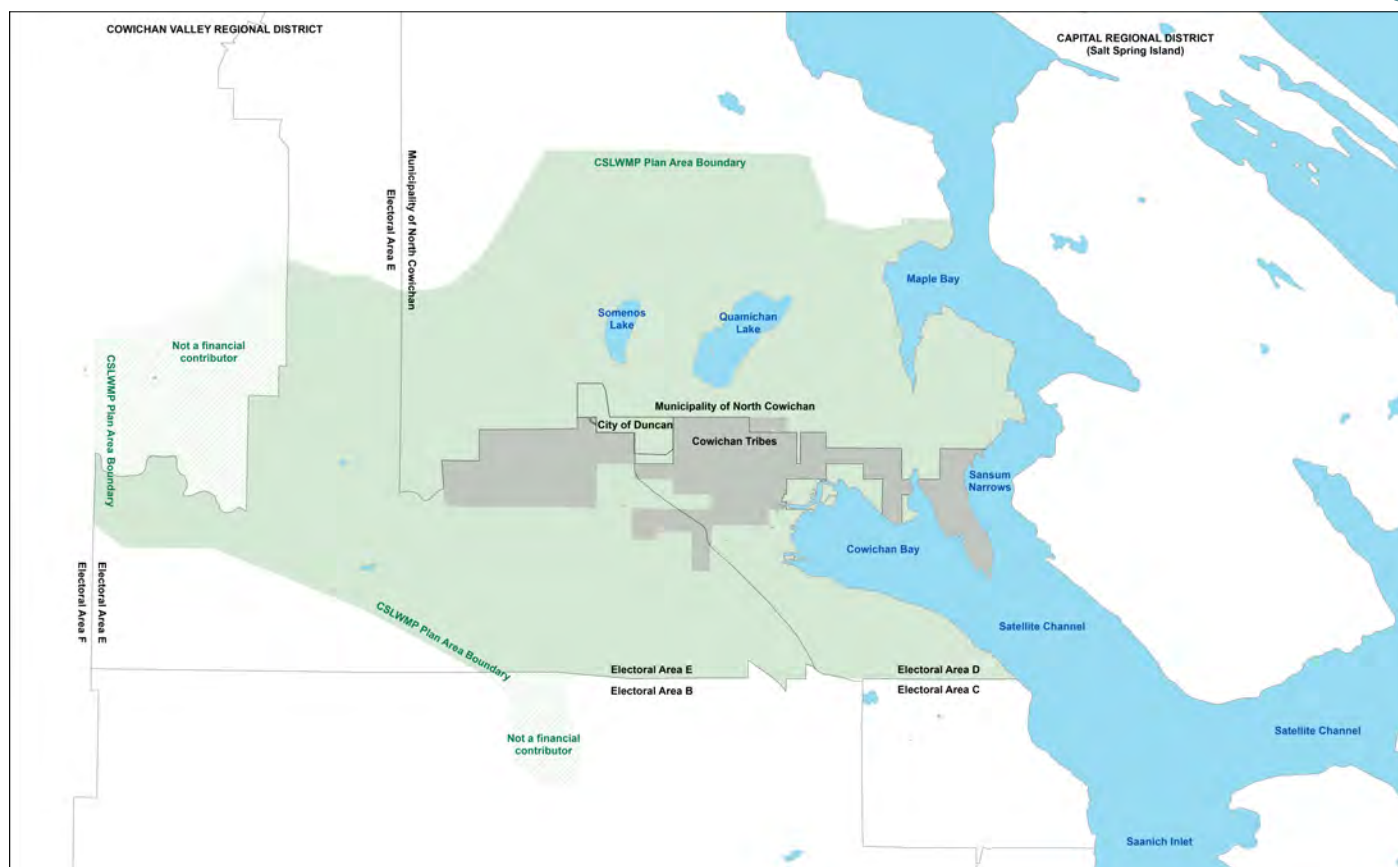
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| | Route to Catalyst Paper Crofton, for reuse | Route to Catalyst Paper Crofton, for treatment and discharge | Disposal to ground | Reuse as irrigation | Disposal to other surface waters | Marine outfall (Satellite Channel) |
| IDEA | Pipe treated wastewater to mill for reuse in paper production. | Pipe wastewater to onsite treatment system at existing Catalyst Paper Crofton (mill), accessing the existing treatment and approved outfall. | Release treated effluent to ground disposal fields for natural absorption. | Treat wastewater to the extent that it could be used as irrigation for public lands. | Use Quamichan Lake or Somenos Lake as possible receiving waters for treated effluent. | Use marine environment as receiving waters. Of marine options previously reviewed, the Satellite Channel option offers the best opportunity for ocean outfall. |
| ADVANTAGES | Offers opportunity for reuse of resource. | Existing infrastructure and outfall would reduce the capital costs and the process for approval of new locations. | Offers a non-marine discharge option that would include natural filtration as part of the treatment process. | Offers reuse of resource. | Offers a non-marine discharge option in closer proximity to JUB with lower routing costs. | Province indicated support for idea in 1990s. Best option for high dilution to minimize risk to environment and humans. Most cost effective. |
| CHALLENGES | Requires a very high level of treatment. Water supply from wastewater does not significantly offset need by mill (around 3 per cent). | Risk of relying on outside provider. Existing treatment plant would not operate properly if only domestic wastewater were treated. Major amendment to discharge permit is also required. | No location within reasonable distance with sufficient buffer from drinking water wells. Local hatchery tried and was unable to make this option succeed. | Requires very high level of treatment. Extensive storage would be required during wet weather periods. | Both lakes are sensitive to nutrient enrichment and potential algae growth, making the addition of an outfall unacceptable to the lake environment. | Identifying an acceptable location that protects shellfish beds, traditional fishing areas and other existing uses/interests. |
| SUITABILITY | | | | | | |
| NEXT STEP | No further review considered. | No further review considered. | No further review considered. | No further review considered. | No further review considered. | Continue with review and investigation, including public consultation via the central sector LWMP process. |



CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN

Plan Area Boundary





CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN

Estimated Costs and Service Fee Increases

The Cowichan Valley Regional District (CVRD) is currently pursuing an amendment to the Central Sector Liquid Waste Management Plan (LWMP) to move the existing outfall from the Cowichan River to a new location.

The CVRD, in partnership with Cowichan Tribes, Municipality of North Cowichan and City of Duncan, has undertaken significant engineering and environmental review of new location options, and consulted with stakeholders, community groups and the public. Through this work Satellite Channel has been identified as the feasible and sustainable option for relocating the outfall to discharge the treated effluent.

An amendment will be drafted in June 2015 and submitted to the Ministry of Environment for review. As part of this submission, the CVRD must demonstrate its consultation with the community. If the ministry approves of consultation efforts and the amendment, the project will proceed.

QUESTIONS AND ANSWERS

? HOW MUCH WILL THE PROJECT COST TO CONSTRUCT?

The project will involve installing a new pipe from the existing treatment facility to the new outfall to better serve approximately 12,200 homes. Preliminary estimates for the cost of the project is \$26.5 million*. The cost will be divided among project partners based on usage rates. This means that property owners in each partner area will pay their fair share of the total amount based on the amount of flow their area contributes. This estimate is based on preliminary information and will be further confirmed before construction work begins.

? WHAT DOES THAT MEAN TO ME AS A RATEPAYER?

Funds for the project will be borrowed and will need to be repaid. For ratepayers in sewer service areas covered by the plan it will mean an increase in their annual wastewater service bill or property tax. Depending on where your home is, the cost increase is expected to be between \$29-\$125/year*. Residents and homeowners now pay between \$278-\$491/year. The project, if approved, is estimated to be completed in 2018. More details about timing for rate increases will be determined as project planning continues.

? HOW IS THE CVRD WORKING TO REDUCE THE COST?

The CVRD is actively seeking grant funding from the federal government to offset the proposed cost of the project. Two applications have been submitted which could reduce project costs by 50%. An award of grant funding would substantially reduce fee increases to between \$10-\$62/year. However there are no guarantees those funds will be received. The project team continues to seek other cost reduction options.

ESTIMATED ANNUAL SERVICE FEE INCREASES BY AREA


| | DUNCAN | NORTH COWICHAN | CVRD – EAGLE HEIGHTS | CVRD – COWICHAN BAY |
|--|--------|----------------|----------------------|---------------------|
| Estimated increase to annual service fee if project is approved * | \$125 | \$29 | \$104 | \$115 |
| Estimated increase to annual service fee if project is approved and 50% grant funding is received* | \$62 | \$10 | \$52 | \$57 |

*Project cost estimates are currently Class D, +/- 50 % accuracy. Estimates are based on borrowing through the Municipal Finance Authority at 6.6% interest over 20 years.

To learn more about the proposed Central Sector Liquid Waste Management Plan: visit www.cvr.bc.ca/lwmp, phone 250-746-2530, or email cslwmp@cvrd.bc.ca

Visit www.cvr.bc.ca/lwmp

APPENDIX 2 – PROJECT UPDATE NEWSLETTERS



MARCH 2015 ISSUE 1

Project Update

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN



OPTIONS UNDER REVIEW FOR MOVING TREATED EFFLUENT OUTFALL FROM COWICHAN RIVER

The process of amending the current Central Sector Liquid Waste Management Plan (CSLWMP) to allow for relocating an existing treated effluent outfall from the Cowichan River has been launched by the Cowichan Valley Regional District (CVRD) with partners: the City of Duncan, Municipality of North Cowichan and Cowichan Tribes.

An amendment to the CSLWMP is required in part due to reduced summer water flows in the Cowichan River, the changing course of the river in the area of the existing outfall, and a commitment made to Cowichan Tribes as part of a lease agreement to remove the outfall from the river.

"It is critical that the CVRD and its partners start the process of moving this outfall," said CVRD Board Chair Jon Lefebvre. "Funding opportunities are available this year that make this project a priority. There are still many steps to take in the coming months before any proposed change take place."

Developed in 1999, the original CSLWMP outlines community-supported strategies for managing wastewater in Duncan, North Cowichan, Electoral Area D – Cowichan Bay, Electoral Area E – Cowichan Station/Sahtlam/Glenora, and part of Cowichan Tribes land. A recommendation to relocate the outfall (which transports treated wastewater effluent from the Joint Utilities Board sewage treatment plant to the river) is included in the plan. In 1999, when the CSLWMP was developed, technical studies recommended evaluating Satellite Channel as a potential outfall location. Since then, the CSLWMP Public and Technical Advisory Committee, which includes members of the public, has supported pursuing further study of this and other options. In January 2015, Great Pacific Engineering and Environment Ltd. were hired by the CVRD to undertake technical studies to assess potential outfall locations.

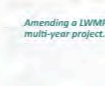
A project info page has been set up at www.cvr.bc.ca/lwmp. Starting in late March, the CVRD will host a series of stakeholder info sessions, place displays at community and recreation centres, and provide online project updates. To receive updates by e-mail, please contact cslwmp@cvrd.bc.ca.

www.cvr.bc.ca/lwmp

WHAT IS THE CENTRAL SECTOR LWMP?

A liquid waste management plan (LWMP) is a guidance document that outlines solutions for managing wastewater (ie: sewage). LWMPs are developed through extensive public consultation processes led by a local government and are tailored to meet the specific needs of the community. The Cowichan Valley Regional District's (CVRD) Central Sector LWMP was developed in 1999, to serve the City of Duncan, Municipality of North Cowichan, Electoral Areas 'D' and 'E', and part of Cowichan Tribes land. The existing sewage infrastructure collects wastewater from these areas and treats it via a secondary treatment plant, the Joint Utilities Board Sewage Treatment Plant, which discharges into the River.


[Learn more wastewater at: www.cvr.bc.ca](http://www.cvr.bc.ca)



MARCH 2015 ISSUE 1

Project Update

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN



IMPROVING OPERATIONS AND PROTECTION OF THE ENVIRONMENT. WHY CHANGE IS NEEDED





The existing outfall in the Cowichan River isn't a long-term option for discharging treated effluent. Moving it helps address various issues. Why is change needed?

- There are periods when there isn't enough water flow to dilute treated effluent according to provincial requirements. Low flows are expected to continue and get worse in future;
- A lease agreement with Cowichan Tribes for the land where the treatment plant is located includes a commitment to move the outfall from the river by 2021;
- Outfall infrastructure is at risk of damage caused by log jams and gravel bars in its current location;
- Moving the outfall from the river is a step towards reopening shellfish harvesting areas in Cowichan Bay;
- Relocating the outfall would include constructing a pressure pipe to feed the outfall, creating opportunities for resource recovery (ie: use of reclaimed water for irrigation of forest lands, heat recovery for community energy projects).

WHAT'S NEXT?

- A project page has been set up at www.cvr.bc.ca/lwmp with monthly updates.
- CVRD staff and partners are reviewing locations for a new outfall and progressing on an environmental impact assessment. While many options have been reviewed, to date only a few are under consideration.
- Community and stakeholder group outreach begins with spring info sessions and updates. Interested in learning more? Visit www.cvr.bc.ca/lwmp or contact cslwmp@cvrd.bc.ca (tel) 250-746-2530.

PROJECT PARTNERS:

This update has been issued by CVRD Engineering. Watch for monthly updates on the CSLWMP amendment project through the spring of 2015.

www.cvr.bc.ca/lwmp



Project Update

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN



Community members came together to learn more about a proposed amendment to the Central Sector Liquid Waste Management Plan at an infosession held in March.

STAKEHOLDERS GET STARTED ON REVIEWING PROPOSED LWMP AMENDMENT

Consultation with stakeholder groups and members of the public is now underway for a proposed amendment to the Cowichan Valley Regional District's (CVRD) Central Sector Liquid Waste Management Plan (CSLWMP).

The CVRD, in partnership with Cowichan Tribes, Municipality of North Cowichan and City of Duncan is currently pursuing the amendment which would move the existing treated sewage outfall from its current location in the Cowichan River to a new location.

A LWMP amendment process is complex and involves a technical review as well as consultation. Last month, the project team started the public outreach component of this amendment work, including hosting the first of a series of three infosessions. This event brought together representatives of groups with a stated or obvious interest in the outfall location and members of the public that have expressed interest in participating. Discussions are continuing as well with area First Nations.

"We've had great feedback from the outreach and consultation process that's been undertaken to date – stakeholders have shared insightful comments, asked good questions, and expressed appreciation for the amount of information that's been shared," said CVRD Board Chair Jon Lefebvre. "All of this consultation work will ensure that we arrive at the best solution for our region."

While the public outreach continues, the project team is also working to advance the technical review work to assess any proposed new outfall options. A discharge to Satellite Channel is currently the preferred option. The review work includes preliminary assessments of the ocean environment, evaluation of discharge locations and consideration of existing regulations.

There is still much more to come. Public consultation will continue this month with a second infosession and the installation of information displays in community centres and municipal halls. Review work continues with the assessment of Satellite Channel and to follow-up further on other areas of interest to stakeholders.

The LWMP amendment will likely be drafted by June 2015 and will be submitted to the province for review and approval. However, before an outfall is constructed, additional environmental assessment will be required.

For more information, visit www.cvrld.bc.ca/lwmp or email cslwmp@cvrd.bc.ca.

www.cvrld.bc.ca/lwmp

WHAT'S NEXT?

- The project team is working to finalize Stage 1 of the Environmental Impact Study. This uses existing information to determine a general location for the outfall terminus that protects environmental and human health, helps identify what site-specific/field data may be needed in Stage 2 of the EIS and predicts water quality around the outfall terminus to recommend a baseline monitoring program.
- Routing for the new outfall pipe is also in early stages of planning but an early proposal identifies a route along Tzouhalem Road, the causeway to the marine terminal in the Cowichan River estuary and the seabed of Cowichan Bay. The challenges of narrow rights of way, presence of existing utilities, and environmentally sensitive areas – among others – have been identified with this option, and more work is underway to identify alternate route options.
- Cost estimates are being updated for the project, which estimated to cost between \$26.5 million. These are being updated to reflect population projection.

APRIL 2015 ISSUE 2

CONSIDERING THE OPTIONS: REVIEWING NEW OUTFALL LOCATIONS

Due to changing climate, reduced summer river flows and a lease agreement commitment to Cowichan Tribes to move the outfall, the Cowichan Valley Regional District (CVRD) is proposing to amend the Central Sector Liquid Waste Management Plan (CSLWMP) to authorize relocation of the existing Joint Utilities Board (JUB) treated effluent discharge location from the Cowichan River.

A number of options for new outfall locations have been identified and assessed. Many of these options have been rejected because of challenges that make them unfeasible.

- Disposal to ground: While this offered a non-marine discharge option that would include natural filtration as part of the treatment process, there was no location in the area with sufficient buffers from drinking water wells. This option is no longer being considered.
- Reuse as irrigation: While this offered an opportunity to reuse the resource, it requires extremely large storage space during the area's 8 month wet weather period. This option is no longer being considered.
- Disposal to other surface waters: Consideration of Quamichan or Somenos Lake offered a non-marine discharge option close to JUB with lower routing costs – however it was found both lakes are sensitive to nutrient enrichment and algae growth and therefore this option is not being considered further.
- Route to Catalyst Paper Crofton for reuse: A new treatment plant and pipe would have to be built, increasing costs significantly, and there would not be enough flow to contribute to the mill's use. This is not being considered further.
- Route to Catalyst Paper Crofton for treatment/discharge: While this option offers to tie into existing infrastructure, there are significant questions about the long-term viability of relying on private infrastructure for this service as well as the ability for the Catalyst system to meet provincial and federal regulatory requirements with the addition of wastewater from JUB. This option continues to be investigated.
- Marine outfall to Satellite Channel: This offers the best option for high dilution and minimizes risk to environment and humans. It improves the possibility of reopening shellfish harvesting in Cowichan Bay and is also the most cost effective. Siting would require meeting all standards to protect aquaculture and fisheries as well as human health. Investigation into this option continues.

WHAT IS EFFLUENT?

Effluent: The treated liquid remaining at the end of the wastewater treatment process, which meets a standard required by the BC Ministry of Environment and Environment Canada for the protection of human health and the environment. This includes dilution of the effluent for an added buffer of safety. Learn more wastewater terms at www.cvrld.bc.ca/lwmp.

ABOUT SATELLITE CHANNEL

Satellite Channel is right now the preferred discharge option given preliminary reviews and support from the public and technical advisory committee. Finding a location in the area though, takes some work. Consulting engineers working with the CVRD have identified shellfish beds, fishing areas, required buffers and freighter anchorages while beginning early assessments of where there are sufficient currents and depth to protect the environment. One proposal suggests placing it off the Vancouver Island coast across from Separation Point. The project team is continuing to assess location outfall options. The impacts of the removal of one of the anchorage berths is being reviewed, as is the possibility of extending the outfall further to the embayment line. The location of the outfall is an important part of the public consultation process.

PROJECT PARTNERS:



This update has been issued by CVRD Engineering. Watch for monthly updates on the CSLWMP amendment project through the spring of 2015.

Learn more:
www.cvrld.bc.ca/lwmp
Email: cslwmp@cvrd.bc.ca
Tel: 250-746-2530

www.cvrld.bc.ca/lwmp

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MAY 2015 ISSUE 3

Project Update

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN



COST ESTIMATES FOR PROPOSED OUTFALL MOVE SHARED WITH THE COMMUNITY

With a preferred solution identified and research progressing, the Cowichan Valley Regional District (CVRD)'s Central Sector Liquid Waste Management Plan (CSLWMP) amendment project team is reaching out to the community to share estimated costs of moving the existing treated effluent outfall from the Cowichan River to a new location.

The CVRD, in partnership with the Cowichan Tribes, Municipality of North Cowichan and City of Duncan is pursuing an amendment to the CSLWMP which would authorize relocation of the Joint Utilities Board's treated effluent outfall from the Cowichan River to a new ocean outfall location. The move is required in part due to a lease agreement with Cowichan Tribes and to ensure the long-term sustainability of the outfall, which is currently challenged by low river levels during dry periods.

Over the past three months, the project team has been reviewing options for a new treated effluent discharge and have identified a location in Satellite Channel as the most viable option. The estimated cost for the project is roughly \$26.5 million and it will serve over 12,200 homes. Because the cost of the project will be divided among project partners based on percentage of use, cost per homeowner depends on the area where they live and is currently estimated to result in an annual increase of \$29-\$125 per property owner. The increase could drop to \$10-\$62 if funding applications are successful.

Consultations with the community, stakeholder groups and partners have been underway since March, with introductory meetings starting prior to that. Among the topics of discussion have been the importance of protecting the marine environment, standards of treatment required, and potential outfall locations. The amendment is expected to be drafted by the end of June and will go to the province for consideration.

On June 2, 2015, a public and stakeholder info session will be held in the Mesachie Room at the Island Savings Centre from 7-9 pm. The event will include a presentation about project work to date and estimated costs. An open discussion and refreshments will follow.

A project information page has been set up at www.cvrld.bc.ca/lwmp. To receive updates by e-mail, please contact the CVRD at cslwmp@cvrd.bc.ca or call 250.746.2530.

www.cvrld.bc.ca/lwmp

WHAT'S NEXT?

- Review ideas for routing the new pipe to the proposed outfall. This includes consideration of existing road conditions and ways to minimize environmental impact.
- Continue discussions with First Nations, stakeholders and partners, and provide updated information to the public on the project web page.
- Draft the amended LWMP. In June and submit to provincial government review. If approved, environmental analysis, logistical and construction planning will be needed to begin work.

MAY 2015 ISSUE 3

ESTIMATED SERVICE FEE INCREASES BY AREA

Today's annual fees for wastewater service in Duncan, North Cowichan and the CVRD (Eagle Heights, Cowichan Bay) range from \$250-\$490 (approx.). The following table provides estimates for increases to annual service fees in these areas if the project proceeds.

| | DUNCAN | NORTH COWICHAN | CVRD - EAGLE HEIGHTS | CVRD - COWICHAN BAY |
|---|--------|----------------|----------------------|---------------------|
| Estimated increase to annual service fee if approved | \$125 | \$29 | \$104 | \$115 |
| Estimated increase to annual service fee if 50% grant funding is received | \$62 | \$10 | \$52 | \$57 |

*Estimates are based on bringing through the Municipal Finance Authority, 0.6% over 20 years. Based on Class D estimate (+/- 30%). These are preliminary estimates that can be used for discussion and early resolution of options, and to initiate the approvals process.

UPDATE ON REMAINING OPTIONS

The relocation of the outfall is a priority for the CVRD and their JUB partners. Research has been undertaken over a number of years to assess possible solutions for a new treated wastewater discharge. Last month, this newsletter provided an overview of the six main options including reuse of treated effluent as irrigation or discharging to ground. To review that information, please see the Infographic - Options Review - or April 2015 Project Update Newsletter at www.cvrld.bc.ca/lwmp.

Two remaining options were under consideration. Following feedback from stakeholders and the community, further investigation took place to answer remaining questions. This research has led to the Catalyst Paper Crofton option also being eliminated from further consideration. Below are updates on those two options.

Catalyst Paper Crofton for Treatment and Discharge

The Option: Pipe wastewater to onsite treatment system at existing Catalyst Paper Crofton (mill), accessing the existing treatment and approved outfall.

New Information: Since the last update, further review has found that Catalyst Paper's existing discharge permit would need to be changed to permit treating more domestic sewage. It's also been found that the existing treatment system would not work properly with just domestic sewage. Due to the cost and regulatory challenges these create, this option is not being pursued further.

Marine Outfall (Satellite Channel)

The Option: Use marine environment as receiving waters. Satellite Channel offers the best opportunities for ocean outfall.

New Information: To avoid shellfish beds, wild fishery areas, commercial anchor berths and other potentially sensitive areas, a location off the Vancouver Island coast across from Separation Point has been identified as a feasible and acceptable location. The project team reviewed the option of extending a discharge pipe to the embayment line of Cowichan Bay and found that it would create significant additional risk and cost but provide no additional environmental benefit.

Given all of the research to date, the Satellite Channel option is the preferred option moving forward.

WHAT IS A LIQUID WASTE MANAGEMENT PLAN (LWMP)?

A local government-led process to develop solutions for wastewater management and other liquid waste issues (e.g. non-point source pollution) that meet or exceed existing regulations and are tailored specifically to meet the needs of the community. Final plans are approved by the provincial Ministry of Environment only after sufficient public and stakeholder consultation takes place.

The existing Central Sector LWMP, which the CVRD and partners are proposing to amend, was approved in 1999.

PROJECT PARTNERS:



This update has been issued by CVRD Engineering. Watch for monthly updates on the CSLWMP project through the spring of 2015.
Learn more: www.cvrld.bc.ca/lwmp
Email: cslwmp@cvrd.bc.ca
Tel: 250-746-2530

www.cvrld.bc.ca/lwmp

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CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN

Cost Information for Residents

ABOUT THE PROJECT

The Cowichan Valley Regional District (CVRD) is currently pursuing an amendment to the Central Sector Liquid Waste Management Plan (LWMP) to move the existing outfall from the Cowichan River to a new location.

The CVRD, in partnership with Cowichan Tribes, Municipality of North Cowichan and City of Duncan, has undertaken engineering and environmental review of the options, and consulted with stakeholders, community groups and the public. Through this work Satellite Channel has been identified as the most feasible and sustainable option for relocating the outfall to discharge the treated effluent.

HOW MUCH WILL THE PROJECT COST TO CONSTRUCT?

The project will involve installing a new pipe from the existing treatment facility to the new outfall to better serve approximately 12,200 homes. Preliminary estimates for the cost of the project is \$26.5 million. The cost will be divided among project partners based on usage rates. This means that property owners in each partner area will pay their fair share of the total amount based on the amount of flow their area contributes. This estimate is based on preliminary information and will be further confirmed before construction begins.

WHAT DOES THAT MEAN TO RATEPAYERS?

Funds for the project will be borrowed and will need to be repaid. For ratepayers in the areas serviced by the plan, it will mean an increase in their annual wastewater service bill. Depending on where your home is, the cost increase is expected to be between \$29-\$125/year. Where residents and homeowners now pay between \$278-\$491/year that could go up to \$403-\$606/year. The project is anticipated to be completed in 2018. The costs to ratepayers won't change until the project is complete.

HOW IS THE CVRD WORKING TO REDUCE THE COST?

The CVRD is actively seeking grant funding from the federal government to offset the proposed cost of the project. There are currently two applications submitted which could offer 50% funding to selected projects. Grant funding would substantially reduce costs for residents to be potentially \$10-\$62/year. However there are no guarantees those funds will be received. The project team continues to seek other cost reduction options.

| ANNUAL SERVICE FEE INCREASE (ESTIMATE BY AREA) | DUNCAN | NORTH COWICHAN | CVRD EAGLE HEIGHTS | CVRD COWICHAN BAY |
|---|--------|----------------|--------------------|-------------------|
| Annual service fee increase estimate, if approved | \$125 | \$29 | \$104 | \$115 |
| Annual service fee increase estimate, if 50% funding received | \$62 | \$10 | \$52 | \$57 |

NOTE: These estimates are currently Class D estimates with +/- 50% level of accuracy. All estimates will be refined and are based on anticipated borrowing from the Municipal Finance Authority at 6.6% interest over 20 years.

WHERE CAN I LEARN MORE? HOW CAN I PROVIDE INPUT?

Learn more about the Central Sector LWMP Amendment process at www.cvr.bc.ca/lwmp. Watch for monthly newsletters and community infosession dates which will be posted online and in local papers. The project team can also be contacted at 250-746-2530 or CSLWMP@cvrd.bc.ca

Visit www.cvr.bc.ca/LWMP

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Central Sector LWMP Glossary of Terms

CENTRAL SECTOR

A defined liquid waste management plan area that includes the City of Duncan, Municipality of North Cowichan, the Cowichan Valley Regional District (CVRD)'s electoral areas E (Sahtlam/Glenora/Cowichan Station) and D (Cowichan Bay) and reserve and traditional lands of Cowichan Tribes.

DECHLORINATION

Chlorine, which is used to disinfect the effluent prior to discharge can be toxic to fish if the concentration in the effluent is too high. The JUB sewage treatment plant is required to remove chlorine from the effluent. This process is called dechlorination. Sulphur dioxide is used to remove the chlorine from the effluent.

DISINFECTION

The deactivation of viruses and bacteria. Currently, chlorine is used to deactivate these pathogens as part of the JUB sewage treatment plant.

EFFLUENT

The treated liquid remaining at the end of the wastewater treatment process, which meets a standard outlined by the Ministry of Environment for the protection of human health and the environment.

ENVIRONMENTAL IMPACT STUDY (EIS)

A study required under the Municipal Wastewater Regulation and conducted by a qualified professional that determines whether a discharge will adversely affect human health or ecological health.

INTEGRATED RESOURCE RECOVERY (IRR)

The act of recovering useful materials or by-products from the process of wastewater treatment. This can include reuse of water or capture of heat from the treatment process for reuse in other products or services.

JOINT UTILITIES BOARD (JUB)

A decision-making body comprised of representatives from the City of Duncan, the Municipality of North Cowichan, the CVRD, and Cowichan Tribes. The Board oversees the management of the JUB sewage treatment plant that services residents of the City of Duncan, parts of the Municipality of North Cowichan, parts of the CVRD's electoral areas E (Sahtlam/Glenora/Cowichan Station) and D (Cowichan Bay) and parts of reserve lands of Cowichan Tribes.

LIQUID WASTE MANAGEMENT PLAN (LWMP)

A local government-led process to develop solutions for wastewater management and other liquid waste issues (eg. non-point source pollution) that meet or exceed existing regulations and are tailored specifically to meet the needs of the community. Final plans are approved by the provincial Ministry of Environment only after sufficient public and stakeholder consultation has taken place.

The existing Central Sector LWMP was approved in 1999.

MUNICIPAL WASTEWATER REGULATIONS (MWR)

British Columbia legislation governing the minimum standards for treatment and disposal of all sewage-based wastewaters provincially, administered by the BC Ministry of Environment. Learn more here: http://bit.ly/BC_MWR

OUTFALL

The infrastructure that transports treated effluent for final release to, and integration with a surface water environment.

PUBLIC AND TECHNICAL ADVISORY COMMITTEE (P&T COMMITTEE)

A group of representatives from senior government agencies, community organizations and the public who meet regularly to provide comment and feedback on the LWMP amendment to the Steering Committee. The P&T Committee includes 15 people.

Visit www.cvr.bc.ca/LWMP

SANITARY SEWER SYSTEM

Pipes that carry wastewater from a house or business to the sewer treatment plant. The sanitary sewers carry only wastewater. Stormwater is collected and carried through a different piping system and is not discharged to the sewage treatment plant.

SANSUM NARROWS

Sansum Narrows is a body of ocean water bounded to the east by Saltspring Island and Vancouver Island to the west. The narrows are entered from the south via Satellite Channel and is entered from the north via Stuart Channel.

SATELLITE CHANNEL

Satellite Channel is a body of ocean water bounded to the north and east by Saltspring Island and to the south and west by Vancouver Island, including the northern tip of Saanich Peninsula. This channel is entered from Swanson Channel, Shute Passage, and Colburne Passage and leads to Saanich Inlet, Cowichan Bay, and the south end of Sansum Narrows.

STEERING COMMITTEE

The guiding body for developing the LWMP and any amendment proposal. This group is made up of elected officials from the CVRD, Cowichan Tribes, Municipality of North Cowichan and City of Duncan and provides direction on the LWMP planning process in consideration of input from the P&T Committee and recommendations of staff and consultants. Recommendations from the Steering Committee will go to the CVRD's Board of Directors for consideration.

WASTEWATER

Water that has been used for sanitary purposes (eg. moving human waste) and for other domestic uses (eg. washwater) and contains some commercial and industrial wastes. Wastewater entering the sanitary sewer system must meet each jurisdiction's sewer use bylaws.

QUESTIONS/COMMENTS?

The Cowichan Valley Regional District wants to hear from you about the proposed amendment to the Central Sector liquid waste management plan (CSLWMP). To share questions or comments, or find out how to receive more information, email cslwmp@cvrd.bc.ca or phone 250-746-2530

Visit www.cvr.bc.ca/LWMP



Project Overview

WHAT IS THE CENTRAL SECTOR LWMP?

A liquid waste management plan (LWMP) is a guidance document that outlines solutions for managing wastewater (ie: sewage) and polluted runoff. LWMPs are developed through extensive public consultation processes led by a local government and are tailored to meet the specific needs of the community. The Cowichan Valley Regional District's (CVRD) Central Sector LWMP was developed in 1999, to serve the City of Duncan, Municipality of North Cowichan, Electoral Areas 'D' and 'E,' and part of Cowichan Tribes land. The existing sewage infrastructure collects wastewater from these areas and treats it via a secondary treatment plant, commonly known as the Sewage Lagoons system with final discharge into the Cowichan River.

WHAT IS HAPPENING TO THE CENTRAL SECTOR LWMP?

The CVRD is currently pursuing an amendment to the Central Sector LWMP to move the existing outfall in the Cowichan River to a new location. If that amendment is accepted, a separate amendment addressing a number of other issues, such as non-point source pollution, will be pursued.

WHY DOES IT NEED TO BE CHANGED?

There are several reasons why a change to the outfall discharge location is being considered:

- Climate change is affecting the Cowichan River. There are periods of the year when there is not enough river water flow to dilute the treated effluent according to provincial requirements. Such low flows are expected to continue and get worse in years to come
- A lease agreement with Cowichan Tribes for the land where the treatment plant is located includes a commitment to move the outfall from the river
- Outfall infrastructure is at risk of damage by log jams and gravel bars in its current location in the river
- Moving the outfall from the river is an important step toward reopening shellfish harvest in Cowichan Bay
- Relocating the outfall would include re-routing the sewer main, creating opportunities for resource recovery (ie: using reclaimed water for irrigating forest lands, heat recovery for community energy projects)
- The current CSLWMP makes a commitment to consider siting/routing options for a new outfall discharge

WHY IS THIS AMENDMENT OF THE LWMP BEING CONSIDERED NOW?

The outfall is quickly becoming a pressing issue due to the importance of health and environment values of the Cowichan River—one that will need attention in the near future. Recently, the CVRD became aware of potential funding that could—if awarded—offset the cost of the project by up to 50 per cent. In order to meet deadlines for this grant opportunity while still meeting the significant investigation and consultation standards required for a LWMP amendment, the LWMP project partners have decided to move forward on the most critical portion first—the outfall relocation—and follow up with the other topics at a later date.

The CVRD's LWMP partners and the Public and Technical Advisory Committee, which includes representatives from stakeholder groups and the public, strongly support this staged approach to amending the plan.

WHAT IS BEING PROPOSED?

To meet provincial dilution requirements and fulfill the terms of the Cowichan Tribes lease agreement, discharge is being proposed. The specific discharge location is still under consideration.

Visit www.cvrld.bc.ca/LWMP



Project Overview

HAVE OTHER OPTIONS BEEN REVIEWED OTHER THAN AN OCEAN DISCHARGE?

Preliminary reviews have been done on other discharge options including:

- a) Routing to Catalyst Paper Crofton (the mill) facility for reuse
- b) Routing to the Catalyst facility for sewage treatment and discharge
- c) Disposal to ground
- d) Irrigation
- e) Disposal to other surface waters

Some of the above have had early warning flags raised that suggest they should not be considered further, including possible risk to existing water resources and insufficient supply for efficient reuse. Others are still being investigated. For more about these options see *Infographic - Options Review* at www.cvrld.bc.ca/lwmp.

IS SATELLITE CHANNEL THE PREFERRED DISCHARGE LOCATION?

Preliminary studies have identified a location in Satellite Channel as a suitable option for further study. However, before any location is selected, the LWMP process must be completed—and that includes identifying and assessing other possible options, conducting comparative evaluations, consulting with First Nations, consulting with the public and stakeholders and completing an environmental impact study. In the interim, Satellite Channel was proposed as a discharge location in a funding application made by the Joint Utilities Board (JUB), on the understanding that the location could be amended if the LWMP identifies a different preferred option (provided it is still a marine discharge). The sewage treatment plant is owned by the JUB, however is included within the CVRD's Central Sector LWMP.

WHAT IS THIS GOING TO COST AND WHO WILL PAY FOR IT?

While it is hoped that a significant portion of the estimated \$22-million capital cost will be offset by senior government grant funds, remaining costs for relocating the outfall would be divided between users of the JUB sewage treatment plant. Information will be provided on options for appropriate cost sharing and the public will be asked to provide input on what is proposed. Public support for the plan and approval by the Ministry of Environment would be required prior to going ahead with the project and charging any fees.

WHAT HAPPENS NEXT?

Many steps are required before a final LWMP amendment can be submitted. These include: identification of options, further investigation and assessment of those options, public consultation opportunities, identification of a preferred option and completion of an environmental impact study. To learn more about the process of the amendment, please see the *Project Timeline* available at www.cvrld.bc.ca/lwmp

WHERE CAN I LEARN MORE? HOW CAN I PROVIDE INPUT?

Learn more about the Central Sector LWMP Amendment process by visiting www.cvrld.bc.ca/lwmp and reviewing the information there. Watch also for monthly newsletters, website updates and community infosessions in the coming months. Information on those will also be posted at the website above, or can be found by phoning 250-746-2530 or emailing CSLWMP@cvrd.bc.ca

Visit www.cvrld.bc.ca/LWMP

APPENDIX 4 – NEWSPAPER ADS

CVRD
MUNICIPALITY OF NORTH COWICHAN
DUNCAN

Liquid Waste Management Planning – Amending the Central Sector Plan

The Cowichan Valley Regional District is working with the City of Duncan, Municipality of North Cowichan and Cowichan Tribes, to update the Central Sector Liquid Waste Management Plan. This update (called an "amendment") focuses on reviewing options for moving the treated wastewater outfall that services the Central Sector area, from the Cowichan River to a new location.

As part of this review, the CVRD and partners will meet with stakeholder and community groups during a series of spring infosessions. Questions to be addressed during these sessions include:

- How is wastewater currently managed and treated?
- Why is a new outfall location needed?
- Where would the outfall go if it is moved?
- What alternatives have been considered?
- How much will it cost and who will pay?

Anyone interested in learning more about the project is invited to visit the project pages at www.cvrld.bc.ca/lwmp. Members of the public interested in attending a project infosession should contact the project team at cslwmp@cvrd.bc.ca.

Project Contact:
Email: cslwmp@cvrd.bc.ca
Project pages: www.cvrld.bc.ca/lwmp

www.cvrld.bc.ca @mycvrd facebook.com/mycvrd

CVRD
MUNICIPALITY OF NORTH COWICHAN
DUNCAN

Join Us to Learn More!

Liquid Waste Management Planning – Amending the Central Sector Plan

The Cowichan Valley Regional District, working with partners the City of Duncan, Municipality of North Cowichan and Cowichan Tribes, is in the process of amending the current Central Sector Liquid Waste Management Plan (CSLWMP) to relocate an existing treated wastewater outfall from the Cowichan River. As part of this review, the CVRD and partners are consulting with community members, stakeholder groups and partners about environmental, technical and cost considerations.

We invite the public to join us at a June Infosession to learn more about cost estimates and relevance to property owners.

When: June 2 (Tuesday) 7-9 pm
Where: Mesachie Room, Island Savings Centre, Duncan
Format: Presentation at 7 pm. Open house following Refreshments served

We look forward to sharing information about....

- The need for the project
- Expected costs for property owners
- Potential opportunities to reduce costs

More About the Project

Why is this happening now? Reduced summer water flows in the river, the changing course of the river in the area of the existing outfall, and a commitment to Cowichan Tribes in part of a lease agreement to remove the outfall from the river; and just a few of the factors combining to make this project a priority.

Project Contact:
Email: cslwmp@cvrd.bc.ca
Project pages: www.cvrld.bc.ca/lwmp

www.cvrld.bc.ca @mycvrd facebook.com/mycvrd

CVRD
MUNICIPALITY OF NORTH COWICHAN
DUNCAN

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Project Contact:
Email: cslwmp@cvrd.bc.ca
Project pages: www.cvrld.bc.ca/lwmp

www.cvrld.bc.ca @mycvrd facebook.com/mycvrd



Relocating the Outfall - Frequently Asked ?'s

Cowichan Tribes is an important partner in the Central Sector Liquid Waste Management Plan (CSLWMP), a project that will lead to the relocation of a treated wastewater outfall from the Cowichan River to a new location. Other partners are the CVRD, Duncan and North Cowichan.





What is going into the Cowichan River now?
Effluent, or wastewater that is treated to prevent impacts on the environment, is currently being discharged through an outfall into the Cowichan River.

How is "effluent" different from raw sewage?
After raw sewage has been treated it is called "effluent", a clear liquid that has been fully treated and disinfected. The quality of our community's treated effluent is very high and exceeds standards for protecting fish and other aquatic life.

Where will the treated effluent go when the outfall is relocated?
Many options have been reviewed to-date and Satellite Channel has been identified as the most workable and sustainable option for relocating the outfall, based on engineering studies and a review of areas that need to be protected.

As soon as the effluent leaves the outfall pipe, it mixes with sea water and is diluted by at least 300 times. The mixed water becomes a "plume". The plume stays below the water surface and does not touch the beaches or ocean bottom. This design will protect the most sensitive ocean life, including shellfish and young salmon.

QUESTIONS/COMMENTS?
Contact CVRD Engineering Services at: 250-746-2530 or email: cslwmp@cprd.bc.ca
Visit: cprd.bc.ca/lwmp @mycprd facebook.com/mycprd

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sports&recreation






Liquid Waste Management Planning - Amending the Central Sector Plan

The Cowichan Valley Regional District is working with the City of Duncan, Municipality of North Cowichan and Cowichan Tribes, to update the Central Sector Liquid Waste Management Plan. This update (called an "amendment") focuses on reviewing options for moving the treated wastewater outfall that services the Central Sector area, from the Cowichan River to a new location.



As part of this review, the CVRD and partners will meet with stakeholder and community groups during a series of spring infosessions. Questions to be addressed during these sessions include:

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Anyone interested in learning more about the project is invited to visit the project pages at www.cprd.bc.ca/lwmp. Members of the public interested in attending a project infosession should contact the project team at cslwmp@cprd.bc.ca.

Project Contact:
Email: cslwmp@cprd.bc.ca
Project pages: www.cprd.bc.ca/lwmp

FISHING DERBY Fishers

Registration begins for Galiano derby

Registration is underway for anglers keen to drop a line in Galiano Island's annual King Fisher Salmon Classic. The popular fishing derby runs from 6 a.m. to 4 p.m. on Saturday, May 2 out of the Montague Harbour Marina. The official weigh-in is at 4 p.m. The \$100 per rod entry fee gives participants access to a Friday night check-in bonfire barbecue and Saturday night awards dinner. Besides all the fishing, organizers promise contests, music, art and good times. Fifty per cent of the proceeds raised at the event will go to the Pacific Salmon Foundation to support salmon and shellfish.







Central Sector LWMP Amendment

Cowichan Tribes is an important partner in the Central Sector Liquid Waste Management Plan (LWMP), a guidance document that outlines solutions for managing wastewater and other forms of liquid waste. Other plan partners include the CVRD, City of Duncan and Municipality of North Cowichan. Together the partners are working to update this plan, through a process called an "amendment". The amendment is focusing on reviewing options to move the treated wastewater outfall serving these communities, from the Cowichan River to a new location.

The CVRD is leading the amendment process and is working with partners and stakeholders to share information on outfall relocation options and to gather comments. Cowichan Tribes representatives are part of the advisory committee for this project, and the Cowichan Tribes Environment Committee continues to be consulted.

In addition to these consultation activities, a series of spring infosessions are also being hosted to meet with stakeholders and community groups. If you are interested in attending a project infosession, let us know!

FOR MORE INFORMATION
Contact CVRD Engineering Services at: 250-746-2530 or email: cslwmp@cprd.bc.ca
Visit: cprd.bc.ca/lwmp @mycprd facebook.com/mycprd

News Release

FOR IMMEDIATE RELEASE

March 18, 2015



Options Under Review for Moving Wastewater Outfall from Cowichan River

Duncan, BC - The process of amending the current Central Sector Liquid Waste Management Plan (CSLWMP) to relocate an existing wastewater outfall from the Cowichan River has been launched by the Cowichan Valley Regional District (CVRD) with partners: the City of Duncan, Municipality of North Cowichan and Cowichan Tribes.

An amendment to the CSLWMP is required in part due to reduced summer water flows in the Cowichan River, the changing course of the river in the area of the existing outfall, and a commitment made to Cowichan Tribes as part of a lease agreement to remove the outfall from the river.

"It is critical that the CVRD and its partners start the process of moving this outfall," said CVRD Board Chair Jon Lefebure. "Funding opportunities are available this year that make this project a priority. There are still many steps to take in the coming months before any proposed change take place."

Developed in 1999, the original CSLWMP outlines community-supported strategies for managing wastewater in Duncan, North Cowichan, Electoral Area D – Cowichan Bay, Electoral Area E – Cowichan Station/Sahtlam/Glenora, and part of Cowichan Tribes land. A recommendation to relocate the outfall (which transports treated effluent from the Joint Utilities Board sewage treatment plant to the river) is included in the plan. In 1999, when the CSLWMP was developed, technical studies recommended evaluating Satellite Channel as a potential outfall location. Since then, the CSLWMP Public and Technical Advisory Committee, which includes members of the public, has supported pursuing further study of this and other options. In January 2015, Great Pacific Engineering and Environment Ltd. were hired by the CVRD to undertake technical studies to assess potential outfall locations.

An information page has been set up at www.cvrld.bc.ca/lwmp for the public to learn more about the project. Starting at the end of March, the CVRD and its partners will host stakeholder information sessions, publish monthly project newsletters, place displays at community and recreation centres, and provide project updates on the website. To receive updates by e-mail, please contact the CVRD at cslwmp@cvrd.bc.ca or call 250-746-2530.

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For more information, please contact:

Jon Lefebure, Board Chair
Tel: 250-746-2501
Email: chair@cvrd.bc.ca

News Release

FOR IMMEDIATE RELEASE

April 28, 2015



Consultation on proposed LWMP amendments kicks off with strong start

Duncan, BC: Consultation on a proposed amendment to the Cowichan Valley Regional District's (CVRD) Central Sector Liquid Waste Management Plan (LWMP) got off to a good start last month with strong feedback from stakeholder groups and members of the public and good progress on environmental and engineering assessments.

The CVRD, in partnership with Cowichan Tribes, the Municipality of North Cowichan, and the City of Duncan, is pursuing an amendment which would authorize relocation of the Joint Utilities Board's treated wastewater outfall from the Cowichan River to a new location.

"We've had great feedback from the outreach and consultation process that's been undertaken to date – stakeholders have shared insightful comments, asked good questions, and expressed appreciation for the transparency of our process and the amount of information that's been shared," said CVRD Board Chair Jon Lefebure. "All of this consultation work will ensure that we arrive at the best solution for our region."

An LWMP amendment process is a complex one that takes time to complete; it involves a technical review as well as consultation. Last month, the project team started the public outreach on this amendment work, providing updates to the community via project newsletters, news releases, advertisements, and a project specific webpage at www.cvrld.bc.ca/lwmp. The first of a series of three information sessions was also held, bringing together about 25 people representing individuals and stakeholder groups with an interest in the outfall location. Meetings and discussions are continuing as well with area First Nations.

Among the topics of discussion to date has been the importance of protecting the marine environment, standards of treatment required, and outfall location options that have been considered to date.

While public outreach continues, the project team is also working to advance the technical review work needed to assess potential location outfall options. This work includes preliminary assessments of the ocean environment, evaluation of discharge locations, and consideration of existing regulations. Public consultation will continue this month with a second information session and the installation of information displays in community centres and municipal halls.

The LWMP amendment is expected to be drafted in June this year. An information page has been set up at www.cvrld.bc.ca/lwmp for the public to learn more about the project. To receive updates by e-mail, please contact the CVRD at cslwmp@cvrd.bc.ca or call 250.746.2530.

-30-

For more information, please contact:

Jon Lefebure,
Chair, CVRD
chairperson@cvrd.bc.ca
250.746.2501

News Release

FOR IMMEDIATE RELEASE

May 21, 2015



Residents Invited To Learn More About Treated Wastewater Outfall Relocation and Costs

Duncan, B.C. - Residents and property owners in the Central Sector Liquid Waste Management Plan (CSLWMP) area are invited to learn more about the estimated costs of moving the existing treated effluent outfall from the Cowichan River to a new location at a public information session. The event will be held on June 2 at the Island Savings Centre in the Mesachie Room from 7-9 pm and will include a presentation about the project work to date and estimated costs followed by an open question and answer session. Refreshments will be provided.

The Cowichan Valley Regional District (CVRD), in partnership with Cowichan Tribes, Municipality of North Cowichan and City of Duncan is pursuing an amendment to the CSLWMP which would authorize relocation of the Joint Utilities Board's treated effluent outfall from the Cowichan River. The relocation is a condition of the lease agreement with Cowichan Tribes. In addition, the outfall is currently challenged by low river flows during dry periods and can experience damage during high river flows.

"There has been a lot of discussion about the best outfall location and the necessary research required to create the strongest plan moving forward – but we know the rubber hits the road for people when we talk about cost, which is why we're reaching out to the community to get them involved in the consultation on this project," said CVRD Board Chair Jon Lefebure. "Now is the time for us to hear from them about the proposed plan and estimated costs."

Over the past three months, the project team has been reviewing options for a new treated effluent discharge and has identified a location in Satellite Channel as the most viable option. The estimated cost for the project is roughly \$26.5 million and it will serve over 12,200 homes. Because the cost of the project will be divided among project partners based on percentage of use, cost per homeowner depends on the area where they live and is currently estimated to result in an increase of between \$29-\$125/year per property owner. Those costs could drop to \$10-\$62/year per property if the project team's funding application is successful.

Consultations with the community, stakeholder groups and partners have been underway since March this year, with introductory meetings starting prior to that. Among the topics of discussion to date have been the importance of protecting the marine environment, standards of treatment required, and potential outfall location options. The amendment is expected to be drafted by the end of June and will go to the province for consideration.

A project information page has been set up at www.cvrld.bc.ca/lwmp. To receive updates by email, please contact the CVRD at cslwmp@cvrd.bc.ca or call 250.746.2530.

For more information, please contact:

Jon Lefebure,

Chair, CVRD

Phone: 250.746.2501

Email: chairperson@cvrd.bc.ca

News

Sewage outfall move head to public meeting

ANDREA RONDEAU CITIZEN

Members of the public will have a chance to learn more about how much it will cost and other aspects of the plan to move a sewage outfall from the Cowichan River to another location.

The event, hosted by the Cowichan Valley Regional District, is being held on June 2 from 7-9 p.m. in the Mesachie Room at the Island Savings Centre in Duncan.

There will be a presentation about what's been done on the project to date and the estimated costs of the move, then there will be an open question and answer session.

The CVRD, in partnership with Cowichan Tribes, the Municipality of North Cowichan and the City of Duncan is looking to move the Joint Utilities Board treated effluent outfall out of the river for a number of reasons.

First, it is a condition of their lease agreement with Cowichan Tribes. Second, low river flows during increasingly dry summers threaten the outfall, as do high flows during other times of the year that can cause damage.

"There has been a lot of discussion about the best outfall location and the necessary research required to create the strongest plan moving forward — but we know the rubber hits the road for people when we talk about cost, which is why we're reaching out to the community to get them involved in the consultation on this project," said CVRD Board Chair Jon Lefebure. "Now is the time for us to hear from them about the proposed plan and estimated costs."

A location in Satellite Channel has been identified as the best spot to move the outfall to, at an estimated cost of \$26.5 million.



CVRD Chair Jon Lefebure

The project team has applied for funding to help pay the cost of the project, which could run homeowners between \$29 and \$125 per year depending on where you live.

The amendment to the Central Sector Liquid Waste Management Plan necessary for the project to go forward is expected to be drafted by the end of June, when it will go to the province for consideration.

To find out more about the project, go to www.cvrld.bc.ca/lwmp or call 250-746-2530.

timescolonist.com | TIMES COLONIST

Cowichan Valley Regional District moving sewage outfall

ANDREA RONDEAU
Cowichan Valley Citizen

Municipal partners are starting the process of moving a sewage outfall out of the Cowichan River.

"It is critical that the CVRD and its partners start the process of moving this outfall," said Cowichan Valley Regional District board chairman Jon Lefebure.

"Funding opportunities are available this year that make this project a priority. There are still many steps to take in the coming months before any change takes place."

One particular grant would pay 50 per cent of the estimated \$22-million project costs, if the CVRD is successful in its application.

The CVRD announced in a statement that it is amending the Central Sector Liquid Waste Management Plan.

The amendment is being made in partnership with the City of Duncan, the Municipality of North Cowichan and Cowichan Tribes, a first step in moving the wastewater outfall.

The change has been prompted by several years of severe drought that have drastically reduced summer flows in the Cowichan River, leaving some of the diffusers that dilute wastewater coming from the Joint Utilities Board sewage lagoons high and dry.

"There are periods of the

year when there is not enough river water flow to dilute the treated effluent according to provincial requirements," the project overview says. "Such low flows are expected to continue and get worse in years to come."

The course of the river is also changing in the outfall area and a commitment to remove the outfall has been made to Cowichan Tribes as part of a lease agreement.

Further, the current outfall is at risk of being damaged by log jams and gravel bars.

Downstream, moving the outfall is an important step toward reopening shellfish harvesting in Cowichan Bay.

The idea of moving the outfall is not a new one, as it has been recommended in the Waste Management Plan since 1999.

At that time, technical studies recommended evaluating Satellite Channel, located off Cowichan Bay and Cobble Hill, as a spot where it might be moved.

There are also other options being studied before a final location is chosen. Great Pacific Engineering and Environment Ltd. were hired by the CVRD in January to do the technical studies and assess potential locations.

A projected date of 2017 has been set for completion of the project.

There are also opportunities for side benefits from the project. Moving the outfall and re-routing the sewer main can allow for the reclamation of water for forest land irrigation and heat recovery for community energy projects.

An information page about the project has been set up at cvrd.bc.ca/lwmp.

The CVRD and its partners are hosting stakeholder information sessions and will publish monthly newsletters on the project. They will also provide information at community and recreation centres, and on the website.



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golfers for
ings Open.



CVRD moving river sewage outfall

PROJECT: 'critical'

ANDREA RONDEAU CITIZEN

Municipal partners are starting the process to move a sewage outfall out of the Cowichan River.

"It is critical that the CVRD and its partners start the process of moving this outfall," said Cowichan Valley Regional District Board Chair Jon Lefebvre. "Funding opportunities are available this year that make this project a priority. There are still many steps to take in the coming months before any change takes place."

One particular grant would pay 50 per cent of the approximately \$22 million project costs, if the CVRD is successful in their application.

The CVRD announced in a press release that they are amending the Central Sector Liquid Waste Management Plan.

See LOW SUMMER, Page 4



The most likely location for a new sewage outfall is into Satellite Channel, located off of Cowichan Bay and Cobble Hill. (BING MAPS)

Low summer river flows caused by climate change prompting move

CVRD MOVING, From Page 1

The amendment is being made in partnership with the City of Duncan, the Municipality of North Cowichan and Cowichan Tribes, a first step in moving the wastewater outfall.

The change has been prompted by several years of severe drought that have drastically reduced summer flows in the Cowichan River, leaving some of the diffusers that dilute wastewater coming from the Joint Utilities Board sewage lagoons high and dry.

"There are periods of the year when there is not enough river water flow to dilute the treated effluent according to provincial requirements," the project overview says. "Such low flows are expected to continue and get worse in years to come."

The course of the river is also changing in the outfall area and a commitment to remove the outfall has been made to Cowichan Tribes as part of a lease agreement.

Further, the current outfall is at risk of being damaged by log jams and gravel bars. Downstream, moving the outfall is an important step toward reopening shellfish harvesting in Cowichan Bay.

The idea of moving the outfall is not a new one, as it has been recommended in the Waste Management Plan since 1999.

At that time, technical studies recommended evaluating Satellite Channel (located off of Cowichan Bay/Cobble Hill) as a spot where it might be moved. There are also other options that need to be studied further before a final location is chosen. Great Pacific Engineering and Environment Ltd. were hired by the CVRD in January to do the technical studies and assess potential locations. A projected date of 2017 has been set for completion of the project.

There are also opportunities for side benefits from the project. Moving the outfall and re-routing the sewer main can allow for the reclamation of water for forest land irrigation and heat recovery for community energy projects.

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ENVIRONMENT

Cowichan plans new outfall site

Satellite Channel among most viable options

BY SEAN MCINTYRE

DRIFTWOOD STAFF

Cowichan Valley Regional District staff assure the public that a plan to relocate the treated sewage outfall for nearly 30,000 people into the ocean facing Salt Spring's west coast will not harm public health or the marine environment.

"Nutrient loading is much less of a concern in the marine environments as the ocean is much more robust than fresh water environments at assimilating nutrient loads from rivers and drainages all along the coast," said Emily Doyle Yamaguchi, an engineering analyst for the CVRD's water management division. "A marine outfall, if selected, would be sited in an area with deep water and good currents for dispersion."

A proposal to relocate the CVRD's current outfall away from the Cowichan River has identified potential outfall locations near the Catalyst pulp mill in Crofton and Satellite Channel, south of Sansum Narrows.

Though the Satellite Channel site has been deemed a "suitable option for further study," the CVRD must complete a formal process to identify and assess other options, consult members of the public and First Nations, and complete an environmental study.

Doyle Yamaguchi said the CVRD has dumped treated effluent at its Cowichan River site since 1999. The district wants to move the outfall by 2021 due to expiry of a lease agreement with First Nations, natural hazards that endanger infrastructure, service expansion, restoration of the Cowichan Bay shellfish harvest and environmental factors.

"Climate change is affecting the Cowichan River," Doyle Yamaguchi said. "There are periods of the year when there is not enough river water flow to dilute the treated effluent accord-

ing to provincial requirements. Such low flows are expected to continue and get worse in years to come."

She said effluent is monitored weekly and exceeds federal and provincial health standards on an average annual basis. Wastewater is currently treated through a secondary treatment plant before it is sent into the Cowichan River. In summer months, tertiary treatment is used.

"This highly treated effluent is non-toxic and is disinfected to protect human health, in accordance with provincial testing procedures and requirements," Doyle Yamaguchi added.

"This highly treated effluent is non-toxic and is disinfected to protect human health, in accordance with provincial testing procedures and requirements."


EMILY DOYLE YAMAGUCHI
CVRD engineering analyst


Options to dispose of treated sewage in freshwater lakes within the Cowichan Valley have been eliminated due to worries about nutrient loading and a requirement for further treatment, Doyle Yamaguchi added.

More information about the Liquid Waste Management Plan is available at cvrd.bc.ca, 250-746-2530 or by email at eslwmp@cvrd.bc.ca.





Representatives from the Georgia Strait Alliance and Gulf Islands Alliance did not respond to requests for a comment in time for the Driftwood's Tuesday afternoon deadline.

APPENDIX 7 – PROJECT WEBPAGE

**COWICHAN VALLEY
REGIONAL DISTRICT**



Search...

things look better from here

SERVICES RESIDENTS VISITORS HOW DO I...

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Liquid Waste Management Planning

Liquid waste management is a broad term used to describe the collection, treatment and disposal of wastewater (ie. sewage), as well as the protection of the environment from polluted runoff. A liquid waste management plan (LWMP) guides these activities, and is designed specifically to meet the needs of individual areas, based on technical and regulatory requirements, as well as input from the community.

Plans

- [Central Sector Liquid Waste Management Plan](#) (Duncan, North Cowichan, Cowichan Tribes, Area D-Cowichan Bay, Area E-Sahtlam/Glenora/Cowichan Station)
- [South Sector Liquid Waste Management Plan](#) (Area A-Mill Bay, Area B-Shawnigan Lake, Area C-Cobble Hill)

Active Projects



Central Sector Liquid Waste Management Plan Amendment

Overview

The CVRD is developing a proposed amendment for the Central Sector LWMP that may involve moving the existing treated sewage effluent outfall from the Cowichan River to a new marine environment location. This will ensure that there is enough dilution to responsibly manage our community's liquid waste over the long term.

Why is this change needed? Download the information sheets listed below. The process for this LWMP amendment involves a range of different activities in 2015, such as the completion of an Environmental Impact Study and consultation with partners, stakeholder groups, and the public.

Partners in this project are: Cowichan Tribes, City of Duncan, Municipality of North Cowichan and the CVRD.

Related Documents:


- [CSLWMP Project Overview](#)
- [Glossary of Terms](#)
- [Infographic - Options Review](#) > [Large](#), [Small](#)
- [Outfall Constraints Map](#)
- [Plan Area Map](#)
- [Costs FAQ](#)


Project Newsletters:


- [March 2015 - Project Update Newsletter](#)
- [April 2015 - Project Update Newsletter](#)
- [May 2015 - Project Update Newsletter](#)


Project Timeline


[Download a larger image version of the project timeline.](#)


 **MEETINGS / EVENTS**


 **CVRD FEEDBACK**

 **COWICHAN PHOTOS**

 **NOTIFY ME**

 **LOCAL WEATHER**

 **VOLUNTEERING**

 **EMERGENCY ALERT**

APPENDIX 8 – EVENT SUMMARIES



Event Overview and Summary

Event: Infosession #1 –Central Sector LWMP Amendment Project

Date: Mar. 25, 2015, 7-9 PM

Location: Somas Room, Island Savings Centre, Duncan BC.

Overview

On March 25, 2015, the Cowichan Valley Regional District hosted the first of series of infosessions about the proposed Central Sector LWMP amendment. The event was intended to inform community groups and stakeholders of the proposed amendment, provide some background on the need for the project and the opportunity available at this time, and update those attending on technical work done to date. The infosession was specifically designed to inform as well as collect feedback to give the project team a clear idea of early concerns or areas in need of further investigation.

Outreach

- Email invites were sent directly to a group of identified stakeholders. Those invitations were followed up by direct phone calls. Some people were added to the stakeholder lists and more current contacts were provided.
- Ads ran in local papers (Cowichan Citizen and Gulf Islands Driftwood as well as Cowichan Tribes paper) informing people of the proposed amendment and inviting interested residents to contact project team about upcoming events.

Event Details

- Roughly 25 people attended. About 12 comment forms were filled in and left with organizers. Since the event, additional comments have been submitted by email.
- Presentations were made by Emily Doyle-Yamaguchi, Environmental Analyst for the CVRD and Jason Clarke from Great Pacific Engineering. Questions were accepted throughout the presentation.
- Following the presentations and a brief break, participants were encouraged to connect with discussion circles centered on themes identified during the question period. There were four general themes identified: project process, options considered, marine environment, and existing treatment conditions.
- Project staff, representatives of the Municipality of North Cowichan (2) and ZINC Great Pacific consultants manned the event to answer questions/collect feedback.
- Informational Boards were displayed including the constraints map, outfall table.
- A comment sheet was provided to all attendees and time was specifically allotted for completion before leaving the event. This resulted in a high percentage of submissions.

1

Common themes and examples of questions:

1. What other options have been considered?
 - Possible move of anchorage and ability to reach closer to abayment line
 - How much investigation into Crofton potential
2. How will this impact the marine environment?
 - Questions about dispersement and influence of currents/tides
 - How pipe will be laid and possible impact on marine life
3. Is current treatment sufficient to protect outfall environment?
 - What is monitored and how often, and how often reported.
 - Understanding dilution and opportunity it poses

*NOTE: A full record of comments and questions was collected by the event team and is being collated for future reporting on public consultation. It will also highlight areas of focus for future infosessions.

Photos



2

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN**Event Report – CSLWMP Stakeholder Infosession #1**

Event: Infosession #2 –Central Sector LWMP Amendment Project
 Date: Tuesday, April 28, 2015, 7-9 PM
 Location: Somenos Room, Island Savings Centre, Duncan

1. Overview

On April 28, 2015, the Cowichan Valley Regional District hosted the second of a series of infosessions about the proposed Central Sector LWMP amendment. The event was intended to build on the information provided in the first infosession, answer questions raised by participants during the first meeting and provide an update on the technical investigations undertaken through April. The infosession was structured to both share information and collect feedback and questions from attendants.

2. Outreach/Who Was Invited

- An updated list developed through the invitation process of the first infosession was used as the base for invitations to this event. Additional members of the public were added to the list if interest was expressed as a result of ads, lobby displays or news coverage. Email invitations were sent out 10 days in advance and were followed up by email/phone.
- Ads ran in local papers (Cowichan Citizen and Gulf Islands Driftwood as well as Cowichan Tribes newsletter) informing people of the proposed amendment and inviting interested residents to contact project team about upcoming events.

3. Event Details

- 13 people attended and three comment forms were filled in and left with organizers.
- Presentations were made by Emily Doyle-Yamaguchi, Environmental Analyst for the CVRD and Jason Clarke from Great Pacific Engineering. Questions and discussion were accepted during the presentation.
- Following the presentations and a brief break, there was an informal discussion period where participants connected one-on-one or in small groups with project team members to ask specific questions about planning or their concerns.
- CVRD and Municipality of North Cowichan staff and ZINC Strategies and Great Pacific consultants manned the event to answer questions/collect feedback.
- Informational Boards were displayed including the constraints map, outfall table and New posters at this event included proposed routing options and updates on the discharge options
- A comment sheet was provided to all attendees and all were encouraged to fill out and leave. Time was allotted before the end of the event to provide opportunity to comment.

4. Common Themes/Questions:**Further discussion about potential service through Crofton Catalyst Mill**

- Questions about the different treatment level requirements for mill now and for JUB effluent.
- Discussion about use of onsite system and challenges to adding JUB effluent

Questions/Comments about new info re: moving outfall to embayment line

- Discussion about the value of the embayment line and what it actually means
- Is there really no environmental benefit to moving the outfall to the embayment line?

Interest in details of/ options for routing of new wastewater pipe

- Concerns about Tzouhalem Road – narrow, foot traffic, dark
- Questions about shoreline route and whether it would be allowed
- Interest in ideas that see less roadway use and introduced pipe to ocean closer to the treatment plant.

*NOTE: A full record of comments and questions was collected by the event team and is being collated for future reporting on public consultation.

5. Photos From the Event

CENTRAL SECTOR LIQUID WASTE MANAGEMENT PLAN**Event Report – CSLWMP Stakeholder Infosession #3**

Event: Infosession #3 –Central Sector LWMP Amendment Project
 Date: Tuesday, June 2, 2015, 7-9 PM
 Location: Mesachie Room, Island Savings Centre, Duncan

1. Overview

On June 2, 2015, the Cowichan Valley Regional District hosted the third of a series of infosessions about the proposed Central Sector LWMP amendment. The event was intended to build on the information provided in the first and second infosessions, provide an update on the progress of the process to date, and present and collect feedback on estimated costs for the work. The infosession was structured to both share information and collect feedback from attendants.

2. Outreach/Who Was Invited

- An updated list of attendees and email recipients was used to share the invitation for the event directly. This included identified stakeholder groups as well as members of the public who've expressed interest in receiving updates. This invite was shared externally as well by stakeholder groups such as the downtown business improvement association.
- To invite the general public, notices were also published in local newspapers over three editions, beginning two weeks in advance of the event date. A press release with details of the event was submitted to local media and ran in the local newspaper and via a local radio station. Information on the event was also shared through Duncan Chamber of Commerce, and Downtown Duncan Business Improvement Association email lists.

3. Event Details

- 32 people attended and one comment form were filled in and left with organizers.
- Presentations were made by Emily Doyle-Yamaguchi, Environmental Analyst for the CVRD and Jason Clarke from Great Pacific Engineering. Questions and discussion were accepted during the presentation. Presentations and discussion filled 1.5 hours of the two-hour session.
- Following the presentations and a brief break, there was an informal discussion period where participants connected one-on-one or in small groups with project team members to ask specific questions about planning or their concerns.
- Informational boards were displayed including the constraints map, outfall option timeline. New posters at this event included updated routing proposals and informed estimated costs for residents.
- CVRD and Municipality of North Cowichan staff and ZINC Strategies and Great Pacific consultants were also on hand to answer questions and collect feedback.

4. Common Themes/Questions:**Questions/discussions about the reasons for this project**

- Questions about the future of the lagoons and whether they need to be replaced.

- Requests for details about rationale for moving from the river (level of damage to the infrastructure, impact on the river environment).

Discussion about protecting the environment

- Concern about shellfish and protecting aquatic animals in marine environment.
- Interest in further modelling of proposed location to confirm early plans.

Interest in other options that have been considered

- Why not send to aquifer?
- Questions about alternative treatment options, such as 'drinking water quality' treatment and marshland phytoremediation.

Questions about fee increases

- Why do estimated fee increases differ between service areas?
- To whom would these increases apply?

*NOTE: A full record of comments and questions was collected by the event team and is being collated for future reporting on public consultation.

5. Photos From the Event

Prepared by ZINC for CVRD Engineering 2/2

APPENDIX 9 – PUBLIC CONSULTATION LOG

CVRD CSLMWP Comment/Consultation LOG - Public Calls/Email

| CSLWMP Comment & Consultation LOG | | | | | | | |
|-----------------------------------|---|--------------------------------|----------------------------------|--|------------------|-------------|--|
| SHEET: PUBLIC CALLS AND EMAILS | | | | | | | |
| Date of Contact | Name, Organization | Response requested or required | Phone/Email | Main question/issue | Date of response | Who | Notes |
| JANUARY | | | | | | | |
| FEBRUARY | | | | | | | |
| 2/25/2015 | Ron Diederich, FLNRD, CETMP | Done | Ron.Diederich@gnv.bc.ca | Clarification on how CETMP would participate in consultation. | 3/2/2015 | EDY | Encouraged attending infosession. No response to this invitation. |
| MARCH | | | | | | | |
| 3/12/2015 | Kelvin Campbell, Area H Commercial Crab Fishermen | Done | kcfishing@shaw.ca | Concern about possible displacement of fishermen from fishing grounds. An outfall west of the embayment line would not impact the commercial crab fishery, but a location close to Boatwain Bank would. | 3/16/2015 | EDY | Explained location under consideration; encouraged to attend infosession 1. |
| 3/13/2015 | Grant Downey, Underwater Harvesters Association | Done | gdowneyoffice@shaw.ca | Narrowed down potential outfall locations? | 3/16/2015 | EDY | Explained location under consideration; encouraged to attend infosession 1. |
| 3/17/2015 | Kelvin Campbell, Area H Commercial Crab Fishermen | Done | kcfishing@shaw.ca | Need clarity on proposed location in Satellite Channel; commented that deep water with high dispersal potential is desirable. | 3/18/2015 | EDY | Thanked for comments. |
| APRIL | | | | | | | |
| 4/8/2015 | James Robinson | Done | jrobin10501@gmail.com | Email - request to be kept informed | 4/22/2015 | EDY | Emailled details to attend infosession 2. |
| 4/9/2015 | Sean McIntyre, Driftwood Gulf Islands Media | Done | smcintyre@driftwoodgulf.com | Email - questions for article on treatment, service area, potential risk to humans and environment, relocation options, amendment timeline and rocess. | 4/13/2015 | EDY | Emailled information from project overview and in response to his questions. |
| 4/12/2015 | Vicky Husband (formerly of the Sierra Club, known environmental critic) | Done | vickyhusband@me.com | Email - concern about potential impacts on Saanich Inlet | 4/17/2015 | EDY, JC, CD | Emailled info about process; requirements to protect environment; role of dilution in risk management; mention of stakeholders and partners involved; support expressed from environmental organizations |
| 4/13/2015 | Scott Armstrong, CWO Environment Commission, Public and Technical Committee | Done | scott@t4s.com | Email - whether outfall will comply with storm/sewer separation requirements | 4/13/2015 | EDY | Emailled that storm/sewer separation already in place |
| 4/23/2015 | Michael Simmons, Saanich Inlet Protection Society | No | simmonsmt@telus.net | Email - "You have allayed our concerns about potential effects on Saanich inlet with the discussion at the first info session. I do not believe we have much to add to the discussion about detailed locations of the outfall. So we do not plan to attend the session next Tuesday. However we would be very interested to read reports produced from these sessions and if there are any significant changes in the plans as a result of future research." | | | |
| 4/24/2015 | Jan Norwood | No | jan.norwood@telus.net | Email - Thanks for all the information. The last session was very interesting and we believe you are working in everyone's best interest." | | | |
| 4/27/2015 | Not provided | Done | bajjeet@uvic.ca | Email - request to be added to mailing list and details on infosession dates/location | 4/29/2015 | EDY | Sent details |
| 4/28/2015 | Garry Fletcher, Friends of Ecological Reserves | No | Garry Fletcher <garry@gmail.com> | Call - requested to be removed from contact list; outfall relocation is not a concern because of distance from the Ecological reserve and because of other priority issues taking precedent. | 4/28/2015 | EDY | Spoke on the phone to ensure he was aware of project and possible relevance |
| 4/29/2015 | Jim Miciaia | Yes | jim@bucksuzuki.org | Call - requested copy of constraints map, image depicting routing ideas, more detail on added cost to extend pipe to embayment line. | | | |
| 4/29/2015 | Dan Daigle (Oceanfront Ratepayers Community Association) | Done | daigled@camosun.bc.c | Email - opportunities for general public to attend infosessions | 5/1/2015 | FTV | Advised that infosessions always open to public; that advertising has targeted groups with a known higher interest in the project |

CVRD CSLMWP Comment/Consultation LOG - Public Calls/Email

[illegible]

CVRD CSLMWP Comment/Consultation LOG - Presentations/Meetings

[illegible]

CVRD CSLMWP Comment/Consultation LOG - Other Stakeholder Meetings

| Date of Meeting | Format | Organization(s) | Participants | Contact | Main question/issue | Notes |
|-----------------|-----------|----------------------|---|---------|---|---|
| 1/12/2015 | In person | CIRCA, Western Stev | Goetz Shuerholz, Alan Moore, Rob Jam | | Use of causeway for routing, possible conflict with bridge project | Project still in feasibility assessment stage; will not require formal referral until plan area is ratified and seabed transferred from Province; NMGA Act regulations still under development; primary concerns would be potential impacts on structure and function of ecosystems. |
| | Call | Parls Canada | Krista Royle krista.royle@pc.gc.ca | | Timeline and process for establishing National Marine Conservation Area, possible conflict with offshore relocation project | No concerns since discharge is treated, already entering the environment via river and will be significant distance from the ecological reserve. No regulatory or buffer requirements exist wrt the reserve. If they received a referral, would contact their marine ecologist and conservation specialist for input. |
| 1/14/2015 | Call | BC Parks | Sharon Erickson | | Review of project, possible concerns related to review of project, resources to note on constraints msa, influence of project on re-opening shellfish harvest in Cowichan Bay | DFO approved of constraints map, provided guidance on crab sensitivity to outfall |
| 1/16/2015 | In person | DFO, Cowichan Tribes | Juanita Rogers, Elysha Gordon, Tom Rutledge | | [Review of project, influence of outfall relocation on re-opening nearby shellfish harvesting areas, conditions for re-opening shellfish harvesting] | |
| 1/27/2015 | Phone | Environment Canada | Walter Hagen w.hagen@ec.gc.ca | | Use of causeway for routing | Advised that Victoria office deals with marine issues (local trust committees are land-use only); requested project and discussion summary by email to discuss with colleagues and determine if Islands Trust interested/able to participate in consultation. |
| 2/2/2015 | Call | Western Stewardship | Alan Moore, Rob James | | Adequate First Nations and other stakeholder? | |
| 4/27/2015 | Call | Islands Trust | Clare Fryater cfryate@islandstrust.org | | Review of project, ability of treatment to address emerging contaminants, other solutions being explored | Doug's office will forward event details (information) to their e-list, project information materials left at their office |
| 5/21/2015 | In person | Bill Routley, MLA | Bill Routley, Doug Morgan, Debra Tootle | | Pipe/routing alignment – possible road width comment, how will bridges be crossed, "coastal corridor" would have greater impact on road and on village traffic (prefer to avoid), advise contacting Fortis BC and BC Hydro regarding future infrastructure changes along Tzouhalem Rd | |
| 5/19/2015 | In person | MOT staff | Andrew Newell, Michael Newman | | | Emailled routine decision to Mike for review on May 22 |

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[illegible]

CVRD CSLMWP Comment/Consultation LOG - E-blasts


[illegible]

CVRD CSLMWP Comment/Consultation LOG - Media features

[illegible]

CVRD CSLMWP Comment/Consultation LOG - First Nations Consultation

[illegible]

| CSLWMP Comment & Consultation LOG | | | | | |  | | |
|-----------------------------------|-----------------|----------------|-----------------------|--|------------------------|---|--|--|
| SHEET: FIRST NATIONS CONSULTATION | | | | | | | | |
| First Nation | Date of Contact | Sent/Received? | Correspondance Format | Topic | Key contact | | | |
| Lyackson | 10/2/2014 | Sent | Letter | Notification | Chief Richard Thomas | | | |
| Lyackson | 4/9/2015 | Received | Email | Expression of interest | Kathleen Johnnie | | | |
| Lyackson | 4/28/2015 | Sent | Email | Meeting notes, Powerp | Kathleen Johnnie | | | |
| Lyackson | 5/12/2015 | Sent | Email | Response to question | Kathleen Johnnie | | | |
| Lyackson | | | Email | Response to request for \$; provide EIS and request response by specified date | | | | |
| | | | | | | | | |
| Tseycum | 3/9/2015 | Sent | Letter | Notification | Chief Vern Jacks | | | |
| Tseycum | 4/7/2015 | Sent | Email | Request to present | Chief Vern Jacks | | | |
| Tseycum | 4/9/2015 | Received | Email | RSVP for presentation | Tseycum reception desk | | | |
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