METRO VANCOUVER REGIONAL DISTRICT
LIQUID WASTE COMMITTEE

REGULAR MEETING

March 12, 2020
1:00 p.m.
28th Floor Committee Room, 4730 Kingsway, Burnaby, British Columbia

AGENDA

1. ADOPTION OF THE AGENDA

   1.1 March 12, 2020 Regular Meeting Agenda
       That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled
       for March 12, 2020 as circulated.

2. ADOPTION OF THE MINUTES

   2.1 February 7, 2020 Regular Meeting Minutes
       That the Liquid Waste Committee adopt the minutes of its regular meeting held
       February 7, 2020 as circulated.

3. DELEGATIONS

4. INVITED PRESENTATIONS

5. REPORTS FROM COMMITTEE OR STAFF

   5.1 Diving into Sewer Repair (Video)
       Designated Speaker: Peter Navratil, General Manager, Liquid Waste Services

   5.2 Results for 2019 Wipe It, Green Bin It Campaign
       Designated Speakers: Larina Lopez, Division Manager, Corporate Communications,
       External Relations, and Brent Burton, Division Manager, Policy, Planning and Analysis,
       Liquid Waste Services
       That the Liquid Waste Committee receive for information the report dated
       February 27, 2020, titled “Results for 2019 Wipe It, Green Bin It Campaign”.

   5.3 Direct Connections to Regional Liquid Waste Facilities Policy
       Designated Speaker: Peter Navratil, General Manager, Liquid Waste Services

1 Note: Recommendation is shown under each item, where applicable.

March 3, 2020
Liquid Waste Committee
That the GVS&DD Board approve the Direct Connections to Regional Liquid Waste Facilities Policy as presented in the report dated February 18, 2020, titled “Direct Connections to Regional Liquid Waste Facilities Policy”.

5.4 Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020 – Fraser Sewerage Area – PID 013-872-303, Township of Langley
Designated Speaker: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services
That the GVS&DD Board:
   a) give first, second and third reading to the Greater Vancouver Sewerage and Drainage District’s Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020; and
   b) pass, and finally adopt the Greater Vancouver Sewerage and Drainage District’s Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020.

5.5 Manager’s Report
Designated Speaker: Peter Navratil, General Manager, Liquid Waste Services
That the Liquid Waste Committee receive for information the report dated February 14, 2020 titled “Manager’s Report”.

6. INFORMATION ITEMS

7. OTHER BUSINESS

8. BUSINESS ARISING FROM DELEGATIONS

9. RESOLUTION TO CLOSE MEETING
Note: The Committee must state by resolution the basis under section 90 of the Community Charter on which the meeting is being closed. If a member wishes to add an item, the basis must be included below.

10. ADJOURNMENT/CONCLUSION
That the Liquid Waste Committee adjourn/conclude its regular meeting of March 12, 2020.

Membership:
Stewart, Richard (C) - Coquitlam          Ferguson, Steve - Langley Township          Svendsen, Ryan - Maple Ridge
Dominato, Lisa (VC) - Vancouver          Little, Mike - North Vancouver District    Trentadue, Mary - New Westminster
Calendino, Pietro - Burnaby              Loo, Alexa - Richmond                      van den Broek, Val - Langley City
Elford, Doug - City of Surrey            McDonald, Bruce - Delta                  Walker, Darryl - White Rock
Minutes of the Regular Meeting of the Metro Vancouver Regional District (MVRD) Liquid Waste Committee held at 1:01 p.m. on Friday, February 7, 2020 in the 28th Floor Committee Room, 4730 Kingsway, Burnaby, British Columbia.

MEMBERS PRESENT:
Chair, Mayor Richard Stewart, Coquitlam
Vice Chair, Councillor Lisa Dominato, Vancouver
Councillor Pietro Calendino, Burnaby (arrived at 1:31 p.m.)
Councillor Doug Elford, Surrey
Councillor Steve Ferguson, Langley Township
Mayor Mike Little, North Vancouver District
Councillor Alexa Loo, Richmond
Councillor Mary Trentadue, New Westminster
Mayor Val van den Broek, Langley City
Mayor Darryl Walker, White Rock

MEMBERS ABSENT:
Councillor Bruce McDonald, Delta
Councillor Ryan Svendsen, Maple Ridge

STAFF PRESENT:
Peter Navratil, General Manager, Liquid Waste Services
Jerry W. Dobrovolny, Chief Administrative Officer
Genevieve Lanz, Legislative Services Coordinator, Board and Information Services

1. ADOPTION OF THE AGENDA

1.1 February 7, 2020 Regular Meeting Agenda

It was MOVED and SECONDED
That the Liquid Waste Committee adopt the agenda for its regular meeting scheduled for February 7, 2020 as circulated.

CARRIED
2. ADOPTION OF THE MINUTES

2.1 January 16, 2020 Regular Meeting Minutes

It was MOVED and SECONDED
That the Liquid Waste Committee adopt the minutes of its regular meeting held January 16, 2020 as circulated.

CARRIED

3. DELEGATIONS
No items presented.

4. INVITED PRESENTATIONS
No items presented.

5. REPORTS FROM COMMITTEE OR STAFF

5.1 Award of Contract Resulting from Request for Proposal No. 19-194: Construction Services - Burnaby Lake North Interceptor No. 2 – Phase 2 – Open Cut Section
Report dated January 21, 2020 from Roy Moulder, Director, Purchasing and Risk Management, Financial Services and Colin Meldrum, Division Manager, Collection Systems, Project Delivery, Liquid Waste Services, advising the GVS&DD Board of the results of RFP No. 19-194: Construction Services Burnaby Lake North Interceptor No. 2 – Phase 2 – Open Cut Section, and recommending awarding the contract in the amount of up to $16,599,950 (exclusive of taxes) to JJM Construction Ltd.

It was MOVED and SECONDED
That the GVS&DD Board:
   a) approve the award of a contract for an amount of up to $16,599,950 (exclusive of taxes) to JJM Construction Ltd. resulting from Request for Proposal No. 19-194: Construction Services Burnaby Lake North Interceptor No. 2 – Phase 2 – Open Cut Section;
   b) authorize the Commissioner and the Corporate Officer to execute the required documentation.

CARRIED

5.2 Manager’s Report

It was MOVED and SECONDED
That the Liquid Waste Committee receive for information the report dated January 24, 2020 titled “Manager’s Report”.

CARRIED
6. INFORMATION ITEMS
No items presented.

7. OTHER BUSINESS

7.1 Iona Island Wastewater Treatment Plant Project Definition Update
Members were provided with a presentation on potential build scenarios and options for the Iona Island Wastewater Treatment Plant Project on the following:
- Project Definition Overview
- Liquid and Solids Treatment Options
- Overview of New Plant Layouts
- Strategies for New Plant
- Park Integration and Habitat Enhancement
- Resource Recovery Opportunities
- Community Engagement
- Project Timeline and Next Steps

1:31 p.m. Councillor Calendino arrived at the meeting.

Members inquired on consultation with local First Nations, senior levels of government and Port of Vancouver, seismic vulnerability and climate mitigation, and resource recovery pilot projects and future implementation.

2:25 p.m. Chair Stewart left the meeting and Vice Chair Dominato assumed the Chair.
2:30 p.m. Chair Stewart reassumed the Chair.

Presentation material titled “Iona Island Wastewater Treatment Plant – Project Definition Update” is retained with the February 7, 2020 Liquid Waste Committee agenda.

It was MOVED and SECONDED
That the Liquid Waste Committee receive for information the February 7, 2020 presentation titled “Iona Island Wastewater Treatment Plant – Project Definition Update”.

CARRIED

8. BUSINESS ARISING FROM DELEGATIONS
No items presented.

9. RESOLUTION TO CLOSE MEETING
No items presented.
10. ADJOURNMENT/CONCLUSION

It was MOVED and SECONDED That the Liquid Waste Committee conclude its regular meeting of February 7, 2020.

CARRIED (Time: 2:48 p.m.)

____________________________  ____________________
Genevieve Lanz, Richard Stewart, Chair
Legislative Services Coordinator

36857012 FINAL

Minutes of the Regular Meeting of the MVRD Liquid Waste Committee
held on Friday, February 7, 2020 Page 4 of 4
Liquid Waste Committee
To: Liquid Waste Committee

From: Larina Lopez, Division Manager, Corporate Communications, External Relations

Date: February 27, 2020  
Meeting Date: March 12, 2020

Subject: Results for 2019 Wipe It, Green Bin It Campaign

RECOMMENDATION
That the Liquid Waste Committee receive for information the report dated February 27, 2020, titled “Results for 2019 Wipe It, Green Bin It Campaign”.

EXECUTIVE SUMMARY
As a region, an estimated $2.7 million is spent every year to deal with the impacts of fats, oils and grease (FOG) in the sewer system. The 2019 Wipe It, Green Bin It campaign asked residents to put FOG in their green bins, instead of down their sinks. The campaign used region-wide tactics and targeted seven problem hot spot areas in the cities of Coquitlam, Delta, Richmond and the Township of Langley. The campaign ran prior to Thanksgiving and Christmas with updated creative materials, a media buy (tailored to hot spots where possible), outreach in grocery stores, and FOG monitoring in hot spot areas. Post-campaign results were positive, with digital tactics reaching 432,000 people, 7499 social media engagements, 156,000 video views, 6000 website visits and 1,300 residents engaged through outreach teams. This approach will continue in 2020. Members have been invited to identify problem FOG areas for the 2020 campaign.

PURPOSE
To update the Liquid Waste Committee on the results of the 2019 Wipe It, Green Bin It campaign to reduce residents’ disposal of FOG into the sewer system.

BACKGROUND
The disposal of household FOG into the wastewater system is an ongoing issue that costs the region at least $2.7 million yearly. Fats, oils and grease can clog sewers, leading to overflows into homes, businesses and the environment, and associated maintenance and repair costs. Since 2017, Metro Vancouver has conducted regional Wipe It, Green Bin It campaigns asking residents to dispose of grease in their green bin instead of down their sink. In 2019, the campaign included both region-wide approaches and also targeted problem hot spot areas in four municipalities. The campaign also expanded its focus to cover fats and oils, in addition to grease.

This report provides an overview of the main results of the 2019 Wipe It, Green Bin It campaign, as identified in the 2020 Liquid Waste Committee Work Plan.

2019 FATS, OILS AND GREASE (FOG) CAMPAIGN
The 2019 FOG campaign focused on seven hot spot areas in the City of Coquitlam, City of Delta, Township of Langley and City of Richmond, in addition to regional coverage. The campaign ran in two phases, mainly in the lead-up to Thanksgiving and Christmas (Sept 16 – Oct 27 and Dec 2 – 29). These
periods targeted times of heavier, holiday cooking, which previous campaigns have shown to be an effective time to reach people with FOG-related messaging. Participating municipalities and Metro Vancouver monitored FOG levels at pump stations in hot spots, using a rating scale based on visual assessment. Monitoring began in advance of the campaign to establish a baseline.

**Campaign Elements**

Creative materials were updated to show either grease, oil or dairy dripping into a drain, instead of the frying pan shown in previous years (see Attachment). Focus group testing showed that seeing the drain helped people quickly connect their behaviour to FOG impacts.

The campaign used a combination of tactics targeted to both the entire region and to specific hot spot areas. Region-wide tactics included: online banner ads, YouTube, social media advertising and Google search. Tactics for hotspots were tailored to each area (within a mile of each catchment area), and where possible, specifically referenced the municipality. These included:

- online banner ads, YouTube, social media and Google search;
- posters in transit shelters;
- messaging in grocery store check-outs and on carts;
- tailored neighbourhood mail-out, with content and URL specific to each municipality; and
- in-person outreach in grocery stores in six hot spot locations to engage residents with campaign messaging and branded spatulas.

Municipalities also used their own channels to support the campaign, such as electronic billboards, e-newsletters and social media.

**Evaluation**

Campaign results were assessed using FOG monitoring data from pump stations, media buy and website results, and outreach team reports. Previous region-wide survey methods were impractical for the smaller hot spots areas, so outreach teams instead registered willing residents who received a spatula in each hot spot area for a follow-up survey.

Main Findings:

- **FOG levels**: Monitoring at pump stations generally showed a decrease in FOG levels after the campaign launch. More data is needed to better confirm trends.
- **Reach and engagement**: Digital tactics reached over 432,000 people, generating 7,499 social media engagements and over 156,000 video views. Social media was a key driver of traffic to the campaign website.
- **Outreach**: Outreach teams engaged over 1,300 residents in hot spots with campaign messaging, distributing 900 spatulas. This tactic provided a useful at-home tool to reinforce the desired behaviour. Of those who registered to take a survey, half said they learned something new and had spoken to someone else about FOG disposal. Most (81%) said they were more likely to correctly dispose of FOG.
- **Website visits**: Over 6,000 people visited the campaign website, driven mainly through social media. Time spent on the website was quite high (nine minutes per person for the Thanksgiving phase and six minutes per person for Christmas), which indicates visitors were engaging with the content.
Overall, the campaign was successful in reaching residents in the smaller hot spot areas. Given the new hot spots approach used for 2019, results are not comparable to previous regional campaigns.

Lessons Learned
Reaching residents in smaller hot spot areas presented some challenges, but also allowed testing of highly targeted approaches. Tailoring messaging to individual municipalities does require additional effort, but can generate higher levels of engagement from residents in those areas. It may be worthwhile to tailor materials for an entire municipality in 2020 to expand the campaign’s reach for a similar level of effort. Registering spatula recipients for a follow-up survey allowed for evaluation in hot spot areas and will be considered for 2020. Using a visual assessment and rating scale to monitor FOG levels in hot spot area pump stations generally yielded useful data and was simple enough that it did not require much extra time from operations staff. This method will be adjusted for 2020 to further simplify certain requirements.

Approaches for 2020
The hot spots approach, combined with a regional component, will be continued for 2020. Municipalities have been invited to identify problem FOG areas to be considered for the 2020 campaign. Priority will be given to areas with significant FOG issues; it is difficult to assess progress when FOG levels are low. The campaign will use similar evaluation methods and will aim to measure FOG build-up in pump stations more consistently over a long period to better assess trends and results.

ALTERNATIVES
This is an information report. No alternatives are presented.

FINANCIAL IMPLICATIONS
The 2019 Wipe It, Green Bin It campaign had a budget of $170,000 supported under the 2019 Liquid Waste Communications Program Budget, managed by the External Relations department. A budget of $170,000 has been allocated for the 2020 campaign.

CONCLUSION
Metro Vancouver and its members spend an estimated $2.7 million every year to deal with the improper disposal of FOG, which can lead to sewer clogs and overflows into homes, businesses and the environment. The 2019 Wipe It, Green Bin It campaign asked residents to dispose of FOG into their green bins and not down their sinks. The campaign ran in the lead-up to Thanksgiving and Christmas (Sept 16 – Oct 27 and Dec 2 – 29), using updated creative materials to also address fats and oils, as well as grease. In addition to region-wide approaches, the campaign focused on seven problem hot spot areas in the City of Coquitlam, City of Delta, Township of Langley and City of Richmond. Municipalities measured FOG build-up at pump stations in these areas, using a rating scale based on visual assessment. Campaign elements included: promotion on social media, YouTube videos, online banner ads, Google search, advertising and in-person outreach in grocery stores, transit shelter posters, targeted direct mail and a campaign website. Where possible, tactics were tailored to each hot spot, specifically referencing the municipality. Overall, the campaign was successful in reaching residents in smaller hot spot areas and data showed that FOG in pump stations
generally decreased after the launch of the campaign. The hot spots approach, combined with a regional component, will be continued for 2020. Municipalities have been invited to identify problem areas for inclusion in this year’s campaign.

**Attachment:**
Sample of Campaign Materials

**Reference:**
[What to do with fats, oils and grease (campaign webpage)](#)

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Sample of Campaign Materials

Sample of updated creative materials (poster, targeted mail-out) and social media

Outreach and advertising in grocery stores in hot spot areas

Online banner ad

Grease Clogs Pipes | Metro Vancouver

Putting fats, oils and grease down the sink can cause a real pain in the drain. Wipe small amounts on plates, pots and pans into your green bin before washing. Save your Drain.

Disposal Tips. Common Grease Myths

Liquid Waste Committee
RECOMMENDATION
That the GVS&DD Board approve the Direct Connections to Regional Liquid Waste Facilities Policy as presented in the report dated February 18, 2020, titled “Direct Connections to Regional Liquid Waste Facilities Policy”.

EXECUTIVE SUMMARY
The GVS&DD does not have a Board-approved policy regarding direct connections to regional liquid waste facilities. Staff presented a proposed policy addressing direct connections to the Liquid Waste Committee (LWC) on November 14, 2019. At that meeting, the LWC requested revisions to clarify language and facilitate more meaningful progress towards removing private property connections from the regional sewer system. Staff developed a revised policy addressing this direction, and presented this revised policy to the Regional Engineers Advisory Committee (REAC) on February 7, 2020 and to the Regional Administrative Advisory Committee (RAAC) on February 20, 2020. Both REAC and RAAC endorsed the revised policy at their respective meetings.

PURPOSE
To seek the GVS&DD Board’s approval of the attached policy (“Policy”) addressing direct connections to regional sewers.

BACKGROUND
The GVS&DD has a long-standing practice of only allowing direct connections from member jurisdictions to regional sewerage facilities. Exceptions to this practice, allowing direct connections from private properties to regional facilities, have been considered in consultation with municipal members when no other viable options exist. A policy is recommended to provide consistency and guidance when preparing and reviewing connection applications.

Following municipal consultation through REAC and RAAC, a report was presented to the LWC in 2019 requesting approval of a policy on direct connections. The LWC requested improved clarity and a revised connection distance that better reflected regional interests. In February 2020, REAC and RAAC both endorsed a revised policy that applied to regional pipes greater than 450 mm diameter and with a connection distance of 75 m phased in over three years. The three-year phase-in will allow member jurisdictions time to implement municipal programs to address potential impacts to residents.

This report presents the Policy, as endorsed by both REAC and RAAC, for consideration by the GVS&DD Board.
DIRECT CONNECTIONS POLICY
Member municipalities are responsible for collecting liquid waste through a network of local collection pipes. The local pipes connect to the GVS&DD regional system for collection and treatment. Ideally, private properties are connected to the municipal networks for the following reasons:

- Large regional sewers are often designed to operate under high flows and pressure. Unfavourable conditions such as surcharging, backwatering, malodourous air, corrosive flows, and unfavourable air pressure conditions can increase the risk of health and safety issues for private properties with a direct connection to a regional sewer.
- Failures involving connections to GVS&DD’s large sewers are typically expensive and difficult to repair due to high flows and pressure.

Historically, some member municipalities have requested direct connections to the regional sewer system to service private properties if municipal sewers were not available nearby. Metro Vancouver has assessed those requests on a case-by-case basis. The proposed Policy confirms that all new private direct connections to regional sewers would be considered temporary, and would be subject to removal under certain conditions. The Policy also clarifies that no new connections to a regional sewer will be considered from any non-member of the GVS&DD without Board approval.

POLICY HIGHLIGHTS
The proposed Policy will apply only to regional sewer pipes greater than 450mm nominal diameter. Applications for private direct connections to regional pipes that are 450mm or less in diameter will continue to be assessed on a case-by-case basis; these smaller regional sewers could be considered for transfer of ownership to the local jurisdiction where reasonable and upon mutual agreement.

Types of connections
The Policy defines types of connections as follows:
1. Municipal Direct Connection – a typical connection from a municipal sewer system to the GVS&DD sewer system approved by the GVS&DD;
2. Private Direct Connection – a connection from a private property to the regional sewer system that was approved by the GVS&DD prior to adoption of this Policy; and
3. Temporary Private Direct Connection – a connection from a private property to the regional sewer system approved by the GVS&DD after this Policy is adopted.

Municipal Direct Connections
The GVS&DD will continue its historical practice of considering municipal direct connections as outlined in the proposed Policy.

Private Direct Connections
Existing private direct connections would be eligible to remain, and be subject to removal only upon replacement of the existing connection.

Temporary Private Direct Connections
The proposed Policy establishes the maximum distance from a property to the nearest municipal sewer that would allow consideration for a private direct connection to a regional sewer. To allow
municipalities an opportunity to consider implementing programs to assist property owners with private connections, the proposed Policy provides a phased implementation schedule as follows:

- Upon adoption of the Policy – 15 m;
- January 1, 2021 – 35 m; and,
- January 1, 2022 – 75 m.

If it is not feasible for a private property to connect to a municipal facility, then a member municipality may apply for a temporary private direct connection to a regional facility on behalf of the property owner. The application must include an engineering report that demonstrates and recommends that a temporary direct connection to a GVS&DD facility is the only feasible option.

ALTERNATIVES

2. That the GVS&DD Board receive for information the report dated February 18, 2020, titled “Direct Connections to Regional Liquid Waste Facilities Policy”, and provide alternate direction.

FINANCIAL IMPLICATIONS
The costs related to direct connections are borne by the property owners and/or local jurisdiction. Risk associated with flooding of private property is higher when connected to large diameter regional sewers. While not readily quantifiable, limitations on new direct connections from private property are expected to result in reduced financial risk over the long term.

CONCLUSION
Currently, no GVS&DD Board-approved policy exists regarding requests for direct connections to regional liquid waste facilities from municipal and other properties. The GVS&DD has a long-standing practice of only permitting member jurisdictions to make direct connections to regional facilities. Requests for exceptions to this practice have been considered in cases where a private property requires a new connection and a municipal sewer is not available. The proposed Policy is intended to formalize the process for direct connection requests to regional facilities, including who may apply, the criteria to do so, and ownership and maintenance responsibilities.

The proposed Policy defines the terms and conditions under which temporary private direct connections may be considered by Metro Vancouver, and also the conditions under which existing private direct connections or future temporary direct connections must be removed. The member jurisdiction must own and accept all responsibility for the portion of the direct connection extending from a private property to the regional sewer system.

The proposed Policy, endorsed by both REAC and RAAC, reflects direction from the LWC to better protect regional interests. It also incorporates advice from REAC to phase-in the policy over 3 years, and to apply only to regional pipes greater than 450 mm nominal diameter where risks associated with direct connections from private property are higher. As such, staff recommend Alternative 1.
Attachment

Direct Connections to Regional Liquid Waste Facilities Policy

Reference
1. Transfer of Sewerage, Drainage and Water Facilities Policies item E2.1

36994440
DIRECT CONNECTIONS TO REGIONAL LIQUID WASTE FACILITIES

Effective Date: 
Approved By: GVS&DD Board

PURPOSE
To establish the process and criteria for direct connections to Metro Vancouver’s regional liquid waste facilities and to define subsequent ownership, financial and maintenance responsibilities. This Policy applies only to facilities used in the management of sanitary sewage or combined sewage (e.g. drainage facilities are excluded).

DEFINITIONS
“Board” means the Board of Directors of the Greater Vancouver Sewerage and Drainage District (GVS&DD);

“Legacy Private Direct Connection” refers to a Private Direct Connection approved by the GVS&DD in association with the granting of a Statutory Right of Way (SRW);

“Member Jurisdiction” means a member of the GVS&DD;

“Metro 2040” means the Regional Growth Strategy Bylaw (Metro Vancouver 2040), as amended from time to time;

“Municipal Direct Connection” means a direct connection from a sewer or force main owned by a Member Jurisdiction which is designed to convey sewage from one or more properties to a GVS&DD sewer facility;

“Non-Member” means a local, Provincial, Federal, or First Nation government that is not a Member Jurisdiction;

“Non-Pressurized” means that a sewer facility does not experience water levels in excess of the top of the conveying pipe to which the connection is proposed;

“Private Direct Connection” means a direct connection from a Private Property to a GVS&DD sewer approved by the GVS&DD prior to the effective date of this Policy;

“Private Property” means private property contained within the boundaries of a Member Jurisdiction;

“Property” means Federal, Provincial, First Nation Lands, municipal, or private property within the sewerage area service boundaries of the GVS&DD; and,
“Temporary Private Direct Connection” means a private direct connection approved by the GVS&DD on a temporary basis on or after the effective date of this Policy.

POLICY
This Policy will apply to GVS&DD sewer pipes greater than 450 mm nominal diameter. All aspects of the Policy will apply immediately except as otherwise noted.

GVS&DD member jurisdictions collect liquid waste from Properties through a network of municipal sewers. The municipal sewers connect directly to the GVS&DD’s regional sewer system which conveys the liquid waste through large pipes for treatment at regional wastewater treatment plants.

Metro Vancouver permits Municipal Direct Connections to GVS&DD facilities from Member Jurisdictions; as per Section 29(1) of the GVS&DD Act, all requests by Member Jurisdictions for connections must be approved by Metro Vancouver. The application process and criteria for a Municipal Direct Connection and a Temporary Private Direct Connection are outlined in the following sections.

Under exceptional circumstances in the past, Metro Vancouver has approved requests from Member Jurisdictions for Private Direct Connections to the regional system. Metro Vancouver does not permit any new Private Direct Connections to GVS&DD facilities. Existing Private Direct Connections are subject to removal under terms and conditions outlined in the following sections.

In the future and under exceptional circumstances, Metro Vancouver may consider approval of new Temporary Private Direct Connections; these connections will be subject to removal under terms and conditions outlined in the following sections.

PROCESS AND CRITERIA FOR A MUNICIPAL DIRECT CONNECTION
Metro Vancouver will only consider an application to connect a municipal sewer to the regional sewer system if the following criteria are met. The Member Jurisdiction must:

- ensure the new serviced area is within a GVS&DD sewerage area and meets the provisions of Metro 2040;
- use the appropriate form, currently Form 35A – Application for Connection – Sewer or Drain, on the Metro Vancouver website to apply for a direct connection to a regional facility; and
- confirm:
  - the connecting sewer is municipally-owned;
  - the connection meets GVS&DD connection requirements;
  - the connection meets the provisions of the GVS&DD Sewer Use Bylaw and related bylaws under the Liquid Waste Regulatory Program; and
  - the member jurisdiction will coordinate and be responsible for the connection work, contractor, and all connection costs.

Metro Vancouver staff will review the application for a Municipal Direct Connection from a regional perspective, including consideration of feasibility and technical considerations (e.g. opportunities to
minimize and/or consolidate connections). As appropriate, an approval letter may be issued with related terms and conditions.

Unless ownership is otherwise noted on drawings, or other documents, the member jurisdiction will own the portion of the connection pipe located on municipal property, or municipal rights-of-way up to a point specified in the GVS&DD connection requirements.

**EXCEPTION TO MUNICIPAL DIRECT CONNECTION – TEMPORARY PRIVATE DIRECT CONNECTION**

To protect regional and private infrastructure, the GVS&DD will not approve any new Private Direct Connections. Regional sewers are typically large diameter pipes that are subject to extremely high flows and pressure. For this reason, and other factors such as malodourous air, corrosive flows, backwatering, and surcharging, Private Direct Connections may cause significant risk to the private property owner. Failures involving connections to GVS&DD facilities are typically expensive and difficult to repair due to the high flows and pressures associated with the regional facility and the inability of GVS&DD to temporarily re-direct very large flows during repairs.

However, if a Member Jurisdiction believes that no feasible municipal sewer facility is available for a Private Property, the Member Jurisdiction may apply to Metro Vancouver for a Temporary Private Direct Connection to a regional facility. The process and criteria for Temporary Private Direct Connections follow.

**PROCESS AND CRITERIA TO APPLY FOR A TEMPORARY PRIVATE DIRECT CONNECTION**

Metro Vancouver will not consider an application for a Temporary Private Direct Connection unless the following process is followed and the following criteria are met.

The owner of the Private Property must first apply to their Member Jurisdiction for a connection to a suitable municipal sewer facility. If a connection to a municipal sewer is not feasible then the Member Jurisdiction must:

- ensure that the applicant’s property is within a GVS&DD sewerage area and meets the provision of Metro 2040:
  - if outside a sewerage area, the member jurisdiction must first apply to Metro Vancouver to have the property included in an appropriate sewerage area. This separate process is outlined in the Regional Growth Strategy, Metro 2040 Implementation Guideline 7 – Extension of Regional Sewerage Services.
- submit an application, currently Form 35A – Application for Connection – Sewer or Drain, on the Metro Vancouver website, to apply for a Temporary Private Direct Connection to a GVS&DD facility;
- submit an engineering report to Metro Vancouver that:
  - confirms that no on-site treatment or alternative disposal system is feasible and recommends that a Private Direct Connection to a GVS&DD sewer is the only feasible option;
  - confirms that no municipal sewer facility is within the specified distance (Figure 1) of the nearest property line;
  - the implementation dates corresponding to the distance shown on Figure 1 is:
- 15 metres – upon adoption of this policy;
- 45 metres – January 1, 2021; and,
  o confirms that a non-pressurized GVS&DD sewer (current and future conditions) is adjacent to the property;
  o outlines costs associated with potential options for connecting to the GVS&DD sewer, which will be borne by the member jurisdiction; and,
  o provides an estimate of how long a temporary connection will be required.
- ensure the connection meets the provisions of the GVS&DD Sewer Use Bylaw and related bylaws under the Liquid Waste Regulatory Program; and
- confirm that the Member Jurisdiction will coordinate and be responsible for the connection work, contractor, and all connection costs.

Metro Vancouver staff will review the application for a Temporary Private Direct Connection from a regional perspective, including consideration of feasibility, appropriate land use, and technical considerations.

**Figure 1: Distance to Municipal Sewer**
REQUIREMENTS FOR APPROVAL OF A TEMPORARY PRIVATE DIRECT CONNECTION

If the GVS&DD approves a Temporary Private Direct Connection, requirements will be provided to the Member Jurisdiction that may include the following and other related terms and conditions:

- GVS&DD’s required connection details;
- location of the connection and schedule of requirements of the connection work;
- discharge limits; and
- requirements for:
  - the member jurisdiction to retain an Engineer-of-Record;
  - the member jurisdiction to own a portion of the sewer between the private sewer (e.g. typically from property line) and the GVS&DD facility;
  - GVS&DD to review the installation; and
  - all aspects of the connection including design, construction and inspections with all associated costs to be borne by the member jurisdiction.

Once installed, the Member Jurisdiction will own, and be responsible for, all aspects of the Temporary Private Direct Connection, including ongoing operations and maintenance, upgrades, and decommissioning costs for temporary connections when a suitable new connection is installed.

REMOVAL OF PRIVATE DIRECT CONNECTIONS

An existing Private Direct Connection shall be subject to removal when a Member Jurisdiction requires a new connection (e.g. change in land use, property consolidation, major renovation) and has installed a sewer within the specified distance (Figure 1) of the Private Property, except as noted below.

Metro Vancouver will not require removal of the Private Direct Connection if, in its opinion, the orientation of the new sewer is not reasonably compatible with the existing site plumbing (e.g. would require a new connection on the opposite side of the Property).

When an existing Private Direct Connection is removed, the Member Jurisdiction shall be responsible for decommissioning the existing connection per GVS&DD requirements and establishing a suitable new connection at their cost.

REMOVAL OF TEMPORARY PRIVATE DIRECT CONNECTIONS

An existing Temporary Private Direct Connection shall be subject to removal when a Member Jurisdiction installs a new sewer within the road allowance adjacent to the Private Property. Metro Vancouver will not require removal of the Temporary Private Direct Connection if, in its opinion, the orientation of the new sewer is not reasonably compatible with the existing site plumbing (e.g. would require a new connection on the opposite side of the Property).

When an existing Temporary Private Direct Connection is removed, the Member Jurisdiction shall be responsible for decommissioning the existing connection per GVS&DD requirements and establishing a suitable new connection at their cost.
LEGACY PRIVATE DIRECT CONNECTIONS
Prior to the implementation of this Policy, certain Private Direct Connections were permitted in return for a property owner granting a Statutory Right of Way (SRW) in favour of the GVS&DD allowing a regional pipe across private property. These are Legacy Private Direct Connections. If a municipal bylaw requires the property owner of a Legacy Private Direct Connection to seek a new connection, then Metro Vancouver staff will review the terms of the original SRW and the municipal bylaw to determine which governs. Metro Vancouver will not consider future Legacy Private Direct Connections through the SRW process except as otherwise directed by the Board.

DIRECT CONNECTIONS FOR NON-MEMBERS
Direct connections for Non-Members will only be approved as directed by the Board.
To: Liquid Waste Committee

From: Brent Burton, Division Manager, Policy, Planning and Analysis, Liquid Waste Services

Date: February 27, 2020

Subject: Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020 – Fraser Sewerage Area – PID 013-872-303, Township of Langley

RECOMMENDATION
That the GVS&DD Board:

a) give first, second and third reading to the Greater Vancouver Sewerage and Drainage District’s Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020; and

b) pass, and finally adopt the Greater Vancouver Sewerage and Drainage District’s Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020.

EXECUTIVE SUMMARY
Metro Vancouver received a council resolution from the Township of Langley requesting an amendment of the Fraser Sewerage Area (FSA) to include a property located at Trinity Western University, adjacent to 76A Avenue, in the Township of Langley. Metro Vancouver staff confirmed that this property is within the Metro 2040: Shaping Our Future (Metro 2040) Urban Containment Boundary (UCB), and meets the provisions of Metro 2040. A Greater Vancouver Sewerage and Drainage District (GVS&DD) technical review indicates negligible impact on the regional sewerage system, and all costs would be borne by the property owner. As such, staff recommend that the Fraser Sewerage Area boundary be amended to include the property identified by BC Property Identifier Number PID-013-872-303 in the Township of Langley.

PURPOSE
To seek GVS&DD Board approval to amend the GVS&DD’s Sewerage and Drainage Area Boundaries Bylaw No. 310, 2018 to include a property at Trinity Western University adjacent to 76A Avenue in the Township of Langley, identified by BC Property Identifier Number PID 013-872-303, within the Fraser Sewerage Area (see Attachment).

BACKGROUND
Metro Vancouver received a council resolution from the Township of Langley requesting an amendment of the FSA to include the property identified by BC Property Identifier Number PID-013-872-303. The property is currently used for parking and would house an office and classroom complex.

Metro Vancouver provides regional sewerage services to GVS&DD member municipalities. For a municipal property to receive sewerage services, it must be located within one of Metro Vancouver’s sewerage areas. Sewerage area boundaries were fixed by the GVS&DD’s Sewerage and Drainage Areas Boundaries Bylaw, No. 310, 2018. Sewerage areas are occasionally amended through an
amending bylaw and in accordance with Sections 31 and 32 of the GVS&DD Act, typically at the request of a GVS&DD member.

**METRO 2040 CONSIDERATION**
Following adoption of *Metro 2040* (the Regional Growth Strategy) in 2011, Metro Vancouver procedures regarding the amendment of regional sewer services are subject to the provisions of *Metro 2040*. Therefore, any requests from member municipalities to amend a GVS&DD sewerage area must be presented to the Metro Vancouver Regional District (MVRD) Board for consideration of consistency with the provisions of *Metro 2040*. Once consistency with *Metro 2040* has been established, the decision to amend the sewerage area rests with the GVS&DD Board, subject to technical considerations. The following summarizes the considerations for this proposed boundary amendment:

- Metro Vancouver received a council resolution from the Township of Langley requesting that a property identified by BC Property Identifier Number PID-013-872-303 be included in the FSA.
- Metro Vancouver Planning and Environment staff reviewed the resolution and confirmed that the property is located within the UCB as set out in *Metro 2040*, the Regional Growth Strategy, and is designated “General Urban”. As such, Metro Vancouver Planning and Environment staff have no objections to the extension of the FSA to provide sewerage services to the area, subject to: 1) the FSA adjustment not extending beyond the Urban Containment Boundary and area designated as General Urban, and 2) it passing the Greater Vancouver Sewerage and Drainage District technical review and approvals processes.

In this case, as the property already meets the provisions of *Metro 2040*, MVRD Board approval is not required for this application.

**GVS&DD CONSIDERATION**
A GVS&DD technical review, which included an examination of financial, technical and operational impacts, along with impacts on service levels, concluded that:

- There are no financial impacts on the GVS&DD as costs will be borne by the property owner.
- GVS&DD analysis of the estimated sewage flows shows a negligible impact on the FSA sewerage system.

**ALTERNATIVES**
1. That the GVS&DD Board:
   a) give first, second and third reading to the Greater Vancouver Sewerage and Drainage District’s *Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020*; and
   b) pass, and finally adopt the Greater Vancouver Sewerage and Drainage District’s *Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020*.

2. That the GVS&DD Board receive for information the report dated February 27, 2020, titled “Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020 – Fraser Sewerage Area – PID 013-872-303, Township of Langley”, and provide alternate direction to staff.

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Liquid Waste Committee
FINANCIAL IMPLICATIONS
There are no financial implications on the GVS&DD as all costs associated with this request will be borne by the property owner.

CONCLUSION
Metro Vancouver received a council resolution from the Township of Langley requesting an amendment of the Fraser Sewerage Area to include a property located at Trinity Western University, adjacent to 76A Avenue, in the Township of Langley. Metro Vancouver staff confirmed that this property is within the Metro 2040: Shaping Our Future (Metro 2040) Urban Containment Boundary, and meets the provisions for sewer services within Metro 2040. A GVS&DD technical review indicates negligible impact on the regional sewerage system, and all costs would be borne by the property owner. As such, staff recommend Alternative 1.

Attachment
Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020

36354813
GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT
BYLAW NO. 335, 2020
A Bylaw to Amend the "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018"

WHEREAS:

A. The Board of Directors of the Greater Vancouver Sewerage and Drainage District has adopted "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018", to fix the boundaries of GVS&DD Sewerage and Drainage Areas; and

B. The Board of the Greater Vancouver Sewerage and Drainage District wishes to amend "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018";

NOW THEREFORE the Board of the Greater Vancouver Sewerage and Drainage District enacts as follows:

1. This bylaw may be cited as "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Amending Bylaw No. 335, 2020".

2. "Greater Vancouver Sewerage and Drainage District Sewerage and Drainage Areas Boundaries Bylaw No. 310, 2018" is amended as follows:

   a. by adding to the Fraser Sewerage Area lands the property identified by British Columbia Property Identifier Number PID 013-872-303 in the Township of Langley and shown on the attached Schedule "A", forming part of this bylaw; and

   b. by replacing Schedule "B" with the attached Schedule "B", forming part of this bylaw, containing Drawing Number S-3200 Sheet 2 titled "Greater Vancouver Sewerage and Drainage District Plan of Fraser Sewerage Area" dated January 7, 2020 to show the boundaries of the Fraser Sewerage Area, as amended.

READ A FIRST, SECOND, AND THIRD TIME this _______ day of ____________________, 2020.

PASSED, AND FINALLY ADOPTED this _______ day of ____________________, 2020.

________________________________________
Sav Dhaliwal, Chair

________________________________________
Chris Plagnol, Corporate Officer
To:        Liquid Waste Committee  
From:    Peter Navratil, General Manager, Liquid Waste Services  
Date:   February 14, 2020   
Meeting Date: March 12, 2020  
Subject:  Manager’s Report

**RECOMMENDATION**
That the Liquid Waste Committee receive for information the report dated February 14, 2020 titled “Manager’s Report”.

1. **Liquid Waste Committee Tour of the Iona Island Wastewater Treatment Plant**

   In the past, the Liquid Waste Department has offered facility tours for Committee members. We would like to invite the Committee for a tour of the Iona Island Wastewater Treatment Plant from 9:00 a.m. to 12:00 p.m.

   Potential Dates:  
   - Wednesday, May 20, 2020  
   - Thursday, May 21, 2020  
   - Thursday, May 28, 2020  
   - Wednesday, June 10, 2020  
   - Thursday, June 11, 2020  

   Travel Options: Details will be provided once tour date is confirmed.

2. **Liquid Waste Committee 2020 Work Plan**

   Attached is the updated 2020 Work Plan indicating the status of the Committee’s key priorities for this year.

   **Attachment:**  
   Liquid Waste Committee 2020 Work Plan
### Priorities

#### 1st Quarter

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<td>Iona Island Secondary Wastewater Treatment Plant Project Definition Update</td>
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<tr>
<td>Fermentation Operations Bylaw Amendments</td>
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<td>Long Term Financial Plan – Liquid Waste Scenarios</td>
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<tr>
<td>Contract Approvals – Contracts &gt; $5M (as applicable)</td>
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<td>Iona Island Secondary Wastewater Treatment Plant Project Definition Update</td>
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