

Minutes of the meeting of the Liquid Waste Management Plan (LWMP) Joint Technical and Public Advisory Committees (TACPAC) Meeting #8 held on Thursday, December 5, 2019 at the Comox Valley Regional District (CVRD) Boardroom, commencing at 9:00 am.

- PRESENT:**
- A. Habkirk, Chair and Facilitator
 - P. Nash, LWMP Project Coordinator
 - M. Rutten, General Manager Engineering Services CVRD
 - K. La Rose, Senior Manager of Water/Wastewater CVRD
 - M. Imrie, Manager of Wastewater Services CVRD
 - J. Boguski, Branch Assistant – Engineering Services CVRD
 - Z. Berkey, Engineering Analyst CVRD
 - J. Morin
 - A. Bennett WSP
 - A. Gibb WSP
 - M. Swift, Town of Comox Councillor PAC
 - W. Cole-Hamilton, City of Courtenay Councillor PAC
 - A. Hamir, Lazo North – Electoral Area B Director PAC
 - C. McColl, K’ómoks First Nation PAC/TAC
 - A. Gower, Comox Valley Chamber of Commerce PAC
 - T. Ennis, CV Conservation Partnership Alternate PAC
 - S. Carey, Courtenay Resident Representative PAC
 - K. Niemi, Courtenay Resident Representative PAC
 - K. van Velzen, Comox Resident Representative PAC
 - D. Jacquest, Comox Resident Representative PAC
 - R. Craig, Comox Resident Representative PAC
 - A. Munro, BC Shellfish Growers Association PAC
 - J. Steel, Area B Resident Representative PAC
 - L. Aitken, Area B Representative Alternate (observer) PAC
 - M. Lang, Area B Resident Representative PAC
 - C. Davidson, City of Courtenay Engineering (alternate) TAC
 - S. Ashfield, Town of Comox Engineering TAC

ITEM	DESCRIPTION	OWNER
8.1	Call to Order Meeting called to order at 9:00am	Allison Habkirk
8.2	Review of Minutes of Meeting #7 MOTION: To adopt minutes of meeting #7 – R. Craig SECONDED – M. Swift CARRIED	
8.3	K’ómoks First Nation Archaeology Presentation Jesse Morin presented traditional territories of the Salish people, their history and the geographic regions of the different first nation languages.	Jesse Morin
8.4	Break 10:00 – 10:20	

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8.5	<p>LWMP Decision Making Process Presentation Overview and clarification of the TAC/PAC's role in the LWMP process as referred to in the Terms of Reference.</p> <p>Will this group make only one recommendation? - The TAC/PAC will provide at least three recommendations, possibly more. One recommendation for each aspect, being conveyance, treatment and resource recovery.</p> <p>If the TAC/PAC only have one recommendation, can the Sewage Commission (Steering Committee) and CVRD Board say no? - The Sewage Commission makes the final decision, as referenced in the LWMP decision structure presentation and Terms of Reference. The Commission is provided with background information to help support recommendation decisions.</p>	Allison Habkirk
8.6	<p>Treatment Level Assessments Presentation- Technical WSP provided overview of levels of treatment assessment.</p> <p>The upgrades at the wastewater treatment plant will be triggered on flows not on year prescribed based on population projections and will likely be staged. The intent of the TACPAC is to determine the level of treatment at the plant, the actual scheduling of upgrades at the plant will be determined through the master planning process. The population estimates used for this analysis come from the 2016 ISL report. A review of population projections will be completed incorporating the following feedback from the TACPAC:</p> <ul style="list-style-type: none"> • Table 1 in the report shows zero per cent growth for CFB Comox. That will need to be adjusted, Shelly Ashfield can provide those projection numbers. • A review of higher density projections from the Town of Comox that have been completed as part of additional study work, will be reviewed and considered within these population projections. • Universal water metering will likely effect sewage flows, resulting in changes to the staging of future upgrades. <p>Is treatment of odour part of the LWMP? - Sewage plant odour was ranked high in the early evaluation process. - Odour treatment studies are happening in parallel to this process and will be brought forward to the Sewage Commission in early 2020. Odour control upgrades are not a differentiator between the levels of treatment options presented to the TACPAC.</p> <p>Union Bay growth projections and current applications for their effluent discharge into Hart Creek is very concerning to the community. - In parallel to the LWMP, the CVRD are looking at governance implications to convey and treat Electoral Area A wastewater.</p> <p>Why are the site plans presented by WSP quite different from the 2016 ISL report? - Upgrades to the plant can be configured a number of different ways. The site layout will be developed as part of the comprehensive</p>	WSP

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8.6	<p>master plan for the CVWPCC. The presentation is just a comparative cost estimate to determine treatment level.</p> <p>What happens to the biological material captured by the disc filter? How is the final effluent improved?</p> <ul style="list-style-type: none"> - 95 per cent BOD/TSS is removed. That material goes to the solids removal process already in place and carries on to Skyrocket production. <p>For Option 3, when would we bypass the advanced treatment?</p> <ul style="list-style-type: none"> • Advanced treatment will only be bypassed during high flow events, likely one to two per cent of total flow through the plant would be bypassed annually. <p>What is the lifespan of the disc filters?</p> <ul style="list-style-type: none"> • A cloth media filter is replaced once in a while, it is a far lower cost option than membranes. <p>What is the implication to the aquifer from reclaimed water use?</p> <ul style="list-style-type: none"> • An environmental impact study would be required prior to implementation of reclaimed water use for irrigation. At this time, reclaimed water won't be used for irrigation, it would be used in the sewage treatment processing. <p>Why is treatment focused on BOD and TSS?</p> <ul style="list-style-type: none"> • BOD and TSS cause changes to the receiving environment and can cause oxygen deficiency in water and impact higher forms of life. <p>Why the range in the removal of micro plastics for the different options?</p> <ul style="list-style-type: none"> • Relatively new field, still understanding the impact of varying levels of treatment on micro plastics, it is largely based on the performance of the plant. <p>The CVWPCC currently is far below its discharge limit for BOD and TSS and is treating wastewater to the same limits as presented within Option 3 and 4.</p> <p>If Option 2 is selected, it does not preclude the option to add tertiary treatment in the future, if regulations/needs change in future years. Consideration in the site layout as part of the master plan process must be done accordingly to allow such flexibility in the future.</p>	WSP
8.9	Lunch 12:00 – 12:35	
8.10	<p>Treatment Level Assessments Discussion - Financial</p> <p>Significant discussion occurred on the current effluent quality of the plant and the economic and social benefits of addition of disc filter at the plant if the plant currently outputs quality that would be achieved by a filter.</p>	WSP/CVRD

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8.10	<p>For the cost per connection impact analysis, were senior government grants taken into consideration on the assumptions?</p> <ul style="list-style-type: none"> - No the analysis does not take into account grant funding, and presents the worst case scenario for users. <p>Surprised that the cost per connection numbers are so low given the costs provided.</p> <ul style="list-style-type: none"> - The Comox Valley Water Treatment Project went through a similar process, the LWMP process is consistent with that. <p>The meeting discussions did not allow time for the TAC/PAC to make a recommendation. It is suggested to either extend today's meeting by 20 minutes or forward this discussion and decision to a new meeting.</p> <p>MOTION: To adjourn Meeting #8 and have a new meeting in late January to complete decision on levels of treatment. CARRIED</p> <p>The next LWMP meeting will combine further discussion and a recommendation for treatment with resource recovery discussion/recommendation.</p>	WSP/CVRD
8.11	Meeting Adjourned 3:05pm	