



AGENDA

Infrastructure Committee Meeting

Tuesday, January 14, 2025, 6:00 p.m.
Council Chambers, 400 Centre Road, Lions Bay
And Via Zoom Video Conference

Zoom Invite Link: <https://us02web.zoom.us/j/2780145720?omn=83407828646>
To join via phone, dial 778-907-2071 | Meeting ID: 278 014 5720

We are privileged to be meeting and doing work on behalf of the residents of Lions Bay on the traditional unceded territory of the Squamish and Musqueam Nations.

	Pages
1. Call to Order	
2. Adoption of Agenda	
Recommendation:	
That the Agenda of DATE, be adopted	
3. Public Participation	
4. Approval of Minutes of Prior Meetings	
4.1 infrastructure Committee Meeting- November 13, 2024	2
4.2 Infrastructure Committee Minutes November 28, 2024	9
5. Unfinished Business	
<i>refer to discussion and background notes in items 4.1 & 4.2</i>	
6. Reports	
<i>none</i>	
7. Resolutions	
<i>none</i>	
8. New Business	
<i>none</i>	
9. Public Questions and Comments	
10. Adjournment	
Recommendation:	
THAT the Council Meeting be adjourned.	



**INFRASTRUCTURE COMMITTEE MEETING
OF THE VILLAGE OF LIONS BAY
HELD ON WEDNESDAY NOVEMBER 13, 2024 AT 6:00 PM
COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY
AND VIA ZOOM VIDEO CONFERENCE**

MINUTES

In Attendance : Mayor Ken Berry
Councillor Neville Abbott – Chair
Councillor Jaime Cunliffe - via Zoom
Committee Member Anthony Greville – via Zoom
Committee Member Brian Ulrich

Councillor Michael Broughton – left the meeting at 6:50 pm.

Absent with regrets :

Absent : Committee Member Hilary Monfared
Committee Member Mark Ignas

Staff : CAO Ross Blackwell
Director of Operations Karl Buhr

1. Call to Order

The Chair called the Infrastructure Committee Meeting order at 18:03 pm.

2. Appointment of Recorder

ASG was appointed recorder this meeting.

3. Approval of the Agenda

Moved/Seconded

THAT the agenda of November 13, 2024, Infrastructure Committee be adopted as circulated.
CARRIED.

4. Public Questions & Comments

- A. Resident Karen Dyer of *The Watershed* publication made it know she was present and should there be points of community interest she might publish a meeting summary.

5. Approval of Minutes

- A. Infrastructure Committee Meeting Minutes – 08 August, 2024
THAT the Infrastructure Committee Meeting Minutes of August 08, 2024 be approved as circulated.
CARRIED.

6. Business Arising from the Minutes

7. Unfinished Business

23111 – The Asset Management Plan has been circulated to all Committee Members. This item is now considered to be complete.

23113 – The Director of Operations is to issue an index of documents available in the Village Library, and any Committee members who wish to view a particular document can ask the CAO for access to that specific document only.

23121 – This task is to be reviewed under the DOO's report.

24052 – BU has prepared a spreadsheet outlining the options for increased/future water supply. For discussion later in the agenda. This item is now complete.

24072 – BU is still looking for the water quality and quantity reports to assemble an I.C. digital library file.

24073 – It was recommended by the CAO that an annual meeting between the I.C. and A.F.C. be held to ensure recommendations from both committees are properly coordinated to ensure Council receives both practical and consistent messages.

24081 – It was agreed to combine Action Steps 24072 and 24081 into a single outstanding action.

8. New Business

- A. Next Steps - Long-term Raw Water Source (investigation and recommendation).
BU had previously circulated the spreadsheet he has been working on, and further discussion ensued. "Do Nothing" had the highest score, but it was agreed a better descriptor should be "ASAP and Peak Demand Management"
The best options to provide potable water in the event of a major forest fire are either a pipeline from M.V. or wells. The funding for a pipeline would have to come from higher levels of government, which is unlikely to be available.
All Committee members were asked to review the spreadsheet and provide any adjustments to the weighting numbers to BU for collation and resubmission.

B. Director of Operations Updates – See Summary Notes Below.

C. UV Dose - Harvey Creek Water System – Regulators Questions.

The DOO indicated he was contemplating a longer, and more technically detailed discussion that would best be held in a separate, very focused, meeting.

D. Status Update on Last Budget Cycle.

The Public Works Department has filed its budget requests for 2025, and it is incumbent of the I.C. to submit its budget priority recommendations to Council. A meeting of the I.C. will be scheduled for 28 November to prepare its recommendations.

E. ASG - Requests for further discussion re ASAP Options.

These discussions had occurred, and the information requested will be forwarded.

F. UBCM Updates.

The Minister available to Lions Bay at the UBCM suggested our request should be directed to a different Ministry! It is the intention for Council to table a stronger resolution at the 2025 UBCM Meeting, and to the 2025 LMLGA Conference in May. The concern surrounding contaminated water after a forest fire is considered a priority recommendation from Lions Bay to the B.C. Provincial Government.

9. Public Questions & Comments

No public comments or delegation were forthcoming.

10. Adjournment

Moved/Seconded

THAT the Infrastructure Committee Meeting be adjourned.

CARRIED

The meeting adjourned at 21:59.

11. Next Meeting

Next meeting of the Infrastructure Committee was scheduled for November 28 2024.



Discussion and Background Notes

Contributions by : Anthony Greville – via Zoom

Also in attendance : Mayor Ken Berry
Councillor Neville Abbott – Chair
Councillor Jaime Cunliffe - via Zoom
Committee Member Brian Ulrich

Councillor Michael Broughton – left the meeting at 6:50 pm.

Absent with regrets :

Absent : Committee Member Hilary Monfared
Committee Member Mark Ignas

Staff : CAO Ross Blackwell
Director of Operations Karl Buhr

Discussion and Background Notes

Identifier	Description	Responsible	Status
23111	All I.C. members will be provided with a copy of the IMP and the enhanced Asset Management Plan. The document is complicated and requires a dedicated I.C. meeting to fully understand the implications for the Village.	KB/PWM	✓
23112	Convene a February I.C. Round Table Meeting to focus on a 10 and 20 year horizon plan to identify the new and replacement infrastructure requirements and related expenses.	NTA/All	
23113	CAO and/or Council to be asked to allow members of the I.C. to have selective access to the PW document library.	PWM	✓

23117	BU will review the SCADA system on behalf of the I.C. and work with the PWM to up-grade the hardware and software. A Requirements Document is anticipated at mid 2024.	BU/PWM	Partial
23121	HM to assist the PWM in preparing REQ/RFP documentation for estimate and work on water main replacement Creekview Place and for the estimate for Highview Place. HM to assist the PWM and CAO in reviewing submissions once received.	HM/PWM	
24021	Continue to work with the CAC to prepare a joint recommendation to Council with respect to both short term zone water metering and longer term universal metering.	All	✓
24022	Assist the PWM/PWD in any way by providing time and expertise in regards to enabling flow from Alberta Creek to be diverted into the Harvey Creek WTP to supplement our potable treated water supplies during the summer of 2024 and beyond.	All	✓
24044	NTA to contact Staff to gain access to the 2015 water supply and tank fill time data and analysis and allow for joint review of improved real time data in 2024.	NTA	
24052	The potential for raw water shortages in 2024, and the possibility for compromised raw water quality after a forest fire necessities the Village has a full contingency plan for an alternative raw water supply. HM is to prepare a spreadsheet outlining the pros and cons of all the options to allow the I.C. to engage in a full discussion and recommendation to Council at a later date.	BU	✓
24072	BU requested that all water quantity and quality reports (Wells, water analyses etc.) be forwarded to him so a library, with everything in one place, can be maintained.	All	
24073	In light of discussion at the 03 July Finance and Audit Committee Meeting, the documents relating to asset management and asset replacement funding deficiencies need to be up-dated and presented to the F & A C, the CAO and staff and the Village as a whole. This should be an early Fall project for this group.	All	
24081	BU to set up and manage a Google Drive (or similar) to manage the water quality data as it is collected.	BU	
24111	Committee Members to review the Lions Bay Long Term Water Supply Strategy spreadsheet and provide any weighting adjustments to BU.	All	
24112	The I.C. should provide direction and support to Staff I order for the Village to prepare an Active Transport Plan.	HM	

	Coordinating same with the Climate Action Committee should be evaluated.		
24113	ASG to work with the DOO and VCH to revise the ENSuRe trigger points and guidelines recommendations.	DOO/ASG	

NOTES:

ASAP : The DOO showed images from the ASAP installation and commissioning as well as images from the 18 - 20 October storm event in Lions Bay. Currently, the line from Alberta Creek to the Oceanview Tank that supports the Harvey Creek WTP can carry 110 usgpm. However, the pump has a maximum capacity of 50 usgpm, which can allow for an increased volume if the pump is twined. At the lowest flow period Alberta Creek could supply 75 usgpm, allowing for a “slow start” pump start up protocol. During the October storm event, the volume of water in Alberta Creek rapidly increased from 100 usgpm to over 1,000 usgpm, and quickly retreated to 180 usgpm. Of more interest was the decline and recovery of the creek water quality. The rapid improvement suggests Alberta Creek is somewhat spring sourced, which may well allow for increased usage should Harvey Creek and Magnesia Creek become unavailable due to ENSuRe, or other high turbidity events.

ENSuRe : While the ENSuRe trigger points are acceptable, the VoL will have to work with VCH to ensure the protocol is approved by VCH. Additionally, there needs to be some re-programming of the control systems to ensure both feed pumps shut down as well as the UV lamps and associated valving. Provision needs to be made to account for VU lamp quartz sleeve fouling that might trigger a low UVT when NTU is still satisfactory. There is a need to provide a full system shut down protocol.

Water Storage Tank Fill Cycles : The DOO offered that the fill level control points for the water storage tanks were not optimally set. To prevent “stale water” during low demand season the set points have been small, but this is causing UV lamp fatigue due to short and constant “on and off” cycles. A lower set point in the storage tank reservoirs will reduce the wear on the UV lamps.

Capital Projects Options : The DOO is recommending that MAGIC ((Magnesia Intake Cutout) be budgeted for 2025 and WHIRL (Weir Height/Inclination Realign) be postponed until 2026. The recommendation is to upgrade the Magnesia Creek in-take to be consistent with the successful application at Harvey Creek. During the winter months, the Magnesia Creek intake is off line, often more frequently than it is on-line. Improvements are required in the near future to maintain a winter supply of water through the Magnesia Creek systems.

Sunset Trailhead Toilet Recommendation : The DOO is recommending a toilet facility at the Sunset Trailhead (required to reduce the potential for E. Coli contamination in the watershed) be one that accommodates trucking out of the waste volumes. This should be budgeted for by Council. A drainage field, such as a septic field, is not appropriate for an outhouse toilet system since there is no wash water from baths, showers and sinks etc., to dilute the organic waste making it “septic friendly”.

Translink Bus Shelter : As a courtesy, the DOO outlined the Translink sponsored Bus Stop options. Translink is being very cooperative, and including bicycle access into the design options. There is another L.B Committee looking at MOTi and parking etc., but the expectation is that any infrastructure upgrades will be brought before the I.C. prior to making a recommendation to Council.

SCADA Up-Grades : The DOO reported his office continues to spend the allocated \$205,000 on SCADA and other process control initiatives. The project will continue into 2025, with process control protocols being highly prioritized.

Of particular interest is the planned introduction of UVT meters at the two water treatment facilities, which will require SCADA tie-ins and operation.

In-Line Chlorine Analyser : The DOO indicated the in-line continuous chlorine analyzer at the Kelvin Grove WWTP should be on line and functioning by 15 December. This location was chosen for trial purposes as it is one of the furthest, and lowest use connections in the Village. In theory, the residual chlorine level at this location should be the lowest in the Village, (assuming there are no leaks or cross connections at other locations). If the chlorine residual is 0.2 mgL^{-1} at the K.G. WWTP, then it is likely greater elsewhere. If the chlorine residual is greater than 0.4 mgL^{-1} at the K.G. WWTP then the applied dosage at the WTP can be reduced accordingly.

It is hoped (anticipated?) this chlorine analyzer will experience a successful trial and will be the first of several placed at the water plants and throughout the Village water distribution system.

Bridge-ends remediation project : The DOO reported that he is in negotiations with a contractor to expose the bridge ends at two bridges to conduct an initial evaluation. What might (or might not) happen subsequently will be determined once the evaluation is complete. The work required might be extensive, but it also could be minor if only a little surface corrosion is detected.

The DOO is also planning on a re-paving contract for in front of the Fire Hall; to be coordinated with the renewal of the roadway marking activities.



**INFRASTRUCTURE COMMITTEE MEETING
OF THE VILLAGE OF LIONS BAY
HELD ON THURSDAY, NOVEMBER 28, 2024 AT 6:00 PM
COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY
AND VIA ZOOM VIDEO CONFERENCE**

MINUTES

In Attendance : Mayor Ken Berry
Councillor Neville Abbott – Chair
Committee Member Anthony Greville – Via Zoom
Committee Member Brian Ulrich

Councillor Michael Broughton – at 18:04
Committee Member Mark Ignas – Via Zoom - at 18:40 (after being called).
Committee Member Hilary Monfared – Via Zoom – at 19:08 (after being called).

Absent with regrets :

Absent : Councillor Jaime Cunliffe

Staff : Director of Operations Karl Buhr

1. Call to Order

The Chair called the Infrastructure Committee Meeting order at 18:00 pm.

2. Appointment of Recorder

ASG was appointed recorder this meeting.

3. Approval of the Agenda

Moved/Seconded

THAT the agenda of November 28, 2024, Infrastructure Committee be adopted as amended.

Amendment;

CARRIED.

4. Public Questions & Comments

No public comments or delegation were forthcoming.

- A. Resident Ron McLaughlin asked about an opportunity to obtain full funding for water metering in Lions Bay. NTA responded that such an opportunity does exist, and Lions Bay, after some positive indications, will apply.

- B. Resident Marek Sredzki spoke at a later point in the meeting. Mr. Sredzki commented on the desalination option to secure increased raw water supplies into the future. Mr. Sreszki feels desalination is not the most cost effective option; instead is would like to promote the drilling of wells in the Village for peak shaving supplies. Mr. Sreszki also feels bringing in water from Metro Vancouver’s SCFP facility is a “pipe dream” option (no pun intended!).

5. Approval of Minutes

There were no minutes from previous meetings presented to approve.

6. Business Arising from the Minutes

There was no Business Arising from the previous minutes to discuss.

7. Unfinished Business

All unfinished Business will be addressed at the 14 January, 2025 Meeting.

8. New Business

- A. Meeting Calendar for 2025.

It was the feeling of the meeting the I.C. is flexible and will work around Council Meetings as a whole. In general, a preference was expressed for the second Tuesday of the month; meeting time to continue to be 6:00 pm.

- B. Next Steps - Long-term Raw Water Source (investigation and recommendation).

BU presented an updated water supply spreadsheet, which included adjusted weightings for each potential source and parameter. Each was reviewed and discussion centred on each source and treatment option. See the notes below for a summary.

BU is to further classify each raw water source and treatment option in terms of capital costs and operating costs to assist in the evaluation process.

- C. Infrastructure Projects Recommendation to Council for 2025 Budget Year.

A short discussion on up-dating the 2024 budget recommendations ensued. NTA to update the recommendations, based on our discussion, and to support the requests of the DOO as outlined below, and deliver same to the CoW Meeting, scheduled for 03 December, 2024.

- D. Director of Operations updates.

The DOO reviewed the 2025 Budget requests from the PWD. Included in the discussion was a status review of those items recommended by the I.C. for consideration in 2024. See below in the Notes section for further details.

9. Public Questions & Comments

No public comments or delegation were forthcoming.

10. Adjournment

Moved/Seconded

THAT the Infrastructure Committee Meeting be adjourned.

CARRIED

The meeting adjourned at 20:15.

11. Next Meeting

Next meeting of the Infrastructure Committee was scheduled for January 14 2025.



Discussion and Background Notes

Contributions by : Anthony Greville – via Zoom

Also in attendance : Mayor Ken Berry
Councillor Neville Abbott – Chair
Committee Member Brian Ulrich

Councillor Michael Broughton – at 18:04
Committee Member Mark Ignas – Via Zoom - at 18:40 (after being called).
Committee Member Hilary Monfared – Via Zoom - at 19:08 (after being called).

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Absent : Councillor Jaime Cunliffe

Staff : Director of Operations Karl Buhr

Discussion and Background Notes.

Identifier	Description	Responsible	Status
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23117	BU will review the SCADA system on behalf of the I.C. and work with the PWM to up-grade the hardware and software. A Requirements Document is anticipated at mid 2024.	BU/PWM	Partial
23121	HM to assist the PWM in preparing REQ/RFP documentation for estimate and work on water main replacement Creekview Place and for the estimate for Highview Place. HM to assist the PWM and CAO in reviewing submissions once received.	HM/PWM	
24044	NTA to contact Staff to gain access to the 2015 water supply and tank fill time data and analysis and allow for joint review of improved real time data in 2024.	NTA	

24072	BU requested that all water quantity and quality reports (Wells, water analyses etc.) be forwarded to him so a library, with everything in one place, can be maintained.	All	
24073	In light of discussion at the 03 July Finance and Audit Committee Meeting, the documents relating to asset management and asset replacement funding deficiencies need to be up-dated and presented to the F & A C, the CAO and staff and the Village as a whole. This should be an early Fall project for this group.	All	
24081	BU to set up and manage a Google Drive (or similar) to manage the water quality data as it is collected.	BU	
24111	Committee Members to review the Lions Bay Long Term Water Supply Strategy spreadsheet and provide any weighting adjustments to BU.	All	✓
24112	The I.C. should provide direction and support to Staff I order for the Village to prepare an Active Transport Plan. Coordinating same with the Climate Action Committee should be evaluated.	HM	
24113	ASG to work with the DOO and VCH to revise the ENSuRe trigger points and guidelines recommendations.	DOO/ASG	
24114	BU to further up-date the Long Term Water Supply Strategy spreadsheet to separate out CAPX and OPX costs for each raw water source/treatment option to assist in the evaluation process.	BU	
24121	ASG to source a quotation for the installation of a sodium hydroxide feed system suitable for pH adjustment (corrosion control) in the two water distribution systems.	ASG	

NOTES:**Long Term Water Supply Strategy :**

Demand - There was some discussion as to whether the Committee is looking to evaluate the options for full replacement volumes or simply peak shaving alternatives. The conclusion was that the Committee should evaluate all raw water sources and treatment options in the basis of both. For the purposes of this study, daily demand is set at 300,000 usgpd ($1,135 \text{ m}^3\text{d}^{-1}$), with a peak demand of an additional 100,000 usgpd ($380 \text{ m}^3\text{d}^{-1}$).

For the future, assuming 20% losses due to leakage, a population of 1,500 individuals (to allow for 10% growth) and a daily consumption of 500 LPPPD (25% above the National average) daily demand can be expected to be 900,000 litres per day, or $900 \text{ m}^3\text{d}^{-1}$, or 240,000 usgpd.

Filtration Expectation – The most recent VCH inspection report emphasised the need for Lions Bay to document achievement of 2 open (of 4 total) filtration exemption conditions. The DOO suggested that filtration could yet become compulsory in Lions Bay, (if the Village remains non-complaint for a further 5 years) but that at current standards, the regulator accepts current operations.

Use of Harvey and Alberta Creek water sources year round – The Magnesia Creek intake continues to be plugged more often than it is open during the winter months. Harvey and Alberta Creeks, could, with pump twinning, supply the Village Demand during the lower flow winter month season. The benefit is that only 1 filter plant would be required as the high turbidity events tend to occur during the low demand winter months.

For this scenario to be a viable option, allowing Magnesia Creek to be a stand-by option, water metering would be required to ensure all leaks (within reason) are repaired, ensuring minimal water demand.

Harvey Creek, Alberta Creek, and Village located wells - This raw water source could indeed be a reasonable option to pursue. The water volume for wells located within the Village would be limited, but, nonetheless, such volumes could provide significant peak shaving comfort.

It may be necessary to consider well water treatment in the event iron, manganese or other metals loading are high, and the wells would need to be classified, probably as GARP requiring disinfection. The run off from septic tanks, present throughout much of the Village, could cause pathogens to be in the groundwater, necessitating the well water to be pumped up to the existing disinfection stations. As with the Harvey and Alberta Creek option, full water metering would be necessary for this option to be viable.

Pipeline from the Metro Vancouver SCFP facility – this option would clearly be very attractive; an abundant source of fully treated water. However, the politics of purchasing water from one jurisdiction (M.V.), and transferring it through three jurisdictions (M.V. – WV – Crown/Province) make this difficult to manage. Finally, this option would have to be fully funded by the Province, as the cost of a 9 Km pipeline through a forest, and across unstable steep mountain terrain (wildfires and earthquake) would be prohibitive for the VoL. This option is highly unlikely to be in place in the next 5 – 10 years!

Desalination – Desalination is always on the table, and indeed some waterfront land has been acquired to facilitate a desalination plant. However, there are significant costs associated with desalination, both capital and operating costs, including the electrical processing costs, and the electrical pumping costs. Finally, and probably, most consequently, the reject brine disposal costs would be significant. While there is plenty of raw water in Howe Sound, available at a reasonable initial price, capital and operational costs suggest desalination, could, at best, be a peak shaving option.

Surrounding Creeks Supply – An option to be considered for summer time demand only. The clear success of the Alberta Creek project in 2024, does prove there are benefits available to sourcing raw water from the immediate vicinity.

Speciality Barge – One option, lower on the priority list, would be to purchase water in bulk from SCFP and barge it, via a bladder, to some handling facility/small dock in L.B. Obvious shortcomings include real volume (1 MLD demand) stale water and maintaining a stand-by pumping station at this dock. However, as an emergency option for a few days, some sort of contingency plan might be worth an initial investigation.

ASAP and Leak Demand Management – A “Do Nothing” review scored best. However, this is not really a do nothing option, but rather, maintain vigilance on leakage and repairs, manage ASAP and Peak Demand. This management tool assisted greatly in 2024, and a constant supply of raw water that met demand was testament of good management protocols from and by staff.

A key contributing factor was the focus on leakage, both public and private side. Some significant leaks were found on both sides of the distribution system, and this water demand reduction avenue must be pursued aggressively in 2025 and beyond.

Zone metering is imperative to this endeavour, and, if full funding can be sourced, then individual connection metering would be a significant benefit to leak detection and demand reduction.

Continued leak detection and repair, continued local surface water utilization, and possible supplementation with well water should ensure supply and demand balances. Water filtration will still likely be required for the surface water sources, and metals treatment/disinfection may be required for the well water sources.

Director of Operations updates.

Bridge-ends remediation project : The DOO reported that initial work has begun on 3 bridge support analysis; Cross Creek, Bayview Place and Bayview Road over Alberta Creek. The bridges are showing signs of failure due to water pooling, enhanced by high levels of chloride in the run-off water during the winter, after salting of the roads. The supporting rebar is to be inspected for corrosion. Should the inspection be positive, the asphalt will be remilled and reset to prevent future pooling of water.

The 2024 budget allowance for this project was set at \$300 K; the inspection for the first 3 bridges will be approximately \$100 K, setting aside the balance of \$200 K for the remaining 5 bridges and the blacktop of the Crystal Falls Road.

SCADA : The 2025 budget envisages NTU and UVT meters at both intakes (UVT analyzers are approximately \$20 K each) and in-line chlorine analyzers at 3 strategic locations. An additional \$95,000 has been requested to supplement the \$205,000 already funded, about \$50,000 committed. Pressure transducers at both intakes are on-line to produce streamflow measurements for what use that proves to be; ENSuRe will be programmatically implemented as a routine process control parameter. The Mountain control valve will be upgraded to SCADA control to provide fast fire flow service. MAGIC II has not been included in the budget request for 2025.

It was emphasised that SCADA up-grading will have to occur on a continuous basis year upon year. Much of this work can be accomplished internally, but there still needs to be a budget allocation, even if it is not spent on external consultants.

Water Distribution Line Replacement (CHUBB.3) : The top priority budget request from the DOO to Council is the replacement of the water distribution line between Alberta Creek on Bayview Road down to the Fire Hall/Community Complex. This is a nominal 8” line that has been subject to internal corrosion, and the tubercles have reduced the effective diameters to as little as 2” in places.

This level of corrosion can result in several concerns, including, leaching of toxic metals into the potable water supply, harmful bacteria (E.coli.) held in the corrosion tubercles which can be released into the water supply as a function of a change in water velocity or pressure, taste, odour, colour and staining concerns and an increase in secondary disinfection demand.

The reduced water line diameter can restrict water flow, which could impact the ability to fight house fires; indeed it is thought there is now inadequate fire flow to the three strata units below the Community Centre.

The I.C. supports this \$1.1 mm budget request.

Finished Water pH : As a compliment to the corrosion experienced in the C.I. line noted above, the need to adjust the pH of the finished water, both to meet the GCDWQ requirements and to control corrosion, has moved up the priority list. Our VCH inspector has also flagged low pH as a concern. The DOO asked the I.C. to use their contacts to quickly obtain a budget price for a liquid sodium hydroxide feeder suitable for the purpose at both intakes. pH adjustment of the finished water is on the DOO Budget Request list for 2025.

Magnesia Creek Intake and Supply Options : Budget request for WHIRL@Mag (Weir Height & Inclination Realignment at Mag) will be deferred until MAGIIC.2 (a powered bypass valve at the Mag Intake) is implemented.

DWIP and CUBB.1 and CHUBB.2 Projects : These three projects are still considered to be important to the physical well being of the Village, however, as in previous years, their competition will require considerable external funding, which is currently unavailable. These three projects will remain on the Budge Request List for 2025, awaiting funding in future years!