

**GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT (GVS&DD)****BOARD OF DIRECTORS****BOARD MEETING****Friday, March 28, 2025****9:00 am****28<sup>th</sup> Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia****A G E N D A****A. ADOPTION OF THE AGENDA****1. March 28, 2025 Meeting Agenda**

That the GVS&DD Board adopt the agenda for its meeting scheduled for March 28, 2025 as circulated.

**B. ADOPTION OF THE MINUTES****1. February 28, 2025 Meeting Minutes**

That the GVS&DD Board adopt the minutes for its meeting held February 28, 2025 as circulated.

*pg. 7***C. DELEGATIONS****D. INVITED PRESENTATIONS****E. CONSENT AGENDA**

*Note: Directors may adopt in one motion all recommendations appearing on the Consent Agenda or, prior to the vote, request that an item be removed from the Consent Agenda for debate or discussion, voting in opposition to a recommendation, or declaring a conflict of interest with an item.*

**1. LIQUID WASTE COMMITTEE REPORTS****1.1 2024 “Wipe It, Green Bin It” Campaign Results***pg. 12***Executive Summary**

The disposal of fats, oils, and grease (FOG) into the regional sewer system is an ongoing issue that costs the region over \$3 million a year. The 2024 “Wipe It, Green Bin It” campaign ran in the lead-up to Thanksgiving and through November, asking residents to put FOG in their green bins and not down their sinks. The campaign included social media, Pinterest, YouTube, television, transit advertising, Google Ads, and a website. The campaign delivered over 29 million impressions, 2,255 engagements, 5,366 clicks for more information, sent 6,000 residents to the website, and reached 650,000 residents through online channels. Monitoring of fats, oils, and grease at pump stations generally shows a drop in their levels since 2019. The campaign will run again in 2025 and will include ongoing measurement at pump stations and a post-campaign survey. The Liquid Waste Committee considered this report and recommended that the Board direct staff to report back on the Food Sector Grease Interceptor Regulatory Program.

**Recommendation**

That the GVS&DD Board direct staff to report back on the Food Sector Grease Interceptor Regulatory Program.

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**1.2 Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract** *pg. 24*

**Executive Summary**

Maple Reinders Constructors Ltd. proposal ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated best value overall for Metro Vancouver.

The intent of RFP 24-123 is to secure a contractor to construct and commission the Hydrothermal Liquefaction (HTL) demonstration facility at Annacis Island Wastewater Treatment Plant (AIWWTP). The facility will enable Metro Vancouver to assess the technical and economic viability of HTL technology for treating wastewater sludge, and determine its potential to be part of the long-term management of Metro Vancouver wastewater residuals.

RFP 24-123 was issued on June 10, 2024 to the prequalified proponents of RFQ 23-433 and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-123 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award RFP 24-123 to Maple Reinders Constructors Ltd.

**Recommendation**

That the GVS&DD Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

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**1.3 Award of RFP No. 24-469 - Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping**

*pg. 31*

**Executive Summary**

BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting's (Bel) proposal met all the technical requirements and demonstrated good value overall for Metro Vancouver. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal.

The work to be provided under RFP 24-469 includes the construction of a junction chamber and related piping, two tie-in chambers, flow management and other activities as required to facilitate the construction.

RFP 24-469 was issued to Bel on November 29, 2024. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-469 evaluation team has considered the proposal received, and on that basis recommend that the GVS&DD Board award RFP 24-469 to Bel.

**Recommendation**

That the GVS&DD Board:

- a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, subject to final review by the Commissioner; and
- b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

**1.4 Appointment of Enforcement Officers***pg. 35***Executive Summary**

Recent changes in staffing have resulted in a need to update staff appointments as Greater Vancouver Sewerage and Drainage District (GVS&DD) Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* (the Bylaw), the *Environmental Management Act* and the *Offence Act*. Staffing changes are a result of retirements and recruitment for a resulting vacant position. Staff recommend that the GVS&DD Board appoint staff accordingly.

**Recommendation**

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* and the *Environmental Management Act*:
  - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
  - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazioni as an officer.
- b) pursuant to section 28 of the *Offence Act* for the purposes of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*
  - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.

**F. ITEMS REMOVED FROM THE CONSENT AGENDA****G. REPORTS NOT INCLUDED IN CONSENT AGENDA****H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN**

- 1. **The following Notice of Motion was submitted by Director Kooner at the February 28, 2025 GVS&DD meeting:** *pg. 37*

That the GVS&DD Board request the Province of British Columbia to extend the in-stream protection for GVS&DD Development Cost Charges for an additional 24 months.

**I. OTHER BUSINESS****1. GVS&DD Board Committee Information Items and Delegation Summaries***pg. 38***J. RESOLUTION TO CLOSE MEETING**

*Note: The Board 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.*

That the GVS&DD Board close its meeting scheduled for March 28, 2025 pursuant to section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

- 90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:
- (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality;
  - (g) litigation or potential litigation affecting the municipality; and
  - (i) the receipt of advice that is subject to solicitor-client privilege, including communications necessary for that purpose.

**K. ADJOURNMENT**

That the GVS&DD Board adjourn its meeting of March 28, 2025.

## GREATER VANCOUVER SEWERAGE AND DRAINAGE DISTRICT BOARD OF DIRECTORS

Minutes of the Regular Meeting of the Greater Vancouver Sewerage and Drainage District (GVS&DD) Board of Directors held at 9:00 am on Friday, February 28, 2025, in the 28<sup>th</sup> Floor Boardroom, 4515 Central Boulevard, Burnaby, British Columbia.

### MEMBERS PRESENT:

Burnaby, Chair, Director Mike Hurley  
 Anmore, Vice Chair, Director John McEwen  
 Burnaby, Director Pietro Calendino  
 Burnaby, Director Sav Dhaliwal  
 Coquitlam, Director Craig Hodge  
 Coquitlam, Director Teri Towner  
 Delta, Director Rod Binder  
 Delta, Director Dylan Kruger  
 Electoral Area A, Director Jen McCutcheon  
 Langley City, Director Paul Albrecht  
 Langley Township, Director Steve Ferguson  
     (arrived at 11:43 am)  
 Langley Township, Director Eric Woodward  
     (departed at 9:01 am)  
 Maple Ridge, Director Dan Ruimy  
 New Westminster, Alternate Director Jaimie  
     McEvoy for Director Nadine Nakagawa  
 North Vancouver City, Director Linda Buchanan  
 North Vancouver District, Director Lisa Muri  
 Pitt Meadows, Director Nicole MacDonald  
 Port Coquitlam, Director Brad West\*  
 Port Moody, Director Meghan Lahti

Richmond, Director Chak Au  
 Richmond, Director Malcolm Brodie  
 Richmond, Director Bill McNulty  
 Surrey, Director Harry Bains\*  
 Surrey, Director Doug Elford  
 Surrey, Director Gordon Hepner  
 Surrey, Director Pardeep Kooner  
 Surrey, Director Brenda Locke\*  
 Surrey, Director Rob Stutt  
 Vancouver, Director Rebecca Bligh (arrived at  
     11:43 am)  
 Vancouver, Director Lisa Dominato  
 Vancouver, Director Sarah Kirby-Yung (arrived at  
     11:43 am)  
 Vancouver, Director Mike Klassen  
 Vancouver, Director Peter Meiszner  
 Vancouver, Alternate Director Brian Montague  
     for Director Ken Sim  
 Vancouver, Director Lenny Zhou  
 West Vancouver, Director Mark Sager  
 White Rock, Director Megan Knight  
 Commissioner Jerry W. Dobrovlny  
     (Non-voting member)

\* denotes electronic meeting participation as authorized by the *Procedure Bylaw*

### STAFF PRESENT:

Dorothy Shermer, Corporate Officer  
 Catherine Grosson, Legislative Services Coordinator, Board and Information Services

### A. ADOPTION OF THE AGENDA

#### 1. February 28, 2025 Meeting Agenda

#### It was MOVED and SECONDED

That the GVS&DD Board adopt the revised agenda for its meeting scheduled for February 28, 2025 as circulated and address Item J immediately.

**CARRIED**

**J. RESOLUTION TO CLOSE MEETING****It was MOVED and SECONDED**

That the GVS&DD Board close its meeting scheduled for February 28, 2025 pursuant to section 226 (1) (a) of the *Local Government Act* and the *Community Charter* provisions as follows:

90 (1) A part of a council meeting may be closed to the public if the subject matter being considered relates to or is one or more of the following:

- (e) the acquisition, disposition or expropriation of land or improvements, if the council considers that disclosure could reasonably be expected to harm the interests of the municipality;
- (j) information that is prohibited, or information that if it were presented in a document would be prohibited, from disclosure under section 21 of the *Freedom of Information and Protection of Privacy Act*; and
- (g) litigation or potential litigation affecting the municipality.

**CARRIED**

9:01 am the meeting was recessed.

11:43 am the meeting was reconvened with Directors Bligh, Ferguson, and Kirby-Yung in attendance, and without Director Woodward present.

**B. ADOPTION OF THE MINUTES****1. January 31, 2025 Meeting Minutes****It was MOVED and SECONDED**

That the GVS&DD Board adopt the minutes for its meeting held January 31, 2025 as circulated.

**CARRIED**

Director Kooner provided the following Notice of Motion for consideration at the March 28, 2025 GVS&DD Board Meeting:

That the GVSDD Board request the Province of British Columbia to extend the in-stream protection for GVS&DD Development Cost Charges for an additional 24 months.

**C. DELEGATIONS**

No items presented.

**D. INVITED PRESENTATIONS**

No items presented.



## **E. CONSENT AGENDA**

### **It was MOVED and SECONDED**

That the GVS&DD Board adopt the recommendations presented in the following items as presented in the February 28, 2025 GVS&DD Consent Agenda:

- 1.1 Solid Waste Management Plan Public/Technical Advisory Committee Updated Terms of Reference
- 2.1 Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units
- 2.2 Consideration of a Development Cost Charge Reduction for Intensive Agriculture
- 2.3 Funding from the Canada Housing Infrastructure Fund

**CARRIED**

The items and recommendations referred to above are as follows:

#### **1.1 Solid Waste Management Plan Public/Technical Advisory Committee Updated Terms of Reference**

Report dated January 17, 2024 from Stephanie Liu, Program Manager, Solid Waste Community Engagement, providing the Board with an updated Public/Technical Advisory Committee Terms of Reference.

##### *Recommendation:*

That the GVS&DD Board receive for information the updated Terms of Reference for the Solid Waste Management Plan Public/Technical Advisory Committee as presented in the report dated January 17, 2025, titled "Solid Waste Management Plan Public/Technical Advisory Committee Updated Terms of Reference".

*Adopted on Consent*

#### **2.1 Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units**

Report dated February 5, 2025 from Jessica Hayes, Program Manager, Housing Policy and Planning, Regional Planning and Housing Services, providing the GVS&DD/GVWD/MVRD Board with an opportunity to provide feedback on Metro Vancouver's Development Cost Charge (DCC) Waiver Framework, and to request direction to conduct further financial analysis to mitigate any potential impacts of foregone DCC revenue.

*Recommendation:*

That the GVS&DD Board:

- a) receive for information the report dated February 5, 2025, titled “Consideration of Updating Development Cost Charge Waivers to Include Inclusionary Housing Units”, and;
- b) direct staff to bring back additional financial analysis to the Finance Committee, including options to mitigate impacts of foregone Development Cost Charge (DCC) revenue on ratepayers and critical infrastructure, while maximizing affordable housing benefits of the DCC waiver framework.

*Adopted on Consent*

**2.2 Consideration of a Development Cost Charge Reduction for Intensive Agriculture**

Report dated February 5, 2025 from Heather McNell, Deputy Chief Administrative Officer, Policy and Planning, providing the GVWD/GVS&DD/MVRD Board with an opportunity to provide direction to undertake further analysis to develop a Development Cost Charge reduction for Intensive Agricultural developments that have a low environmental impact and bring this back for Committee and Board consideration.

*Recommendation:*

That the GVS&DD Board direct staff to advance work to analyze and propose a Development Cost Charge reduction for Intensive Agricultural developments that have a low environmental impact for Board consideration.

*Adopted on Consent*

**2.3 Funding from the Canada Housing Infrastructure Fund**

Report dated February 5, 2025 from Jean Lawson, Program Manager, Intergovernmental Relations, and Harji Varn, Chief Financial Officer/General Manager, Financial Services, providing the GVWD/GVS&DD/MVRD Board information on opportunities to pursue funding from Canada Housing Infrastructure Fund and subsequently requesting lengthening of the in-stream protection period to a maximum of 24 months.

*Recommendation:*

That the GVS&DD Board receive for information the report dated February 5, 2025, titled “Funding from the Canada Housing Infrastructure Fund”.

*Adopted on Consent*

**F. ITEMS REMOVED FROM THE CONSENT AGENDA**

No items presented.

**G. REPORTS NOT INCLUDED IN CONSENT AGENDA**

No items presented.

**H. MOTIONS FOR WHICH NOTICE HAS BEEN GIVEN**

No items presented.

**I. OTHER BUSINESS****1. GVS&DD Board Committee Information Items and Delegation Summaries****K. ADJOURNMENT****It was MOVED and SECONDED**

That the GVS&DD Board adjourn its meeting of February 28, 2025.

**CARRIED**

(Time: 11:44 am)

CERTIFIED CORRECT

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Dorothy Shermer, Corporate Officer

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Mike Hurley, Chair

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SERVICES AND SOLUTIONS FOR A LIVABLE REGION

To: GVS&DD Board of Directors

From: Jacque Killawee, Deputy Corporate Officer

Date: March 13, 2025

Meeting Date: March 28, 2025

Subject: **2024 “Wipe It, Green Bin It” Campaign Results**

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**RECOMMENDATION**

That the GVS&DD Board direct staff to report back on the Food Sector Grease Interceptor Regulatory Program.

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At its March 12, 2025 meeting, the Liquid Waste Committee considered the attached report titled “2024 “Wipe It, Green Bin It” Campaign Results”, dated January 16, 2025. The report provided the Committee with an update on the residential campaign results to reduce the disposal of fats, oils, and grease in the sewer system. Discussion ensued regarding the impacts of the commercial sector on the sewer system. In response, the committee passed the following resolution:

*That the Liquid Waste Committee request that the GVS&DD Board direct staff to report back on the Food Sector Grease Interceptor Regulatory Program.*

This matter is now before the Board for its consideration.

**ATTACHMENTS**

1. “2024 “Wipe It, Green Bin It” Campaign Results”, dated, January 16, 2025.

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To: Liquid Waste Committee

From: Carol Nicolls, Communications Specialist, Corporate Communications

Date: January 16, 2025 Meeting Date: March 12, 2025

Subject: 2024 “Wipe It, Green Bin It” Campaign Results

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## **RECOMMENDATION**

That the Liquid Waste Committee receive for information the report dated January 16, 2025, titled “2024 ‘Wipe It, Green Bin It’ Campaign Results”.

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## **EXECUTIVE SUMMARY**

The disposal of fats, oils, and grease (FOG) into the regional sewer system is an ongoing issue that costs the region over \$3 million a year. The 2024 “Wipe It, Green Bin It” campaign ran in the lead-up to Thanksgiving and through November, asking residents to put FOG in their green bins and not down their sinks. The campaign included social media, Pinterest, YouTube, television, transit advertising, Google Ads, and a website. The campaign delivered over 29 million impressions, 2,255 engagements, 5,366 clicks for more information, sent 6,000 residents to the website, and reached 650,000 residents through online channels. Monitoring of fats, oils, and grease at pump stations generally shows a drop in their levels since 2019. The campaign will run again in 2025 and will include ongoing measurement at pump stations and a post-campaign survey.

## **PURPOSE**

To update the Liquid Waste Committee on the 2024 regional “Wipe It, Green Bin It” campaign to reduce the disposal of fats, oils, and grease in the sewer system.

## **BACKGROUND**

The disposal of FOG into the sewer system is an ongoing issue that costs the region over \$3 million every year. For example, in the summer of 2024, Metro Vancouver experienced a significant spike in FOG-related issues in regional sewers in Richmond. Fats, oils, and grease can harden in sewers, producing costly “fatbergs” that block sewers and lead to overflows into homes, businesses, and the environment. Since 2017, Metro Vancouver has conducted regional campaigns to ask residents to dispose of FOG in their green bin and not down their sink.

This report provides an overview of the main results of the 2024 “Wipe It, Green Bin It” campaign, as identified in the 2025 Liquid Waste Committee Work Plan.

### **“Wipe It, Green Bin It” 2024 Campaign**

The 2024 “Wipe It, Green Bin It” regional campaign took place from October 7 to November 17, 2024, aiming to reach residents in the lead-up to Thanksgiving and during a time of heavier, seasonal cooking. An additional Richmond-specific mini campaign also ran for the month of November to support efforts to address increased FOG issues that were identified during the

**2024 “Wipe It, Green Bin It” Campaign Results**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

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summer of 2024 and which remain ongoing. The campaign materials featured dripping grease, oil, or dairy, reminding residents to “Wipe It, Green Bin It” to avoid clogged pipes.

**Media Strategy**

The regional campaign targeted Metro Vancouver residents aged 18–54 who cook or participate in cooking cleanup, with additional focus on younger residents (research shows this group is more likely to dispose of FOG incorrectly). Paid media included a mix of traditional and digital tactics, with placements on YouTube, social media (Facebook/Instagram), Pinterest, an in-language television PSA and interviews in Cantonese and Mandarin (Fairchild TV and Talent vision), transit advertising (buses and transit stations), and Google Ads. Digital placements targeted people with interests in cooking and food services and included use of a social media influencer, while television and transit advertising allowed the campaign to reach a broader demographic.

**Engagement with Members**

Prior to launch, campaign details and creative materials were shared with members’ communication staff and the Regional Engineers Advisory Committee (REAC) – Liquid Waste Subcommittee. All materials are available for download on the Metro Vancouver website and members could request custom, co-branded materials. Materials included a printable rack card in six languages. The media buy included all member jurisdictions, ensuring that campaign ads appeared across the region.

**Results***Digital Media*

- The campaign delivered 29 million impressions, which was comparable to 2023 results
- Targeted digital tactics delivered just under 9 million impressions across social media, Pinterest, YouTube, and Google Search, reaching over 650,000 residents
- Strong engagement on Facebook, Instagram, and Pinterest, with 2,255 engagements (reactions comments, shares, saves, pin clicks) and 4,716 clicks to the website for more information
- Influencer posts generated 19,354 views, reaching 172,404 residents
- Google Ads achieved a high click-through rate, with over 650 clicks to the website for more information, primarily due to searches related to cooking oil disposal
- In-language TV spots in Cantonese and Mandarin aired 295 times, reaching Cantonese and Mandarin-speaking residents.

*Website*

Just under 6,000 people visited the campaign website (Reference 1), with an average of 142 people per day going to the website during the campaign window and spending just over three minutes on the page. The extensive media coverage of fatberg removal from regional sewers in Richmond led to a spike in website visits at the end of October; an average of 400 people per day visited the web page on October 24 and October 25, 2024.

**FATS, OILS, AND GREASE MEASUREMENT**

Fats, oils, and grease levels have been monitored at various pump stations since 2018. This monitoring uses a visual rating scale, which helps assess FOG issues and evaluate campaign

**2024 “Wipe It, Green Bin It” Campaign Results**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

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effectiveness. Metro Vancouver monitors FOG build-up at two Metro Vancouver pump stations in residential hot spot areas. In general, 2024 data show comparable FOG levels to 2023, with average yearly FOG levels dropping since 2019. This monitoring should be considered as just one metric to measure campaign success, as external conditions (such as rain and cleaning schedules) can affect FOG build-up.

**PLANS FOR 2025 CAMPAIGN**

The campaign will run again in 2025 with similar timing and using existing creative. The campaign will continue to educate residents about the range of foods, like dairy, that can contribute to clogs. Metro Vancouver channels will be used to provide year-round messaging for seasonal holidays and events, such as Lunar New Year. A post-campaign survey will take place in 2025 and will help guide future campaign approaches.

**ALTERNATIVES**

This is an information report. No alternatives are presented.

**FINANCIAL IMPLICATIONS**

The 2024 “Wipe It, Green Bin It” campaign had a budget of \$116,000. These costs were included in the 2024 Liquid Waste Communications Program Budget managed by the External Relations Department.

**CONCLUSION**

The “Wipe It, Green Bin It” campaign has been in market for eight years and continues to educate the public on proper fat, oil, and grease (FOG) disposal. Monitoring at pump stations for FOG is planned to continue in 2025 with a post-campaign survey planned late November. This will provide useful information to help assess the campaign’s effectiveness and inform any adjustments that are needed for future campaigns — including whether to continue extra targeting of younger residents.

**ATTACHMENTS**

1. Sample of Campaign Materials.
2. Presentation re: “Wipe It, Green Bin It” Campaign Results.

**REFERENCE**

1. Campaign website: [Wipe It, Green Bin It](#)

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## Sample of Campaign Materials



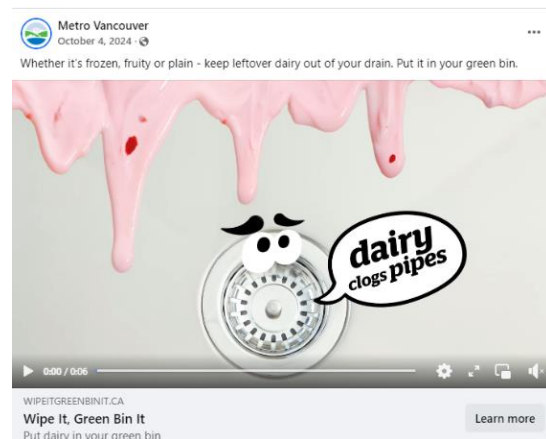
Advertising on bus sides



Advertising on digital screens in transit stations



Fairchild TV interview in Cantonese



Social media post

## Report Approval





Wipe It, Green Bin It outdoor campaign materials

## 2024 “Wipe It, Green Bin It” Campaign Results

Carol Nicolls

Communications Specialist, Corporate Communications

Liquid Waste Committee, March 12, 2025  
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## GREASE FATBERG REMOVAL



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## OVERVIEW

- Residents 18-54
- October 7 to November 17
- Fats, oils, and grease (FOG)
- Regional media buy
  - Extra weight in Richmond



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## RESULTS

Media buy



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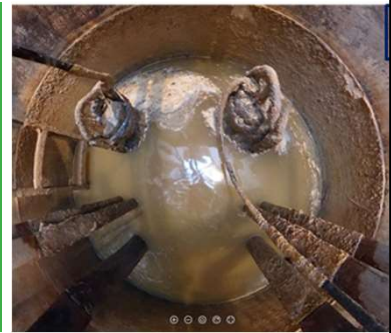
## RESULTS

Pump stations

- Monitoring FOG levels
- General decrease over time
- External factors influence results

Lowest

Highest



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## PLANS FOR 2025

- Similar timing and approach
- Assess audiences
- Survey
- Pump station monitoring



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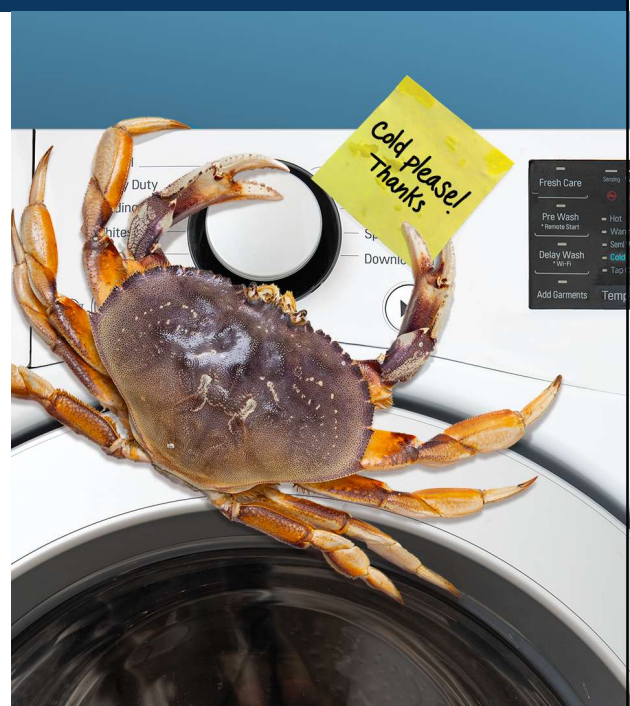
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## OVERVIEW

- Parents with children under 18
- Wash laundry in cold
- September 16 – November 3



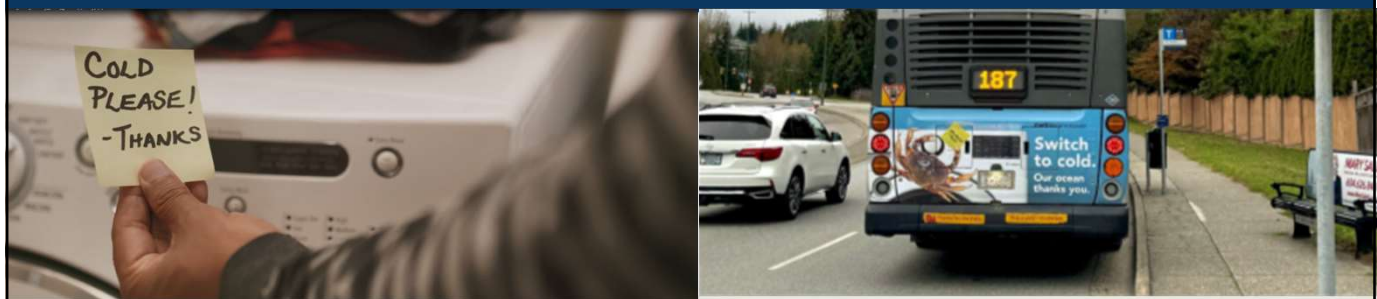
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## MEDIA PERFORMANCE



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## RESULTS

### Post-Campaign Survey

- 70% already wash in cold
- 38% who saw campaign wash more loads in cold
- 7% increase in residents washing in cold specifically to reduce microfibres



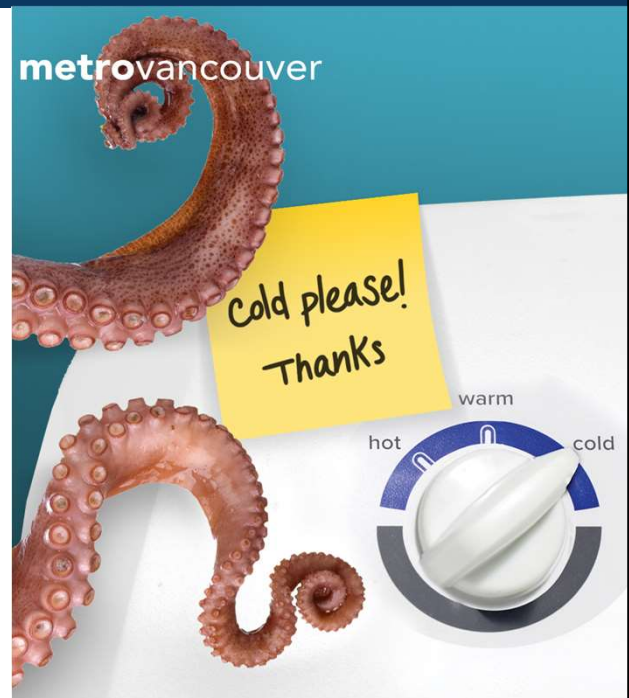
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## PLANS FOR 2025

- Similar timing and approach
- Additional creative materials
- Older parents



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Thank you

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To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services  
Zeno Farinelli, Lead Senior Engineer, Liquid Waste Services

Date: February 27, 2025 Meeting Date: March 12, 2025

Subject: **Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract**

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## RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., subject to final review by the Commissioner; and
  - b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.
- 

## EXECUTIVE SUMMARY

Maple Reinders Constructors Ltd. proposal ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated best value overall for Metro Vancouver

The intent of RFP 24-123 is to secure a contractor to construct and commission the Hydrothermal Liquefaction (HTL) demonstration facility at Annacis Island Wastewater Treatment Plant (AIWWTP). The facility will enable Metro Vancouver to assess the technical and economic viability of HTL technology for treating wastewater sludge, and determine its potential to be part of the long-term management of Metro Vancouver wastewater residuals.

RFP 24-123 was issued on June 10, 2024 to the prequalified proponents of RFQ 23-433 and the procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-123 evaluation team have considered the proposals received, and on that basis recommend that the GVS&DD Board award RFP 24-123 to Maple Reinders Constructors Ltd.

## PURPOSE

Pursuant to *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and Board Policy No. FN-031, procurement contracts that exceed a value of \$10 million require the approval of the GVS&DD Board.



**Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction Demonstration Plant Contract**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

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**BACKGROUND**

The quantity of biosolids generated in the region will increase substantially due to upgrades to secondary wastewater treatment and population growth. Metro Vancouver is evaluating HTL to diversify options for managing the growing quantities of biosolids and reducing associated costs and risks. HTL converts wastewater sludge into biocrude, instead of producing biosolids; the biocrude can then be refined into low-carbon transportation fuels. The business case for HTL is positive, with lower lifecycle costs compared to traditional solids management.

Metro Vancouver is constructing a demonstration-scale HTL facility that will process wastewater sludge at Annacis Island Wastewater Treatment Plant (AIWWTP). The demonstration will test and optimize HTL performance, evaluate integration of HTL with existing WWTP processes, and confirm the business case, before recommending subsequent scale-up for permanent implementation of HTL at Metro Vancouver WWTPs. Under a different contract, the design and fabrication of the demonstration-scale HTL system is underway.

The scope of RFP 24-123 entails the installation and commissioning of the HTL system and all associated supporting infrastructure at AIWWTP. The work includes site preparation and site facilities installation (power, lighting, roadway, fencing, and utilities), supplying and installing auxiliary equipment, connecting the new system to the AIWWTP, and commissioning the entire system.

**PROCUREMENT SUMMARY**

RFQ 23-433 was issued on December 18, 2023 to prequalify proponents to participate in RFP 24-123. Seven proponents responded to RFQ 23-433, of whom six proponents were shortlisted and invited to respond to RFP 24-123.

RFP 24-123 Submissions:

| <b>Proponents</b>                       | <b>Pricing (excluding taxes)</b> |
|---|----------------------------------|
| Maple Reinders Constructors Ltd.        | \$12,008,785.00                  |
| Kenaidan Contracting Ltd.               | \$12,562,202.00                  |
| North American Construction (1993) Ltd. | \$14,548,391.00                  |
| Tritech Group Ltd.                      | \$14,607,835.88                  |
| Graham Infrastructure LP                | \$15,401,460.00                  |

Metro Vancouver received five proposals. All proposals submitted by the proponents were in compliance with the submission requirements. The compliant proposals were evaluated against technical requirements (40%) and commercial requirements (60%). Technical requirements were evaluated by Liquid Waste Services Engineering Design and Construction staff, and commercial requirements were evaluated by Procurement and Real Estate Services staff.

After a comprehensive and detailed evaluation of the compliant proposals, the evaluation team concluded that the proposal submitted by Maple Reinders Constructors Ltd. ranked highest overall, provided the lowest cost, met the technical requirements, and demonstrated the best value overall.

**Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction Demonstration Plant Contract**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

Page 3 of 3

for Metro Vancouver. More specifically; the proponent demonstrated strong staff qualifications and experience, project methodology, work plan, schedule and allocation of effort.

Negotiations with Maple Reinders Constructors Ltd. were completed on February 12, 2025 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$12,008,785.

**ALTERNATIVES**

1. That the GVS&DD Board:
  - a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., subject to final review by the Commissioner; and
  - b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.
2. That the GVS&DD Board receive the report dated February 27, 2025, titled "Award of RFP 24-123 Site Preparation, Installation, Tie-in Connections and Commissioning for the Annacis Island Wastewater Treatment Plant Hydrothermal Liquefaction (HTL) Demonstration Plant Contract" for information.

**FINANCIAL IMPLICATIONS**

The 2025 approved capital budget for the AIWWTP Hydrothermal Processing Pilot is \$39,350,000 which includes the design and construction to complete the pilot project. To date, \$14,850,827 has been spent. The award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) is within the approved capital budget.

**CONCLUSION**

It is recommended that the GVS&DD Board approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd. and authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

**ATTACHMENT**

1. Presentation re: Award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections, Commissioning for AIWWTP HTL Demo Plant Contract.

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**Award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract**

Lillian Zaremba, P.Eng.  
Program Manager, Collaborative Innovations, Liquid Waste Services  
Liquid Waste Committee Regular Meeting, March 12, 2025  
xxxxxxx

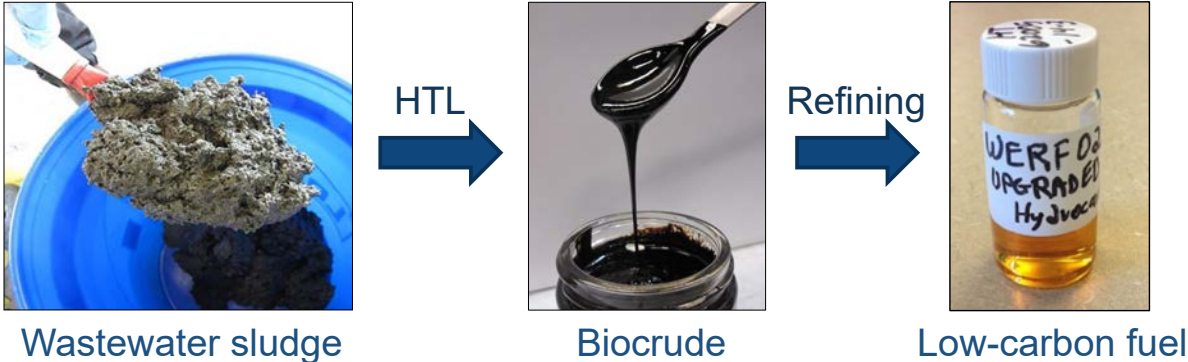
Zeno Farinelli, P.Eng.  
Lead Senior Engineer, Engineering, Design and Construction, Liquid Waste Services

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## HYDROTHERMAL LIQUEFACTION (HTL)

Biomass to biofuel



Wastewater sludge → HTL → Biocrude → Refining → Low-carbon fuel

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## HYDROTHERMAL PROCESSING BENEFITS

Alternative to anaerobic digestion and biosolids management



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## HYDROTHERMAL PROCESSING BENEFITS

Alternative to anaerobic digestion and biosolids management

- Lower lifecycle cost
- Smaller footprint
- Destroy compounds of environmental concern
- Reduce greenhouse gas emissions
- Produce low-carbon fuel



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## HTL PROJECT CONTRACTS AND STATUS

| Company        | Scope  | Status                 | Spent to date | Budget       |
|----------------|--|------------------------|---------------|--------------|
| Merrick        | Design skid-mounted HTL system   | Complete               | \$1,825,000   | \$1,825,000  |
|                | Fabricate and supply skid-mounted HTL system   | Delivery expected 2026 | \$8,840,000   | \$16,437,000 |
| Jacobs         | Owner's engineer;<br>Design site, supporting infrastructure,<br>and connection to AIWWTP | Design complete        | \$2,618,000   | \$4,481,000  |
| Maple Reinders | Site construction and commissioning  | Target completion 2026 | \$0           | \$12,009,000 |
| Various        | Other commitments and contingency  | In progress            | \$1,486,000   | \$4,628,000  |
| Total          |  |                        | \$14,769,000  | \$39,380,000 |

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## RFP 24-123 PRICING SUMMARY

| Proponent                               | Proposed Cost |
|---|---------------|
| Maple Reinders Constructors Ltd.        | \$12,008,785  |
| Kenaidan Contracting Ltd.               | \$12,562,202  |
| North American Construction (1993) Ltd. | \$14,548,391  |
| Tritech Group Ltd.                      | \$14,607,836  |
| Graham Infrastructure LP                | \$15,401,460  |

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## RECOMMENDATION

That the Board:

- a) approve the award of RFP 24-123 for Site Preparation, Installation, Tie-in Connections and Commissioning for the AIWWTP Hydrothermal Liquefaction (HTL) Demonstration Plant Contract, in the amount of up to \$12,008,785.00 (exclusive of taxes) to Maple Reinders Constructors Ltd., subject to final review by the Commissioner; and,
- b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

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To: Liquid Waste Committee

From: George Kavouras, Director, Procurement, Procurement & Real Estate Services  
Joan Liu, Division Manager, Liquid Waste Services Collection Systems

Date: February 20, 2025 Meeting Date: March 12, 2025

Subject: **Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping**

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### RECOMMENDATION

That the GVS&DD Board:

- a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, subject to final review by the Commissioner; and
  - b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.
- 

### EXECUTIVE SUMMARY

BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting's (Bel) proposal met all the technical requirements and demonstrated good value overall for Metro Vancouver. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal.

The work to be provided under RFP 24-469 includes the construction of a junction chamber and related piping, two tie-in chambers, flow management and other activities as required to facilitate the construction.

RFP 24-469 was issued to Bel on November 29, 2024. The procurement was executed in accordance with the terms and conditions of Metro Vancouver's Procurement Policy. The RFP 24-469 evaluation team has considered the proposal received, and on that basis recommend that the GVS&DD Board award RFP 24-469 to Bel.

### PURPOSE

Pursuant to *GVS&DD Officers and Delegation Bylaw No. 284, 2014* (Bylaw) and *Board Policy No. FN-031*, procurement contracts which exceed a value of \$10 million require the approval of the GVS&DD Board.

### BACKGROUND

The existing South Surrey Interceptor (SSI) is located in the City of Surrey, and services all the communities south of the Fraser River. This most upstream portion collects all the flow from

**Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section,  
Phase IV – Junction Chamber and Tie-in Piping**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

Page 2 of 3

Cloverdale, Langley City and most of the Township of Langley, and conveys it to the Annacis Island Wastewater Treatment Plant.

This contract will be the culmination of approximately 30 years of work to twin the entire length of the SSI to provide capacity for a growing population and will facilitate the connection of five key sewers: the old and the new SSI's, Surrey Central Valley Trunk Sewer, and Cloverdale Force mains No. 1 and 2. This work supports Goal 1 of the Liquid Waste Management Plant which is to "Protect public health and the environment."

**PROCUREMENT SUMMARY**

RFQ 23-381 was issued on April 22, 2024 to prequalify proponents to participate in RFP 24-469. Three proponents responded to RFQ 23-381, of those, only Bel's proposal met the required technical requirements and as such was shortlisted and invited to respond to RFP 24-469.

| <b>Proponent</b>   | <b>Proposed Fee (exclusive of taxes)</b> |
|--|--|
| BelPacific Excavating & Shoring Limited Partnership, dba Bel Contracting | \$22,030,278.90                          |

RFP 24-469 was issued on November 19, 2024, and closed on January 24, 2025. Staff from the Liquid Waste Services and Procurement and Real Estate Departments had four collaboration meetings with Bel to ensure that they understood the scope of the project, to identify risk elements and cost-saving opportunities, and to ensure that the proposal reflected the needs of the Corporation. The proposal submitted by Bel followed and met the submission requirements. The technical component of the proposal was evaluated by staff within the Liquid Waste Services Department who were supported by our external consultant to confirm the Proponent has a comprehensive understanding of scope, challenges, and approach to the work. Bel presented a proposal with a total price that is aligned with Metro Vancouver's estimate, confirming that Metro Vancouver is receiving a value-added technical and commercial proposal. The collaboration meetings led to a robust risk management approach to the most complicated element of the work, namely maintaining system operation and minimizing risks of a sewage spill.

Following submission of the proposal, negotiations with Bel were completed on February 7, 2025 and the terms of the contract were agreed to and finalized. The contract value agreed to is \$22,030,278.90.



**Award of RFP No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section,  
Phase IV – Junction Chamber and Tie-in Piping**

Liquid Waste Committee Regular Meeting Date: March 12, 2025

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**ALTERNATIVES**

1. That the GVS&DD Board:
  - a) approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping in the amount of up to \$22,030,278.90 (exclusive of taxes) to BelPacific Excavating and Shoring Limited Partnership, dba Bel Contracting, subject to final review by the Commissioner; and
  - b) authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.
2. That the GVS&DD Board receive the report dated February 20, 2025, titled “Award of a Contract Resulting from Request for Proposal No. 24-469: Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping” for information.

**FINANCIAL IMPLICATIONS**

If the GVS&DD Board approves Alternative 1, a contract will be awarded to Bel for an amount of \$22,030,278.90 (exclusive of taxes) to complete the construction of the SSI. This amount is within the budget allocated for this project.

**OTHER IMPLICATIONS**

If the tie-ins are not constructed in a timely fashion, there will be elevated risk of increased sewer spills as the existing infrastructure cannot support current flow or accommodate future growth of the region.

**CONCLUSION**

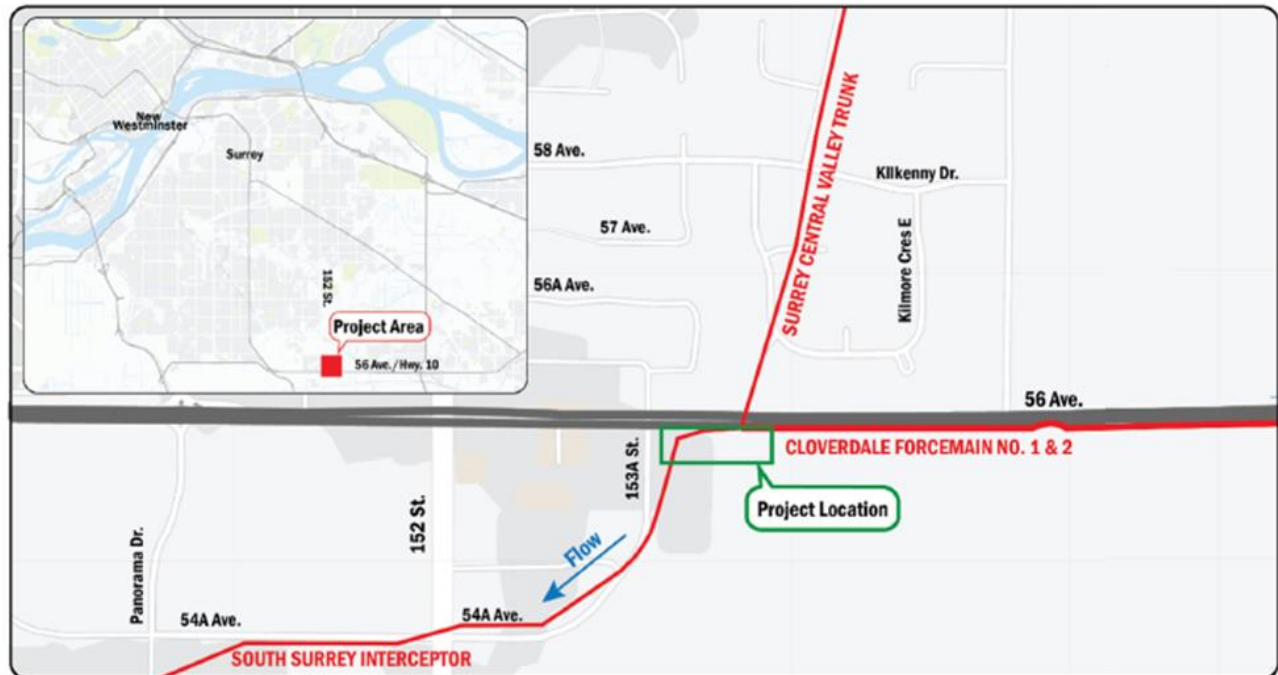
It is recommended that the GVS&DD Board approve the award of RFP 24-469 for Construction of South Surrey Interceptor No. 2, Johnston Road Section, Phase IV – Junction Chamber and Tie-in Piping, in the amount of up to \$22,030,278.90 (exclusive of taxes) to Bel and authorize the General Manager, Procurement and Real Estate to execute the required documentation once the General Manager, Procurement and Real Estate is satisfied that the award should proceed.

**ATTACHMENT**

1. Project Location.

73293166

## PROJECT LOCATION



To: Liquid Waste Committee

From: Maari Hirvi Mayne, Program Manager, Enforcement and Regulation Liquid Waste,  
Environmental Regulation and Enforcement

Date: February 19, 2025

Meeting Date: March 12, 2025

Subject: **Appointment of Enforcement Officers**

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## RECOMMENDATION

That the GVS&DD Board:

- a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* and the *Environmental Management Act*:
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
    - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazoni as an officer.
  - b) pursuant to section 28 of the *Offence Act* for the purposes of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.
- 

## EXECUTIVE SUMMARY

Recent changes in staffing have resulted in a need to update staff appointments as Greater Vancouver Sewerage and Drainage District (GVS&DD) Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* (the Bylaw), the *Environmental Management Act* and the *Offence Act*. Staffing changes are a result of retirements and recruitment for a resulting vacant position. Staff recommend that the GVS&DD Board appoint staff accordingly.

## PURPOSE

To appoint and rescind appointments of Metro Vancouver and City of Vancouver employees as Board-designated officers.

## BACKGROUND

Metro Vancouver's Liquid Waste Regulatory Program supports the goals of the *Integrated Liquid Waste and Resource Management Plan* through regulation of the discharge of wastes to the region's sanitary sewer systems.

Employment status changes for Metro Vancouver and City of Vancouver environmental regulatory staff have resulted in a need to update staff appointments to ensure appropriate authority to advance liquid waste management goals. Staffing changes are a result of retirements and recruitment for a resulting vacancy. Section 29 of the *Environmental Management Act* and the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* grant authority to Board-designated officers.

Metro Vancouver staff are responsible for the administration of the GVS&DD liquid waste management bylaws within the boundaries of the GVS&DD, except for in the City of Vancouver, where city staff have historically administered these bylaws.

#### **ROLE OF MUNICIPAL SEWAGE CONTROL OFFICERS**

Officers may enter property, inspect works, and obtain records and other information to promote compliance with the Greater Vancouver Sewerage and Drainage District liquid waste management bylaws.

The *Offence Act* allows regional districts to appoint enforcement officers for the purpose of serving summons for bylaw violations. Officers, if appointed for that purpose, may serve a summons in respect of alleged offences under the GVS&DD liquid waste management bylaws.

#### **ALTERNATIVES**

1. That the GVS&DD Board :
  - a) pursuant to the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007* and the *Environmental Management Act*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer; and
    - ii. appoint Metro Vancouver employee Gabriel de Andrade Fazioni as an officer.
  - b) pursuant to section 28 of the *Offence Act* for the purposes of serving summons for alleged violations under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw*
    - i. rescind the appointment of former City of Vancouver employee Bonny Brokenshire as an officer.
2. That the GVS&DD Board receive for information the report dated February 19, 2025 titled "Appointment of Enforcement Officers".

#### **FINANCIAL IMPLICATIONS**

There are no financial implications as the GVS&DD appointee is already on staff, and there are no costs associated with rescindments.

#### **CONCLUSION**

Recent changes in staffing have resulted in a need to update staff appointments as GVS&DD Board-designated officers under the *Greater Vancouver Sewerage and Drainage District Sewer Use Bylaw No. 299, 2007*, the *Environmental Management Act*, and the *Offence Act*. Staff recommend that the GVS&DD Board adopt Alternative 1.

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**NOTICE OF MOTION**

The following Notice of Motion was submitted by Director Kooner at the February 28, 2025 GVS&DD meeting:

*That the GVS&DD Board request the Province of British Columbia to extend the in-stream protection for GVS&DD Development Cost Charges for an additional 24 months.*

## COMMITTEE INFORMATION ITEMS AND DELEGATION SUMMARIES

Greater Vancouver Sewerage and Drainage District

Board Meeting Date – Friday, March 28, 2025

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This information item, listing recent information received by committee, is provided for the GVS&DD Board's information. Please access a complete PDF package [here](#).

### Liquid Waste Committee – March 12, 2025

*Delegations:*

No delegations presented

*Information Items:*

E2 2024 "Our Ocean Thanks You" Campaign Results