



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

REGULAR MEETING OF THE COUNCIL OF THE VILLAGE OF LIONS BAY HELD ON TUESDAY, JUNE 18, 2019 at 7:00 PM COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY

AGENDA

- 1. Call to Order**
- 2. Adoption of Agenda**
- 3. Public Participation (2 minutes per person totalling 10 minutes maximum)**
- 4. Public Delegation Requests Accepted by Agenda Deadline (10 minutes maximum)**
- 5. Review & Approval of Minutes of Prior Meetings**
 - A. Regular Council Meeting – June 4, 2019 (Page 5)

THAT the Regular Council Meeting Minutes of June 4, 2019 be approved as circulated.
- 6. Business Arising from the Minutes**
- 7. Unfinished Business**
 - A. Follow-Up Action Items from Previous Meetings

#	Meeting Date	Description of Action Item	Person Responsible
76	March 19, 2019	Staff to consider the creation of a policy for the Infrastructure Committee and report back to Council.	CAO DeJong
83	April 2, 2019	Item 8Aiii: Investigate option of falling outside the UCB to avoid future bylaws intended for larger municipalities	CAO DeJong
88	April 16, 2019	Councillor Abbott to follow up with former Mayor Douglas Miller re. BC Hydro Tiers – CAO DeJong to check on potential for making this a UBCM resolution and bring back to Council	Councillor Abbot/CAO DeJong
90	April 16, 2019	R4: Jennifer Monroe – Tree Cutting or Deforestation on School District property – PWM to respond	PWM Jaffer
92	April 16, 2019	R6: Penny Nelson – Public Consultation –	Councillor Cunliffe

		Councillor Cunliffe to respond	
93	June 4, 2019	G3: Preventing Child Sex Trafficking – staff to include their information on the municipal website under both the Community and Emergency pages	CAO DeJong
94	June 4, 2019	R1: Ivo Mencke – Highway Noise – Mayor McLaughlin to respond	Mayor McLaughlin

8. Reports

A. Staff

- i. CFO: 2018 Statement of Financial Information (Page 13)
 THAT Council approve the 2018 Statement of Financial Information for submission to the Ministry of Municipal Affairs and Housing; and

 THAT the 2018 Statement of Financial Information be made available for public inspection.
- ii. PWM: 110 Sunset Drive Encroachment Agreement (Page 21)
 (1) THAT the Municipality enter into an Encroachment Agreement with the Owners of 110 Sunset Drive in substantially the same form as the draft Agreement attached to this report; and

 (2) THAT the CAO and Mayor be authorized to execute the Agreement.
- iii. PWM: Drinking Water Quality Report (Page 35)
 THAT the 2018 Annual Drinking Water Quality Report be received, and

 THAT the 2018 Annual Drinking Water Quality Report be made available on the Municipal website.
- iv. CAO: Insurance Coverage for Community Facility User Groups (Page 95)
 THAT the Information Report, “Insurance Coverage for Community Facility User Groups” be received.

B. Mayor – None

C. Council

- i. Councillor Bain: Evacuation Plan Select Committee (Page 97)
 THAT Council approve the formation of a Select Committee to begin drafting an interim evacuation plan that will serve as the basis for future, more detailed evacuation plans;
 OR

THAT Council approve the formation of a Select Committee to begin compiling information that will inform the creation of optional evacuation routes for each neighbourhood, to be added as appendices to the current Evacuation Plan.

AND

THAT Councillor Bain and CAO DeJong work on a Terms of Reference and put together a list of potential committee candidates for Council's consideration at the next Council meeting.

D. Committees – None

E. Emergency Services – None

9. Resolutions

A. Crown Lease Renewal (Page 99)

THAT Crown Lease No. 234162 be renewed and that staff submit the Replacement Application for Community/Institutional Use to the Province.

B. Relaxation of Noise Bylaw – 140 Lions Bay Avenue (Page 107)

THAT Council relax the Noise Bylaw and the Traffic and Parking Bylaw to allow live music until 10:30pm at 140 Lions Bay Avenue on Thursday July 18th, and waive permit parking during this time for our Lions Bay House Concert.

10. Bylaws

A. Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019 – Adoption (Page 109)

THAT Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019 be adopted.

B. Lions Bay Parks and Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019 – Adoption (Page 125)

THAT Lions Bay Parks and Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019 be adopted.

11. Correspondence

A. List of Correspondence to June 13, 2019 (Page 139)

THAT the following actions be taken with respect to the correspondence:

12. New Business

13. Public Questions & Comments (2 minutes on any topic discussed in this meeting)

14. Closed Council Meeting

Proposed topics for discussion in the absence of the public:

A. Discussion re. Infrastructure Committee

THAT the meeting be closed to the public on the basis of matters to be considered under the following sections of the *Community Charter*:

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:

a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality;

Council does not anticipate reconvening the open meeting for any purpose other than to adjourn the meeting generally.

15. Reporting Out from Closed Portion of Meeting

16. Adjournment



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

**REGULAR MEETING OF THE COUNCIL
OF THE VILLAGE OF LIONS BAY
HELD ON TUESDAY, JUNE 4, 2019 at 7:00 PM
COUNCIL CHAMBERS, 400 CENTRE ROAD, LIONS BAY**

MINUTES

In Attendance:

Council: Mayor Ron McLaughlin
Councillor Neville Abbott
Councillor Fred Bain
Councillor Norm Barmeier
Councillor Jaime Cunliffe

Staff: Chief Administrative Officer Peter DeJong
Chief Financial Officer Pamela Rooke
Public Works Manager Nai Jaffer
Office Coordinator Shawna Gilroy (Recorder)

Delegations: 0

Public: 6

1. Call to Order

Mayor McLaughlin called the meeting to order at 7:02 p.m.

2. Adoption of Agenda

Moved/Seconded

THAT item 8Av – Personnel Complement be added; and

THAT item 8Di: Request for Decision - Tree Application #94 – 52 Brunswick Beach Road (On Table Report) be further added to the existing item 8Di; and

THAT item 14C – Kelvin Grove Lot be added as a reason to close under section 90(1)(e); and

THAT the agenda be adopted, as amended.

CARRIED

3. Public Participation (2 minutes per person totalling 10 minutes maximum)

A. Ruth Simons

Ms. Simons spoke about the manifestations of climate change this past winter with many affected by 4 major storm events around Howe Sound - many groups around the Sound been busy on shoreline cleanups, the Howe Sound wide clean up resulted in over 40 pickup truck loads of debris. She reminded Council that Lions Bay made a commitment to climate action strategy and signed on to the BC Climate Action Charter with commitments included as an addendum in the OCP. Ms. Simons wished to reinvigorate that conversation and discuss how the Village can take advantage of the incentive programs out there to make changes in order to mitigate costs in the future and offered to host a workshop for the community and provide information on steps that Council and residents can initiate. Councillor Abbott suggested that a community-wide plan would advance the Village toward a carbon free goal and Mayor McLaughlin invited Councillor Abbott to work with Ms. Simons. Support was expressed for a workshop to be put on by Ms. Simons in the fall.

4. Public Delegation Requests Accepted by Agenda Deadline (10 minutes maximum)

None

5. Review & Approval of Minutes of Prior Meetings

A. Regular Council Meeting – May 14, 2019

Councillor Abbott noted that Mr. and Mrs. Azordegan were responded to with respect to their questions during public participation by CAO DeJong.

Moved/Seconded

THAT the Regular Council Meeting Minutes of May 14, 2019 be approved as circulated.

CARRIED

6. Business Arising from the Minutes

A. Item 8Ai – 1 Brunswick Beach Road Encroachment Application

In response to a question from Councillor Abbott, CAO DeJong clarified that there was an encroachment agreement registered against the title of the property at 1 Brunswick Beach Road; however there was no survey attached, and it only referenced the carport. Ultimately the resident did provide a copy of the survey done at that time, but it and the agreement will need to be amended in respect of the deck and then resubmitted to the LTO. CAO DeJong will follow up with this matter.

7. Unfinished Business

A. Follow-Up Action Items from Previous Meetings

#	Meeting Date	Description of Action Item	Action
76	March 19, 2019	Staff to consider the creation of a policy for the Infrastructure Committee and report back to Council.	[In progress]
83	April 2, 2019	Item 8Aiii: Investigate option of falling outside the UCB to avoid future bylaws	[In progress]

		intended for larger municipalities	
88	April 16, 2019	Councillor Abbott to follow up with former Mayor Douglas Miller re. BC Hydro Tiers – CAO DeJong to check on potential for making this a UBCM resolution and bring back to Council	CAO DeJong provided Council with the history of a previous UBCM resolution re. this matter which the BCUC rejected. CAO to check with Metro re. woodburning initiative.
90	April 16, 2019	R4: Jennifer Monroe – Tree Cutting or Deforestation on School District property	[In progress]
92	April 16, 2019	R6: Penny Nelson – Public Consultation	[In progress]

Audio: 00:21

8. Reports

A. Staff

i. CFO: Council Meeting Dates

Staff proposed pushing the June and July meetings back to minimize the length of the August break, and further pushing the September and October meetings back by a week to allow for agenda package preparations after the vacation period in August. Councillor Abbott stated that he had already booked all of his vacations around the current schedule and preferred not to change them. Council agreed to keep the schedule as is, but add a Special Council meeting on June 25th at 5 pm and to cancel the September 3rd meeting.

Moved/Seconded

THAT Council approve the following amendments to the 2019 Council Meeting Schedule:

- Add a Special Council Meeting on June 25, 2019 at 5:00 pm; and
- Cancel the Regular Council Meeting on September 3, 2019.

CARRIED

Item 8Aii – Kelvin Grove Wastewater Treatment Plant Replacement was tabled until after the closed portion of the meeting when it was taken off the table and considered.

ii. PWM: Kelvin Grove Wastewater Treatment Plant Replacement

PWM Jaffer updated Council on the status of the Waster Water Treatment Plant and led Council through the staff report on the Agenda. Staff will communicate updates to the residents through the Village Update this week.

Moved/Seconded

A. THAT staff be directed to draft an RFP for engineering services in pursuit of replacement of the existing Rotating Batch Contactor (RBC) plant with a new RBC plant within the confines of the existing concrete structure subject to:

- i. Review of the existing concrete structure to determine if remediation or protective coatings are required to enhance longevity;
- ii. Review of the specifications for a proposed new RBC and verification of flows, and discharge volumes;
- iii. Determination of the maximum loading (number of connections) possible with the proposed system, including any enhancements which could further increase the number of connections possible within the confines of the existing concrete structure while keeping within the maximum daily discharge allowance under our current permit;
- iv. Review of the electrical and controls specifications of the new RBC;
- v. Determination of SCADA connectivity of the new RBC and whether it can be retrofitted; and, most importantly,
- vi. Working with the Ministry of the Environment (MOE) to facilitate the replacement of the RBC within our existing permit allowances.

B. THAT, if MOE agrees to allow the Municipality to proceed with a replacement RBC plant, then staff be directed to proceed with a competitive bid process for the RBC plant, with the engineer to provide any engineering/project management requirements associated with construction/installation by the winning RBC bidder.

C. THAT, if the MOE cannot be persuaded to extend the current discharge permit terms under a replacement RBC plant, then staff to proceed with an RFP for an engineering study to determine the best option to meet regulatory requirements and the Municipality's own key goals and objectives (e.g.: cost effective, scalable technology, operationally efficient, etc.).

CARRIED

Audio: 00:31

iii. CAO: Strategic Goals and Priorities for 2019

Council reviewed the updated 2019 Strategic Goals and Priorities document which included the changes from the December workshop. It was noted that the Average Speed Over Distance (ASOD) item was missing from the document and should be included in the final version. The Strategic Goals and Priorities will be included in the 2018 Annual Report and will be available to the public by June 11, and in the Village Update on June 14 and 21, 2019.

Moved/Seconded

(1) THAT the "Village of Lions Bay Corporate Strategic Planning and Priority Setting 3.0: December 2018 Update for 2019" be received; and

(2) THAT the Village of Lions Bay Corporate Strategic Plan for 2019, consisting of the Goals, Priority Actions and Target Timelines be approved, as amended.

CARRIED

iv. CAO: Towing Policy No. 1602

A small amendment was made to the Towing Policy clarifying the wording and intent of section 1(h) as well as adding the Sunset Trailhead Parking Lot to the section.

Moved/Seconded

THAT Towing Policy No. 1602 be approved, as amended.

CARRIED

v. Personnel Complement

CAO DeJong informed Council that the Executive Assistant job has been posted to replace Shawna Gilroy, who will transition to the Administrative Assistant role once her position has been filled. He also noted that the Deputy Emergency Planning Coordinator job has also been posted and was also circulated to local emergency management organizations.

Moved/Seconded

THAT the Personnel Complement verbal report be received.

CARRIED

B. Mayor

None

C. Council

None

Audio: 00:47

D. Committees

i. Trees, Views and Landscapes Committee – Tree Application #94: 52 Brunswick Beach Road

CAO DeJong provided a report to Council regarding the Tree Committee meeting on site at 52 Brunswick Beach on Friday, May 31, 2019 outlining responses to the questions posed by the Committee (which did not make a recommendation on the application). The application was to remove 3 very large fir trees from the bank of the Esplanade backing onto 52 Brunswick Beach's property. The report can be found in the On Table Items at the end of the posted Agenda on the Municipal website. CAO DeJong to report back to the tree committee on Council's decision as well as to ask them to address two comments in the minutes which were disputed by the applicants in attendance at the meeting.

Moved/Seconded

THAT Council table the draft minutes and refer back to the tree committee to address two comments in the minutes which were disputed by the applicants in attendance at the meeting.

CARRIED

Moved/Seconded

THAT Council reject the application to cut any of the 3 fir trees but allow some pruning of the cedar below the middle of the bank, per the recommendations of the staff horticulturalist, and require the applicant to provide a root protection plan by a certified arborist prior to the issuance of a building permit.

CARRIED

E. Emergency Services

None

9. Resolutions

None

Audio: 01:31

10. Bylaws

A. Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019 – Three Readings

The bylaw was amended to include “no person shall camp, loiter, or imbibe alcohol, either by day or night, on any highway”.

Moved/Seconded

THAT Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019 be introduced and given three readings as amended.

CARRIED

B. Lions Bay Parks and Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019 – Three Readings

The bylaw was amended to include “no person shall fly any motor driven glider or aircraft, including a drone”.

Moved/Seconded

THAT Lions Bay Parks and Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019 be introduced and given three readings as amended.

CARRIED

Audio: 01:43

11. Correspondence

A. List of Correspondence to May 30, 2019

Moved/Seconded

THAT the following actions be taken with respect to the correspondence:

- G1: E-Comm 911 – no response
- G2: South Fraser Community Rail re. TransLink Council – no response
- G3: Preventing Child Sex Trafficking – staff to include their information on the municipal website under both the Community and Emergency pages
- G4: Metro Vancouver re. Transit-Orientated Affordable Housing Study – no response
- R1: Ivo Mencke – Highway Noise – Mayor McLaughlin to respond

CARRIED

12. New Business

None

13. Public Questions & Comments (2 minutes on any topic discussed in this meeting)

14. Closed Council Meeting

Proposed topics for discussion in the absence of the public:

- A. Kelvin Grove Wastewater Treatment Plant Replacement Costs
- B. Discussion re. Infrastructure Committee
- C. Kelvin Grove Lot

Moved/Seconded

THAT Council agrees it would be harmful to the interests of the Municipality to discuss matters dealing with the sale of the Kelvin Grove Lot in open meeting.

CARRIED

Moved/Seconded

THAT the meeting be closed to the public on the basis of matters to be considered under the following sections of the *Community Charter*:

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:

- a) personal information about an identifiable individual who holds or is being considered for a position as an officer, employee or agent of the municipality or another position appointed by the municipality;
- 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;

CARRIED

Council anticipates reconvening the open meeting to discuss the following item(s): 8Aii

The meeting was closed to the public at 8:52 p.m.

The meeting was re-opened to the public at 10:04 p.m.

15. Reporting Out from Closed Portion of Meeting

The following was reported out:

- Staff will provide for further discussion and consideration an amended Terms of Reference for the Infrastructure Committee at the next Council meeting on June 18; and
- The Kelvin Grove listing price is to be amended and will be made known to the public shortly.

16. Adjournment

Moved/Seconded

THAT the meeting be adjourned.

CARRIED

The meeting was adjourned at 10:19 p.m.

Mayor

Corporate Officer

Date Approved by Council:	
---------------------------	--



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Request for Decision		
Title	2018 Statement of Financial Information		
Author	Pamela Rooke	Reviewed By:	Peter DeJong
Date	June 13, 2019	Version	
Issued for	June 18, 2019 Regular Council Meeting		

RECOMMENDATION

THAT Council approve the 2018 Statement of Financial Information for submission to the Ministry of Municipal Affairs and Housing; and

THAT the 2018 Statement of Financial Information be made available for public inspection.

ATTACHMENTS

- Statement of Financial Information for the fiscal year ended December 31, 2018

KEY INFORMATION

All local governments must prepare an annual Statement of Financial Information (SOFI) in accordance with the *Financial Information Act*. The SOFI must be approved by the CFO and Council and made available for public viewing by June 30 each year. The SOFI includes:

- Schedule of Guarantee and Indemnity Agreements
- Schedule of Remuneration
- Statement of Severance Agreements
- Schedule of Amounts Paid to Suppliers for Goods or Services
- Statement of Financial information Approval
- 2018 Audited Financial Statements

FOLLOW UP ACTION

Assuming the Resolution is approved, staff will submit the SOFI to the Ministry of Municipal Affairs and Housing by the June 30 deadline and make the report available for public inspection on the Municipal website and at the front counter at the Village Office.



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

SCHEDULE OF GUARANTEE AND INDEMNITY AGREEMENTS FOR THE FISCAL YEAR ENDED DECEMBER 31, 2018 PURSUANT TO THE FINANCIAL INFORMATION ACT

SECTION 5

This organization has not given any guarantees or indemnities under the Guarantees and Indemnities Regulation.

Information on all Contingent Liabilities and Commitments for this organization is included in Note 7 to the Financial Statements.

Pamela Rooke, CFO

Ron McLaughlin, Mayor

**FINANCIAL INFORMATION ACT REPORT
Year Ended December 31, 2018**

**SCHEDULE OF REMUNERATION
SECTION 6**

<i>Name</i>	<i>Position</i>	<i>Remuneration*</i>	<i>Expenses**</i>
MAYOR & COUNCIL:			
Neville Abbott	Councillor	1,198.64	
Fred Bain	Councillor	7,191.85	15.65
Norman Barmerier	Councillor	7,191.85	
Karl Buhr	Mayor	11,986.38	4,013.83
Jaime Cunliffe	Councillor	1,198.64	
Jim Hughes	Councillor	5,993.21	
Ron McLaughlin	Councillor/ Mayor	8,390.49	
Total Council		43,151.06	4,029.48
STAFF:			
Employees in excess of \$75,000:			
Garth Begley	Public Works Foreman	100,955.16	259.99
Peter DeJong	Chief Administrative Officer	125,559.78	322.52
Nai Jaffer	Public Works Manager	96,860.81	119.99
Kyle McCallum	Public Works Technician 1	79,840.67	1,341.65
Neale Mullen	Public Works Technician 1	87,092.01	1,943.54
Pamela Rooke	Chief Financial Officer	97,760.76	2,811.78
Alberto Urrutia	Public Works Treatment Plant Operator1	103,725.89	781.47
Add amounts paid to Employees < \$75,000:		422,618.42	2,914.96
Total Staff		1,114,413.50	10,495.90
TOTAL COUNCIL AND STAFF		1,157,564.56	14,525.38

RECONCILIATION OF AMOUNTS PAID:

ADD: Benefits paid by employer (non taxable)	185,312.09
Other labour costs in financial statements ***	7,665.00
Salary and benefit accruals	23,586.35
Total \$	1,374,128.00

Total per Schedule 1 of the Financial Statements \$ 1,374,128.00

* Remuneration includes taxable benefits, vacation payouts and 3 years of retroactive salary adjustments for unionized staff.

** Expenses include travel expenses, memberships, tuition, relocation, vehicle leases, extraordinary hiring expenses, registration fees and similar amounts paid directly to an employee, or to a third party on behalf of the employee, and which has not been included in 'remuneration'.

*** Other labour costs includes contracted labour.



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

**SCHEDULE OF SEVERANCE AGREEMENTS
FOR THE FISCAL YEAR ENDED DECEMBER 31, 2018
PURSUANT TO THE FINANCIAL INFORMATION ACT**

SECTION 6 (7)

There were **no** severance agreements made between the Village of Lions Bay and its non-unionized employees during fiscal year 2018.

Prepared under the Financial Information Regulation, Schedule 1, subsection 6(8)

Pamela Rooke, CFO

Ron McLaughlin, Mayor

VILLAGE OF LIONS BAY

FINANCIAL INFORMATION ACT REPORT
Year Ended December 31, 2018SCHEDULE OF AMOUNTS PAID TO SUPPLIERS FOR GOODS AND SERVICES
SECTION 7

<i>Supplier Accounts</i>	<i>Amounts Paid in 2018</i>
AECOM Canada Ltd (<i>Water Tank Replacement Project</i>)	162,258.32
AON Reed Stenhouse (<i>Insurance</i>)	67,876.00
BC Assessment Authority ***	40,218.80
BC Hydro (<i>Utilities</i>)	45,598.31
BDO Canada LLP (<i>Village Auditors</i>)	36,064.05
Capilano Highway Services Company (<i>Kelvin Grove Lot Preparation</i>)	147,292.85
Cordilleran Geoscience (<i>Natural Hazard Assessment Areas</i>)	32,270.53
Creus Engineering Ltd (<i>KG Lot and Harvey Creek Engineering</i>)	33,852.79
E-COMM (<i>Fire Department & Public Works Radios</i>)	60,861.74
GVRD *** (<i>Metro Vancouver Regional District</i>)	50,222.00
ISL Engineering and Land Services Ltd. (<i>Bridge Inspections & Road Design</i>)	50,136.28
Lidstone & Company (<i>Legal Fees</i>)	41,209.77
Lucid Mgmt Group (<i>Bus Shelter</i>)	32,609.77
McRae's Environmental Services Ltd (<i>Sewage Treatment and Pump-out</i>)	36,205.05
Metro Vancouver (<i>Debt Repayment</i>)	173,125.74
Municipal Finance Authority (<i>Equipment Loan Repayment</i>)	30,574.71
Municipal Pension Plan (<i>Payroll - Employee and Employer remittances</i>)	154,335.83
North Construction (<i>Construction Work at Water Intakes</i>)	95,892.10
Pacific Blue Cross (<i>Payroll - Employee Benefits</i>)	32,890.59
Ramtech Environmental Products (<i>UV Reactor Parts - Intakes</i>)	26,737.88
Revenue Canada (<i>Payroll Remittances</i>)	288,207.48
School Tax ***	854,497.36
South Coast BC Transportation Authority *** (<i>Translink</i>)	211,168.21
Urban Systems Ltd.	36,645.00
Visa ScotiaBank (<i>Various Suppliers</i>)	45,961.40
Waste Control Services Inc. (<i>Solid Waste, Recycling and Organics Collection</i>)	182,667.89
Workers Compensation Board (<i>Payroll - Employee and Employer remittances</i>)	26,069.92
Xpert Valve Service & Maintenance (<i>PRV Maintenance - Water</i>)	32,177.25
Zeemac Vehicle Lease Ltd (<i>3 Public Works Truck Leases</i>)	40,507.75

There were no payments to suppliers for grants and contributions exceeding \$25,000

Total for Suppliers Paid > \$ 25,000	3,068,135.37
Other Supplier Payments	925,109.97
All Payments	3,993,245.34

*** Other Taxing Authority Payments

VILLAGE OF LIONS BAY

**SCHEDULE OF AMOUNTS PAID TO SUPPLIERS FOR GOODS AND SERVICES
RECONCILIATION TO FINANCIAL STATEMENTS**

All Payments	3,993,245.34
Reconciling Items:	
Payroll Related Expenditures (included in Remuneration report)	(536,140.20)
GST Recovered	(70,923.82)
Acquisition of Tangible Capital Expenditures	(398,555.00)
Flow throughs to other tax authorities	(1,156,304.37)
Debt/ Capital Lease Repayments	(262,988.00)
Other Items - Accrual/ Cash Accounting Differences	(125,669.95)
Total Payments for Goods and Services (per Schedule 1 of the Financial Statements)	1,442,664.00
Debt charges - interest	108,858.00
Amortization	497,670.00
Labour	1,374,128.00
Total Expenses	3,423,320.00
Total Expenses per the Financial Statements	3,423,320.00

 Pamela Rooke, CFO

 Ron McLaughlin, Mayor



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

**STATEMENT OF FINANCIAL INFORMATION APPROVAL
FOR THE FISCAL YEAR ENDED DECEMBER 31, 2018
PURSUANT TO THE FINANCIAL INFORMATION ACT**

SECTION 9 (2)

The undersigned, as authorized by the Financial Information Regulation, Schedule 1, subsection 9(2), approves all the statements and schedules included in this Statement of Financial Information, produced under the *Financial Information Act*.

Pamela Rooke
CFO
Date:

Ron McLaughlin
Mayor, on behalf of Council
Date:

Intentionally Blank



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Request for Decision		
Title	110 Sunset Drive Encroachment Agreement		
Author	Nai Jaffer	Reviewed By:	Peter DeJong
Date	June 13, 2019	Version	
Issued for	June 18, 2019 Council Meeting		

Recommendation:

- (1) THAT the Municipality enter into an Encroachment Agreement with the Owners of 110 Sunset Drive in substantially the same form as the draft Agreement attached to this report; and
- (2) THAT the CAO and Mayor be authorized to execute the Agreement.

Attachments:

- (1) Draft Encroachment Agreement for 110 Sunset Drive;
- (3) Plan view drawing indicating the encroachment

Key Information:

The owner wishes to create a paved sports court as a play area for their children. The intent is to install a fence and hedge along the Mountain Drive portion thereby enclosing the area. The resultant encroachment would still leave a 15-foot section of boulevard between the sports court and the edge of pavement. No infrastructure would be impacted by the retaining wall or the fence and hedge, and there are no tangible risks associated with the application. Drainage is on the other side of the road. No other property owners are impacted.

Options:

- (1) Approve the application;
- (2) Amend the recommendations and approve the application;
- (3) Do not approve the application and instruct staff otherwise.



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Preferred Option: Approve the application. The proposed structure does not impact the Municipality's ability to utilize the boulevard, now or in the future; nor does it pose a tangible risk for the Municipality. It will not interfere with any Municipal infrastructure.

Financial Considerations: None

Legal Considerations: Encroachment agreement attached. Section 219 LTO covenant not required in the circumstances.

Follow Up Action: Per Council direction.

Communication Plan: N/A

**HIGHWAY ENCROACHMENT AGREEMENT
(LICENSE TO OCCUPY)**

THIS AGREEMENT dated for reference the 18th day of June, 2019.

BETWEEN:

Mick Vassilev and Kelly Aimers, residing at 110 Sunset Drive, Lions Bay BC, V0N 2E0
(hereinafter called the “**Licensee**”)

AND:

THE VILLAGE OF LIONS BAY, a municipal corporation, having offices at 400 Centre Road,
Lions Bay BC, V0N 2E0
(hereinafter called the “**Municipality**”)

GIVEN THAT:

- A. The Municipality holds ownership and possession of highways lying and being in the Village of Lions Bay in the Province of British Columbia as per s. 35(1) of the *Community Charter*. The highway subject to this agreement is outlined in dotted lines and shown as “Area of Encroachment” on the sketch plan attached as Schedule “1”

(the “**Road**”).
- B. The Licensee is the fee simple owner of those lands adjacent to the Road being in the Village of Lions Bay in the Province of British Columbia, more particularly known and described as:

Lot 45 District Lot 1814 Plan 14452 Block A
PID: 007-822-146

(the “**Licensee’s Property**”).
- C. The Licensee wishes to encroach upon an area of the Road as indicated on Schedule “1” to this agreement (the “**License Area**”).
- D. The Municipality has agreed that the Licensee may occupy the License Area for the purposes and on the terms and conditions herein set forth.

NOW THEREFORE THIS AGREEMENT WITNESSES that in consideration of the premises and covenants contained herein and sum of \$10.00 now paid by the Licensee to the Municipality and other good and valuable consideration, the receipt and sufficiency of which is hereby acknowledged, the parties agree as follows:

1. **Grant of License** – The Municipality, on the terms and conditions set forth herein, grants to the Licensee the non-exclusive right and license (the “**License**”) to construct and maintain in good working order the following structures in the License Area as identified in Schedule “2”:

- (a) retaining walls designed by a qualified registered professional;
- (b) hard surface sport court;
- (c) fencing erected by the Licensee or their contractors or agents immediately adjacent to the retaining walls and sport court;
(the “**Proposed Structures**”)

for only the Licensee and its permitted assigns and their servants, agents and invitees and for the Municipality and its successors and assigns and their servants, agents and invitees, PROVIDED THAT the Licensee shall keep the retaining walls and fencing in good condition and abide by the terms of this Agreement.

2. **Term and Renewal** – This License shall commence on the **18th day of June, 2019** (the “**Commencement Date**”), and shall terminate upon the occurrence of any of the circumstances detailed in section 3, unless otherwise agreed in writing by the Municipality.

3. **Termination**

- (a) This License does not create any interest in property and is exclusively for the benefit of the Licensee. The License will automatically terminate upon any of the following occurrences:
 - (i) the Licensee disposing of the Licensee’s Property by sale, agreement for sale or lease, unless it has been assigned in accordance with section 12 of this agreement, failing which the purchaser may be required to remove the Proposed Structures;
 - (ii) the Proposed Structures being torn down, removed, or replaced;
 - (iii) at any time upon the Licensee providing written notice to the Municipality of intention to terminate, in which case the obligations specified in section 9 of this Agreement shall commence;
 - (iv) at any time upon the Municipality providing at least 6 months written notice of termination to the Licensee; or
 - (v) where the Council of the Village of Lions Bay considers that, in its sole discretion, the interest of the public in the highway on which the Encroachment Area lies makes it necessary or advisable, or in the case of

an emergency, the Council may shorten or eliminate the time limits in this section.

- (b) The License may be cancelled or terminated despite any rule of law or equity to the contrary in accordance with any of the following provisions:
 - (i) if the Licensee defaults in the observance or performance of any of the terms and conditions contained in this License and the Licensee fails to cure such default(s) within 30 days after written notice from the Municipality then the Municipality will be entitled to terminate the License without limiting the Municipality's other remedies at law or at equity; and
 - (ii) if the default under subsection (i) reasonably requires more time to rectify or cure than 30 days, the Licensee will be deemed to have complied with the rectification or curing of it if the Licensee commences rectifying or curing the default within 30 days after notice from the Municipality and diligently completes same as soon thereafter as is reasonably practical.

All of the Licensee's obligations under this License that are outstanding on the date that this License is terminated will survive the termination of this Agreement. For certainty, the Licensee's obligations to release and indemnify the Municipality shall survive the termination of this Agreement, but only in respect of events occurring before termination of this Agreement.

- 4. **License and Permit Fees** – If applicable, the Licensee shall obtain a Driveway Crossing Permit pursuant to Driveway Crossings Bylaw No. 521, 2017 and pay to the Municipality in advance the required fees in accordance with Fees Bylaw No. 497, 2016, as amended.
- 5. **Powers** – For the purposes of the License herein, the Licensee and its servants, agents and invitees shall have the right to:
 - (a) use the License Area;
 - (b) have unobstructed access to and from the License Area at any and all times;
 - (c) clear the License Area and keep it clear of anything which might in the opinion of the Municipality, acting reasonably, constitute an obstruction to the use of the License Area by the Licensee; and
 - (d) do all other things on the License Area as may be reasonably necessary, desirable and incidental to the use of the License Area.
- 6. **Municipality May Access and May Undertake Work** – The Municipality shall have free access to all parts of the License Area. The Municipality is not required to give any notice to effect any repairs or maintenance to the License Area or a slope or drainage ditch below the License Area.

7. **No Other Improvements** – The Licensee will not, without the prior written consent of the Municipality, construct, install, affix, place or store or permit the construction, installation, affixing, placing or storage of any buildings, structures, works, improvements, fencing, or materials on any part of the License Area.
8. **Use** – The Municipality will at all times have a priority right to use and occupy any portion or all of the License Area, without notice, in order to access other portions of the Road, or the Licensee's property, or to carry out any public service or responsibility that requires use of or access to the License Area.

The Licensee acknowledges and agrees that, by granting this Agreement, the Municipality is not accepting any responsibility for the Licensee's use of the License Area. The Licensee shall use best efforts to cause a minimum of obstruction and inconvenience in constructing and maintaining the Proposed Structures in the License Area.

9. **Site Clean-up** – Upon termination of this License, the Licensee will leave the License Area in a tidy condition, and the Licensee, if required by the Municipality in its sole discretion, shall remove all structures and personal property belonging to the Licensee within 60 days after termination of this Agreement. Any structures or personal property not removed by the Licensee shall become the absolute property of the Municipality free of all encumbrances, without payment of any compensation to the Licensee or may, at the Municipality's option, be removed and the expense thereof shall constitute a debt due and owing to the Municipality by the Licensee.
10. **No Waste or Nuisance** – The Licensee will not commit or allow any wilful or voluntary waste or destruction of the License Area, or do anything that may become a nuisance or annoyance to other occupiers of the Road or adjoining lands. The Licensee will not stockpile or burn any materials on the License Area.
11. **Compliance with Laws** – The Licensee will at all times during the currency of this License use the License Area in compliance with all statutes, laws, regulations and orders of any authority having jurisdiction and, without limiting the generality of the foregoing, all federal, provincial, or local government laws or statutes or bylaws relating to environmental matters, including all the rules, regulations, policies, guidelines, criteria or the like made under or pursuant to any such laws.
12. **Assignment** – Except as expressly set out herein, the rights granted to the Licensee under this Agreement may not be sublicensed, assigned, or otherwise transferred. The Licensee may assign its interest under this License with the prior written consent of the Municipality, such consent not to be unreasonably withheld or delayed.
13. **Risk** – The Licensee accepts the License Area on an as-is basis and agrees that it will use the License Area at its own risk, and that the Municipality will not be liable in respect of any loss of life, personal injury, damage to property or loss of property suffered by the

Licensee, its servants, agents, or invitees arising out of this Agreement or its or their use and occupation of the License Area.

14. **Indemnity** – The Licensee hereby indemnifies and saves harmless the Municipality, its officers, directors, elected officials, employees and agents from and against any and all losses, claims, costs, expenses, damages and liabilities, causes of action, suits and judgments including all costs of defending or denying the same, and all costs of investigation, monitoring, remedial response, removal, restoration or permit acquisition and including all solicitor's fees and disbursements in connection therewith which at any time may be paid or incurred by or claimed against the Municipality, its officers, directors, elected officials, employees, agents and invitees arising, directly or indirectly, out of:
- (a) the uses of the Licensee under this License;
 - (b) a breach by the Licensee of any of the covenants contained in this License;
 - (c) any wrongful act or neglect of the Licensee on or about the License Area;
 - (d) any damage to property related to the Licensee's use and occupancy of the License Area;
 - (e) the death of or injury to any person arising out of or in any way connected with, directly or indirectly, the Licensee's use and occupancy of the License Area.

This section does not apply to liabilities, damages, costs, claims, suits or actions arising out of the gross negligence or willful misconduct of the Municipality, its agents, servants, employees or contractors.

15. **Insurance** – The Licensee shall obtain and keep in force throughout the existence of the License insurance naming the Municipality as an additional insured and protecting the Municipality and the Licensee (without any rights of cross-claim or subrogation against the Municipality) against claims by any person, including any member of the public using the Road, for personal injury, death, property loss or damage, and third party liability or public liability claims arising from any accident or occurrence on the Road or other loss relating to the Licensee's use of the Road to an amount of not less than Two Million (\$2,000,000.00) Dollars per occurrence (the "**Insurance Policy**").
- (a) The Insurance Policy shall provide that it is not terminable or alterable without the giving of 30 days' written notice to the Municipality.
 - (b) At the time of execution of this License, the Licensee shall deliver to the Municipality a copy of the Insurance Policy or an insurance binder or note evidencing that the Licensee has obtained the Insurance Policy on the terms set out herein.

- (c) At any time during the Term of this License the Municipality may require the Licensee to provide evidence to it that the Insurance Policy is valid and in full effect.
16. **Breach** – In the event that the Licensee breaches any term, condition, or provision of this Agreement, the Licensee shall remedy the breach within 30 days of receipt of a notice from the Municipality and if the breach is not remedied within that time period, all rights accruing to the Licensee under this Agreement shall cease without further notice to the Licensee, unless the Municipality, in its sole discretion, decides otherwise.
17. **Municipality May Take Action** – If the Licensee fails to do any matter required of them under this Agreement, the Municipality is entitled to take all such actions on the Licensee's behalf and at the Licensee's cost as are reasonably necessary to rectify the Licensee's failure, but the Municipality is in no circumstance liable for not taking such action or its manner of doing so, provided that the Municipality acts reasonably. The Licensee shall pay to the Municipality the costs the Municipality incurs pursuant to this provision forthwith upon receipt of an invoice.
18. **General**
- (a) This Agreement will enure to the benefit of and be binding upon the Licensee and its successors, administrators and approved assigns and upon the Municipality and its successors, administrators and assigns.
 - (b) Every reference to each party is deemed to include the heirs, executors, administrators, corporate successors, servants, employees, agents, contractors, officers, licensees and invitees of such party, wherever the context so requires or permits.
 - (c) Wherever the singular or masculine or neuter is used in this Agreement, the same shall be construed as meaning the plural, the feminine or body corporate where the context or the parties thereto so require.
 - (d) The Schedules attached to this Agreement form part of this Agreement.
 - (e) This Agreement constitutes the entire agreement between the parties and no understanding or agreement, oral or otherwise, exists between the parties with respect to the subject matter of this Agreement except as expressly set out in this Agreement, and this Agreement may not be modified except by subsequent agreement in writing between the parties.
 - (f) Time is of the essence of this Agreement.
 - (g) The section headings have been inserted for reference only and do not define, limit, alter or enlarge the meaning of any provision of this Agreement.

- (h) The Licensee's use of the License Area will under all circumstances be viewed as a license only and will not create nor be deemed to create any property interest in favour of the Licensee in the License Area.
- (i) This Agreement shall be governed by and construed in accordance with the laws of the Province of British Columbia.
- (j) Nothing contained or implied in this Agreement shall fetter in any way the discretion of the Municipality or the Council of the Village of Lions Bay. Further, nothing contained or implied in this Agreement shall derogate from the obligation of the Licensee under any other agreement with the Municipality or, if the Municipality so elects, prejudice or affect the Municipality's rights, powers, duties or obligation in the exercise of its functions pursuant to the *Community Charter* or the *Local Government Act*, as amended or replaced from time to time, or act to fetter or otherwise affect the Municipality's discretion, and the rights, powers, duties and obligations of the Municipality under all public and private statutes, by-laws, orders and regulations, which may be, if the Municipality so elects, as fully and effectively exercised in relation to the Road as if this Agreement had not been executed and delivered by the Licensee and the Municipality.

END OF PAGE

IN WITNESS WHEREOF the parties have executed this Agreement as of the date first above written.

Village of Lions Bay)
by its authorized signatories:)
)
)
)
)
_____)
Mayor)
)
)
)
_____)
Corporate Administrator)

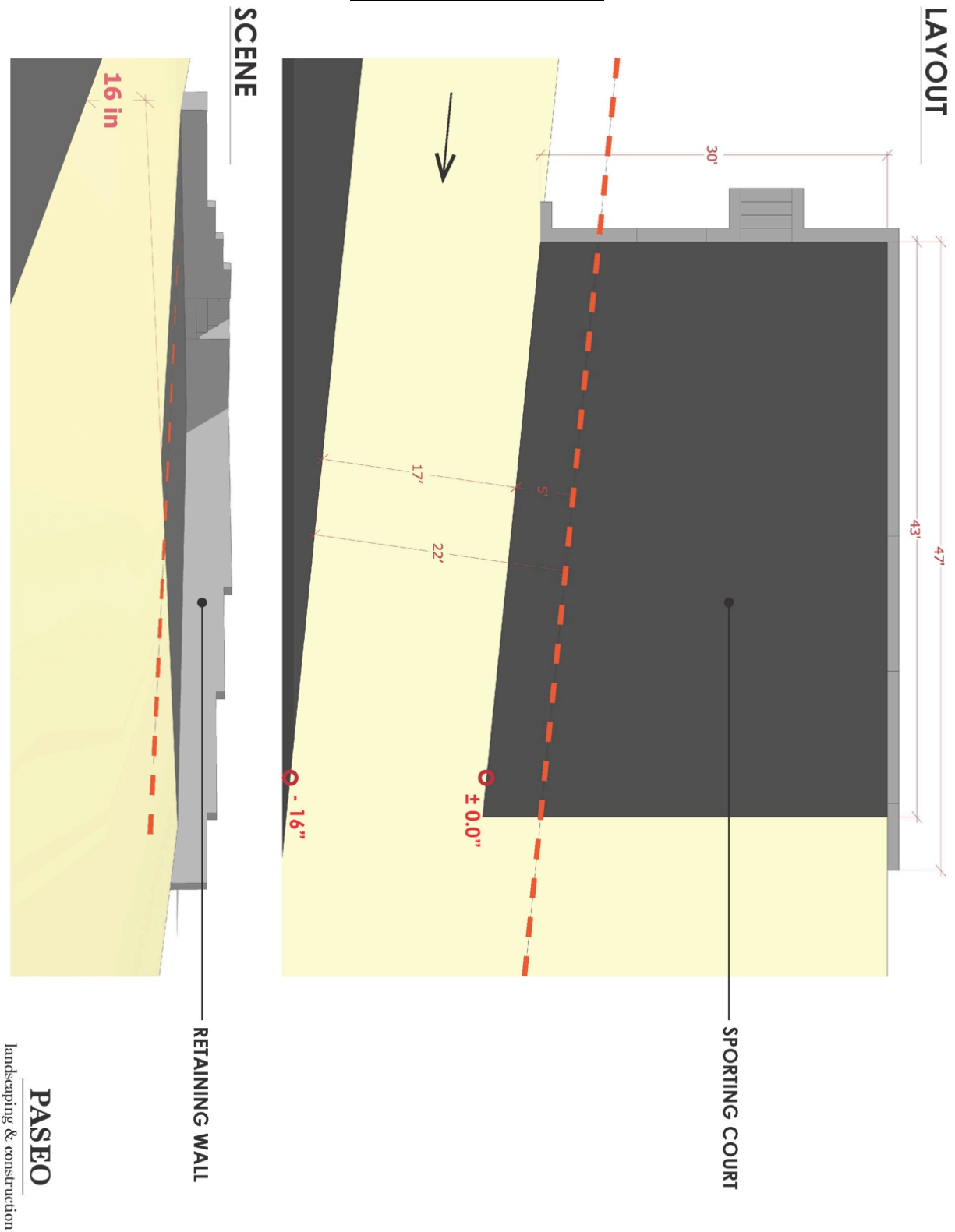
MICK VASSILEV)
)
_____)
Signature)
)
)
)
)
)

KELLY AIMERS)
)
_____)
Signature)
)
)
)
)
)

SCHEDULE 1 - SKETCH PLAN OF ROAD AND LICENSE AREA



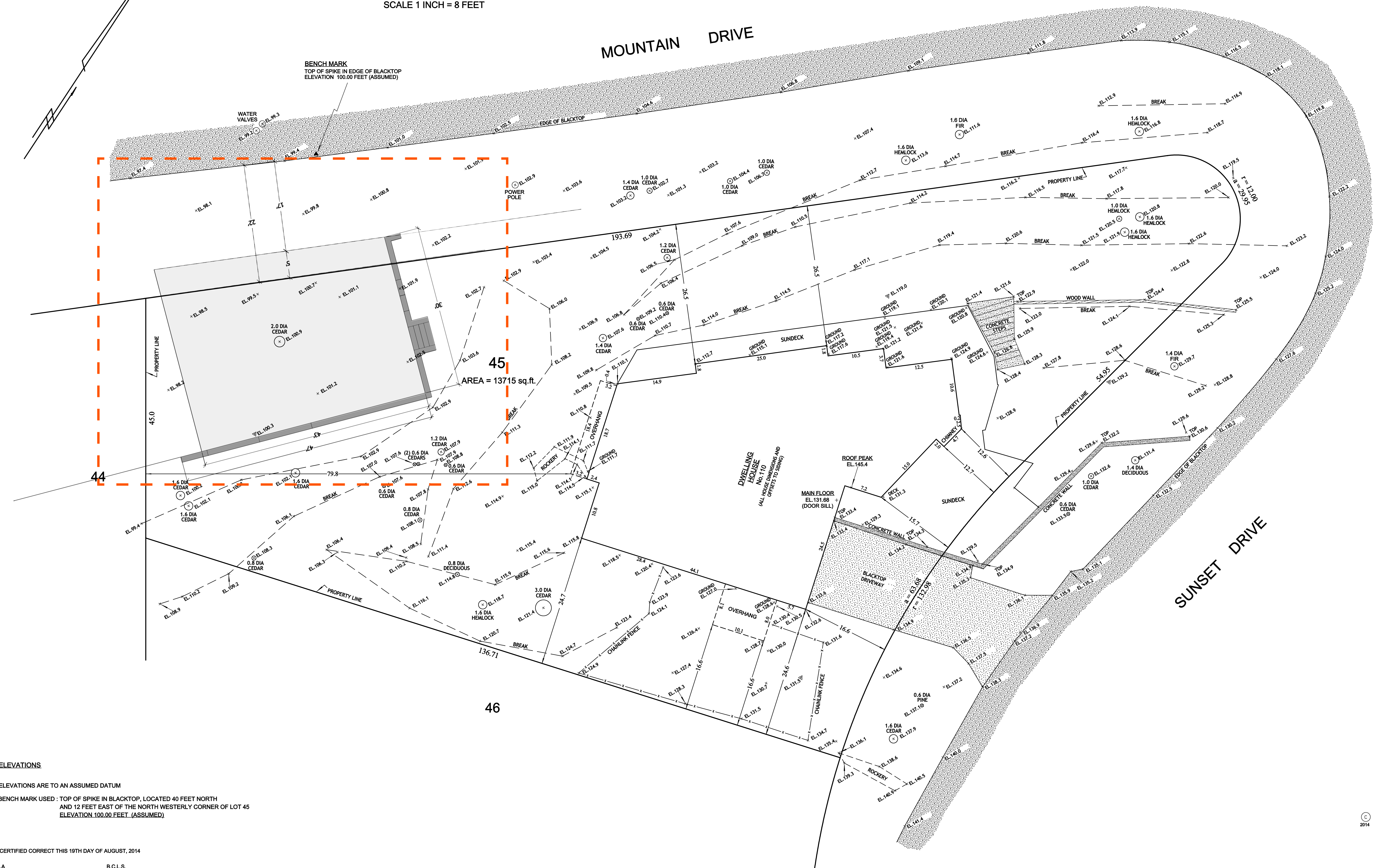
SCHEDULE 2
PROPOSED STRUCTURES



TOPOGRAPHIC SURVEY PLAN OF LOT 45, BLOCK 'A',
DISTRICT LOT 1814, PLAN 14452

P.I.D. 007-822-146

SCALE 1 INCH = 8 FEET



ELEVATIONS

ELEVATIONS ARE TO AN ASSUMED DATUM

BENCH MARK USED : TOP OF SPIKE IN BLACKTOP, LOCATED 40 FEET NORTH
AND 12 FEET EAST OF THE NORTH WESTERLY CORNER OF LOT 45
ELEVATION 100.00 FEET (ASSUMED)

CERTIFIED CORRECT THIS 19TH DAY OF AUGUST, 2014

ALA

B.C.L.S.

THIS DOCUMENT IS NOT VALID UNLESS
ORIGINALLY SIGNED AND SEALED

© 2014 THIS PLAN IS THE COPYRIGHT PROPERTY
OF HOBBS, WINTER & MacDONALD.
UNAUTHORIZED USE OR REPRODUCTION
IS STRICTLY PROHIBITED

**HOBBS, WINTER & MacDONALD,
B.C. LAND SURVEYORS,
113-828 HARBOURSIDE DRIVE,
NORTH VANCOUVER, B.C., V7P 3R9,
TEL 604 986 1371 FAX 604 986 5204**

Intentionally Blank



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Information Report		
Title	2018 Annual Drinking Water Quality Report		
Author	Naizam Jaffer	Reviewed By:	Peter DeJong
Date	June 13, 2019	Version	1.0
Issued for	June 18, 2019 Regular Council Meeting		

Recommendation:

THAT the 2018 Annual Drinking Water Quality Report be received, and
 THAT the 2018 Annual Drinking Water Quality Report be made available on the Municipal website.

Attachments:

(1) 2018 Annual Drinking Water Quality Report

Key Information:

Pursuant to the requirements of the *BC Drinking Water Protection Act* and the *BC Drinking Water Protection Regulation*, the Municipality is required to prepare and make public an annual report detailing the results of the drinking water monitoring program.

Each year, water throughout the distribution system is tested for bacteriological, physical, and chemical parameters including disinfection by-products. In 2018, Municipal staff conducted approximately 2000 daily samples that were analyzed for chlorine residual and turbidity and approximately 400 additional samples that were sent to Metro Vancouver's laboratory for total coliform and *Escherichia coli* analysis. A further 34 samples were sent to an independent third-party laboratory for detailed analysis including metals composition, organic loading, and disinfection by-products.

In 2018, municipally treated water in the Village of Lions Bay did not exceed any maximum limits recommended by Health Canada or the U.S. Environmental Protection Agency. Overall, the residents of the Municipality enjoy a very high quality of drinking water in large



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

part due to the actions of Municipal staff who continue to employ best management practices in the operation and maintenance of the water system.

In closing, the Municipality appreciates the good working relationship with Vancouver Coastal Health staff and acknowledges the Health Authority as a partner in maintaining high quality drinking water in the municipality.

Follow Up Action:

Provide the 2018 Annual Drinking Water Quality Report to Vancouver Coastal Health in compliance with the *BC Drinking Water Protection Act* and the *BC Drinking Water Protection Regulation*.

Communication Plan:

Post the 2018 Annual Drinking Water Quality Report to the Village of Lions Bay website.



Lions Bay Drinking Water Quality 2018 Annual Report

LIST OF ABBREVIATIONS

AC	=	Asbestos Cement
BBR	=	Brunswick Beach Road
BWA	=	Boil Water Advisory
CEU	=	Continuing Education Unit
CI	=	Cast Iron
CWWF	=	Clean Water and Wastewater Fund
DI	=	Ductile Iron
E. coli	=	Escherichia Coli
EMBC	=	Emergency Management BC
EOCP	=	Environmental Operators Certification Program
FLNRO	=	Ministry of Forests, Lands, Natural Resources, and Operations
GVWD	=	Greater Vancouver Water District
HOCl	=	Hypochlorous Acid
KGW	=	Kelvin Grove Way
L	=	Litre
LBA	=	Lions Bay Avenue
m ³	=	Cubic Meters
mg	=	Milligram
ML	=	Mega Litre
mL	=	Millilitre
MOU	=	Memorandum of Understanding
NaOCl	=	Sodium Hypochlorite
NBCF	=	New Building Canada Fund
NRW	=	Non-Revenue Water
NTU	=	Nephelometric Turbidity Units
OCl ⁻	=	Hypochlorite Ion
ppb	=	Parts Per Billion
ppm	=	Parts Per Million (Equal To 1 Mg/L)
PRV	=	Pressure Regulating Valve
PVC	=	Polyvinyl Chloride
SCADA	=	Supervisory Control and Data Acquisition
THM	=	Trihalomethane
UBC	=	University of British Columbia
USEPA	=	United States Environmental Protection Agency
UV	=	Ultraviolet
UVT	=	Ultraviolet Transmittance
VCH	=	Vancouver Coastal Health Authority
VOLB	=	Village of Lions Bay
WHO	=	World Health Organization
WTP	=	Water Treatment Plant

Contents

LIST OF ABBREVIATIONS	2
EXECUTIVE SUMMARY	5
INTRODUCTION	6
BACKGROUND	6
SOURCE WATER	7
Licenses	7
FOUR BARRIER APPROACH TO WATER QUALITY	7
Water Treatment.....	7
Primary Barrier – UV Disinfection.....	8
Secondary Barrier – Sodium Hypochlorite	8
Distribution System	9
Tertiary Barrier – Water Sampling.....	9
Quaternary Barrier – Water Main Flushing & Tank Cleaning	9
MULTIBARRIER SYSTEM – FILTRATION EXEMPTION.....	10
OPERATOR TRAINING.....	11
DRINKING WATER QUALITY PARAMETERS & RESULTS.....	12
Water Quality Sampling And Monitoring.....	12
Bacteriological Monitoring And Results	13
Free Chlorine [Chlorine Residual]	14
Turbidity.....	15
Disinfection Byproducts.....	16
CHALLENGES AND CONCERNS WITH LIONS BAY’S WATER.....	17
Adequate Supply	17
Water Consumption And Per Capita Use	18
Non-revenue Water	18
Residential Consumption.....	18
Increased Turbidity.....	20
Intake Blockages.....	20
Annual Work Programs	21
2018 Accomplishments	21
2019 Work Program	22
APPENDIX A – ANNUAL OPERATING PERMITS.....	23
APPENDIX B – SAMPLE STATIONS AND TESTS	26
APPENDIX C – RESPONSE TO POTENTIAL CONTAMINATION.....	27
E. Coli Positive Samples	27
Chemical Contamination	28
Turbidity Events.....	28
Disinfection Failures	28
Loss Of Pressure Due To High Demand	29

Lions Bay Drinking Water Quality 2018 Annual Report

Water Main Breaks..... 29

Lack Of Water Due To Drought Or Other Causes 29

APPENDIX D – TREATED WATER TURBIDITY AND CHLORINE RESIDUAL READINGS 31

APPENDIX E – CHLORINE RESIDUAL AGAINST TURBIDITY GRAPHS 41

Harvey Creek Water Supply 42

Magnesia Creek Water Supply 44

APPENDIX F – RAW WATER TURBIDITY READINGS..... 46

APPENDIX G – BIENNIAL METALS AND CHEMISTRY RESULTS..... 49

March 13, 2018 Results..... 50

September 18, 2018 Results..... 54

EXECUTIVE SUMMARY

The Village of Lions Bay (Municipality) is a supplier and distributor of water through two surface water supplies: Magnesia Creek and Harvey Creek. In accordance with the requirements of the *Drinking Water Protection Regulation*, the Municipality sends weekly drinking water samples from various locations throughout its water distribution system to an independent third-party laboratory for analysis. Test results are communicated to the Municipality and the Vancouver Coastal Health Authority (VCH) every week and documented in this annual report. In 2018, the Municipality met all regulatory requirements for drinking water quality set out in the *Drinking Water Protection Regulation*:

- ◆ No samples tested positive for E. coli
- ◆ For each 30-day period, over 90% of samples had 0 total coliform per 100 mL, and no sample had more than 10 total coliform per 100 mL

In monitoring unregulated drinking water quality parameters, the Municipality follows and compares laboratory results to the Health Canada Guidelines for Drinking Water Quality. Where Health Canada recommendations are not present, the Municipality follows U.S. Environmental Protection Agency (EPA) recommendations. In 2018, municipally treated water in the Village of Lions Bay did not exceed any maximum limits recommended by Health Canada or the EPA.

INTRODUCTION

The Municipality operates a Municipal Water Utility under the provisions of the provincial *Local Government Act*, the *Drinking Water Protection Act*, and the *Drinking Water Protection Regulation*. These obligate the Municipality to meet several requirements, including:

- ◆ Operating the utility under permit issued by the Provincial Ministry of Health Services
- ◆ Engaging in water quality monitoring, and
- ◆ Preparing an annual report on water quality for the year.

The Provincial Ministry of Health develops and maintains the *Drinking Water Protection Act* and the *Drinking Water Protection Regulation*. Administration and enforcement of the legislative regulations and requirements falls to regional Medical Health Officers who work with municipalities to provide safe drinking water and to notify local residents of water quality problems.

This report comprises the 2018 Drinking Water Quality Annual Report prepared by the Municipality in accordance with our annual Operating Permit (Appendix A), issued by the Medical Health Officer. The purpose of this report is to provide Municipal water consumers with drinking water sampling test results for 2018, as well as to present background information on Municipality-specific issues concerning water supply, treatment, and distribution as well as measures being taken to protect and enhance drinking water quality.

BACKGROUND

Lions Bay is a small, picturesque, seaside Municipality nestled at the base of southern British Columbia's Coast Mountain Range. Situated approximately 11 km north of Horseshoe Bay along Howe Sound, the Municipality is a member of the Metro Vancouver Regional District (Metro Vancouver). However, unlike the many member municipalities comprising Metro Vancouver who receive their water supply from the Greater Vancouver Water District (GVWD), the Municipality owns and operates its own water supply, treatment, and distribution system. The Municipality's water system is responsible for providing potable (safe to drink) water to their 1334 residents for domestic, irrigation and fire protection usage

Water supply for the Municipality is drawn from two local creeks – Harvey Creek and Magnesia Creek. This raw water is treated and conveyed to the consumers through the following distribution system infrastructure:

- ◆ 17 km of water main (various sizes and materials)
- ◆ 2 water treatment plants (Harvey Creek WTP, Magnesia Creek WTP)
- ◆ 8 water tanks (5 of which contain potable water and 3 of which contain non-potable water)
- ◆ 2 raw water intakes (Harvey Creek, Magnesia Creek)
- ◆ 551 property service connections
- ◆ 13 pressure reducing valve stations
- ◆ 72 hydrants
- ◆ 250 valves

Lions Bay Drinking Water Quality 2018 Annual Report

The system is separated into eighteen pressure zones with the boundaries along each pressure zone comprised of a series of closed valves and pipes, and pressure regulating valve (PRV) stations. These pressure zones serve to decrease the pressure to an acceptable range for delivery of water to end users.

Potable water from the system is analyzed for the presence of microbiological pathogens (and other indicator organisms) and metals by laboratories approved by the Medical Health Officer. Testing for chlorine residuals and turbidity levels is conducted by EOCP Certified in-house staff.

SOURCE WATER

The Municipality's watershed areas include Magnesia Creek (421 hectares), Harvey Creek (635 hectares), Alberta Creek (51 hectares), and Rundle Creek (20 hectares). The Municipality's total water supply is drawn only from the Magnesia Creek and Harvey Creek watersheds.

LICENSES

The Municipality holds six water licenses, issued by the Ministry of Environment. Of these licenses, five are currently being utilized. Table 1 lists the licenses and quantity of water associated with each.

Table 1. Municipal Water Licenses

License No	Metric Quantity (m ³ /year)	Stream Name
C059405	45,460.90	Magnesia Creek
C065267	19,911.87	Magnesia Creek
C065316	33,186.46	Magnesia Creek
C042330	82,966.14	Alberta Creek *
C119916	41,483.07	Harvey Creek
C119917	248,898.43	Harvey Creek

*Alberta Creek is not currently utilized by the Municipality

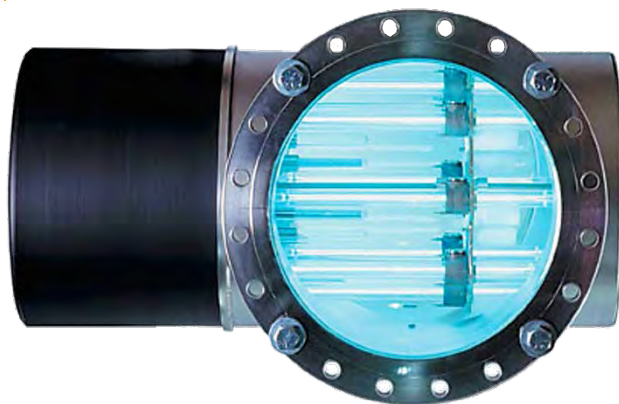
FOUR BARRIER APPROACH TO WATER QUALITY

The Municipality uses a "4-barrier" approach to mitigate source water quality issues that include the potential for waterborne disease, seasonal raw water turbidity fluctuations, and bacterial regrowth in its treatment and distribution systems.

WATER TREATMENT

The first two barriers pertain to the treatment of raw water from the Harvey and Magnesia Creek intakes and includes primary ultraviolet (UV) disinfection and secondary chlorine disinfection.

PRIMARY BARRIER – UV DISINFECTION



Inside a Trojan Swift UV Reactor

Raw water passes through a UV reactor where specialized lamps emit UV light, which alters the DNA of microorganisms' cells, inactivating them and impeding reproduction. UV light is a very effective disinfectant and has a demonstrated efficacy against pathogenic organisms, including those responsible for cholera, polio, typhoid, hepatitis, Giardia, Cryptosporidium and other bacterial, viral and parasitic diseases.

UV treatment is affected by turbidity, which is defined as a cloudiness or haziness in water that's caused by matter such as organics, minerals, or chemicals. This matter can absorb or scatter UV light, resulting in a low UV transmittance (UVT) rate. The UV reactor automatically increases lamp intensity to counter high turbidity and lower UVT. If the UV reactor cannot maintain the required UVT, the Supervisory Control and Data Acquisition (SCADA) system will notify the Municipal staff, and the UV reactor shuts down stopping the production of treated water. During turbidity events in excess of 5 Nephelometric Units (NTU's), microbiological sampling and testing is increased at all sampling locations; chlorine residual sampling and testing is likewise increased; and the Municipality will contact VCH, who may issue a Boil Water Advisory.

SECONDARY BARRIER – SODIUM HYPOCHLORITE

Once through the UV reactor, the disinfected water is injected with sodium hypochlorite (NaOCl). When NaOCl dissolves in water, two substances form, which play a role in for oxidation and disinfection. These are hypochlorous acid (HOCl) and the hypochlorite ion (OCl⁻). As a strong oxidizing agent, NaOCl kills microorganisms by damaging and disrupting two processes critical for a cell's survival: cell respiration and DNA activity. Soon after adding NaOCl to water, the chlorine within the compound begins reacting with the inorganic and organic matter and microbes that commonly grow in water supply reservoirs, on the walls of water mains, and in storage tanks, and neutralizes them¹, thereby



Debris buildup and biofilm formation within a section of ductile iron water main

¹ Calderon, R. L. (2000). "The Epidemiology of Chemical Contaminants of Drinking Water". Food and Chemical Toxicology. 38 (1 Suppl): S13-S20. doi:10.1016/S0278-6915(99)00133-7. PMID 10717366.

Lions Bay Drinking Water Quality 2018 Annual Report

causing chlorine levels to degrade. Public Works staff monitors the chlorine levels in water throughout the distribution system on a daily (workdays) basis to ensure enough chlorine is present to inactivate contaminants.

DISTRIBUTION SYSTEM

The balance of the 4-barrier approach pertains to the water distribution system and includes water quality monitoring (daily, weekly, and biannually) throughout the distribution system as well as a system maintenance program that consists of water main flushing and water tank internal cleaning. These two barriers are intended to ensure chlorine residual within the system by purging potential contaminants from the system.

The Municipal distribution system's main components include water mains and storage tanks. The system's water mains are constructed primarily of ductile iron (DI); however, a variety of materials including asbestos cement (AC), cast iron (CI), and polyvinyl chloride (PVC) also exist within the Municipality. The oldest pipes in the Municipality's distribution system were installed between 1970 and 1971. The system's tanks are all cast in place concrete. Table 2 lists their capacity and the year in which they were built.

Table 2. Potable Water Storage Tanks

Tank	Capacity (ML)	Year Built
Harvey	1.72	1980
Magnesia	0.44	2002
Phase IV	0.08	1960
Phase V	0.10	1960
Highway	0.09	1960

TERTIARY BARRIER – WATER SAMPLING

The Municipality's Public Works staff draw samples throughout the distribution system on a daily (workdays) basis to ensure a chlorine residual within the distribution network. Chlorine residuals are monitored at the treatment plants, in the middle, and at the ends of the distribution system with dosages being adjusted to ensure there is enough chlorine within the system at all times.

QUATERNARY BARRIER – WATER MAIN FLUSHING & TANK CLEANING

Water main flushing is a method of cleaning water mains that involves manipulating valves and discharging water through fire hydrants or blow off points at a velocity great enough to scour the walls of the water mains. The discharged water carries sediment and other solids with it, assisting in the scouring effect. The Municipality cleans 17 km of the distribution system twice per year using this method. In support of summer water conservation efforts, the Municipality's annual flushing takes place in April and October.

Lions Bay Drinking Water Quality 2018 Annual Report

Due to the complexity and scope of the task, cleaning of the Municipality's water storage tanks occurs on a 5-year cycle. Two methods of cleaning tanks are used by the Municipality:

1. In service cleaning: Water tanks remain in service providing potable water to the residents. Divers are disinfected by spraying them down with chlorine after which they enter the tanks and use vacuum equipment to remove sediment build up from the bottom of the tanks.
2. Water tanks are bypassed removing them from service after which they are drained of all water. Municipal staff enter the tanks to manually clean the walls and floors using scrub brushes and super-chlorinated water, after which the tanks are once again disinfected using super-chlorinated water before being put back into service.

MULTIBARRIER SYSTEM – FILTRATION EXEMPTION

At present, the Municipality's water system does not meet the Drinking Water Treatment Objectives (Microbial) for Surface Water Supplies in BC² (the Guide) which recommends that water filtration and one form of disinfection be used to meet treatment objectives. In 2010, the Municipality upgraded the treatment processes at both plants to include UV disinfection and at this time, an exemption from filtration was sought through Vancouver Coastal Health. Unfortunately, due to staff turn-over, the application for filtration exemption was not fully completed.

Under the Guide, the Municipality may be permitted to operation without filtration providing the following conditions are met:

1. Overall inactivation is met using a minimum of two disinfections, providing 4-log reduction of viruses and 3-log reduction of *Cryptosporidium* and *Giardia*.
 - The current treatment system at both plants achieve the 4-log reduction of viruses during normal operating conditions as predicated by sufficient chlorine contact time (CCT) within the Magnesia and Harvey Creek water tanks. Both systems, but in particular, the Magnesia Creek system, have experienced outages due to land slides and during such events, water within the tanks may be drawn down significantly whilst the blockages are cleared. Current operating procedures do not document critical tank levels and chlorine residual requirements in order to achieve CCT time and 4-log reduction. This deficiency will be rectified in 2019.
 - The current treatment systems at both plants achieve the 3-log reduction of *Cryptosporidium* and *Giardia* through the UV reactors which is predicated on a raw water UVT of 90%. UV transmittance of raw water is currently not measured within the system. Staff will begin recording raw water UVT in 2019.

² See the "Drinking Water Officer's Guide – Part B 5." <https://bit.ly/2lcxigN>

Lions Bay Drinking Water Quality 2018 Annual Report

2. The number of E. coli in raw water does not exceed 20/100 mL (or if E. coli data are not available less than 100/100 mL of total coliform) in at least 90% of the weekly samples from the previous six months. Treatment target for all water systems is to contain no detectable E. coli or fecal coliform per 100 mL. Total coliform objectives are also zero based on one sample in a 30-day period. For more than one sample in a 30-day period, at least 90% of the samples should have no detectable total coliform bacteria per 100 mL and no sample should have more than 10 total coliform bacteria per 100 mL.
 - Distribution system sampling at various locations throughout the Municipality indicates that this criterion is being successfully met.
3. Average daily turbidity levels measured at equal intervals (at least every four hours) immediately before the disinfectant is applied are around 1 NTU, but do not exceed 5 NTU for more than two days in a 12-month period.
 - Distribution system sampling at various locations throughout the Municipality indicates that this criterion is being successfully met.
4. A watershed control program is maintained that minimizes the potential for fecal contamination in the source water.
 - Source water from both the Magnesia and Harvey Creek watersheds are under the control of the BC Ministry of Forests, Land, and Natural Resource Operations (FLNRO). Both watersheds are designated as “Community Watershed” which offers only limited protection under the Forest & Range Practices Act (FRPA). Activities such as recreational access, mining, and energy development are not precluded and are not without risk to the Municipality’s source of water. In order to achieve filtration exemption, the Municipality must engage with FLNRO and develop a watershed control program that addresses the security of the Municipality’s watersheds.

OPERATOR TRAINING

Another approach to mitigating issues within a water supply and distribution system is through employee training. The Environmental Operators Certification Program (EOCP) is the body charged under the *Drinking Water Protection Act* and the *Drinking Water Protection Regulation* with classifying water supply and distribution system in order to determine training requirements for system operators.

“Certified employees can maximize the performance of water and wastewater facilities, which will in turn minimize health risks and environmental concerns, optimize the costs of

Lions Bay Drinking Water Quality 2018 Annual Report

operations, protect the investment in infrastructure, and provide greater return on the utility's or industry's capital investment.³

Under the EOCP guidelines, each system is required have a minimum of one operator, designated the “chief operator(s),” who must be certified by the EOCP at the matching classification level of the system. Additionally, any person whose actions may affect the operation of a water system requires certification by the EOCP. Certified Operators are required to earn continuing education units (CEU's) on a biannual basis to remain “In Good Standing.” This ensures that certified operators remain well trained, current, and are capable of operating and maintaining their facilities in a responsible and professional manner.

The EOCP has classified the Municipality's water treatment system as a Class 1 system and the distribution system as a Level 2 system. In 2018, the Municipality complied with operator training and had one Chief Operator classified as a Water Treatment Plant Operator Class 1 and as a Water Distribution System Operator Level 2. An additional 4 employees working on the water system are also classified as Water Distribution System Operator Level 1.

DRINKING WATER QUALITY PARAMETERS & RESULTS

The Municipality is responsible for monitoring water quality in different parts of the drinking water system. The quality of water distributed within the Municipality is monitored in accordance with requirements set out in provincial regulations. This section describes the monitoring program and water quality results for 2018.

WATER QUALITY SAMPLING AND MONITORING

Water quality is monitored for regulatory compliance on a weekly basis at the Municipality's sampling locations (Appendix B). Samples are taken on a daily, weekly, and monthly basis by Public Works Department staff and sent to an approved laboratory for analysis. The results are communicated to the Municipality and VCH. Operational responses to undesirable results vary from re-sampling to flushing water mains to possibly issuing a boil water advisory by VCH, depending on confirmation and the significance of the parameter of concern. The Municipality's emergency response protocol to various drinking water related contingencies is provided in Appendix C.

On a daily basis (Monday to Friday) the Municipality draws water samples from stations located at the front, middle and end of the distribution system and tests them for turbidity and chlorine



Analysing a water sample using a Spectrophotometer

³ <http://www.eocp.ca/wp-content/uploads/2014/04/EOCP-Program-Guide-1-March-2014-v13.pdf> (accessed March 24, 2018)

Lions Bay Drinking Water Quality 2018 Annual Report

residual. Once a week, further samples are taken from each of the aforementioned sites along with monthly raw water (initiated in spring of 2018) and disinfected samples from either side of the UV reactors. These samples are sent to a VCH accredited laboratory and tested for *Escherichia coli* (*E. coli*) and total coliforms. More extensive biannual testing is conducted for general water chemistry, hardness, metals, and other contaminants including organic compounds.

The monitoring program provides a representative picture of drinking water quality within the municipal water mains. It is important to note that Municipal sampling is not a definitive picture of drinking water quality in a system. Once water reaches private water systems, water quality can change significantly due to pipe material, standing time, temperature, and other factors. It can be assumed that samples taken within buildings will be of different quality than those taken from municipal mains. The Municipality is not responsible for water quality testing at the Lions Bay Community School, the General Store and Café, and on residential private property.

BACTERIOLOGICAL MONITORING AND RESULTS

The *Drinking Water Protection Regulation* requires the Municipality to carry out routine sampling and testing for *E. coli* and total coliform bacteria. These are considered “indicator organisms” because their presence or absence provides an indication of microbial water quality.

ESCHERICHIA COLI



E. coli is a type of coliform bacteria present exclusively in the feces of humans and other animals. The existence of *E. coli* in a water sample indicates recent fecal contamination and the possible presence of intestinal disease-causing bacteria, viruses, and protozoa. Fecal matter can enter the water supply where humans and animals defecate in or near the watersheds and above the raw water intakes. The *Drinking Water Protection Regulation* standard for *E. coli*

is none detectable per 100 ml. In 2018, none of the weekly samples taken throughout the potable water system tested positive for *E. coli*.

TOTAL COLIFORM

The total coliform group of bacteria is composed of various types with similar characteristics. The natural niches for members of this group range from being fecal-specific, such as *E. coli*, to those being widely distributed in water, soil, and vegetation. The *Drinking Water Protection Regulation* standards for total coliform indicate that there can be no detectable *E. coli* per 100 ml; and that total coliform bacteria samples (for more than 1 sample taken per month) must have at least 90% of samples with no detectable

Lions Bay Drinking Water Quality 2018 Annual Report

total coliform bacteria per 100 ml; and no one sample can have more than 10 total coliform bacteria per 100 ml. One sample tested positive (1 coliform bacterium per 100 ml.) in 2018. The result is suspect as the water was drawn from an unprotected sampling station and may have been contaminated there or at the lab. The next consecutive sample tested within norms.

FREE CHLORINE [CHLORINE RESIDUAL]



Free chlorine is not regulated by the *Drinking Water Protection Act* or the *Drinking Water Protection Regulation*. The Guidelines for Canadian Drinking Water Quality indicate that for health considerations, a “guideline value [maximum acceptable concentration level for chlorine] is not necessary due to low toxicity at concentrations found in drinking water.”

With respect to a minimum chlorine concentration [chlorine residual], no regulations exist for British Columbia. However, Health Canada reports the following:

“The U.S. Environmental Protection Agency Surface Water Treatment Rule requires a minimum disinfectant residual of 0.2 mg/L for water entering the distribution

system and that a detectable level be maintained throughout the distribution system. The World Health Organization (WHO) has suggested that, for areas with little risk of cholera or related outbreaks, a free chlorine residual range of 0.2–0.5 mg/L be maintained at all points in the supply (WHO, 1997). In general, a free chlorine residual of 0.2 mg/L is considered a minimum level for the control of bacterial regrowth in the distribution system.⁴”

Health Canada also reports that “Free chlorine concentrations in most Canadian drinking water distribution systems range from 0.04 to 2.0 mg/L.⁵”

Residual chlorine concentrations are affected by various parameters such as water age, turbidity levels, pipe material, and temperature. Table 3 shows that the average free chlorine residual at all stations sampled at the eight sampling stations. Chlorine residuals for all but one sample were 0.2 mg/L in 2018. The anomalous reading occurred during a significant two-day turbidity event that saw chlorine residual levels drop to 0.04 mg/L on the 17th of September. During such significant turbidity events, staff increase the dosage of NaOCl in order to ensure the distribution system residual maintains a minimum 0.2 mg/L.

⁴ Health Canada (2009) Guidelines for Canadian Drinking Water Quality: Guideline Technical Document—Chlorine

⁵ Health Canada (2009) Guidelines for Canadian Drinking Water Quality: Guideline Technical Document—Chlorine

Lions Bay Drinking Water Quality 2018 Annual Report

Detailed 2018 free chlorine residuals for treated water is charted in Appendix D and graphs charting chlorine residuals against turbidity readings are presented in Appendix E.

Table 3. 2018 Chlorine Residual Readings (ppm)

	Harvey Creek System					Magnesia Creek System		
	Tank	PRV-3	Cafe	LBA	KGW	Tank	PRV-5	BBR
Average	0.87	0.84	0.67	0.67	0.51	0.86	0.81	0.60
Maximum	1.27	1.23	0.99	0.97	0.95	1.42	1.27	0.88
Minimum	0.34	0.30	0.21	0.23	0.20	0.04	0.35	0.20

Lions Bay Avenue (LBA), Kelvin Grove Way (KGW), Brunswick Beach Road (BBR)

TURBIDITY

Provincial guidelines for turbidity within a distribution system do not exist. Variations in turbidity within a distribution system are normal. Higher levels may be associated with turbidity in source water or local system events such as high flow rates from unidirectional flushing, fire fighting, or water main breaks. In the event that a high level of turbidity is detected, the Municipality will determine whether this is expected due to system operations. If the event is unexpected, the Municipality will confirm turbidity level and flush the mains to clear any disturbance. During periods of high turbidity, the Municipality will adjust chlorine dosages to compensate – graphs charting chlorine residuals against turbidity are presented in Appendix E. Average turbidity values at all sample stations are displayed below in Table 4 and detailed treated water turbidity data for 2018 is charted in Appendix D. No boil water advisories related to high turbidity were issued for 2018.

Table 4. 2018 Turbidity Readings (NTU)

	Harvey Creek System					Magnesia Creek System		
	Tank	PRV-3	Cafe	LBA	KGW	Tank	PRV-5	BBR
Average	0.75	0.45	0.43	0.35	0.29	0.60	0.40	0.34
Maximum	2.30	1.53	1.52	0.96	3.03	7.22	3.65	1.30
Minimum	0.24	0.12	0.13	0.11	0.11	0.10	0.13	0.13

Lions Bay Avenue (LBA), Kelvin Grove Way (KGW), Brunswick Beach Road (BBR)

Municipal staff also sample and test raw source water for turbidity from both creeks on a daily basis. Table 5 presents the raw water turbidity test results for 2018.

Table 5. 2018 Raw Water Turbidity Results

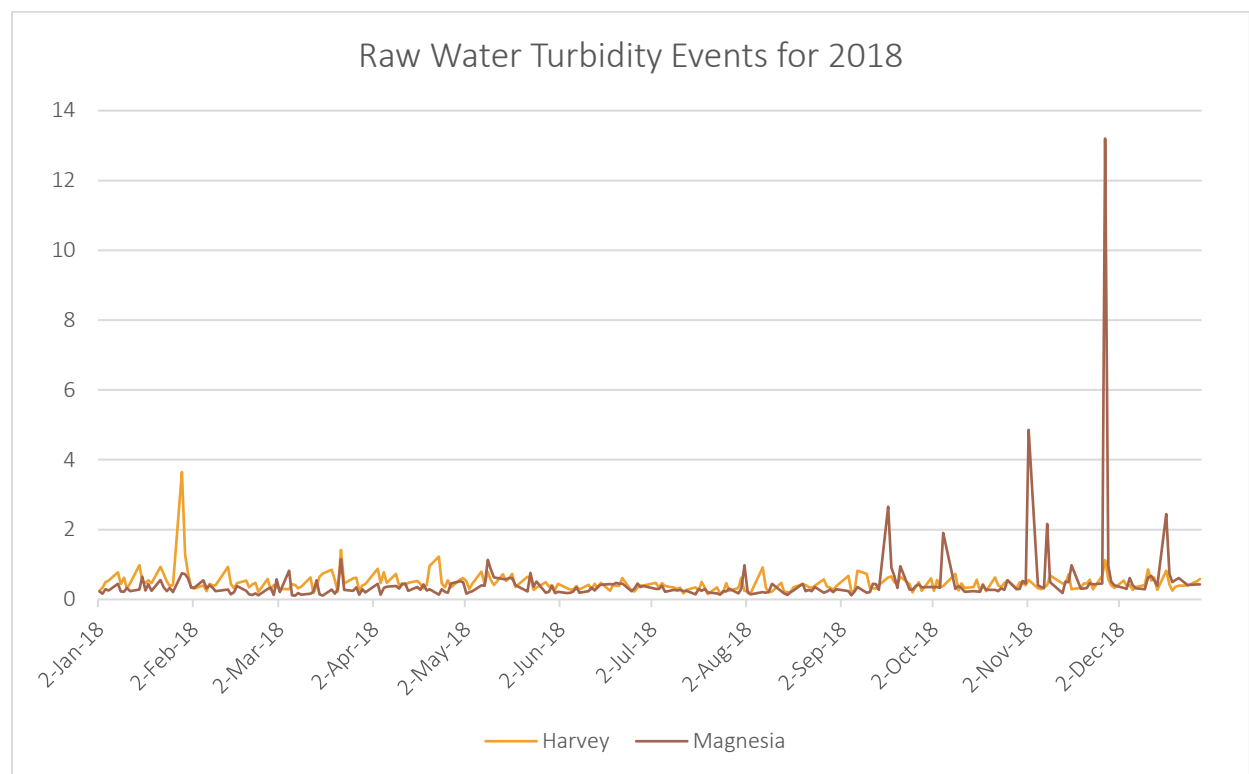
	Harvey Creek Raw Water	Magnesia Creek Raw Water
Average NTU	0.47	0.45
Maximum	3.65	13.2
Minimum	0.15	0.11

Lions Bay Drinking Water Quality 2018 Annual Report

No. of events > 1 NTU	5	8
No. of events > 2 NTU	1	5
No. of events > 5 NTU	0	1

Excessive turbidity events may result in a boil water advisory being issued by VCH.

In 2018, four significant turbidity events occurred within the Magnesia Creek system – combined, these events resulted in a cumulative total of 47 days during which the Magnesia Creek treatment plant was unable to provide potable water to the Municipality. During such high turbidity events, staff are able to supply the entire Municipality via the Harvey Creek system. Only one significant turbidity event occurred on the Harvey Creek system in 2018, as shown in the chart below. Turbidity events on the Harvey Creek system are much less frequent than the Magnesia Creek system. Due to the configuration of the intake weir and creek channel, the debris torrents seldom clog the Harvey Creek intake thanks to its self-scouring nature. Detailed raw water turbidity readings are presented in Appendix F.



DISINFECTION BYPRODUCTS

Disinfection by-products such as trihalomethanes (THMs) can form when chlorine used to disinfect drinking water reacts with naturally occurring organic matter. Health risks may be associated with long-term exposure to high levels of THMs. Health Canada considers THMs to be possibly carcinogenic to humans. Health Canada also reports that:

“High Levels of THMs may also have an effect on pregnancy. A California study found that pregnant women who drank large amounts of tap water with high THMs had an increased

Lions Bay Drinking Water Quality 2018 Annual Report

risk of miscarriage. These studies do not prove that there is a link between THMs and cancer or miscarriage. However, they do show the need for further research in this area to confirm potential health effects.⁶

Health Canada recommends Total THMs remain below 100 ppb. THM concentrations in all 2018 biannual samples remained below 50 ppb at all locations. Detailed THM test results are provided in Appendix G.

PH

pH is a measure of the acid-base equilibrium of water. pH is of concern in a water distribution system because at low values water becomes corrosive while at high values scale can potentially form and chlorine disinfection is less efficient. Health Canada indicates that an acceptable pH range for drinking water is 6.5 – 8.5 pH units. All of the 2018 biannual distribution system samples were tested for pH. Test results ranged of 6.74 to 9.49 pH units. Full pH results are provided in Appendix G.

METALS

Metals are inorganic substances that enter our water supplies through a variety of means, some natural and some due to human activity. Some metals are essential for life while others can cause chronic or acute poisoning. Health Canada has set maximum concentration limits for most metals with the exception of for calcium, cobalt, magnesium, molybdenum, nickel or potassium.

In 2018, all samples were within the limits set in the Guidelines for Canadian Drinking Water Quality for lead. Appendix G contains metals and general chemistry test results for 2018

CHALLENGES AND CONCERNS WITH LIONS BAY'S WATER

As previously mentioned, Lions Bay is one the few Metro Vancouver member municipalities that supply their own water – this comes with a unique set of challenges and concerns:

- ◆ Adequate Supply
- ◆ Consumption
- ◆ Increased Turbidity
- ◆ Intake Blockages

ADEQUATE SUPPLY

The Municipality obtains its water from the Harvey Creek and Magnesia Creek watersheds. Both of these watersheds are fed by surface water sources that are highly susceptible to reduced snow packs, and consequently highly vulnerable to the influences of climate change.

⁶ <https://www.canada.ca/en/health-canada/services/healthy-living/your-health/environment/drinking-water-chlorination.html> accessed March 23, 2018.

Lions Bay Drinking Water Quality 2018 Annual Report

In 2017, the Municipality signed a Memorandum of Understanding (MOU) with the Engineering Department at the University of British Columbia (UBC) to collaborate on collecting data from the Municipality in order to perform hydrological research and modelling of the water supply. This collaboration stemmed from the Municipality's desire to better understand their summer water supply situation and the impacts of climate change on the surface water supplies. Through the MOU, UBC and the Municipality intend to jointly address topics such as:

- ◆ Groundwater recharge through various precipitation events;
- ◆ Modelling of groundwater and its flows;
- ◆ Impacts of snowpack availability on groundwater and surface water flows and levels.

Ultimately, this endeavour will help the Municipality determine the long-term viability of these surface water sources and better guide the expenditure of capital investments in the intakes, access roads, and treatment methodologies.

WATER CONSUMPTION AND PER CAPITA USE

Coupled with the seasonal variability and impacts of climate change is the historically high per capita water use by local residents. Between 2010 and 2016, residential water consumption was drastically reduced by 60%; however, this trend was reversed in 2017 and 2018 (see table 6 below).

NON-REVENUE WATER

While considering the Municipality's yearly consumption, and consequently the Per Capita rate, it is important to recognize the contribution of Non-Revenue Water (NRW) to overall water use. NRW is water that has been produced at the treatment plants but is "lost" before reaching the consumer. NRW in the Municipality's water system escapes through water main breaks, service leaks, leaking joints, and activities such as water main flushing. Based upon drawdown testing conducted in 2016, Non-Revenue Water (NRW) accounts for 26% of the total water consumption in the Municipality. The Municipality has implemented two strategies to help reduce NRW:

1. **Pressure Management** – it is a well-documented fact that high pressures coupled with ageing pipes leads to higher than normal water loss. By continually monitoring and adjusting pressures within the distribution systems 13 pressure reducing stations (PRV's) the Municipality keeps pressures at the minimum possible level to extend water main life and reduce NRW.
2. **Active Leak Control** – the Municipality conducts a biannual leak detection program that involves checking residential lots and distribution system fire hydrants using acoustic leak detection methods to actively locate leaks. Continual monitoring of consumption rates for spikes in water use will also trigger active leak investigations.

In 2018 the Active Leak Control program identified 9 private side leaks and 1 municipal side leak.

RESIDENTIAL CONSUMPTION

Lions Bay Drinking Water Quality 2018 Annual Report

By factoring out the NRW rate from the yearly consumption figures we can see that the most recent 2018 average resident water consumption rate is 810 L/capita/day. This rate is 55% higher than the Metro Vancouver average of 448 L/capita/day reported for 2017⁷. The Municipality will increase its education and media campaign in an attempt to mitigate and hopefully reverse this trend in 2019.

Table 6. Yearly Consumption and Per Capita Rates

Year	Yearly Consumption (m³)	Census Population	Per Capita (L / capita / day)	Reduced Per Capita* (L / capita / day)
2010	857,457	1,318	1,782	1,319
2011	806,522	1,318	1,677	1,241
2012	766,273	1,318	1,593	1,179
2013	827,509	1,318	1,720	1,273
2014	772,301	1,318	1,605	1,188
2015	437,433	1,318	909	673
2016	351,318	1,334	722	534
2017	472,527	1,334	970	718
2018	533,000	1334	1095	810

* The Reduced Per Capita rate is 26% lower than the per capita rate and takes into account system-wide water losses (non-revenue water).

Residential water conservation offers many benefits to the Municipality including delaying or avoiding capital expenditures on water supply expansion, decreasing operating costs, and a “co-benefit” of reducing the energy required to treat and distribute drinking water. The American Water Works Association⁸ highlights the following benefits of water conservation:

- ◆ Operations and maintenance cost savings by reducing the volume of water treated.
- ◆ Future cost savings through deferral of capital investment as a result of population growth and expansion.
- ◆ Environmental benefits: less water could be removed from the environment for human purposes, and more water is available to support downstream aquatic life and important riparian habitat.
- ◆ Competing beneficial uses: more water could be available for competing beneficial uses such as watercourse health and environment, or recreation.

⁷ http://www.metrovancouver.org/services/water/WaterPublications/2017_Water_Consumption_Statistics_Report.pdf (Metro Vancouver 2016 Water Consumption Statistics Report)

⁸ M52 Water Conservation Programs - A Planning Manual, Second Edition

Lions Bay Drinking Water Quality 2018 Annual Report

- ◆ Stewardship: utilities that conserve water demonstrate leadership in resource management.
- ◆ Regulatory compliance: some governmental/regulatory agencies require water conservation plans to qualify for permits, grants and loans.
- ◆ Public perception: the public often insists on a demonstration of efficient use of existing water supplies before supporting expansion of supplies to meet new water needs.

The primary water conservation initiative implemented by the Municipality is the adoption of Outdoor Water Use Bylaw No. 484, 2015. This bylaw outlines the levels of water use restrictions for residential, commercial and public water uses. The levels are posted on the Village of Lions Bay official webpage and presented on a colour coded Water Conservation Level boards throughout the Municipality. Water use outside of the applied restrictions is only permissible for new lawns through the purchase of a permit from the Municipality. Appendix C depicts the restrictions for typical residential, commercial, and public water use activities for each conservation level. To aid in the conservation efforts, the Municipality provides real time water consumption data on their website⁹.

INCREASED TURBIDITY

The Municipality draws all of its water from surface sources that are subject to fluctuating turbidity levels, and are designated as unstable terrain upslope. This fluctuation in raw water turbidity presents many challenges for Municipal staff in ensuring that turbidity and chlorine residuals throughout the entire distribution system are not adversely affected. The water treatment plants are monitored remotely via a Supervisory Control and Data Acquisition (SCADA) system, and are checked daily (Monday through Friday) by Municipal crews; each intake is checked at least weekly, unless safe work procedures prohibit entry along the intake road.

In times of severe weather, Municipal staff will increase the frequency of testing and adjust chlorine injection rates to compensate for any fluctuating chlorine demand caused by varying turbidity levels.

INTAKE BLOCKAGES

The watershed areas for the Municipality's raw water intakes are contained by steep, rocky, unstable terrain upslope on one side, and steep flowing creeks subject to debris torrents on the other. Access to the intakes is via narrow gravel roads that are subject to rock fall and tree throw hazards from above. Strict safe working guidelines for unstable terrain upslope prohibit crews from entering the watershed areas and water intakes if rainfall parameters are exceeded. This prevents crews from being able to investigate decreased water flow or increased raw water turbidity levels during periods of heavy rain – the exact times most likely to cause either event.

During a turbidity event, organic and inorganic debris flows down the creek channel and becomes trapped behind an intake weir at either of the two raw water intakes. This necessitates manual clearing efforts by staff. In 2018, the Municipality experienced four separate water outages. For the duration of these

⁹ <https://www.lionsbay.ca/services/public-works/water-consumption-graph>

Lions Bay Drinking Water Quality 2018 Annual Report

outages, residents were put on water restrictions and kept up to date via alerts posted on the Municipality's website and through an email notification system for those residents who elect to be notified in this manner.

Table 7. 2018 Water Outages

Start Date	Duration of outage (days)	Source Water System	Cause
September 16, 2018	20	Magnesia Creek	Plugged infiltration gallery resulting in severely reduced water flow.
November 2, 2018	7	Magnesia Creek	Plugged infiltration gallery resulting in severely reduced water flow.
November 27, 2018	10	Magnesia Creek	Plugged infiltration gallery resulting in severely reduced water flow.
December 16, 2018	10	Magnesia Creek	Plugged infiltration gallery resulting in severely reduced water flow.

Annual Work Programs

The Municipality's annual operating work program revolves around regulatory monitoring and reporting that is required in order to meet the *Drinking Water Protection Act* and the *Drinking Water Protection Regulation* requirements. The Core Service Level Review¹⁰, available on the Municipality's web site details the routine tasks and staff resources involved with operating and maintaining the Municipal Water system.

The Municipal capital works program facilitates minor and major improvements and replacement of the water systems components. More often than not, capital upgrades are facilitated by grant funding opportunities.

2018 ACCOMPLISHMENTS

Core maintenance activities were completed on target for the 2018 calendar year. On the Capital front, the Municipality was not as fortunate. Despite a successful 2017 grant application in the amount of \$2.71 million dollars for the replacement of four ageing water tanks along with a number of complementary related water system upgrades, the Municipality were unable to secure a contract for construction. Over the course of the year, staff worked with design engineers, AECOM, to re-scope the project into two smaller projects with the first being the replacement of the Harvey Tank. A contractor has been secured for this project with construction slated to begin early in 2019. In 2018, staff submitted a second grant application for the balance of this project through the Investing in Canada Infrastructure Program.

¹⁰ <https://www.lionsbay.ca/government/reports-documents-library/core-service-level-review>

2019 WORK PROGRAM

Along with core maintenance tasks, the primary goal for the 2019 year will be the successful replacement of the existing Harvey Creek 1.8 Megalitre water tank with a new 2.3 Megalitre steel bolted, glass-fused tank.

APPENDIX A – ANNUAL OPERATING PERMITS



Vancouver Coastal Health

PERMIT TO OPERATE

Drinking Water System 301-10,000 Connections

Facility Number: 3317552347
Name of Facility: Lions Bay Magnesia Creek Water System
Address: Upper Sunset Road
 Lions Bay, BC
Owner: Municipality of The Village of Lions Bay
Conditions:

1. Submit weekly water samples for bacteriological testing at sites approved by VCH.
2. Chlorine residuals must be recorded daily at locations approved by VCH.
3. Biannual flushing on the entire distribution system.
4. Daily turbidity testing.
5. Annual chemical testing of source
6. Submit annual updated ERP to VCH.

September 29, 2010

Effective Date

Rod Schluter
 Environmental Health Officer

*This permit must be displayed
 in a conspicuous place and is nontransferable.*





Vancouver Coastal Health

PERMIT TO OPERATE

Drinking Water System 301-10,000 Connections

Facility Number: 3317552348
Name of Facility: Lions Bay Harvey Creek Water System
Address: Upper Oceanview Road
Lions Bay, BC
Owner: Municipality of The Village of Lions Bay
Conditions:

1. Submit weekly water samples for bacteriological testing at sites approved by VCH.
2. Chlorine residuals must be recorded daily at locations approved by VCH.
3. Biannual flushing on the entire distribution system.
4. Daily turbidity testing.
5. Annual chemical testing of source
6. Submit annual updated ERP to VCH.

September 29, 2010

Effective Date



Rod Schluter
Environmental Health Officer

*This permit must be displayed
in a conspicuous place and is nontransferable.*



Lions Bay Drinking Water Quality 2018 Annual Report

APPENDIX B – SAMPLE STATIONS AND TESTS**Table 8. Harvey Creek Water System Sampling Stations**

Sampling Location	Type	Free Chlorine	Turbidity	Bacteriological	Metals & Chemical
Harvey Creek Intake	Raw Water	N/A	Daily	Monthly	Biannual
Harvey Tank	Treated Water	Daily	Daily	Weekly	Biannual
PRV-3	Treated Water	Daily	Daily	Weekly	N/A
Lions Bay Café	Treated Water	Daily	Daily	Weekly	Biannual
Lions Bay Avenue	Treated Water	Daily	Daily	Weekly	Biannual
Kelvin Grove	Treated Water	Daily	Daily	Weekly	Biannual
Harvey UV Reactor	Treated Water	N/A	N/A	Monthly	N/A
Community Centre	Treated Water	N/A	N/A	N/A	Biannual

Note: Daily samples are taken Monday to Friday not including weekends and statutory holidays.

Table 9. Magnesia Creek Water System Sampling Stations

Sampling Location	Type	Free Chlorine	Turbidity	Bacteriological	Metals & Chemical
Magnesia Creek Intake	Raw Water	N/A	Daily	Monthly	Biannual
Magnesia Tank	Treated Water	Daily	Daily	Weekly	Biannual
PRV-5	Treated Water	Daily	Daily	Weekly	N/A
Brunswick Beach	Treated Water	Daily	Daily	Weekly	Biannual
Magnesia UV Reactor	Treated Water	N/A	N/A	Monthly	N/A

Note: Daily samples are taken Monday to Friday not including weekends and statutory holidays.

Lions Bay Drinking Water Quality 2018 Annual Report

APPENDIX C – RESPONSE TO POTENTIAL CONTAMINATION

Table 9 below outlines the notification protocol for unusual situations that could potentially affect the Municipality's potable water system.

Table 9. Notification of Unusual Situations Potentially Affecting Water Quality

Situation	Notifying Agency	Agency Notified	Notification Time Frame
E. coli – positive sample	VCH Labs	VOLB & VCH	Immediate
Total coliform >10/100 ml & low chlorine residual	VOLB	VCH	Immediate
Chemical contamination	VOLB	VCH	Immediate
Turbidity events >5 NTU	VOLB	VCH	Immediate
Disinfection failures/continued loss of residual	VOLB	VCH	Immediate for continued loss of residual
Loss of pressure due to high demand	VOLB	VCH	Immediate
Water main breaks	VOLB	VCH	Immediate
Lack of water due to drought or other causes	VOLB	EMBC & VCH	Information only; as drought situation progresses

E. COLI POSITIVE SAMPLES

Any interim samples (samples that have been taken in the period between the time the E. coli sample was first drawn and when the laboratory determined it to be positive) that have been taken from the same sampling station will be immediately examined by the laboratory.

The chlorine residual noted on the Water Operator's field sheet will be reviewed by the laboratory and compared to previous test results to determine if there is any localized loss of disinfectant residual.

The Public Works Manager (or designate) and VCH will be notified immediately by the laboratory.

Arrangements will be made for the immediate collection of a repeat sample, and, where possible, both upstream and downstream of the E. coli positive sample location.

VCH and the Public Works Manager (or designate) will liaise and determine the need for a Boil Water Advisory (BWA) to be issued. If it is determined to be warranted, VCH will issue the BWA.

The laboratory will continue to test the subsequent samples. Once consecutive negative sample results are returned, the Public Works Manager (or designate) will liaise again with VCH and determine whether the BWA can be lifted.

Lions Bay Drinking Water Quality 2018 Annual Report

CHEMICAL CONTAMINATION

Chemical contamination of the water supply may include such items as nitrogen, salts, pesticides, metals, toxins, etc. The Municipality recognizes that detection of some chemical contaminants is difficult. In the event of chemical contamination to the Municipality's water supply or distribution system, VCH will immediately be notified, and steps will commence to isolate the contaminated area. The level of contamination will be determined through water sampling and analysis; identified and any public health risk factors associated with the chemical presence and level will be determined. A public advisory will be issued and carried out by the Public Works Manager (or designate) under the guidance of VCH. Once the contamination is remedied and consecutive negative sample results are returned from the laboratory, the Public Works Manager (or designate) will again liaise with VCH and determine whether the public advisory can be lifted.

TURBIDITY EVENTS

Turbidity in the Municipality's treated water system is monitored on a regular basis through the water sampling and local analysis program. Water sample turbidity results that register $>1 - 3$ NTU are scrutinized, along with corresponding chlorine residual levels, and actively monitored. Any sections of the water distribution system generating high turbidity results are field-checked and flushed if required.

Turbidity events in the raw source water affect the Municipality's water treatment plants. The performance of the primary UV treatment is affected by increased turbidity because water that has higher turbidity absorbs a significant amount of UV light, and will therefore have a correspondingly low UV transmittance (UVT) rate. The UV system automatically increases lamp intensity to counter the lower UVT. Once the UVT drops below the minimum set point of 26.25 mJ/cm^2 , the UV reactors shut down and an alarm signal is sent via SCADA to municipal on-call staff. Municipal staff will immediately inform the Public Works Manager (or designate) and investigate the alarm at the plant.

During turbidity events in excess of 5 NTU in the distribution system, microbiological sampling and testing is increased at all sampling locations; chlorine residual sampling and testing is likewise increased; and the Municipality will contact VCH, who may issue a Boil Water Advisory.

DISINFECTION FAILURES

Chlorine residuals in the Municipality's treated water system are monitored on a regular basis through the water sampling and local analysis program. If a daily sample registers below the generally accepted minimum chlorine residual of 0.2 ppm, the Water Operator will first flush water through the system to attempt to bring the chlorine residual up to the minimum required. Should the chlorine residual continue to be below the minimum level, the Municipality will immediately commence increased monitoring of all chlorine residuals in the system, including the storage tanks, and determine the root cause of the problem. Chlorine will be added manually to the storage reservoirs if necessary; and residuals checked frequently at all locations. The Public Works Manager (or designate) will contact VCH, who may issue a Boil Water Advisory if continued loss of residual is observed.

Lions Bay Drinking Water Quality 2018 Annual Report

LOSS OF PRESSURE DUE TO HIGH DEMAND

In the event of adverse pressure loss due to high demand, Municipal crews will adjust the system to isolate the affected section, and then take effective measures to supplement pressure in the affected area. The Public Works Manager (or designate) will immediately consult with VCH regarding further actions; all water quality complaints from the public will be immediately and thoroughly investigated for potential contamination.

WATER MAIN BREAKS

In the event of a water main break where chemical or microbiological contamination of the system is suspected, Municipal crews will adjust the system to isolate the contaminated section from the rest of the distribution system. The Public Works Manager (or designate) will immediately consult with VCH regarding further actions; all water quality complaints from the public will be immediately and thoroughly investigated for potential contamination. Water samples will be taken from the vicinity and downstream of the break if possible, and tested for the suspected contamination. The same procedures as noted under E. coli positive samples above will be implemented if required.

LACK OF WATER DUE TO DROUGHT OR OTHER CAUSES

In the event of a lack of water due to low streamflow or other causes affecting supply (such as debris torrents, lack of safe access to intakes, or Municipality-wide water use in excess of supply), an escalating conservation system is implemented to address the lack of water in the system.

Conservation efforts now commence annually from June 1 through to September 30 of each year, in accordance with Level 1 of the Municipality's Outdoor Water Use Bylaw. Further stages of conservation are then utilized as required to reduce the outdoor use of water in the Municipality, combined with extensive public notification (via electronic notifications, printed media delivered to every home, and town hall meetings). The highest levels of restrictions are intended for emergent situations that directly affect the supply of water in the system.

The flow rate of raw water entering the creek intakes to their respective water treatment plants is monitored daily, during the water sampling and testing program. If the water flow entering either plant is compromised, Municipal crews ascertain the root cause of the problem (i.e. whether the decrease is due to a blockage or drought) and work to either repair (if blocked) and/or mitigate the impact on the system as a whole by implementing conservation measures noted in Table 10 below.

When a lack of water continues despite conservation efforts, Municipal staff will liaise with EMBC, VCH, and FLNRO for both information and a consolidated response to events as they unfold. Neighboring municipalities will be informed in the event they can lend assistance. Increased testing and monitoring of the water system is undertaken in conjunction with VCH, until the system as a whole is once again restored.

Lions Bay Drinking Water Quality 2018 Annual Report

Table 10. Outdoor Water Use Conservation Levels

	ACTIVITY	CONSERVATION LEVEL 1	CONSERVATION LEVEL 2	CONSERVATION LEVEL 3
RESIDENTIAL & COMMERCIAL USES	Watering lawns, 4 am – 9 am only	Even-numbered addresses: Monday, Wednesday and Saturday.	Even-numbered addresses: Monday only	Prohibited
	Newly planted lawns may be watered outside allowed times with a municipal permit displayed	Odd-numbered addresses: Tuesday, Thursday and Sunday.	Odd-numbered addresses: Thursday only	
	Watering flowers, vegetables, planters, shrubs, trees	No restrictions	Only by hand using spring-loaded nozzle, containers, or drip irrigation. Sprinklers and soaker hoses prohibited	Prohibited
	Use of pools, spas, fountains/ponds	No restrictions. Must have a recirculation pump. "One-time-through" uses are prohibited at all times		Filling prohibited
	Washing outdoor impermeable surfaces such as driveways, buildings, sidewalks and roads, including pressure washing	No restrictions	Only for health and safety purposes, or to prepare a surface for painting or similar treatment	Prohibited
	Washing vehicles and boats	Only with a hose using spring-loaded shut off	Only by bucket	Prohibited, except for windows, lights, and license plates
	Flushing boat engines	No restrictions		4 minutes maximum
	Filling outdoor water storage	No restrictions		Prohibited
PUBLIC USES	Watering of school property, including Lions Bay Field	No restrictions	Minimum to maintain in useable condition	Prohibited
	Watering of parks, municipal lawns, and grassed boulevards 1 am to 6 am only	Even-numbered addresses: Monday and Wednesday. Odd-numbered addresses: Tuesday and Thursday. Parks Friday only	Even-numbered addresses: Monday only Odd-numbered addresses: Thursday only	Prohibited
	Flushing of water mains and hydrants	Only for safety or public health reasons		

APPENDIX D – TREATED WATER TURBIDITY AND CHLORINE RESIDUAL READINGS

HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM							
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach		
Date	T	C	T	C	T	C	T	C	T	C	T	C	T	C	T	C	
	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	(NTU)	(ppm)	
02 Jan 2018	0.29	0.68	0.24	0.58	0.16	0.45	0.16	0.61	0.12	0.30	0.19	0.94	0.21	0.89	0.30	0.62	
03 Jan 2018	0.43	0.75	0.31	0.71	0.75	0.53	0.40	0.37	0.27	0.49	0.33	0.88	0.37	0.88	0.39	0.86	
04 Jan 2018	0.75	0.83	0.48	0.79	0.32	0.42	0.32	0.43	0.75	0.49	0.32	0.75	0.31	0.56	0.30	0.75	
05 Jan 2018	0.55	0.80	0.17	0.76	0.53	0.59	0.35	0.43	0.42	0.52	0.59	0.94	0.34	0.85	0.39	0.75	
08 Jan 2018	0.71	0.81	0.83	0.78	0.91	0.54	0.91	0.46	0.24	0.26	0.75	0.78	0.94	0.77	0.34	0.51	
09 Jan 2018	1.31	0.83	0.57	0.79	0.37	0.52	0.49	0.43	0.30	0.56	0.64	0.85	0.28	1.04	0.38	0.43	
10 Jan 2018	0.77	0.71	0.39	0.67	0.46	0.52	0.26	0.44	0.17	0.50	0.38	0.91	0.37	0.76	0.53	0.60	
11 Jan 2018	0.74	1.07	0.31	1.04	0.39	0.84	0.26	0.42	0.23	0.41	0.48	0.99	0.38	0.89	0.41	0.71	
12 Jan 2018	1.04	1.03	0.69	0.99	0.55	0.74	0.36	0.41	0.26	0.58	0.21	1.00	0.21	0.95	0.39	0.72	
15 Jan 2018	0.89	0.65	0.18	0.62	0.63	0.52	0.11	0.61	0.22	0.51	0.46	0.86	0.20	0.76	0.48	0.69	
16 Jan 2018	0.79	0.71	0.39	0.67	0.51	0.56	0.71	0.57	0.24	0.44	0.80	0.79	0.44	0.74	0.27	0.79	
17 Jan 2018	1.07	0.72	0.48	0.68	0.53	0.66	0.17	0.48	0.13	0.51	0.42	0.79	0.37	0.70	0.33	0.58	
18 Jan 2018	0.74	0.87	0.63	0.83	0.48	0.66	0.32	0.43	0.11	0.62	0.49	0.78	0.96	0.73	0.53	0.51	
19 Jan 2018	0.73	0.99	0.62	0.95	0.41	0.77	0.30	0.41	0.20	0.52	0.48	0.89	0.47	0.87	0.29	0.59	
22 Jan 2018	0.67	1.03	1.20	0.99	0.37	0.74	0.60	0.55	0.16	0.57	0.93	0.85	0.53	0.82	0.17	0.60	
23 Jan 2018	1.05	0.99	0.69	0.95	0.77	0.89	0.30	0.59	0.51	0.56	0.60	0.89	0.70	0.80	0.48	0.75	
24 Jan 2018	0.46	0.84	0.41	0.79	0.26	0.52	0.16	0.41	0.44	0.71	0.40	0.79	0.35	0.82	0.48	0.42	
25 Jan 2018	0.36	0.92	0.33	0.91	0.33	0.64	0.29	0.49	0.41	0.69	0.38	0.92	0.27	0.73	0.34	0.55	
26 Jan 2018	0.52	0.89	0.62	0.85	0.40	0.54	0.25	0.55	1.30	0.63	0.42	0.94	0.40	0.67	0.32	0.66	
29 Jan 2018	1.11	0.88	0.50	0.84	0.68	0.64	0.15	0.48	0.20	0.49	0.40	1.01	3.65	0.75	0.75	0.72	
30 Jan 2018	2.00	0.75	1.53	0.71	0.89	0.52	0.34	0.53	0.39	0.59	0.89	0.83	0.55	0.63	0.37	0.79	
31 Jan 2018	0.65	0.88	0.78	0.55	0.45	0.61	0.27	0.61	0.51	0.36	0.55	0.88	0.44	0.55	0.49	0.49	
01 Feb 2018	0.73	1.02	0.62	0.98	0.57	0.63	0.20	0.74	0.38	0.74	0.47	0.92	0.46	0.64	0.38	0.63	
02 Feb 2018	0.63	1.00	0.89	0.97	0.61	0.72	0.48	0.34	0.42	0.63	0.63	0.95	0.83	0.77	0.54	0.62	
05 Feb 2018	1.34	0.89	0.68	0.85	0.77	0.58	0.22	0.59	0.36	0.57	1.27	0.87	0.57	0.77	0.42	0.71	
06 Feb 2018	1.19	0.88	0.47	0.84	0.33	0.61	0.30	0.61	0.19	0.57	0.56	0.84	0.53	0.69	0.60	0.68	
07 Feb 2018	0.93	0.89	0.51	0.85	0.78	0.69	0.36	0.55	0.25	0.53	0.38	0.85	0.30	0.66	0.41	0.63	
08 Feb 2018	0.76	0.81	0.75	0.77	0.60	0.77	0.61	0.53	0.13	0.60	0.41	0.89	0.30	0.71	0.34	0.61	
09 Feb 2018	0.75	0.80	0.42	0.76	0.39	0.70	0.66	0.49	0.27	0.69	0.31	0.85	0.34	0.74	0.33	0.61	
13 Feb 2018	0.61	1.13	0.29	1.10	0.41	0.92	0.30	0.59	0.31	0.69	0.29	0.93	0.26	0.95	0.19	0.56	
14 Feb 2018	0.62	1.11	0.39	1.08	0.60	0.98	0.25	0.66	0.41	0.87	0.47	0.94	0.36	0.98	0.42	0.73	
15 Feb 2018	0.45	1.03	0.43	0.99	0.47	0.89	0.34	0.86	0.34	0.71	0.91	0.99	0.17	0.98	0.74	0.74	
16 Feb 2018	0.76	1.02	0.32	0.98	0.43	0.87	0.33	0.86	0.13	0.91	0.38	0.99	0.31	0.93	0.46	0.72	
19 Feb 2018	0.44	1.06	0.22	1.03	0.69	0.90	0.26	0.82	1.04	0.80	0.21	0.97	0.20	0.88	0.28	0.83	

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
20 Feb 2018	0.90	1.00	0.48	0.97	1.52	0.83	0.29	0.81	0.11	0.78	0.30	0.94	0.22	0.86	0.26	0.83
21 Feb 2018	0.84	1.01	0.25	0.97	0.13	0.85	0.15	0.82	0.52	0.76	0.24	0.94	0.26	0.86	0.24	0.80
22 Feb 2018	0.82	1.04	0.34	1.00	0.31	0.84	0.25	0.79	0.47	0.79	0.31	1.01	0.32	0.85	0.18	0.84
23 Feb 2018	0.36	1.01	0.35	0.98	0.69	0.82	0.34	0.81	0.27	0.80	0.25	0.97	0.41	0.88	0.37	0.79
26 Feb 2018	0.67	1.00	0.32	0.96	0.44	0.78	0.61	0.88	0.19	0.79	0.24	0.98	0.26	0.91	0.15	0.83
27 Feb 2018	0.71	1.11	0.51	1.07	0.56	0.86	0.31	0.80	0.15	0.85	0.37	0.96	0.27	0.90	0.29	0.84
28 Feb 2018	0.94	1.02	0.31	0.98	0.80	0.77	0.43	0.79	0.39	0.95	0.76	0.97	0.22	0.88	0.63	0.82
01 Mar 2018	0.69	0.97	0.92	0.93	0.59	0.79	0.75	0.90	0.17	0.94	0.38	0.99	0.33	0.90	0.28	0.84
02 Mar 2018	0.77	0.93	0.36	0.90	0.50	0.72	0.36	0.78	0.13	0.90	0.29	0.94	0.32	0.85	0.40	0.82
05 Mar 2018	0.34	0.91	0.63	0.87	0.27	0.68	0.22	0.67	0.23	0.67	0.10	0.98	0.97	0.80	0.13	0.81
06 Mar 2018	0.73	0.94	0.21	0.91	0.55	0.63	0.29	0.64	0.21	0.81	0.21	0.98	0.18	0.81	0.37	0.80
07 Mar 2018	0.98	0.96	0.30	0.92	0.30	0.68	0.16	0.82	0.31	0.77	0.22	0.92	0.23	0.87	0.24	0.80
08 Mar 2018	0.58	0.84	0.45	0.80	0.42	0.77	0.17	0.66	0.27	0.83	0.38	0.92	0.30	0.79	0.26	0.81
09 Mar 2018	0.40	0.76	0.33	0.73	0.99	0.63	0.31	0.64	0.22	0.75	0.25	0.92	0.26	0.82	0.23	0.80
12 Mar 2018	0.79	0.76	0.29	0.72	0.39	0.73	0.32	0.55	0.14	0.43	0.14	0.88	0.34	0.72	0.23	0.75
13 Mar 2018	0.82	0.89	0.24	0.86	0.24	0.62	0.63	0.50	0.29	0.63	0.20	0.88	0.22	0.68	0.57	0.76
14 Mar 2018	0.69	0.75	0.44	0.71	0.35	0.65	0.31	0.53	0.18	0.60	0.28	0.85	0.36	0.68	0.35	0.73
15 Mar 2018	0.77	0.90	0.37	0.87	0.49	0.72	0.46	0.50	0.11	0.57	0.26	0.78	0.51	0.68	0.21	0.74
16 Mar 2018	0.80	0.92	0.50	0.88	0.49	0.78	0.36	0.48	0.19	0.56	0.24	0.82	0.27	0.72	0.34	0.68
19 Mar 2018	0.93	1.06	0.28	1.02	0.42	0.83	0.61	0.60	0.12	0.74	0.49	0.92	0.18	0.92	0.18	0.62
20 Mar 2018	0.80	1.04	0.45	1.01	0.87	0.88	0.34	0.69	0.13	0.85	0.45	0.92	0.43	0.93	0.35	0.68
21 Mar 2018	0.55	0.94	0.27	0.90	0.34	0.80	0.51	0.72	0.20	0.84	0.33	0.92	0.40	0.85	0.22	0.69
22 Mar 2018	0.48	0.44	0.38	0.91	0.32	0.74	0.25	0.73	0.33	0.80	0.29	0.88	0.21	0.88	0.23	0.72
23 Mar 2018	0.52	0.65	0.48	0.62	0.38	0.57	0.26	0.68	0.11	0.74	0.55	0.76	0.64	0.70	0.29	0.69
26 Mar 2018	0.70	0.93	0.29	0.89	0.58	0.79	0.36	0.49	0.16	0.41	0.64	0.93	0.26	0.86	0.23	0.48
27 Mar 2018	0.79	1.02	0.80	0.98	0.61	0.82	0.46	0.51	0.16	0.66	0.39	0.97	0.47	0.90	0.21	0.55
28 Mar 2018	0.68	0.85	0.42	0.81	0.44	0.71	0.48	0.60	0.14	0.72	0.50	0.88	0.36	0.86	0.21	0.64
29 Mar 2018	0.55	0.75	0.65	0.71	0.81	0.60	0.33	0.61	0.29	0.61	0.38	0.86	0.31	0.81	0.35	0.71

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
30 Mar 2018	0.70	0.78	0.62	0.74	0.38	0.56	0.27	0.55	0.33	0.54	0.63	0.84	0.21	0.77	0.24	0.67
03 Apr 2018	0.49	1.04	0.48	1.00	0.65	0.96	0.23	0.64	0.11	0.62	0.47	0.87	0.76	0.82	0.19	0.58
04 Apr 2018	0.72	1.04	0.62	1.00	0.35	0.91	0.46	0.74	0.27	0.81	0.42	0.83	0.27	0.81	0.20	0.63
05 Apr 2018	0.69	1.00	0.59	0.97	0.41	0.89	0.18	0.76	0.20	0.83	0.13	0.86	0.40	0.84	0.19	0.63
06 Apr 2018	0.61	0.80	0.53	0.76	0.66	0.69	0.34	0.78	0.16	0.81	0.26	0.82	0.27	0.79	0.25	0.65
09 Apr 2018	0.94	0.52	0.87	0.48	0.71	0.25	0.87	0.40	0.27	0.25	1.10	0.57	0.61	0.50	0.26	0.55
10 Apr 2018	1.01	0.81	0.70	0.77	0.58	0.40	0.39	0.23	0.41	0.24	0.89	0.75	0.58	0.57	0.57	0.37
11 Apr 2018	0.72	1.01	0.83	0.97	0.38	0.82	0.41	0.32	0.59	0.32	0.79	0.91	0.56	0.72	0.46	0.24
12 Apr 2018	0.84	1.14	0.68	1.10	0.45	0.98	0.78	0.51	0.35	0.52	0.70	1.01	0.56	0.85	0.35	0.38
13 Apr 2018	0.73	1.05	0.39	1.01	0.43	0.87	0.59	0.70	0.31	0.66	0.43	1.02	0.43	0.90	0.38	0.62
16 Apr 2018	0.76	1.04	0.77	1.02	0.46	0.65	0.45	0.71	0.18	0.63	0.71	0.98	0.38	0.91	0.48	0.72
17 Apr 2018	0.89	0.82	0.52	0.78	0.44	0.63	0.31	0.68	0.65	0.63	0.56	0.95	0.48	0.96	0.36	0.74
18 Apr 2018	0.82	0.83	0.64	0.78	0.29	0.57	0.51	0.66	0.33	0.59	0.66	0.94	0.49	0.87	0.35	0.65
19 Apr 2018	0.77	0.86	0.42	0.82	0.43	0.60	0.24	0.64	0.19	0.59	0.40	0.86	0.20	0.81	0.32	0.72
20 Apr 2018	0.59	0.83	0.52	0.79	0.36	0.56	0.30	0.61	0.15	0.52	0.36	0.81	0.51	0.76	0.29	0.68
23 Apr 2018	0.64	0.80	0.42	0.76	0.59	0.65	0.24	0.56	0.71	0.45	0.24	0.83	0.44	0.76	0.17	0.61
24 Apr 2018	0.64	0.83	0.44	0.79	0.43	0.68	0.38	0.60	0.18	0.49	0.28	0.87	0.22	0.80	0.18	0.66
25 Apr 2018	0.78	0.85	0.36	0.81	0.34	0.69	0.31	0.69	0.23	0.63	0.32	0.89	0.25	0.82	0.14	0.68
26 Apr 2018	0.72	0.86	0.47	0.82	0.29	0.68	0.47	0.70	0.24	0.57	0.27	0.85	0.30	0.81	0.27	0.69
27 Apr 2018	0.74	0.85	0.55	0.81	0.37	0.63	0.27	0.71	0.16	0.58	0.24	0.85	0.37	0.81	0.19	0.69
30 Apr 2018	0.52	0.84	0.34	0.79	0.30	0.58	0.33	0.36	0.60	0.50	0.24	0.82	0.27	0.75	0.24	0.51
01 May 2018	0.47	0.82	0.68	0.88	0.37	0.70	0.30	0.47	0.57	0.42	0.25	0.81	0.60	0.76	0.64	0.47
02 May 2018	1.94	0.92	0.76	0.88	0.34	0.65	0.42	0.78	0.29	0.49	0.76	0.89	0.32	0.79	0.36	0.56
03 May 2018	0.39	0.93	0.39	0.89	0.29	0.71	0.18	0.70	0.23	0.55	0.34	0.88	0.30	0.80	0.20	0.64
04 May 2018	0.63	0.87	0.37	0.85	0.36	0.58	0.39	0.72	0.24	0.56	0.29	0.77	0.24	0.74	0.20	0.67
07 May 2018	0.92	0.80	0.68	0.75	0.43	0.60	0.81	0.72	0.27	0.44	0.49	0.73	0.28	0.68	0.18	0.56
08 May 2018	0.91	0.73	0.52	0.69	0.71	0.61	0.35	0.60	0.37	0.48	0.61	0.84	0.32	0.73	0.38	0.56
09 May 2018	1.26	0.87	0.62	0.83	0.80	0.66	0.63	0.70	0.26	0.43	0.55	0.89	0.36	0.80	0.31	0.51

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
10 May 2018	0.73	0.86	0.49	0.82	0.46	0.70	0.35	0.69	0.22	0.45	0.89	0.90	0.48	0.81	0.24	0.62
11 May 2018	1.42	0.96	0.46	0.92	0.46	0.73	0.34	0.73	0.34	0.59	0.61	0.92	0.51	0.85	0.36	0.57
14 May 2018	0.90	0.98	0.55	0.94	0.62	0.63	0.68	0.75	0.22	0.53	0.64	0.87	0.64	0.66	0.37	0.72
15 May 2018	0.90	0.86	0.49	0.82	1.12	0.63	0.43	0.77	0.22	0.58	0.58	0.74	0.33	0.67	0.41	0.65
16 May 2018	1.01	0.85	0.62	0.82	0.48	0.65	0.63	0.77	0.21	0.61	0.75	0.72	0.34	0.71	0.59	0.56
17 May 2018	1.23	0.85	0.50	0.82	0.43	0.70	0.40	0.73	0.19	0.48	0.70	0.87	0.41	0.67	0.52	0.48
18 May 2018	0.84	0.84	0.45	0.80	0.31	0.63	0.45	0.70	0.22	0.47	0.72	0.76	0.59	0.67	0.46	0.42
22 May 2018	1.04	0.85	0.48	0.81	0.29	0.73	0.24	0.73	0.15	0.42	0.48	0.89	0.19	0.62	0.32	0.83
23 May 2018	0.71	0.89	0.83	0.85	0.59	0.70	0.72	0.81	0.22	0.49	0.59	0.86	0.45	0.62	0.34	0.76
24 May 2018	0.75	0.87	0.35	0.83	0.46	0.64	0.54	0.76	0.19	0.67	0.55	0.89	0.38	0.67	0.36	0.76
25 May 2018	0.78	0.80	0.46	0.76	0.47	0.62	0.50	0.73	0.22	0.49	0.66	0.90	0.23	0.63	0.21	0.69
28 May 2018	1.18	0.92	0.48	0.88	0.36	0.77	0.77	0.82	0.20	0.42	0.40	0.92	0.38	0.72	0.29	0.76
29 May 2018	0.72	0.87	0.59	0.83	0.59	0.69	0.25	0.77	0.22	0.52	0.49	0.84	0.36	0.70	0.25	0.73
30 May 2018	0.62	0.90	0.33	0.87	0.39	0.68	0.42	0.79	0.19	0.55	0.37	0.84	0.22	0.73	0.25	0.70
31 May 2018	0.51	0.89	0.35	0.86	0.30	0.69	0.20	0.74	0.21	0.50	0.31	0.85	0.28	0.73	0.25	0.62
01 Jun 2018	0.60	0.85	0.24	0.81	0.63	0.66	0.28	0.76	0.60	0.46	0.45	0.86	0.39	0.81	0.30	0.62
04 Jun 2018	0.60	0.83	0.32	0.79	0.33	0.65	0.46	0.77	0.22	0.38	0.24	0.77	0.20	0.70	0.21	0.65
05 Jun 2018	0.69	0.87	0.24	0.84	0.39	0.67	0.39	0.73	0.28	0.44	0.43	0.85	0.19	0.76	0.22	0.62
06 Jun 2018	0.69	0.95	0.29	0.92	0.35	0.68	0.41	0.82	0.14	0.45	0.47	0.89	1.70	0.85	0.21	0.61
07 Jun 2018	0.57	0.94	0.25	0.91	0.23	0.78	0.30	0.80	0.27	0.54	0.36	0.94	0.30	0.86	0.26	0.67
08 Jun 2018	0.60	0.90	0.31	0.87	0.24	0.75	0.27	0.84	0.16	0.57	0.38	0.89	0.28	0.87	0.21	0.67
11 Jun 2018	0.56	0.99	0.24	0.95	0.23	0.70	0.36	0.82	0.21	0.34	0.41	0.86	0.35	0.69	0.37	0.38
12 Jun 2018	0.57	1.25	0.40	1.22	0.54	0.90	0.30	0.93	0.39	0.50	0.45	1.13	0.23	0.88	0.29	0.41
13 Jun 2018	0.60	0.96	0.24	0.92	0.21	0.79	0.51	0.90	0.31	0.52	0.46	1.07	0.16	0.84	0.53	0.65
14 Jun 2018	0.49	0.75	0.26	0.71	0.21	0.54	0.32	0.71	0.34	0.51	0.37	0.95	0.29	0.71	0.28	0.66
15 Jun 2018	0.28	0.51	0.27	0.64	0.27	0.77	0.33	0.54	0.35	0.30	0.43	0.89	0.17	0.53	0.40	0.74
18 Jun 2018	0.62	0.90	0.35	0.87	0.41	0.71	0.77	0.83	0.17	0.38	0.50	0.64	0.25	0.72	0.29	0.53
19 Jun 2018	0.65	0.96	0.65	0.92	0.42	0.80	0.48	0.80	0.17	0.57	0.69	0.74	0.63	0.81	0.26	0.45

Lions Bay Drinking Water Quality 2018 Annual Report

HARVEY CREEK SYSTEM											MAGNESIA CREEK SYSTEM					
Date	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
20 Jun 2018	0.55	0.90	0.42	0.87	0.38	0.73	0.96	0.88	0.45	0.52	0.73	0.84	0.28	0.80	0.35	0.60
21 Jun 2018	0.58	0.90	0.53	0.87	0.37	0.68	0.27	0.77	0.23	0.50	0.42	0.93	0.43	0.76	0.30	0.60
22 Jun 2018	0.62	0.93	0.45	0.89	0.34	0.63	0.27	0.79	0.24	0.45	0.33	0.98	0.21	0.75	0.23	0.80
25 Jun 2018	0.45	0.77	0.21	0.74	0.22	0.60	0.39	0.72	0.16	0.41	0.29	0.91	0.25	0.64	0.23	0.75
26 Jun 2018	0.67	0.80	0.36	0.76	0.30	0.58	0.31	0.59	0.26	0.41	0.44	0.89	0.30	0.65	0.24	0.77
27 Jun 2018	0.36	0.74	0.18	0.89	0.28	0.68	0.23	0.95	0.16	0.48	0.40	0.91	0.16	0.68	0.22	0.65
28 Jun 2018	0.39	0.84	0.36	1.05	0.35	0.71	0.33	0.73	0.22	0.53	0.25	0.83	0.34	0.74	0.35	0.62
29 Jun 2018	0.32	0.85	0.27	0.88	0.24	0.75	0.27	0.78	0.21	0.52	0.20	0.80	0.28	0.76	0.29	0.60
03 Jul 2018	0.33	0.81	0.32	0.90	0.25	0.82	0.18	0.78	0.42	0.56	0.18	0.88	0.14	0.81	0.21	0.66
04 Jul 2018	0.32	0.70	0.25	0.87	0.24	0.75	0.32	0.88	0.49	0.62	0.36	0.81	0.24	0.88	0.18	0.64
05 Jul 2018	0.47	0.52	0.35	0.92	0.38	0.73	0.20	0.78	0.14	0.65	0.33	0.82	0.23	0.82	0.24	0.75
06 Jul 2018	0.42	0.97	0.26	0.82	0.24	0.68	0.23	0.76	0.24	0.51	0.36	0.72	0.35	0.75	0.38	0.48
09 Jul 2018	0.31	0.73	0.17	0.89	0.26	0.73	0.31	0.86	0.23	0.53	0.25	0.71	0.30	0.80	0.22	0.44
10 Jul 2018	0.30	0.81	0.21	0.87	0.19	0.75	0.17	0.78	0.25	0.55	0.41	0.81	0.41	0.81	0.33	0.41
11 Jul 2018	0.41	0.78	0.34	0.74	0.33	0.58	0.57	0.74	0.27	0.46	0.45	0.80	0.21	0.67	0.29	0.42
12 Jul 2018	0.42	0.95	0.22	0.91	0.29	0.66	0.56	0.79	0.29	0.53	0.28	0.81	0.50	0.74	0.21	0.48
13 Jul 2018	0.40	0.89	0.29	0.85	0.34	0.69	0.46	0.81	0.16	0.52	0.32	0.84	0.27	0.74	0.49	0.52
16 Jul 2018	0.69	0.81	0.30	0.77	0.34	0.67	0.33	0.74	0.25	0.46	0.24	1.07	0.39	1.03	0.25	0.81
17 Jul 2018	0.55	0.86	0.36	0.82	0.55	0.71	0.31	0.75	0.19	0.48	0.28	0.96	0.27	0.91	0.33	0.88
18 Jul 2018	0.48	0.86	0.28	0.82	0.39	0.66	0.22	0.77	0.14	0.59	0.20	0.88	0.21	0.85	0.25	0.77
19 Jul 2018	0.38	0.87	0.26	0.83	0.54	0.70	0.33	0.76	0.20	0.51	0.25	0.86	0.28	0.79	0.22	0.68
20 Jul 2018	0.38	0.93	0.16	0.88	0.16	0.77	0.17	0.73	0.16	0.62	0.17	0.89	0.17	0.80	0.46	0.64
23 Jul 2018	0.61	1.10	0.20	1.06	0.15	0.92	0.26	0.97	0.22	0.62	0.21	0.89	0.18	0.82	0.20	0.55
24 Jul 2018	0.45	1.05	0.30	1.01	0.37	0.90	0.21	0.91	0.17	0.72	0.16	0.82	0.20	0.86	0.19	0.66
25 Jul 2018	0.46	0.96	0.24	0.92	0.17	0.81	0.15	0.89	0.20	0.69	0.21	0.80	0.16	0.76	0.18	0.71
26 Jul 2018	1.04	0.85	0.44	0.81	0.31	0.66	0.27	0.76	0.20	0.60	0.26	0.76	0.29	0.75	0.33	0.67
27 Jul 2018	0.87	0.77	0.28	0.73	0.29	0.59	0.21	0.66	0.16	0.49	0.51	0.83	0.46	0.78	0.36	0.66
30 Jul 2018	0.71	0.82	0.13	0.78	0.17	0.66	0.15	0.72	0.27	0.41	0.43	0.92	0.49	0.87	0.21	0.78

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
31 Jul 2018	0.51	0.85	0.19	0.81	0.20	0.70	0.20	0.68	0.14	0.50	0.64	0.89	0.20	0.86	0.31	0.70
01 Aug 2018	0.49	0.87	0.20	0.83	0.35	0.70	0.29	0.77	0.13	0.46	0.46	0.87	0.20	0.85	0.24	0.67
02 Aug 2018	0.55	0.92	0.15	0.88	0.20	0.76	0.18	0.74	0.14	0.49	0.38	0.89	0.23	0.86	0.22	0.71
03 Aug 2018	0.50	0.89	0.13	0.85	0.22	0.70	0.12	0.73	0.15	0.53	0.30	0.90	0.16	0.86	0.26	0.66
07 Aug 2018	0.75	0.84	0.15	0.80	0.30	0.68	0.11	0.75	0.19	0.37	0.20	0.92	0.13	0.88	0.19	0.76
08 Aug 2018	0.70	0.83	0.32	0.79	0.24	0.60	0.16	0.72	0.12	0.45	1.14	0.81	0.20	0.77	0.19	0.72
09 Aug 2018	0.53	0.82	0.35	0.78	0.24	0.66	0.19	0.68	0.13	0.46	0.33	0.81	0.23	0.79	0.24	0.66
10 Aug 2018	0.54	0.82	0.14	0.78	0.19	0.61	0.19	0.73	0.17	0.47	0.72	0.94	0.17	0.93	0.28	0.60
13 Aug 2018	0.71	0.78	0.18	0.74	0.25	0.54	0.11	0.65	0.15	0.39	0.14	0.78	0.40	0.74	0.23	0.47
14 Aug 2018	0.53	0.78	0.17	0.74	0.21	0.62	0.13	0.67	0.22	0.42	0.20	0.79	0.19	0.76	0.44	0.46
15 Aug 2018	0.93	0.79	0.26	0.75	0.29	0.62	0.28	0.73	0.12	0.44	0.16	0.79	0.19	0.73	0.33	0.53
16 Aug 2018	0.24	0.73	0.16	0.69	0.20	0.54	0.12	0.65	0.11	0.43	0.14	0.74	0.20	0.72	0.23	0.56
17 Aug 2018	0.50	0.87	0.19	0.83	0.21	0.63	0.14	0.65	0.19	0.41	0.20	0.81	0.17	0.79	0.28	0.48
20 Aug 2018	0.78	0.95	0.42	0.91	0.34	0.79	0.21	0.91	0.14	0.58	0.25	0.97	0.25	0.95	0.37	0.55
21 Aug 2018	0.45	0.70	0.17	0.48	0.18	0.35	0.26	0.66	0.15	0.48	0.18	0.83	0.39	0.81	0.29	0.67
22 Aug 2018	0.69	0.34	0.35	0.30	0.35	0.39	0.32	0.58	0.30	0.69	0.37	0.83	0.41	0.80	0.42	0.63
23 Aug 2018	0.52	0.88	0.26	0.84	0.26	0.64	0.23	0.69	0.22	0.47	0.22	0.83	0.27	0.80	0.39	0.60
24 Aug 2018	0.55	0.98	0.28	0.94	0.29	0.68	0.18	0.78	0.29	0.51	0.24	0.93	0.30	0.89	0.36	0.59
27 Aug 2018	0.56	0.98	0.29	0.94	0.30	0.72	0.22	0.89	0.19	0.60	0.43	0.95	0.33	0.92	0.26	0.72
28 Aug 2018	0.53	0.90	0.18	0.87	0.29	0.74	0.21	0.83	0.14	0.69	0.20	0.95	0.19	0.92	0.22	0.72
29 Aug 2018	0.60	0.83	0.34	0.79	0.24	0.65	0.25	0.79	0.27	0.67	0.45	0.94	0.25	0.92	0.31	0.74
30 Aug 2018	0.38	0.79	0.17	0.75	0.26	0.65	0.13	0.68	0.14	0.56	0.22	0.90	0.15	0.86	0.50	0.70
31 Aug 2018	0.61	0.80	0.22	0.76	0.29	0.61	0.24	0.69	0.18	0.56	0.53	0.77	0.50	0.78	0.32	0.69
04 Sep 2018	0.38	0.90	0.38	0.86	0.21	0.75	0.14	0.80	0.13	0.54	0.33	0.93	0.30	0.90	0.22	0.71
05 Sep 2018	0.74	0.96	0.19	0.92	0.17	0.73	0.13	0.87	0.15	0.77	0.19	0.86	0.13	0.86	0.32	0.72
06 Sep 2018	0.91	0.89	0.12	0.85	0.17	0.73	0.21	0.82	0.21	0.61	0.26	0.80	0.33	0.80	0.32	0.69
07 Sep 2018	0.74	0.85	0.27	0.81	0.38	0.71	0.26	0.75	0.16	0.61	0.43	0.81	0.13	0.80	0.30	0.60
10 Sep 2018	0.88	0.65	0.29	0.61	0.23	0.55	0.16	0.69	0.17	0.47	0.37	0.87	0.17	0.84	0.23	0.59

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
11 Sep 2018	0.28	0.55	0.24	0.54	0.30	0.44	0.18	0.48	0.18	0.30	0.22	0.87	0.31	0.82	0.35	0.67
12 Sep 2018	0.77	0.67	0.22	0.63	0.27	0.51	0.24	0.44	3.03	0.71	0.46	0.90	0.31	0.86	0.28	0.53
13 Sep 2018	0.73	0.92	0.69	0.88	0.26	0.59	0.20	0.46	1.23	0.26	0.53	0.88	0.34	0.85	0.31	0.64
14 Sep 2018	0.66	0.84	0.45	0.80	0.30	0.52	0.25	0.67	0.35	0.35	0.46	0.82	0.28	0.81	0.44	0.54
17 Sep 2018	1.25	0.54	1.00	0.50	0.82	0.21	0.69	0.24	0.63	0.22	7.22	0.04	1.52	0.35	0.40	0.37
18 Sep 2018	2.30	0.88	1.01	0.84	0.82	0.24	0.76	0.24	0.59	0.28	6.18	0.35	1.04	0.63	1.30	0.20
19 Sep 2018	1.11	1.00	0.64	0.96	0.63	0.41	0.43	0.67	0.36	0.22	3.94	0.40	0.59	0.89	0.46	0.49
20 Sep 2018	0.72	0.99	0.47	0.95	0.49	0.68	0.46	0.71	0.27	0.37	3.12	0.52	0.51	0.87	0.41	0.28
21 Sep 2018	0.36	0.68	0.36	0.69	0.29	0.60	0.27	0.71	0.72	0.52	2.30	0.59	0.39	0.71	0.28	0.39
24 Sep 2018	0.68	0.77	0.47	0.73	0.60	0.52	0.33	0.51	0.25	0.35	1.72	0.20	0.37	0.66	0.42	0.29
25 Sep 2018	0.65	0.85	0.28	0.81	0.24	0.51	0.26	0.47	0.20	0.35	1.20	0.71	0.35	0.74	0.27	0.22
26 Sep 2018	0.55	0.89	0.47	0.85	0.21	0.57	0.42	0.71	0.18	0.27	0.93	0.87	0.25	0.82	0.26	0.30
27 Sep 2018	0.52	0.91	0.32	0.87	0.29	0.69	0.21	0.64	0.20	0.32	0.71	1.10	0.37	0.86	0.25	0.41
28 Sep 2018	0.69	0.97	0.46	0.93	0.34	0.73	0.21	0.68	0.18	0.41	0.54	1.11	0.25	0.83	0.17	0.47
01 Oct 2018	0.83	0.66	0.20	0.62	0.46	0.41	0.39	0.61	0.36	0.27	0.45	0.86	0.37	0.56	0.26	0.42
02 Oct 2018	0.98	0.74	0.45	0.70	0.28	0.46	0.28	0.33	0.23	0.26	0.36	0.74	0.33	0.57	0.37	0.40
03 Oct 2018	0.62	1.08	0.28	1.04	0.45	0.79	0.32	0.66	0.34	0.37	0.49	0.68	0.33	0.95	0.24	0.21
04 Oct 2018	0.62	1.27	0.41	1.23	0.28	0.93	0.38	0.78	0.16	0.44	0.29	0.87	0.39	1.13	0.22	0.35
05 Oct 2018	0.59	1.11	0.87	1.14	0.43	0.80	0.31	0.97	0.16	0.53	0.44	1.03	1.34	1.27	0.28	0.73
09 Oct 2018	1.28	0.75	0.64	0.71	0.45	0.60	0.13	0.69	0.16	0.42	0.76	1.12	0.53	1.09	0.53	0.80
10 Oct 2018	1.30	0.74	0.47	0.70	0.34	0.52	0.45	0.65	0.21	0.41	0.47	0.99	0.29	0.98	0.36	0.83
11 Oct 2018	0.82	0.82	0.45	0.78	0.19	0.68	0.26	0.57	0.17	0.32	0.39	0.87	0.18	0.67	0.37	0.78
12 Oct 2018	0.81	0.89	0.40	0.85	0.37	0.64	0.30	0.62	0.21	0.32	0.51	0.82	0.41	0.76	0.34	0.70
15 Oct 2018	0.56	0.96	0.24	0.92	0.33	0.82	0.16	0.85	0.15	0.39	0.19	0.79	0.22	0.88	0.34	0.54
16 Oct 2018	0.68	1.00	0.32	0.96	0.24	0.81	0.33	0.82	0.27	0.55	0.26	0.81	0.29	0.92	0.37	0.54
17 Oct 2018	0.50	0.94	0.31	0.90	0.49	0.71	0.27	0.93	0.19	0.56	0.38	0.83	0.42	0.88	0.30	0.62
18 Oct 2018	0.42	0.89	0.29	0.85	0.81	0.72	0.33	0.86	0.14	0.64	0.27	0.88	0.34	0.86	0.43	0.59
19 Oct 2018	0.77	0.83	0.22	0.79	0.28	0.68	0.24	0.75	0.18	0.57	0.36	0.89	0.63	0.72	0.33	0.62

Lions Bay Drinking Water Quality 2018 Annual Report

Date	HARVEY CREEK SYSTEM										MAGNESIA CREEK SYSTEM					
	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
22 Oct 2018	0.73	0.80	0.48	0.76	0.31	0.65	0.26	0.72	0.29	0.42	0.27	0.90	0.30	0.94	0.37	0.72
23 Oct 2018	0.70	0.74	0.44	0.70	0.36	0.62	0.22	0.66	0.27	0.55	0.27	0.94	0.40	0.92	0.40	0.70
24 Oct 2018	0.67	0.79	0.35	0.75	0.30	0.63	0.32	0.68	0.20	0.45	0.32	0.95	0.39	0.89	0.33	0.68
25 Oct 2018	0.74	0.76	0.37	0.72	0.28	0.60	0.21	0.63	0.24	0.43	0.29	0.78	0.24	0.76	0.36	0.63
26 Oct 2018	0.67	0.61	0.42	0.57	0.36	0.45	0.30	0.61	0.36	0.48	0.39	0.66	0.30	0.67	0.36	0.61
29 Oct 2018	1.04	0.67	0.51	0.63	0.49	0.52	0.26	0.56	0.18	0.23	0.39	0.80	0.35	0.72	0.27	0.30
30 Oct 2018	0.84	0.81	0.57	0.77	0.31	0.56	0.30	0.45	0.19	0.22	0.40	0.84	0.43	0.80	0.27	0.46
31 Oct 2018	0.64	0.94	0.41	0.90	0.58	0.75	0.33	0.73	0.22	0.26	0.52	0.89	0.43	0.87	0.31	0.43
01 Nov 2018	1.04	0.85	0.58	0.81	0.59	0.63	0.29	0.64	0.23	0.38	0.56	0.85	0.50	0.78	0.24	0.49
02 Nov 2018	0.92	0.82	0.57	0.78	0.40	0.61	0.53	0.60	0.23	0.37	1.14	0.59	1.15	0.48	0.29	0.47
05 Nov 2018	1.02	0.99	0.57	0.95	0.40	0.78	0.41	0.72	0.43	0.21	1.45	0.33	0.43	0.89	0.53	0.29
06 Nov 2018	0.75	0.98	0.37	0.93	0.48	0.69	0.58	0.69	0.22	0.30	1.06	1.05	0.55	0.87	0.29	0.29
07 Nov 2018	0.92	0.89	0.55	0.85	0.41	0.62	0.45	0.78	0.19	0.33	0.68	1.08	0.43	0.83	0.30	0.42
08 Nov 2018	1.04	0.89	0.73	0.85	0.26	0.70	0.43	0.66	0.26	0.31	0.38	1.05	0.48	0.82	0.27	0.33
09 Nov 2018	2.07	0.86	0.59	0.82	0.66	0.65	0.34	0.64	0.17	0.34	0.67	0.87	0.58	0.88	0.19	0.48
13 Nov 2018	1.02	0.87	0.63	0.83	0.51	0.66	0.41	0.67	0.27	0.30	0.32	0.88	0.23	0.89	0.32	0.54
14 Nov 2018	1.09	0.91	0.57	0.87	0.46	0.73	0.24	0.69	0.17	0.49	0.60	0.75	0.64	0.76	0.27	0.64
15 Nov 2018	0.50	0.59	0.53	0.70	0.33	0.39	0.19	0.77	0.31	0.49	0.43	0.64	0.33	0.64	0.30	0.59
16 Nov 2018	1.05	0.68	0.53	0.64	0.18	0.38	0.34	0.40	0.42	0.43	0.47	0.72	0.39	0.65	0.69	0.49
19 Nov 2018	1.34	1.00	0.46	0.96	0.49	0.76	0.40	0.56	0.17	0.28	0.37	0.85	0.34	0.85	0.20	0.34
20 Nov 2018	0.86	0.98	0.55	0.94	0.42	0.74	0.27	0.75	0.17	0.45	0.45	0.93	0.97	0.90	0.29	0.46
21 Nov 2018	0.65	0.92	0.49	0.87	0.35	0.65	0.23	0.75	0.18	0.55	0.41	0.96	0.50	0.91	0.29	0.60
22 Nov 2018	0.67	0.66	0.50	0.62	0.46	0.52	0.46	0.72	0.49	0.60	0.61	0.87	0.47	0.85	0.52	0.64
23 Nov 2018	0.96	0.58	0.58	0.54	0.52	0.41	0.37	0.58	0.24	0.38	0.65	0.79	0.45	0.80	0.30	0.67
26 Nov 2018	0.90	0.98	0.83	0.94	0.45	0.61	0.37	0.48	0.21	0.25	0.44	0.96	0.42	0.91	0.53	0.48
27 Nov 2018	1.39	0.81	1.30	0.77	1.20	0.49	0.54	0.62	0.21	0.74	5.23	0.45	0.99	0.71	0.35	0.54
28 Nov 2018	1.85	0.98	1.10	0.94	0.99	0.72	0.47	0.56	0.48	0.33	4.01	0.70	1.24	0.89	0.52	0.59
29 Nov 2018	1.16	1.17	0.92	1.13	0.74	0.84	0.58	0.84	0.71	0.25	3.54	0.60	0.64	1.03	0.77	0.27

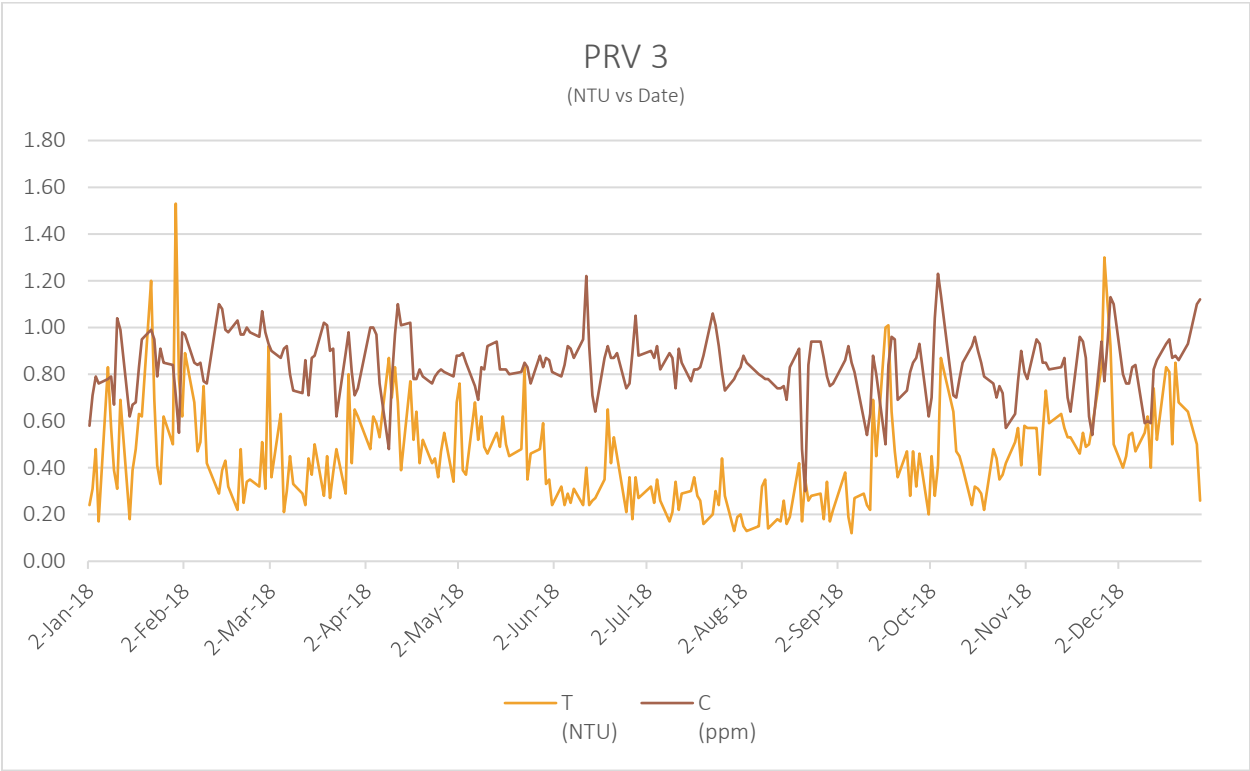
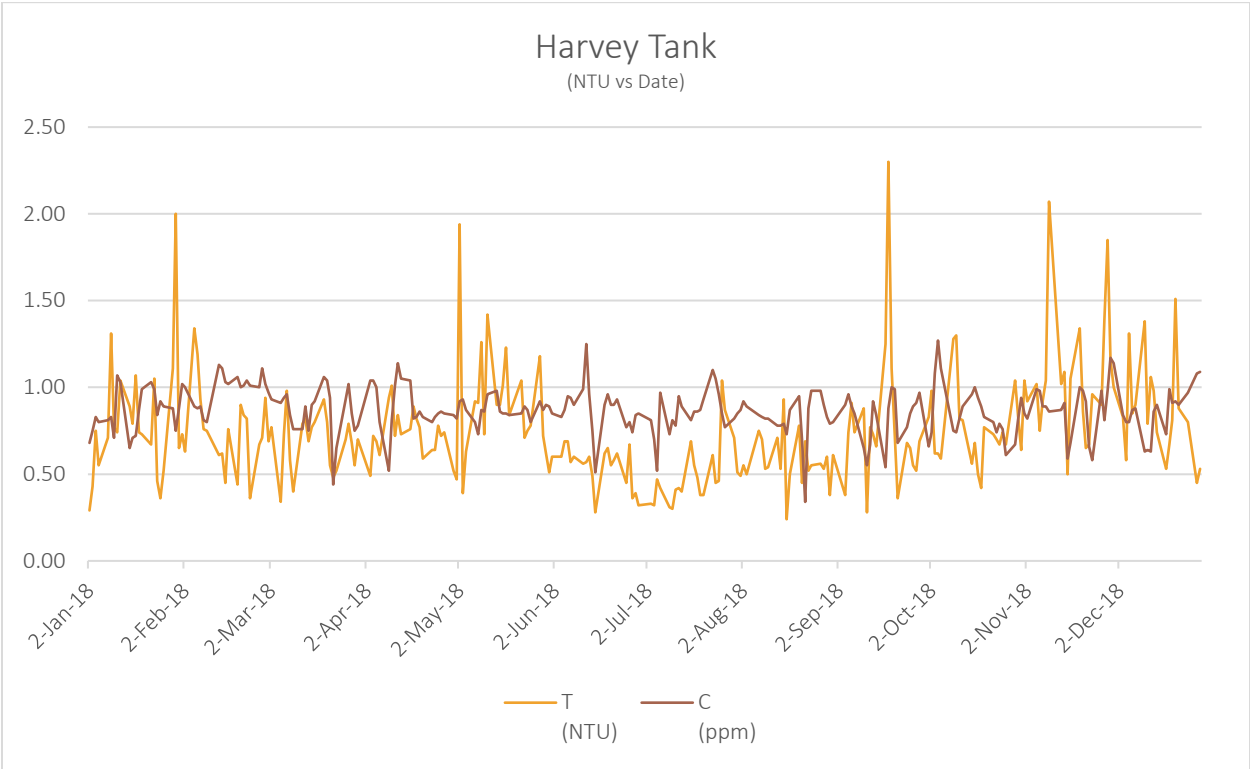
Lions Bay Drinking Water Quality 2018 Annual Report

HARVEY CREEK SYSTEM											MAGNESIA CREEK SYSTEM					
Date	Harvey Tank		PRV Station 3		Lions Bay Café		Lions Bay Ave.		Kelvin Grove Way		Magnesia Tank		PRV Station 5		Brunswick Beach	
	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)	T (NTU)	C (ppm)
30 Nov 2018	1.00	1.14	0.50	1.10	0.58	0.89	0.49	0.83	0.54	0.38	2.32	0.73	0.62	1.10	0.70	0.63
03 Dec 2018	0.83	0.84	0.40	0.80	0.45	0.57	0.46	0.62	0.34	0.26	0.61	1.23	0.37	0.76	0.46	0.35
04 Dec 2018	0.58	0.80	0.45	0.76	0.33	0.52	0.49	0.64	0.80	0.35	0.61	1.05	0.44	0.73	0.27	0.38
05 Dec 2018	1.31	0.80	0.54	0.76	0.48	0.47	0.27	0.58	0.58	0.33	0.79	1.00	0.43	0.76	0.29	0.33
06 Dec 2018	0.85	0.87	0.55	0.83	0.51	0.60	0.40	0.63	0.22	0.35	0.56	0.95	0.19	0.82	0.24	0.32
07 Dec 2018	0.90	0.88	0.47	0.84	0.57	0.60	0.77	0.65	0.21	0.49	0.63	0.95	0.37	0.96	0.34	0.33
10 Dec 2018	1.38	0.63	0.55	0.59	0.68	0.54	0.24	0.74	0.22	0.47	0.58	0.82	0.40	0.80	0.62	0.61
11 Dec 2018	0.79	0.64	0.62	0.60	0.48	0.44	0.55	0.50	0.29	0.42	0.59	0.74	0.74	0.71	0.53	0.65
12 Dec 2018	1.06	0.63	0.40	0.59	0.56	0.30	0.69	0.31	0.31	0.20	0.76	0.75	0.62	0.79	0.39	0.58
13 Dec 2018	0.98	0.86	0.74	0.82	0.50	0.60	0.38	0.37	0.30	0.20	0.54	1.06	0.56	1.02	0.70	0.72
14 Dec 2018	0.74	0.90	0.52	0.86	0.41	0.64	0.49	0.45	0.25	0.37	0.46	0.93	0.43	0.90	0.39	0.50
17 Dec 2018	0.53	0.73	0.83	0.93	0.51	0.74	0.46	0.55	0.52	0.32	0.76	0.80	0.63	0.87	0.40	0.46
18 Dec 2018	0.67	0.99	0.81	0.95	0.60	0.69	0.43	0.68	0.45	0.47	1.07	0.70	0.68	0.94	0.42	0.48
19 Dec 2018	0.81	0.91	0.50	0.87	0.68	0.69	0.32	0.69	0.39	0.49	1.11	0.71	0.67	0.88	0.66	0.53
20 Dec 2018	1.51	0.92	0.85	0.88	0.54	0.69	0.42	0.66	0.30	0.43	0.80	0.81	0.64	0.86	0.52	0.44
21 Dec 2018	0.88	0.90	0.68	0.86	0.52	0.64	0.30	0.66	0.39	0.40	0.85	0.87	0.66	0.81	0.53	0.39
24 Dec 2018	0.80	0.97	0.64	0.93	0.49	0.74	0.41	0.74	0.99	0.43	0.75	1.04	0.46	0.86	0.38	0.41
27 Dec 2018	0.45	1.08	0.50	1.10	0.67	0.96	0.48	0.75	0.46	0.49	0.53	1.20	0.52	1.09	0.37	0.38
28 Dec 2018	0.53	1.09	0.26	1.12	0.35	0.99	0.26	0.92	0.50	0.59	0.34	1.42	0.20	1.12	0.22	0.55

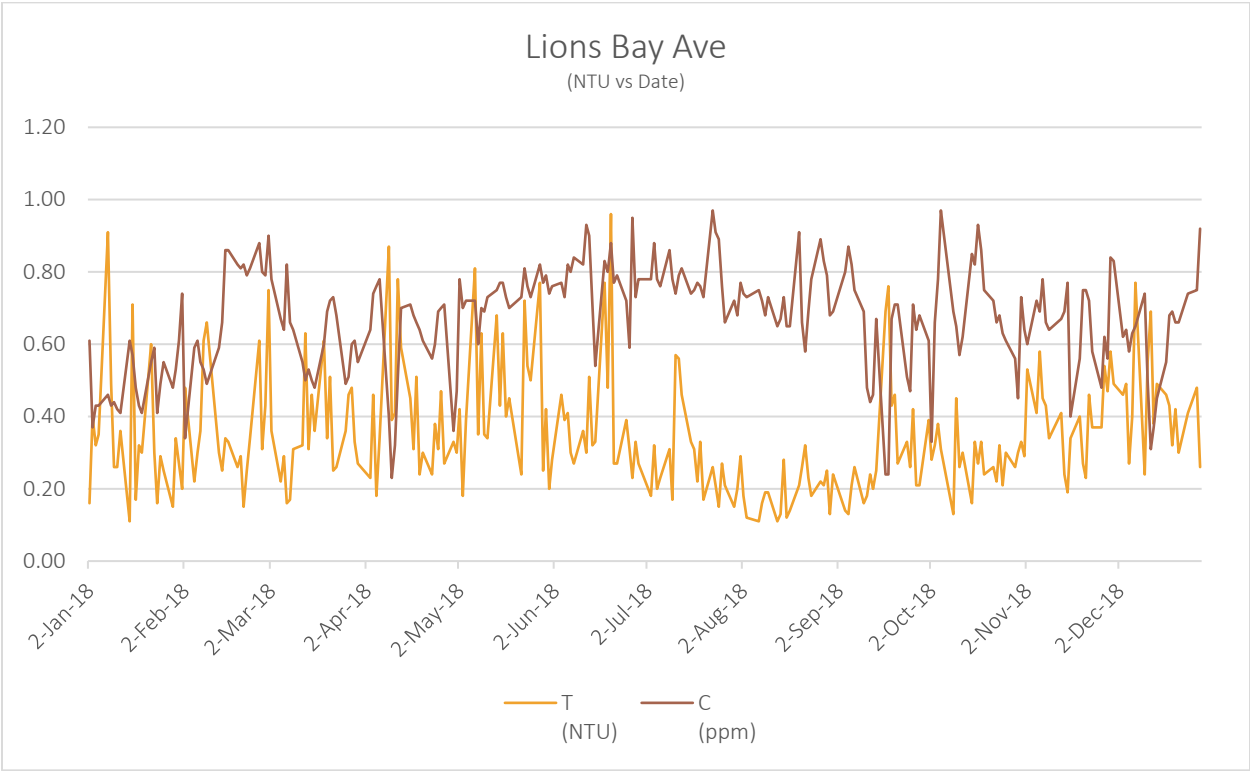
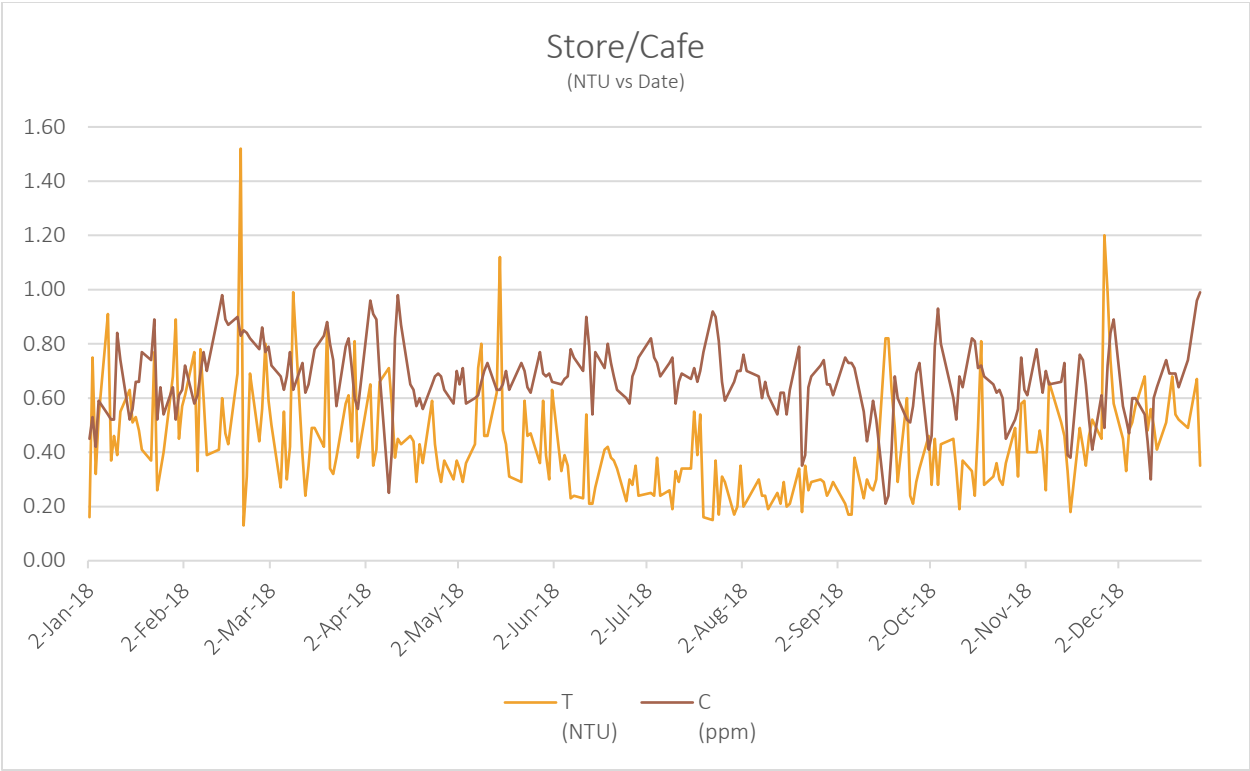
APPENDIX E – CHLORINE RESIDUAL AGAINST TURBIDITY GRAPHS

Lions Bay Drinking Water Quality 2018 Annual Report

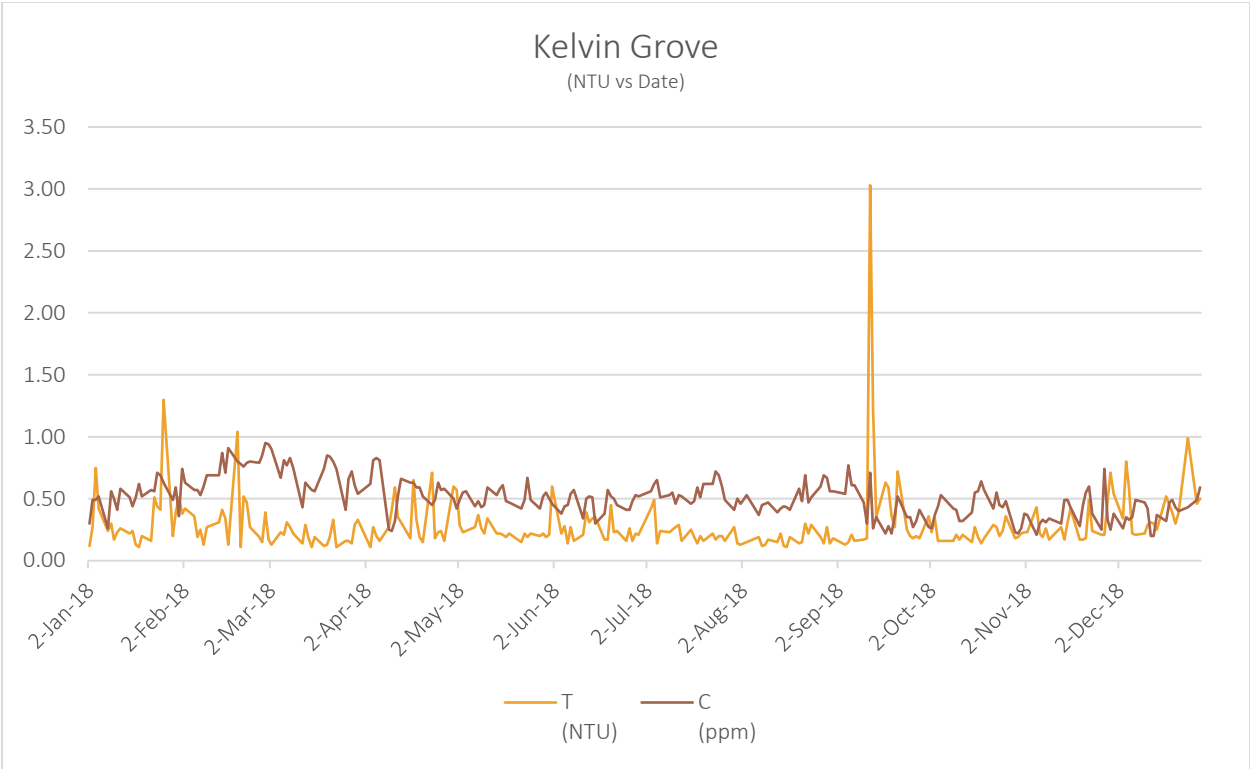
HARVEY CREEK WATER SUPPLY



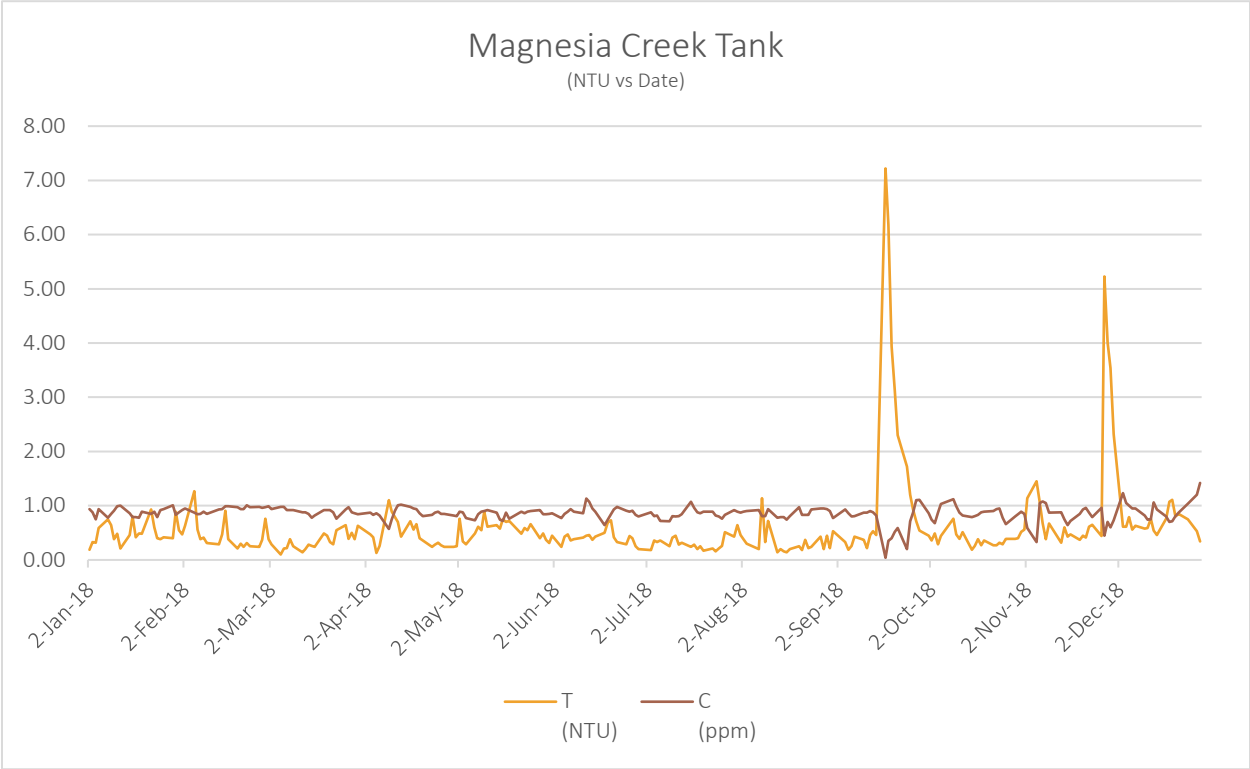
Lions Bay Drinking Water Quality 2018 Annual Report



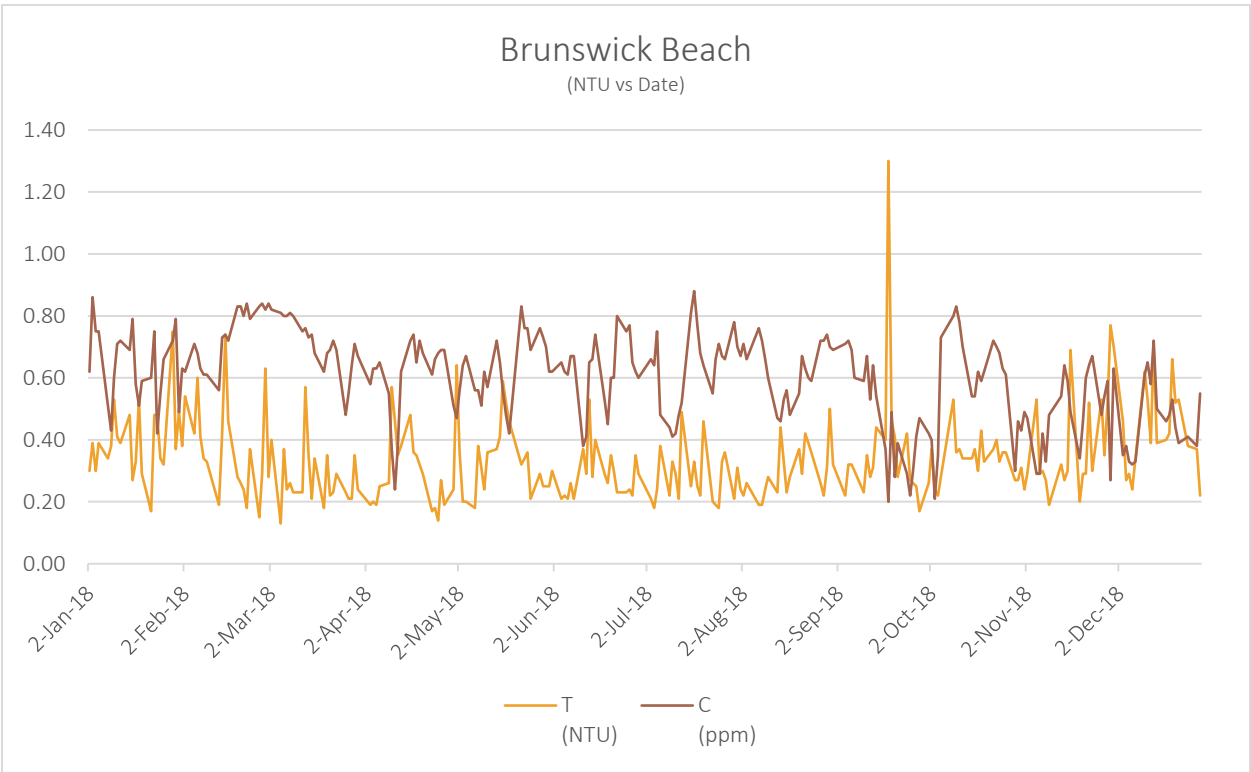
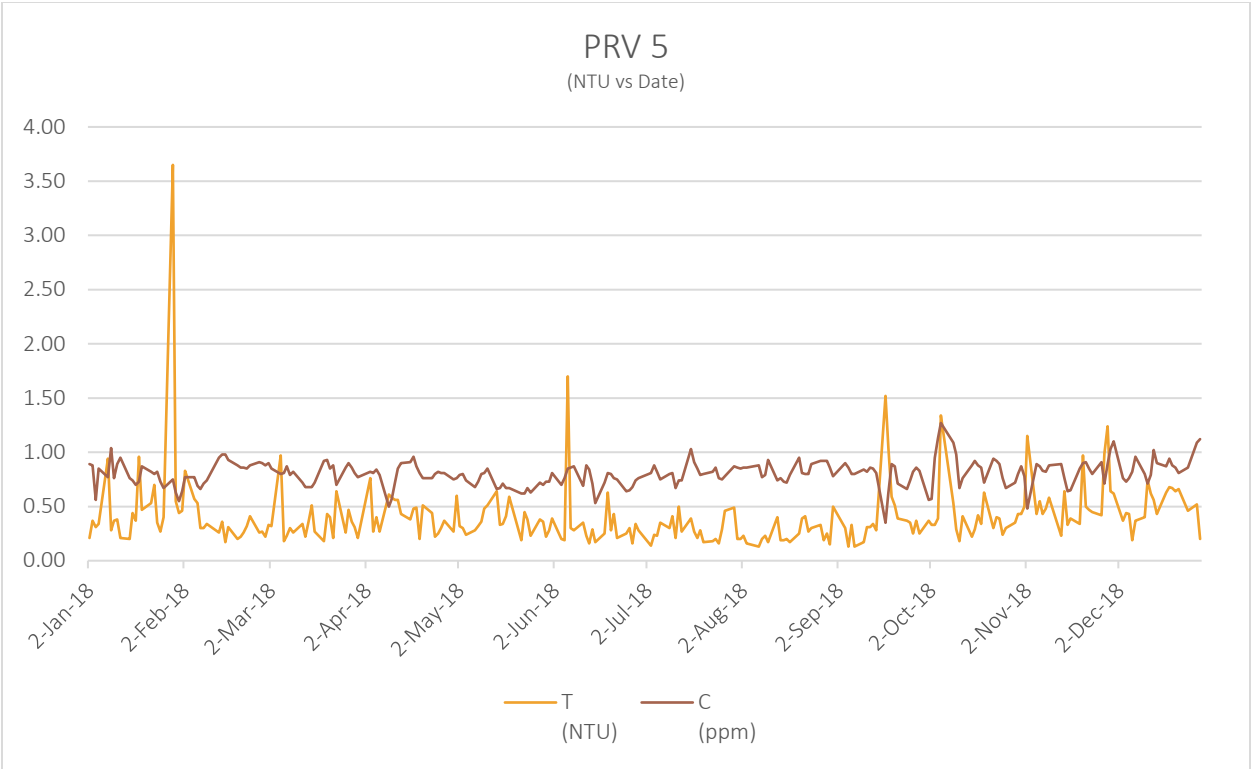
Lions Bay Drinking Water Quality 2018 Annual Report



MAGNESIA CREEK WATER SUPPLY



Lions Bay Drinking Water Quality 2018 Annual Report



APPENDIX F – RAW WATER TURBIDITY READINGS

Lions Bay Drinking Water Quality 2018 Annual Report

	Harvey	Magnesia		Harvey	Magnesia		Harvey	Magnesia
DATE	NTU	NTU	DATE	NTU	NTU	DATE	NTU	NTU
2-Jan-18	0.26	0.23	1-Mar-18	0.34	0.58	1-May-18	0.61	0.49
3-Jan-18	0.34	0.16	2-Mar-18	0.30	0.21	2-May-18	0.52	0.16
4-Jan-18	0.49	0.29	5-Mar-18	0.29	0.82	3-May-18	0.30	0.21
5-Jan-18	0.54	0.26	6-Mar-18	0.44	0.12	4-May-18	0.46	0.24
8-Jan-18	0.78	0.45	7-Mar-18	0.41	0.11	7-May-18	0.80	0.40
9-Jan-18	0.44	0.23	8-Mar-18	0.32	0.18	8-May-18	0.44	0.39
10-Jan-18	0.62	0.22	9-Mar-18	0.37	0.14	9-May-18	0.79	1.14
11-Jan-18	0.31	0.33	12-Mar-18	0.63	0.16	10-May-18	0.56	0.87
12-Jan-18	0.46	0.24	13-Mar-18	0.18	0.23	11-May-18	0.41	0.63
15-Jan-18	0.98	0.28	14-Mar-18	0.38	0.55	14-May-18	0.72	0.59
16-Jan-18	0.55	0.65	15-Mar-18	0.65	0.15	15-May-18	0.53	0.58
17-Jan-18	0.47	0.26	16-Mar-18	0.74	0.11	16-May-18	0.60	0.61
18-Jan-18	0.55	0.44	19-Mar-18	0.85	0.28	17-May-18	0.73	0.61
19-Jan-18	0.47	0.25	20-Mar-18	0.56	0.16	18-May-18	0.36	0.41
22-Jan-18	0.93	0.56	21-Mar-18	0.22	0.29	22-May-18	0.65	0.23
23-Jan-18	0.73	0.35	22-Mar-18	1.42	1.15	23-May-18	0.62	0.76
24-Jan-18	0.51	0.24	23-Mar-18	0.46	0.27	24-May-18	0.27	0.37
25-Jan-18	0.38	0.33	26-Mar-18	0.60	0.25	25-May-18	0.34	0.51
26-Jan-18	0.41	0.21	27-Mar-18	0.62	0.35	28-May-18	0.49	0.19
29-Jan-18	3.65	0.75	28-Mar-18	0.26	0.14	29-May-18	0.37	0.22
30-Jan-18	1.28	0.72	29-Mar-18	0.40	0.29	30-May-18	0.41	0.38
31-Jan-18	0.76	0.60	30-Mar-18	0.44	0.20	31-May-18	0.27	0.18
1-Feb-18	0.34	0.34	3-Apr-18	0.88	0.45	1-Jun-18	0.45	0.22
2-Feb-18	0.31	0.34	4-Apr-18	0.47	0.14	4-Jun-18	0.32	0.18
5-Feb-18	0.40	0.55	5-Apr-18	0.78	0.33	5-Jun-18	0.28	0.19
6-Feb-18	0.24	0.32	6-Apr-18	0.48	0.37	6-Jun-18	0.28	0.23
7-Feb-18	0.45	0.40	9-Apr-18	0.73	0.38	7-Jun-18	0.38	0.35
8-Feb-18	0.40	0.34	10-Apr-18	0.38	0.31	8-Jun-18	0.28	0.19
9-Feb-18	0.40	0.24	11-Apr-18	0.47	0.43	11-Jun-18	0.42	0.24
13-Feb-18	0.93	0.28	12-Apr-18	0.42	0.46	12-Jun-18	0.29	0.34
14-Feb-18	0.44	0.15	13-Apr-18	0.48	0.25	13-Jun-18	0.45	0.26
15-Feb-18	0.32	0.21	16-Apr-18	0.53	0.36	14-Jun-18	0.33	0.36
16-Feb-18	0.47	0.38	17-Apr-18	0.45	0.27	15-Jun-18	0.48	0.42
19-Feb-18	0.54	0.25	18-Apr-18	0.31	0.43	18-Jun-18	0.25	0.44
20-Feb-18	0.35	0.15	19-Apr-18	0.42	0.26	19-Jun-18	0.41	0.43
21-Feb-18	0.43	0.13	20-Apr-18	0.96	0.29	20-Jun-18	0.39	0.48
22-Feb-18	0.48	0.17	23-Apr-18	1.23	0.14	21-Jun-18	0.38	0.45
23-Feb-18	0.22	0.12	24-Apr-18	0.46	0.29	22-Jun-18	0.61	0.46
26-Feb-18	0.59	0.30	25-Apr-18	0.35	0.22	25-Jun-18	0.25	0.24
27-Feb-18	0.29	0.34	26-Apr-18	0.55	0.19	26-Jun-18	0.23	0.31
28-Feb-18	0.41	0.13	27-Apr-18	0.35	0.46	27-Jun-18	0.34	0.46
			30-Apr-18	0.58	0.52	28-Jun-18	0.39	0.36
						29-Jun-18	0.40	0.38

Lions Bay Drinking Water Quality 2018 Annual Report

	Harvey	Magnesia		Harvey	Magnesia		Harvey	Magnesia
DATE	NTU	NTU	DATE	NTU	NTU	DATE	NTU	NTU
3-Jul-18	0.48	0.30	4-Sep-18	0.68	0.24	1-Nov-18	0.41	0.46
4-Jul-18	0.34	0.30	5-Sep-18	0.22	0.12	2-Nov-18	0.56	4.86
5-Jul-18	0.47	0.39	6-Sep-18	0.25	0.23	5-Nov-18	0.32	0.40
6-Jul-18	0.38	0.22	7-Sep-18	0.82	0.36	6-Nov-18	0.29	0.36
9-Jul-18	0.34	0.27	10-Sep-18	0.73	0.19	7-Nov-18	0.35	0.32
10-Jul-18	0.30	0.26	11-Sep-18	0.33	0.21	8-Nov-18	0.41	2.16
11-Jul-18	0.34	0.27	12-Sep-18	0.32	0.45	9-Nov-18	0.69	0.49
12-Jul-18	0.17	0.24	13-Sep-18	0.31	0.44	13-Nov-18	0.46	0.18
13-Jul-18	0.27	0.25	14-Sep-18	0.41	0.27	14-Nov-18	0.46	0.51
16-Jul-18	0.35	0.15	17-Sep-18	0.63	2.66	15-Nov-18	0.72	0.49
17-Jul-18	0.26	0.30	18-Sep-18	0.66	0.92	16-Nov-18	0.29	0.98
18-Jul-18	0.50	0.25	19-Sep-18	0.49	0.68	19-Nov-18	0.33	0.31
19-Jul-18	0.34	0.30	20-Sep-18	0.44	0.33	20-Nov-18	0.46	0.31
20-Jul-18	0.15	0.20	21-Sep-18	0.65	0.95	21-Nov-18	0.46	0.33
23-Jul-18	0.35	0.17	24-Sep-18	0.44	0.28	22-Nov-18	0.57	0.47
24-Jul-18	0.16	0.14	25-Sep-18	0.20	0.27	23-Nov-18	0.29	0.43
25-Jul-18	0.19	0.24	26-Sep-18	0.36	0.38	26-Nov-18	0.68	0.46
26-Jul-18	0.47	0.23	27-Sep-18	0.49	0.43	27-Nov-18	1.13	13.20
27-Jul-18	0.25	0.31	28-Sep-18	0.25	0.35	28-Nov-18	0.58	0.96
30-Jul-18	0.33	0.17	1-Oct-18	0.60	0.36	29-Nov-18	0.40	0.51
31-Jul-18	0.62	0.30	2-Oct-18	0.25	0.35	30-Nov-18	0.33	0.40
1-Aug-18	0.25	0.98	3-Oct-18	0.56	0.36	3-Dec-18	0.54	0.33
2-Aug-18	0.23	0.20	4-Oct-18	0.35	0.33	4-Dec-18	0.39	0.30
3-Aug-18	0.17	0.15	5-Oct-18	0.38	1.91	5-Dec-18	0.41	0.61
7-Aug-18	0.92	0.21	9-Oct-18	0.73	0.30	6-Dec-18	0.27	0.41
8-Aug-18	0.33	0.19	10-Oct-18	0.26	0.38	7-Dec-18	0.36	0.32
9-Aug-18	0.20	0.22	11-Oct-18	0.46	0.33	10-Dec-18	0.41	0.29
10-Aug-18	0.23	0.45	12-Oct-18	0.33	0.22	11-Dec-18	0.86	0.62
13-Aug-18	0.48	0.24	15-Oct-18	0.36	0.24	12-Dec-18	0.54	0.68
14-Aug-18	0.22	0.17	16-Oct-18	0.57	0.23	13-Dec-18	0.63	0.55
15-Aug-18	0.21	0.13	17-Oct-18	0.24	0.22	14-Dec-18	0.27	0.39
16-Aug-18	0.20	0.20	18-Oct-18	0.44	0.41	17-Dec-18	0.82	2.45
17-Aug-18	0.35	0.26	19-Oct-18	0.24	0.27	18-Dec-18	0.43	0.73
20-Aug-18	0.44	0.45	22-Oct-18	0.63	0.27	19-Dec-18	0.26	0.49
21-Aug-18	0.41	0.24	23-Oct-18	0.40	0.24	20-Dec-18	0.37	0.56
22-Aug-18	0.36	0.27	24-Oct-18	0.36	0.32	21-Dec-18	0.39	0.61
23-Aug-18	0.33	0.24	25-Oct-18	0.47	0.27	24-Dec-18	0.40	0.41
24-Aug-18	0.39	0.36	26-Oct-18	0.55	0.55	27-Dec-18	0.52	0.43
27-Aug-18	0.58	0.19	29-Oct-18	0.32	0.29	28-Dec-18	0.59	0.43
28-Aug-18	0.37	0.23	30-Oct-18	0.49	0.30			
29-Aug-18	0.34	0.28	31-Oct-18	0.46	0.53			
30-Aug-18	0.27	0.21						
31-Aug-18	0.38	0.29						

APPENDIX G – BIENNIAL METALS AND CHEMISTRY RESULTS

Lions Bay Drinking Water Quality 2018 Annual Report

MARCH 13, 2018 RESULTS

L2067020 CONTD....

PAGE 2 of 7

23-MAR-18 12:59 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2067020-1 WATER 13-MAR-18 09:50 HARVEY TANK (FIRST DRAW)	L2067020-2 WATER 13-MAR-18 09:50 HARVEY TANK (AFTER FLUSH)	L2067020-3 WATER 13-MAR-18 07:00 STORE/CAFE (FIRST DRAW)	L2067020-4 WATER 13-MAR-18 07:00 STORE/CAFE (AFTER FLUSH)	L2067020-5 WATER 13-MAR-18 11:30 LIONS BAY AVE. (FIRST DRAW)
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	18.5 ^{HTC}	14.6 ^{HTC}	6.65 ^{HTC}	6.37 ^{HTC}	7.01 ^{HTC}
	pH (pH)	9.49		7.01		7.01
	Total Suspended Solids (mg/L)	<3.0		<3.0		<3.0
	Turbidity (NTU)	0.26		0.23		0.13
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	15.3		5.9		6.0
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	0.97		1.29		1.25
Total Metals	Aluminum (Al)-Total (mg/L)	0.110	0.096	0.029	0.041	0.017
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)	0.00019	<0.00010	<0.00010	0.00010	<0.00010
	Barium (Ba)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)	7.10	5.47	2.18	2.11	2.33
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)	0.0043	<0.0010	0.154	0.0151	0.548
	Iron (Fe)-Total (mg/L)	0.100	0.096	0.052	0.104	<0.030
	Lead (Pb)-Total (mg/L)	<0.00050	<0.00050	0.00219	<0.00050	0.00339
	Magnesium (Mg)-Total (mg/L)	0.19	0.23	0.29	0.27	0.29
	Manganese (Mn)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Mercury (Hg)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)	0.10	<0.10	0.10	<0.10	0.11
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)	2.2	2.1	2.2	2.2	2.2
	Uranium (U)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)	<0.050	<0.050	0.382	<0.050	0.144
Aggregate Organics	BOD (mg/L)	<2.0		<2.0		<2.0
Trihalomethanes	Bromodichloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Bromoform (mg/L)	<0.0010		<0.0010		<0.0010
	Dibromochloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Chloroform (mg/L)	0.0535		0.0371		0.0351
	Total THMs (mg/L)	0.0535		0.0371		0.0351

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2067020 CONTD....

PAGE 3 of 7

23-MAR-18 12:59 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2067020-6 WATER 13-MAR-18 11:30 LIONS BAY AVE (AFTER FLUSH)	L2067020-7 WATER 13-MAR-18 05:50 KELVIN GROVE (FIRST DRAW)	L2067020-8 WATER 13-MAR-18 05:50 KELVIN GROVE (AFTER FLUSH)	L2067020-9 WATER 13-MAR-18 06:30 COMMUNITY CENTRE (FIRST DRAW)	L2067020-10 WATER 13-MAR-18 06:30 COMMUNITY CENTRE (AFTER FLUSH)
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	6.64 ^{HTC}	8.83 ^{HTC}	7.30 ^{HTC}	11.6 ^{HTC}	6.32 ^{HTC}
	pH (pH)		7.16		6.94	
	Total Suspended Solids (mg/L)		<3.0		<3.0	
	Turbidity (NTU)		0.12		0.16	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		6.6		6.4	
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)		1.19		1.27	
Total Metals	Aluminum (Al)-Total (mg/L)	0.041	0.029	0.041	0.047	0.043
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)	0.00010	<0.00010	<0.00010	0.00011	0.00011
	Barium (Ba)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)	2.21	2.67	2.49	1.86	2.08
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)	0.0018	0.0460	0.0043	0.110	0.0268
	Iron (Fe)-Total (mg/L)	<0.030	0.055	0.063	0.046	0.096
	Lead (Pb)-Total (mg/L)	<0.00050	0.00437	0.00059	0.00239	<0.00050
	Magnesium (Mg)-Total (mg/L)	0.27	0.53	0.26	1.68	0.27
	Manganese (Mn)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Mercury (Hg)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)	0.10	<0.10	<0.10	<0.10	<0.10
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)	2.2	2.3	2.3	2.4	2.3
	Uranium (U)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)	<0.050	0.050	<0.050	0.138	<0.050
Aggregate Organics	BOD (mg/L)		<2.0		<2.0	
Trihalomethanes	Bromodichloromethane (mg/L)		<0.0010		<0.0010	
	Bromoform (mg/L)		<0.0010		<0.0010	
	Dibromochloromethane (mg/L)		<0.0010		<0.0010	
	Chloroform (mg/L)		0.0425		0.0369	
	Total THMs (mg/L)		0.0425		0.0369	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2067020 CONTD....

PAGE 4 of 7

23-MAR-18 12:59 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2067020-11 WATER 13-MAR-18 08:45 MAGNESIA TANK (FIRST DRAW)	L2067020-12 WATER 13-MAR-18 08:45 MAGNESIA TANK (AFTER FLUSH)	L2067020-13 WATER 13-MAR-18 10:50 BRUNSWICK BEACH (FIRST DRAW)	L2067020-14 WATER 13-MAR-18 10:50 BRUNSWICK BEACH (AFTER FLUSH)	L2067020-15 WATER 13-MAR-18 07:25 LIONS BAY BEACH PARK (FIRST DRAW)
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	15.1 ^{HTC}	14.3 ^{HTC}	15.1 ^{HTC}	15.1 ^{HTC}	6.34 ^{HTC}
	pH (pH)	6.99		7.08		6.99
	Total Suspended Solids (mg/L)	<3.0		<3.0		<3.0
	Turbidity (NTU)	0.13		0.23		0.21
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	5.6		6.3		6.3
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	0.66		0.74		1.26
Total Metals	Aluminum (Al)-Total (mg/L)	<0.010	0.021	0.014	0.018	0.027
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)	<0.00010	0.00010	<0.00010	0.00011	<0.00010
	Barium (Ba)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)	5.03	4.72	5.06	5.03	2.10
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)	0.724	0.0089	0.355	0.0036	0.296
	Iron (Fe)-Total (mg/L)	<0.030	<0.030	0.034	0.041	0.032
	Lead (Pb)-Total (mg/L)	0.00220	<0.00050	<0.00050	<0.00050	0.00338
	Magnesium (Mg)-Total (mg/L)	0.63	0.62	0.60	0.62	0.27
	Manganese (Mn)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Mercury (Hg)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)	3.0	3.0	3.0	3.0	2.2
	Uranium (U)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)	0.329	<0.050	<0.050	<0.050	0.158
Aggregate Organics	BOD (mg/L)	<2.0		<2.0		<2.0
Trihalomethanes	Bromodichloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Bromoform (mg/L)	<0.0010		<0.0010		<0.0010
	Dibromochloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Chloroform (mg/L)	0.0149		0.0178		0.0390
	Total THMs (mg/L)	0.0149		0.0178		0.0390

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2067020 CONTD....

PAGE 5 of 7

23-MAR-18 12:59 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L2067020-16	L2067020-17	L2067020-18		
		Description	WATER	SURFACE WATE	SURFACE WATE		
		Sampled Date	13-MAR-18	13-MAR-18	13-MAR-18		
		Sampled Time	07:25	09:55	08:50		
		Client ID	LIONS BAY BEACH PARK (AFTER FLUSH)	HARVEY RAW WATER (AFTER FLUSH)	MAGNESIA RAW WATER (AFTER FLUSH)		
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		6.47 ^{HTC}	5.15 ^{HTC}	12.6 ^{HTC}		
	pH (pH)			6.89	6.88		
	Total Suspended Solids (mg/L)			<3.0	<3.0		
	Turbidity (NTU)			0.33	0.15		
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)			5.2	5.4		
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)			1.65	0.74		
Total Metals	Aluminum (Al)-Total (mg/L)		0.042	0.062	0.030		
	Antimony (Sb)-Total (mg/L)		<0.00050	<0.00050	<0.00050		
	Arsenic (As)-Total (mg/L)		0.00011	<0.00010	0.00011		
	Barium (Ba)-Total (mg/L)		<0.020	<0.020	<0.020		
	Boron (B)-Total (mg/L)		<0.10	<0.10	<0.10		
	Cadmium (Cd)-Total (mg/L)		<0.00020	<0.00020	<0.00020		
	Calcium (Ca)-Total (mg/L)		2.14	1.67	4.13		
	Chromium (Cr)-Total (mg/L)		<0.0020	<0.0020	<0.0020		
	Copper (Cu)-Total (mg/L)		0.0244	0.0114	0.0154		
	Iron (Fe)-Total (mg/L)		0.056	<0.030	0.039		
	Lead (Pb)-Total (mg/L)		0.00082	<0.00050	0.00135		
	Magnesium (Mg)-Total (mg/L)		0.27	0.24	0.56		
	Manganese (Mn)-Total (mg/L)		<0.0020	<0.0020	<0.0020		
	Mercury (Hg)-Total (mg/L)		<0.00020	<0.00020	<0.00020		
	Potassium (K)-Total (mg/L)		<0.10	<0.10	<0.10		
	Selenium (Se)-Total (mg/L)		<0.0010	<0.0010	<0.0010		
	Sodium (Na)-Total (mg/L)		2.2	<2.0	<2.0		
	Uranium (U)-Total (mg/L)		<0.00010	<0.00010	<0.00010		
	Zinc (Zn)-Total (mg/L)		<0.050	<0.050	<0.050		
Aggregate Organics	BOD (mg/L)			<2.0	<2.0		
Trihalomethanes	Bromodichloromethane (mg/L)						
	Bromoform (mg/L)						
	Dibromochloromethane (mg/L)						
	Chloroform (mg/L)						
	Total THMs (mg/L)						

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

SEPTEMBER 18, 2018 RESULTS

L2166262 CONTD....

PAGE 2 of 7

26-SEP-18 12:33 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2166262-1 Water 18-SEP-18 10:00 HARVEY TANK (FIRST DRAW)	L2166262-2 Water 18-SEP-18 10:00 HARVEY TANK (AFTER FLUSH)	L2166262-3 Water 18-SEP-18 06:50 STORE / CAFE (FIRST DRAW)	L2166262-4 Water 18-SEP-18 06:50 STORE / CAFE (AFTER FLUSH)	L2166262-5 Water 18-SEP-18 10:50 LIONS BAY AVE. (FIRST DRAW)
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	4.95 ^{HTC}	4.40 ^{HTC}	5.35 ^{HTC}	4.70 ^{HTC}	5.32 ^{HTC}
	pH (pH)	6.78		6.80		6.80
	Total Suspended Solids (mg/L)	<3.0		<3.0		<3.0
	Turbidity (NTU)	0.41		0.45		0.43
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)	4.2		4.4		4.4
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)	1.51		1.57		1.63
Total Metals	Aluminum (Al)-Total (mg/L)	0.455	0.075	0.040	0.064	0.029
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)	0.00024	0.00011	0.00012	0.00012	<0.00010
	Barium (Ba)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)	1.60	1.47	1.74	1.61	1.81
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)	0.0727	0.0055	0.142	0.0162	0.440
	Iron (Fe)-Total (mg/L)	0.236	<0.030	0.050	0.103	<0.030
	Lead (Pb)-Total (mg/L)	0.00255	<0.00050	0.00220	0.00051	0.00861
	Magnesium (Mg)-Total (mg/L)	0.23	0.18	0.24	0.16	0.19
	Manganese (Mn)-Total (mg/L)	0.0144	<0.0020	0.0020	<0.0020	0.0022
	Mercury (Hg)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)	0.13	0.11	0.12	0.11	0.13
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)	2.6	2.5	2.4	2.4	2.4
	Uranium (U)-Total (mg/L)	0.00012	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)	<0.050	<0.050	0.283	<0.050	0.275
Aggregate Organics	BOD (mg/L)	<2.0		<2.0		<2.0
Trihalomethanes	Bromodichloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Bromoform (mg/L)	<0.0010		<0.0010		<0.0010
	Dibromochloromethane (mg/L)	<0.0010		<0.0010		<0.0010
	Chloroform (mg/L)	0.0520		0.0672		0.0635
	Total THMs (mg/L)	0.0520		0.0672		0.0635

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2166262 CONTD....

PAGE 3 of 7

26-SEP-18 12:33 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

Sample ID Description Sampled Date Sampled Time Client ID		L2166262-6 Water 18-SEP-18 10:50 LIONS BAY AVE. (AFTER FLUSH)	L2166262-7 Water 18-SEP-18 06:05 KELVIN GROVE (FIRST DRAW)	L2166262-8 Water 18-SEP-18 06:05 KELVIN GROVE (AFTER FLUSH)	L2166262-9 Water 18-SEP-18 07:10 COMMUNITY CENTRE (FIRST DRAW)	L2166262-10 Water 18-SEP-18 07:10 COMMUNITY CENTRE (AFTER FLUSH)
Grouping	Analyte					
WATER						
Physical Tests	Hardness (as CaCO ₃) (mg/L)	4.64 ^{HTC}	7.29 ^{HTC}	5.45 ^{HTC}	14.1 ^{HTC}	5.19 ^{HTC}
	pH (pH)		6.89		6.86	
	Total Suspended Solids (mg/L)		<3.0		<3.0	
	Turbidity (NTU)		0.43		0.35	
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		4.9		5.1	
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)		1.86		1.47	
Total Metals	Aluminum (Al)-Total (mg/L)	0.079	0.050	0.070	0.033	0.067
	Antimony (Sb)-Total (mg/L)	<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)	0.00012	0.00012	0.00012	0.00010	0.00013
	Barium (Ba)-Total (mg/L)	<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)	<0.10	<0.10	<0.10	0.11	<0.10
	Cadmium (Cd)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)	1.56	2.09	1.90	2.20	1.81
	Chromium (Cr)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)	0.0025	0.0555	0.0049	0.0543	0.0320
	Iron (Fe)-Total (mg/L)	<0.030	0.035	0.069	<0.030	0.074
	Lead (Pb)-Total (mg/L)	<0.00050	0.00386	0.00076	0.00116	<0.00050
	Magnesium (Mg)-Total (mg/L)	0.18	0.50	0.17	2.09	0.16
	Manganese (Mn)-Total (mg/L)	<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Mercury (Hg)-Total (mg/L)	<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)	0.12	0.13	0.12	0.16	0.12
	Selenium (Se)-Total (mg/L)	<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)	2.4	2.4	2.4	2.9	2.4
	Uranium (U)-Total (mg/L)	<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)	<0.050	<0.050	<0.050	0.052	<0.050
Aggregate Organics	BOD (mg/L)		<2.0		<2.0	
Trihalomethanes	Bromodichloromethane (mg/L)		<0.0010		<0.0010	
	Bromoform (mg/L)		<0.0010		<0.0010	
	Dibromochloromethane (mg/L)		<0.0010		<0.0010	
	Chloroform (mg/L)		0.0791		0.0692	
	Total THMs (mg/L)		0.0791		0.0692	

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2166262 CONTD....

PAGE 4 of 7

26-SEP-18 12:33 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID Description Sampled Date Sampled Time Client ID	L2166262-11 Water 18-SEP-18 09:10 MAGNESIA TANK (FIRST DRAW)	L2166262-12 Water 18-SEP-18 09:10 MAGNESIA TANK (AFTER FLUSH)	L2166262-13 Water 18-SEP-18 11:30 BRUNSWICK BEACH (FIRST DRAW)	L2166262-14 Water 18-SEP-18 11:30 BRUNSWICK BEACH (AFTER FLUSH)	L2166262-15 Water 18-SEP-18 07:30 LIONS BAY BEACH PARK (FIRST DRAW)
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		9.82 ^{HTC}	9.32 ^{HTC}	14.8 ^{HTC}	6.87 ^{HTC}	4.69 ^{HTC}
	pH (pH)		6.74		6.94		6.80
	Total Suspended Solids (mg/L)		9.1		<3.0		<3.0
	Turbidity (NTU)		4.53		0.38		0.47
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)		3.9		5.6		4.4
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)		1.87		1.63		1.79
Total Metals	Aluminum (Al)-Total (mg/L)		0.075	0.383	0.014	0.064	0.060
	Antimony (Sb)-Total (mg/L)		<0.00050	<0.00050	<0.00050	<0.00050	<0.00050
	Arsenic (As)-Total (mg/L)		<0.00010	0.00026	<0.00010	0.00011	<0.00010
	Barium (Ba)-Total (mg/L)		<0.020	<0.020	<0.020	<0.020	<0.020
	Boron (B)-Total (mg/L)		<0.10	<0.10	<0.10	<0.10	<0.10
	Cadmium (Cd)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Calcium (Ca)-Total (mg/L)		3.32	3.11	5.14	2.38	1.59
	Chromium (Cr)-Total (mg/L)		<0.0020	<0.0020	<0.0020	<0.0020	<0.0020
	Copper (Cu)-Total (mg/L)		0.708	0.0149	0.265	0.0066	0.170
	Iron (Fe)-Total (mg/L)		0.047	0.242	0.036	0.037	<0.030
	Lead (Pb)-Total (mg/L)		0.00328	<0.00050	0.00384	<0.00050	0.00219
	Magnesium (Mg)-Total (mg/L)		0.37	0.38	0.48	0.22	0.18
	Manganese (Mn)-Total (mg/L)		0.0024	0.0084	<0.0020	<0.0020	<0.0020
	Mercury (Hg)-Total (mg/L)		<0.00020	<0.00020	<0.00020	<0.00020	<0.00020
	Potassium (K)-Total (mg/L)		0.11	0.12	0.11	0.13	0.12
	Selenium (Se)-Total (mg/L)		<0.0010	<0.0010	<0.0010	<0.0010	<0.0010
	Sodium (Na)-Total (mg/L)		2.8	3.2	3.0	2.4	2.3
	Uranium (U)-Total (mg/L)		<0.00010	<0.00010	<0.00010	<0.00010	<0.00010
	Zinc (Zn)-Total (mg/L)		0.259	<0.050	0.055	<0.050	<0.050
Aggregate Organics	BOD (mg/L)		<2.0		<2.0		<2.0
Trihalomethanes	Bromodichloromethane (mg/L)		<0.0010		<0.0010		<0.0010
	Bromoform (mg/L)		<0.0010		<0.0010		<0.0010
	Dibromochloromethane (mg/L)		<0.0010		<0.0010		<0.0010
	Chloroform (mg/L)		0.0675		0.0678		0.0648
	Total THMs (mg/L)		0.0675		0.0678		0.0648

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Lions Bay Drinking Water Quality 2018 Annual Report

L2166262 CONTD....

PAGE 5 of 7

26-SEP-18 12:33 (MT)

Version: FINAL

ALS ENVIRONMENTAL ANALYTICAL REPORT

		Sample ID	L2166262-16	L2166262-17	L2166262-18		
		Description	Water	Surface Water	Surface Water		
		Sampled Date	18-SEP-18	18-SEP-18	18-SEP-18		
		Sampled Time	07:30	10:10	09:20		
		Client ID	LIONS BAY BEACH PARK (AFTER FLUSH)	HARVEY RAW WATER (AFTER FLUSH)	MAGNESIA RAW WATER (AFTER FLUSH)		
Grouping	Analyte						
WATER							
Physical Tests	Hardness (as CaCO ₃) (mg/L)		4.58 ^{HTC}	4.48 ^{HTC}	8.04 ^{HTC}		
	pH (pH)			6.83	6.80		
	Total Suspended Solids (mg/L)			<3.0	<3.0		
	Turbidity (NTU)			0.19	0.43		
Anions and Nutrients	Alkalinity, Total (as CaCO ₃) (mg/L)			4.5	4.2		
Organic / Inorganic Carbon	Total Organic Carbon (mg/L)			0.97	1.77		
Total Metals	Aluminum (Al)-Total (mg/L)		0.073	0.045	0.048		
	Antimony (Sb)-Total (mg/L)		<0.00050	<0.00050	<0.00050		
	Arsenic (As)-Total (mg/L)		0.00013	<0.00010	0.00012		
	Barium (Ba)-Total (mg/L)		<0.020	<0.020	<0.020		
	Boron (B)-Total (mg/L)		<0.10	<0.10	<0.10		
	Cadmium (Cd)-Total (mg/L)		<0.00020	<0.00020	<0.00020		
	Calcium (Ca)-Total (mg/L)		1.55	1.49	2.72		
	Chromium (Cr)-Total (mg/L)		<0.0020	<0.0020	<0.0020		
	Copper (Cu)-Total (mg/L)		0.0210	0.152	0.0070		
	Iron (Fe)-Total (mg/L)		0.068	0.040	<0.030		
	Lead (Pb)-Total (mg/L)		0.00070	0.00308	<0.00050		
	Magnesium (Mg)-Total (mg/L)		0.17	0.19	0.31		
	Manganese (Mn)-Total (mg/L)		<0.0020	0.0020	<0.0020		
	Mercury (Hg)-Total (mg/L)		<0.00020	<0.00020	<0.00020		
	Potassium (K)-Total (mg/L)		0.12	0.11	<0.10		
	Selenium (Se)-Total (mg/L)		<0.0010	<0.0010	<0.0010		
	Sodium (Na)-Total (mg/L)		2.4	<2.0	<2.0		
	Uranium (U)-Total (mg/L)		<0.00010	<0.00010	<0.00010		
	Zinc (Zn)-Total (mg/L)		<0.050	<0.050	<0.050		
Aggregate Organics	BOD (mg/L)			<2.0	<2.0		
Trihalomethanes	Bromodichloromethane (mg/L)						
	Bromoform (mg/L)						
	Dibromochloromethane (mg/L)						
	Chloroform (mg/L)						
	Total THMs (mg/L)						

* Please refer to the Reference Information section for an explanation of any qualifiers detected.

Intentionally Blank



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Information Report		
Title	Insurance Coverage for Community Facility User Groups		
Author	Hayley Cook	Reviewed By:	Peter DeJong
Date	June 13, 2019	Version	1
Issued for	June 18, 2019 Council Meeting		

Recommendation:

THAT the Information Report, “Insurance Coverage for Community Facility User Groups” be received.

Attachments:

None

Key Information:

In 2018, the Municipality of Lions Bay (the Municipality) changed the way that user groups of its facilities obtained insurance. Prior to this, the Municipality bought a blanket coverage for the community hall and listed under this coverage, all the groups that used the hall on a regular basis. Any user who was not listed, either had to provide their own insurance with the Village of Lions Bay listed as an additional insured, or apply to be added to this coverage for a specific event.

Changes were implemented after discussions with the Municipal Insurance Association of BC (MIABC), where it became apparent that there were potential risks that might have arisen out of the way that the Municipality was sourcing insurance for the user groups of its facilities. These risks were twofold.

Firstly, we were advised that by obtaining insurance on behalf of a user, the Village was effectively entering into a contract with the user, and if insufficient insurance was obtained and a loss were to occur, the user could seek to recover any losses against the Municipality. If this were to happen, the Municipality’s liability policy with the MIABC would likely not cover the claim as the policy expressly excludes coverage for failing to effect or maintaining



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

adequate insurance coverage. The user who books the premises on behalf of a group could also be at risk of potentially catastrophic lawsuits.

Secondly, we were advised by the MIABC that the practice of obtaining a blanket insurance policy from an insurance broker and collecting premiums from users, could violate the *Financial Institutions Act*.

The new Facility Users Portal, offered by the MIABC, is a cost-effective, easy to use option to meet the insurance needs of the users of the Municipality's facilities. Ensuring that our users have appropriate, adequate coverage in place helps protect the local government and most importantly, the residents and community groups of Lions Bay. For those who already have their own liability insurance policies, they need to add the Village of Lions Bay as an additional insured. This generally entails a simple request to the insurer, but if there are issues or delays in obtaining this, then the user may elect to purchase the MIABC insurance on the portal in a couple of minutes, generally for less than \$10.

Financial/ Legal Implications:

There are no financial or legal implications with our user group insurance as it is presently set up.

Follow Up Action: None

Communication Plan: Forms related to facilities rentals have been reorganized so that they are easier to navigate.

Type	Request for Decision		
Title	Evacuation Plan Select Committee		
Author	Fred Bain	Reviewed By:	Peter DeJong
Date	June 10, 2019	Version	
Issued for	June 18, 2019 Regular Council Meeting		

RECOMMENDATION

THAT Council approve the formation of a Select Committee to begin drafting an interim evacuation plan that will serve as the basis for future, more detailed evacuation plans;

OR

THAT Council approve the formation of a Select Committee to begin compiling information that will inform the creation of optional evacuation routes for each neighbourhood, to be added as appendices to the current Evacuation Plan.

AND

THAT Councillor Bain and CAO DeJong work on a Terms of Reference and put together a list of potential committee candidates for Council's consideration at the next Council meeting.

BACKGROUND

The Village of Lions Bay has a unique setting that, although it provides very appealing and liveable surroundings, makes for challenging evacuation situations. The author and others in the Village believe that local knowledge and wisdom based on a long tenure in the Village make for an insightful group of resident volunteers who are well versed and understanding of the local risks of our terrain.

The anticipated appointment of a Deputy Emergency Program Coordinator (DEPC) will go a long way in developing a Village-wide and neighbourhood-specific plan. The purpose of the suggested committee would be to do the research in advance of the appointment of the DEPC to speed up the process as the fire season has already begun, and to provide local knowledge and understanding that is unique to Lions Bay.

ADDITIONAL INFORMATION

A group of volunteer residents who have, in most cases, extensive experience in the various emergency services, could make up such a committee. The committee would work with the new DEPC once he/she has been appointed.

For Council's consideration.

Intentionally Blank

APPLICATION

Before submitting this application for registration of a leasehold interest, applicants should check and satisfy themselves as to the tax position, including taxes of the Crown, provincial, a municipality, and improvement, water and irrigation districts.

NATURE OF INTEREST: CHARGE
NATURE OF CHARGE: LEASE

TRUE VALUE:

Herewith Fees of \$ _____

Address of persons entitled to be registered as owner, if different than shown in instrument _____

Full name, address, telephone number of person presenting application _____

(Signature of applicant,
solicitor or authorized agent)



Province of
British Columbia

Ministry of
Crown Lands

LEASE

THIS LEASE executed in triplicate and dated for reference the 1 day of June, 1989 LEASE No. 234162
IN PURSUANCE OF THE LAND ACT (section 35) and the LAND TRANSFER FORM ACT. FILE No. 2404207

Between: HER MAJESTY THE QUEEN IN RIGHT OF THE PROVINCE OF BRITISH COLUMBIA, represented by the Minister Responsible for Crown Lands, Parliament Buildings, Victoria, British Columbia;

and BRUNSWICK BEACH IMPROVEMENT DISTRICT, (hereinafter called the "Lessor") OF THE FIRST PART

P.O. Box 87
Lions Bay, British Columbia
VON 2EO

(hereinafter called the "Lessee") OF THE SECOND PART

WITNESS THAT WHEREAS the Lessor has agreed to grant to the Lessee a lease over that parcel of land described in the schedule attached entitled Legal Description (hereinafter called the "Land");

HAVING AN ADDRESS OF DELIVERY AT:

NOW, THEREFORE, in consideration of the rental to be paid by, and the covenants of, the Lessee, the parties agree as follows:

Article I—Grant of Lease

- (1.01) The Lessor, on the terms set forth herein, hereby demises and leases to the Lessee the Land, save and except those portions of the Land that consist of trails, roads, highways, water courses, or that are covered by water at the date hereof, for the purpose described in the attached schedule (hereinafter called the "Special Proviso Schedule").

Article II—Term

- (2.01) TO HAVE AND TO HOLD the Land unto the Lessee for a term of thirty (30) years commencing on the eighth (8th) day of June, 1989 (hereinafter called the "Commencement Date").

Article III—Rent

- (3.01) YIELDING AND PAYING THEREFORE for the term the rent as prescribed in the Rental Schedule attached.

Article IV—Covenants of the Lessee

- (4.01) The Lessee covenants with the Lessor

- (a) to pay rent when due at the address of the Lessor first above written or at such other place as the Lessor may specify by notice in writing;
- (b) to pay and discharge when due all applicable taxes, levies, charges and assessments now or hereafter assessed, levied or charged which relate to the Land or any improvements thereon therein called "Realty Taxes";
- (c) to observe, abide by and comply with all applicable laws, bylaws, orders, directions, ordinances and regulations of any competent governmental authority in any way affecting the Land and improvements situate thereon, or their use and occupation;
- (d) to keep the Land in a safe, clean and sanitary condition satisfactory to the Lessor, and on written notice from the Lessor to make safe, clean and sanitary any portion of the Land or any improvements that, in the opinion of the Lessor, contravenes the provisions of this covenant;

- (e) not to commit or suffer any willful or voluntary waste, spoil or destruction on the Land or to do or suffer to be done thereon anything that may be or become a nuisance or annoyance to the owners or occupiers of adjoining land;
- (f) to use and occupy the Land in accordance with the provisions of this lease and the Special Proviso Schedule;
- (g) to effect keep in force during the term, insurance protecting the Lessor and Lessee (without any rights of cross-claim or subrogation against the Lessor) against claims for personal injury, death, property damage, third party or public liability claims arising from any accident or occurrence on the Land or improvements up to an amount not less than \$ 1,000,000. PROVIDED, however, that the Lessor may, in his sole discretion, waive the requirements of this subsection on the delivery to the Lessor of evidence that the Lessee is self insured.
- (h) to deliver to the Lessor from time to time, upon demand, proof of insurance required to be maintained by the Lessee, receipts or other evidence of payment of Realty Taxes, insurance premiums, leasehold mortgage installments or other monetary obligations of the Lessee required to be observed by the Lessee pursuant to this lease;
- (i) notwithstanding subsection (g) of section 4.01, the Lessor may from time to time notify the Lessee that the amount of insurance posted by the Lessee pursuant to that subsection be changed and the Lessee shall, within 60 days of receiving such notice, cause the amount of insurance posted pursuant to subsection (g) of section 4.01 to be changed to the amount specified in the notice and deliver to the Lessor written confirmation of the change;
- (j) to indemnify and save the Lessor harmless against all losses, damages, costs and liabilities, including fees of solicitors and other professional advisors arising out of
 - (i) any breach, violation or non-performance of any covenant, condition or agreement in this lease by the Lessee,
 - (ii) any personal injury, death or property damage occurring on the Land or happening by virtue of the Lessee's use or occupation of the Land,
 and the Lessor may add the amount of such losses, damages, costs and liabilities to the rent and the amount so added shall be payable to the Lessor immediately;
- (k) to pay all accounts and expenses for labour performed on, or material supplied to, the Land, in accordance with the Builders Lien Act and on behalf of the Lessor, to place written notices immediately after the commencement of any construction on the Land, on at least two conspicuous places, giving notice that the Lessor shall not be responsible for the cost of labour, services or materials performed on or supplied to the Land;
- (l) on the expiration or earlier cancellation of this lease
 - (i) to peaceably quit and deliver possession of the Land and any improvements thereon to the Lessor, in a safe and sanitary condition,
 - (ii) to restore the surface of the Land to the satisfaction of the Lessor, AND
 - (iii) notwithstanding section 4.01 (l) (i) to remove any improvements that the Lessor may, in writing, direct or permit to be removed.
 and all right, interest and estate of the Lessee shall cease and vest in the Lessor, and to the extent necessary this covenant shall survive the expiration or earlier cancellation of this lease;
- (m) to permit the Lessor, or his authorized representative, to enter upon the Land at anytime to inspect the Land and any improvements thereon.

Article V—Assignment

- (5.01) The Lessee shall not assign, mortgage, sublet or transfer this lease without the prior written consent of the Lessor.

Article VI—Covenants of the Lessor

- (6.01) The Lessor covenants with the Lessee for quiet enjoyment.

Article VII—Provisos

- (7.01) PROVIDED always and it is hereby agreed as follows:

- (a) if, after the termination by the passage of time of this lease or any extension thereof, the Lessor permits the Lessee to remain in possession of the Land and accepts rent in respect thereof, a tenancy from year to year shall not be created by implication of law and the Lessee shall be deemed to be a monthly tenant only subject to all of the terms and conditions of this lease, except as to duration in the absence of a written agreement to the contrary;
- (b) title to and ownership of all buildings, structures, and other improvements now or hereafter constructed on the Land shall be vested in the Lessor and the Lessee shall neither remove nor permit the removal of them from the Land except as expressly permitted or required by this lease;
- (c) the Lessor is under no obligation to provide access or services to the Land or to maintain or improve existing access roads;
- (d) The Lessor hereby reserves the right to grant other dispositions of the Land, or any part of it, with the prior consent of the Lessee, which consent shall not be unreasonably withheld, by way of easement, right of way or statutory right of way to a Crown corporation or agency, a municipality, or regional district, or a person or corporation and, upon such consent being given, the Lessee shall forthwith execute and deliver to the Lessor such instrument as may be necessary to subordinate the Lessee's right and interest in the Land under this lease;
- (e) for the purpose of subsection (d) of section 7.01, the Lessee shall be deemed to have withheld his consent reasonably if grant of rights under that subsection would materially affect the exercise of the Lessee's rights hereunder;

- (f) if a dispute shall arise as to whether or not the exercise of the Lessee's rights hereunder would, in fact, be materially affected by a grant of rights under subsection (d) of section 7.01, then, the dispute shall be referred to a sole arbitrator appointed pursuant to the Commercial Arbitration Act;

- (g) The Lessee hereby acknowledges and agrees that no claim for compensation shall be made, in any form, in respect of a grant of rights under subsection (d) of section 7.01, where such rights do not materially affect the exercise of the Lessee's rights hereunder;

- (h) this lease and the term herein granted is subject to:

- (i) all subsisting grants to or rights of any person made or acquired under the Coal Act, Forest Act, Mineral Act, Mining (Plan) Act, Petroleum and Natural Gas Act, Range Act, Wildlife Act, or Water Act, or any extension or renewal of the same, whether or not the Lessee has actual notice of them, AND

- (ii) the exceptions and reservations of rights, interests, privileges and titles referred to in section 47 of the Land Act;

- (i) the Lessee acknowledges and agrees with the Lessor that

- (i) any interference with the rights of the Lessee under this lease by virtue of the exercise or operation of the rights, privileges or interests described in subsections (d) and (h) of section 7.01 shall not constitute a breach of the Lessor's covenant of quiet enjoyment and the Lessee releases and discharges the Lessor from and against any claims for loss or damage arising directly or indirectly out of any such interference,

- (ii) all costs and expenses, direct or indirect, that arise out of any interference by the Lessee with the rights, privileges and interests described in subsections (d) and (h) of section 7.01 shall be borne solely by the Lessee,

- (iii) he shall not commence or maintain proceedings under section 60 of the Land Act in respect of any interference with his rights hereunder arising directly or indirectly out of the exercise or operation of the rights, privileges or interests described in subsections (d) and (h) of section 7.01, AND

- (iv) all schedules referred to in this lease form an integral part of this lease.

Article VIII—Events of Default

- (8.01) PROVIDED ALSO that this lease and the term and estate hereby granted are subject to the limitation that

- (a) if the Lessee shall default in the payment of any installment of rent, or the payment of any other sum payable hereunder, and such default shall continue for 60 days after the giving of written notice by the Lessor to the Lessee;
- (b) if the Lessee shall fail to perform or observe any of the covenants, agreements, conditions or provisos contained in this lease on the part of the Lessee to be performed or observed (other than the payment of rent or other sums of money) and such failure shall continue for, or shall not be remedied within, the period of 60 days next after the giving of written notice by the Lessor to the Lessee of the nature of such failure;
- (c) if the term hereby granted shall be taken in execution or attachment by any person or the Lessee commits an act of bankruptcy, becomes insolvent or is petitioned into bankruptcy or voluntarily enters into an arrangement with his creditors;
- (d) if the Lessor discovers that the Lessee either in his application for this lease or otherwise has, in the opinion of the Lessor, misrepresented or withheld any fact material to the application, OR
- (e) if, in the opinion of the Lessor, the Lessee fails to make reasonable and diligent use of the Land for the purposes permitted herein, and such failure shall continue for a period of 60 days next after the Lessor gives written notice of the failure to the Lessee,

it shall then be lawful for the Lessor to enter upon the Land or any part thereof in the name of the whole, and this lease shall at the option of the Lessor, and with or without entry, terminate, and all the rights of the Lessee with respect to the Land shall be absolutely forfeited and shall lapse. If the condition complained of (other than the payment of rent or other sums of money) reasonably requires more time to cure than 60 days, the Lessee shall be deemed to have complied with the remedying thereof if the Lessee shall have commenced remedying or curing the condition within the 60 day period and diligently thereafter completes the same.

Article IX—Security

- (9.01) The security in the sum of \$ 0.00 and all rights, privileges, benefits and interests accruing thereto delivered by the Lessee to the Lessor (herein called the "Security") to guarantee the performance of the Lessee's obligations under this lease shall be maintained in effect until such time as the Lessor certifies in writing that such obligations have been fully performed; PROVIDED, however, that the Lessor may, in his sole discretion, waive the requirements of this subsection.
- (9.02) In the event the Lessee should default in the performance of any of his obligations hereunder, it shall be lawful for the Lessor, in his sole discretion, to sell, call in and convert the Security, or any part of it, and such Security shall be deemed to have been absolutely forfeited to the Lessor.
- (9.03) The rights of the Lessor under this Article shall be deemed to continue in full force and effect notwithstanding the expiration or earlier cancellation of this lease.
- (9.04) Notwithstanding section 9.01, the Lessor may from time to time notify the Lessee that the amount of Security delivered by the Lessee to the Lessor be changed and specify the amount of Security required by the Lessor.
- (9.05) The Lessee shall, within 60 days of receiving the notice referred to in section 9.04, cause the amount of Security delivered to the Lessor to be changed to the amount specified in the notice and provide the Lessor with written confirmation of the change.

Article X--Notice

- (10.01) Where service of a notice or a document is required under this lease the notice or document shall be in writing and shall be deemed to have been delivered to, or if sent by prepaid registered mail addressed to, the Lessor and the Lessee at the addresses specified for each in this lease, and where service is by registered mail the notice or document shall be conclusively deemed to have been served on the eighth day after its deposit in a Canada Post office at any place in Canada.
- (10.02) Either party may, by notice in writing to the other, specify another address for service of notices under this lease, and where another address is specified under this section, notices shall be mailed to that address in accordance with this Article.
- (10.03) Notwithstanding section 10.01, any written notice to be served or given by the Lessor to the Lessee under this lease shall be effectively given or served by posting the same in a conspicuous place on the Land.

Article XI--Miscellaneous

- (11.01) No term, condition, covenant or other provision herein shall be considered to have been waived by the Lessor unless such waiver is expressed in writing by the Lessor. Any such waiver of any term, condition, covenant or other provision herein shall not be construed as or constitute a waiver of any further or other breach of the same or any other term, condition, covenant, or other provision and the consent or approval of the Lessor to any act by the Lessee requiring the consent or approval of the Lessor shall not be considered to waive or render unnecessary such consents or approvals to any subsequent same or similar act by the Lessee.

IN WITNESS WHEREOF, the parties have executed this lease as of the day and year first above written.

SIGNED, SEALED AND DELIVERED
on behalf of Her Majesty the Queen in
Right of the Province of British Colum-
bia by a duly authorized representative
in the presence of:

[Signature]
#401-4603 Kingway
Burnaby, BC

[Signature]
Authorized Representative

SIGNED, SEALED AND DELIVERED
by BRUNSWICK BEACH IMPROVEMENT
PARK
in the presence of:

[Signature]
Bruce H. McColl J.
(BC&)

Signature of Lessee

The Common Seal of

was hereunto affixed in the presence
of: Brunswick Beach
Improvement District

[Signature]
AUTHORIZED SIGNATORY

[Signature]
AUTHORIZED SIGNATORY
Secretary

Article XII--Interpretation

- (12.01) In this lease, unless the context otherwise requires, the singular includes the plural and the masculine includes the feminine gender and a corporation.
- (12.02) The captions and headings contained in this lease are for convenience only and are not to be construed as defining or in any way limiting the scope or intent of the provisions hereof.
- (12.03) Where this lease contains the forms of words contained in Column I of Schedule 4 of the Land Transfer Form Act, those words shall have the same effect and be construed as if the appropriate forms of words contained in Column II of that Schedule were contained herein in their place, unless the context requires another construction of those words.
- (12.04) Where in this lease there is a reference to an enactment of the Province of British Columbia or of Canada, that reference shall include a reference to any subsequent enactment of like effect, and unless the context otherwise requires, all statutes referred to herein are enactments of the Province of British Columbia.
- (12.05) If any section of this lease or any part of a section is found to be illegal or unenforceable, that part or section, as the case may be, shall be considered separate and severable and the remaining parts or sections, as the case may be, shall not be affected thereby and shall be enforceable to the fullest extent permitted by law.



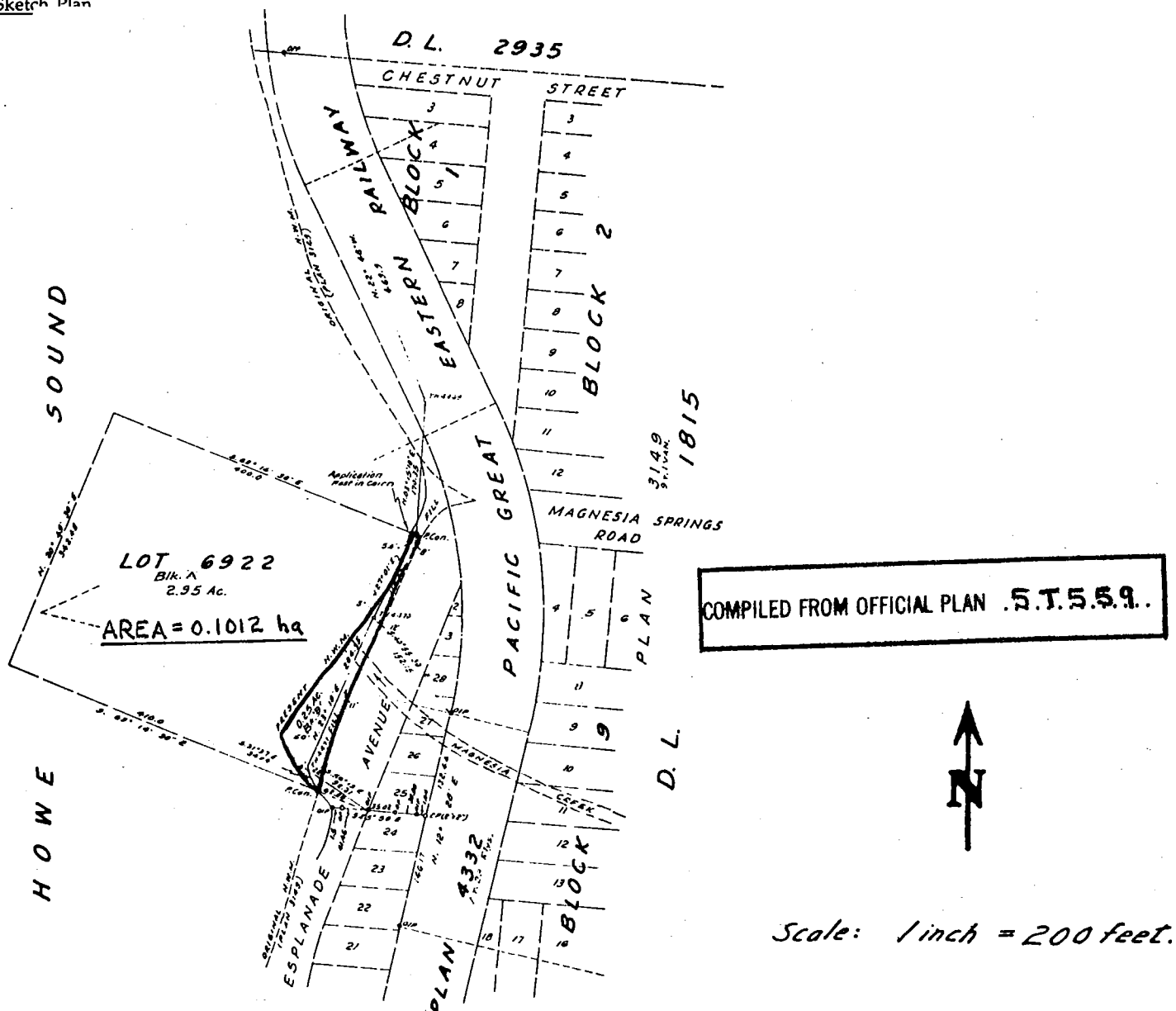
Legal Description Schedule

No. 234162

FILE No.

1.1 Legal Description

1.2 Sketch Plan



Province of
British ColumbiaMinistry of
Crown Lands**Special Proviso Schedule**

LEASE No.

234162

FILE No.

2404207**1.1 Purpose**

The lessee shall use the Land only for the purpose of a public recreation area and park.

1.2 Special Provisions



Province of
British Columbia

Ministry of
Crown Lands

Regular Council Meeting - June 18, 2019 - Page 104 of 242

Rental Schedule

LEASE No.

234162

FILE No. 2404207

The rental for the term shall be the sum of \$ 1.00, payable in advance, on the Commencement Date:



Province of
British Columbia

Ministry of
Crown Lands

Regular Council Meeting - June 18, 2010 - Page 105 of 242

ENLORSEMENTS

No.

234162

FILE No. 2404207

Intentionally Blank

From: [Ron McLaughlin](#)
To: [REDACTED]
Cc: [Peter DeJong](#); [Shawna Gilroy](#)
Subject: Re: Relaxation of ByLaws Request for Thursday July 18th
Date: Thursday, June 13, 2019 9:55:50 AM

Hi Nicole. Thank you for writing.

Hi Peter and Shawna. Please add this item for next week's agenda under correspondence. Thank You.

From: Nicole Alagich
Sent: Thursday, June 13, 9:47 AM
Subject: Relaxation of ByLaws Request for Thursday July 18th
To: Ron McLaughlin

To Mr. McLaughlin and Council,

I am writing to officially request some assistance with the ByLaws on Thursday July 18th, at 140 Lions Bay Avenue, as I am hosting a garden party for friends and neighbours at my home.

The event will begin at 7pm and live music will run until 10:30pm.

Guests will be encouraged to park on an angle along Lions Bay Avenue (making sure there is access for a fire truck).

As some of our guests will not be from Lions Bay, they will not have Resident Parking Passes and we hope that this can be waived for the evening, along with the noise ByLaw.

Obviously we will try our best to keep the music and noise to a reasonable level and will inform all our neighbours beforehand about the event.

Here is the proposed RESOLUTION

ByLaw Relaxation Request: THAT Council relax the Noise Bylaw and the Traffic and Parking Bylaw to allow live music until 10:30pm at 140 Lions Bay Avenue on Thursday July 18th, to allow angle parking on Lions Bay Avenue (excluding cup-de-sacs, no parking areas, and fire hydrants), and waive Guest Parking Passes for

visitors during this time for our Lions Bay House
Concert.

Thanks you in advance for your assistance.

Sincerely,

Nicole Alagich



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Request for Decision		
Title	Traffic & Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019		
Author	S. Gilroy	Reviewed By:	P. DeJong
Date	June 13, 2019	Version	2
Issued for	June 18, 2019 Regular Council Meeting		

Recommendation:

(1) THAT Traffic & Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019 be adopted.

Attachments:

- (1) Traffic & Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019
- (2) Traffic & Parking Bylaw No. 413, 2009 (Consolidation)

Key Information:

The purpose of this amendment in s.21(f) is to exclude not only camping, but also loitering, imbibing alcohol, or congregating with others, either by day or night, on any highway. It is also to amend the definition of “highway” to clarify that parking lots are included along with roadways and boulevards.

Options:

- (1) Approve the recommendation above and adopt the bylaw;
- (2) Rescind third reading, amend the bylaw and then re-read it a third time;
- (3) Refer the bylaw back to staff for revisions.

Preferred Option:

Option 1, approve the recommendation and adopt the bylaw.

Follow Up Action:

Assuming adoption is given, the bylaw will be updated on the municipal website.



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY



Traffic & Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019

Adopted: xxx

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0
Phone: 604-921-9333 Fax: 604-921-6643
Email: office@lionsbay.ca Web: www.lionsbay.ca

Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019

A bylaw to regulate, control, or prohibit traffic and parking

The **Council** of the **Village** of Lions Bay, in open meeting assembled, enacts as follows:

Citation Part 1

- 1.1 This Bylaw may be cited as “Traffic and Parking Bylaw No. 413, 2009, Amendment Bylaw No. 564, 2019”
- 1.2 If a portion of this bylaw is held invalid by a Court of competent jurisdiction, then the invalid portion must be severed and the remainder of this Bylaw is deemed to have been adopted without the severed section, subsection, paragraph, subparagraph, clause or phrase.

Amendments Part 2

- 2.1 Traffic and Parking Bylaw No. 413, 2009 is amended by replacing s.21(f) with “camp, loiter, or imbibe alcohol, ~~or congregate with others~~, either by day or night, on any **highway;**”
- 2.2 Traffic and Parking Bylaw No. 413, 2009 is further amended by adding “and a parking lot;” to the end of the definition of “Highway”.

READ A FIRST TIME on xxx

READ A SECOND TIME on xxx

READ A THIRD TIME on xxx

ADOPTED BY THE COUNCIL on xxx

 Mayor

 Corporate Officer

Certified a true copy of Traffic and
 Parking Bylaw No. 413, 2009,
 Amendment Bylaw No. 564, 2019 as adopted

Corporate Officer



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY



Traffic and Parking Bylaw No. 413, 2009

Office Consolidation

This document is an office consolidation of Traffic and Parking Bylaw No. 413, 2009 with subsequent amendments adopted by the Village of Lions Bay.

All persons making use of this consolidation are reminded that it has no Council sanction, that amendments have been incorporated only for convenience of reference, and that for all purposes of interpretation and application, the original bylaws should be consulted. The Village of Lions Bay will, in no event, be liable or responsible for damages of any kind arising out of the use of this consolidation.

This is not the official version of Traffic and Parking Bylaw No. 413, 2009, as amended, nor is it admissible in a court of law. For such purposes, official certified copies of the original bylaws can be obtained from the Village Office or by contacting us at: admin@lionsbay.ca

List of Amending Bylaws

Bylaw No.	Section	Description	Adopted
385	5.1	Amends penalties applicable under s.34	Sept. 19, 2006
465	3.1(10)	Deletes Schedule A & adds s.35 Fee BL Reference	Sept. 2, 2014
497	5.1.9	Updates Fee Bylaw Reference in s.35	January 1, 2017
528	2(a) 2(b) 2(c) 2(d)	Adds the year to the citation name Deletes the words "stand" and "standing" Deletes prohibition re. all tires on roadway Adds a 3 year limit for Council approvals of extraordinary vehicle or trailer permits under	July 4, 2017

	2(e) 2(f) 2(g)	section 11.3(i) Widens prohibition re. driving over fire hose Authorizes Council to allow for the sale or display of goods or services on a highway Deletes all references to Schedule A fees and substitutes reference to Fees Bylaw No. 497	
546	2.1 2.2 2.3 2.4	An addition to the definition of Traffic Control Device Adds a delegation authority to the Village Manager to adjust parking lot hours as required Deletes and re-adds subsection 10 (h) Amends section 11 (b)	June 19, 2018
564	<u>2.1</u> <u>2.2</u>	<u>Replaces text in s.21(f)</u> <u>Amends the definition of "highway"</u>	<u>xxx</u>

Bylaw No. 413, 2009

TRAFFIC AND PARKING BYLAW

A bylaw to regulate, control, or prohibit traffic and parking

The **Council** of the **Village** of Lions Bay, in open meeting assembled, enacts as follows:

Citation

1. This Bylaw may be cited as “Traffic and **Parking** Bylaw No. 413, 2009”.
2. If a portion of this bylaw is held invalid by a Court of competent jurisdiction, then the invalid portion must be severed and the remainder of this Bylaw is deemed to have been adopted without the severed section, subsection, paragraph, subparagraph, clause or phrase.

Repeal

3. Bylaws Number 219, 297 and 335 are hereby repealed.

Definitions

4. In this Bylaw:
 - (a) the definitions contained within the Motor Vehicle Act R.S.B.C. c. 318, the Commercial Transport Act, R.S.B.C. 1998, c. 58, and the Community Charter, S.B.C. 2003, c.26 shall be applicable; and
 - (b) **“Boulevard”** means the area from the travelled portion of the **highway** to the adjacent property line;
“Building-site workers” means professionals, contractors and labourers working on sites adjacent to a **highway**, where demolition or building is occurring;
“Chattel” means any article of tangible property other than land, buildings, and other things annexed to land;
“Commercial vehicle” means a vehicle licensed as a **commercial vehicle** under the Commercial Transport Act;
“Corporate Secretary” means the person appointed to such position from time to time or other persons authorized to carry out the duties ascribed to the said **Corporate Secretary**;
“Council” means the **Council** of the **Village** of Lions Bay;
“Dumpster” means a container designed to receive, transport away and dump waste, as distinguished from a household garbage can which holds waste until it is collected;

"Enforcement officer" means:

1. every person designated by **Council** by name of office or otherwise as an **enforcement officer** for the purposes of administering and enforcing this Bylaw; and
2. a peace officer, including every officer of the Royal Canadian Mounted Police;

"Extraordinary vehicle" means any vehicle having a licensed gross vehicle weight rating of 5,000 kg or more, or a vehicle having an overall length including any attached trailer exceeding 6.1 metres, except for vehicles owned or leased by the **Village** or its agents;

"Highway" means a street, road, lane, bridge, viaduct and any other way open to public use, whether owned or leased by the **Village**, other than a private right of way on private property, including without limiting the generality of the word, the **roadway** and the **boulevard and a parking lot**;

"Lane" means a **highway** which affords a secondary means of access to abutting sites;

"Manager Public Works" means the person appointed by **Council** to such position from time to time or other persons authorized to carry out the duties ascribed to the said **Manager Public Works**;

"Mayor" means the **Mayor** of the **Village** of Lions Bay, or his/her designate;

"Park" means the **stopping** of a vehicle, whether occupied or not, except when **stopping** temporarily for the purpose of and while actively and visibly engaged in loading or unloading for no longer than fifteen (15) minutes;

"Person with a disability" means a person with a disability whose vehicle displays a **parking permit** obtained under the **Parking Permit Program for People with Disabilities**, operated by the Social Planning and Research **Council** (SPARC);

"Police force" shall mean the Royal Canadian Mounted Police;

"Private road" or **"Driveway"** shall mean a **highway** or **driveway**, or that portion thereof, which is on land that is not owned or leased by the **Village** or the province;

"Public Works" means the Public Works department of the **Village** of Lions Bay.

"Roadway" means that portion of a **highway** that is improved and ordinarily used for the passage of vehicular traffic;

"Sidewalk" means that portion of a **highway** that is improved and marked for or ordinarily used for passage by pedestrians.

"Stop" means,

- (a) a complete cessation from movement, or
- (b) the **stopping** of a vehicle, whether occupied or not, except when necessary to avoid conflict with other traffic or to comply with the directions of a peace officer or **traffic control device**;

"Traffic control device" means a sign, signal, line, meter, marking, space, barrier or device which is consistent with the Motor Vehicle Act and placed or erected by or under the authority of the **Village**, which may include an online or digital device;

[Amended by Bylaw No. 546]

"Village" means the **Village** of Lions Bay; and

“Village Manager” means the **Village Manager** or Administrator of the **Village** of Lions Bay, and also means the person appointed by **Council** to the **Village Manager** or Administrator position from time to time, or other persons authorized to carry out the duties ascribed to the said **Village Manager** or Administrator.

“Workers on film projects” means employees of film companies who are carrying out filming-related work in the Village of Lions Bay.

Traffic Control Devices

5. **Manager Public Works** is hereby authorized to make orders in respect of placing, or causing to be placed, **traffic control devices** on or above the surface of a **highway**, in order to enforce the provisions of this Bylaw.
6. The **Mayor**, the **Village Manager**, **enforcement officers**, employees of **Public Works** or **Lions Bay Fire Rescue**, or any other persons specifically authorized by **Manager Public Works**, may erect or place a **traffic control device** within the **Village** for a period not exceeding 48 hours at one time, in the interests of public safety or controlling **parking** during events.
7. **Manager Public Works** may erect or place or may require or permit to be erected or placed **traffic control devices** on any **highway** where construction, reconstruction, widening, repair, marking, or any other work is being carried out on the **highway** or on a parcel adjacent to it, during the period of the work, to:
 - (a) indicate that persons or equipment are working upon the **highway** or on a parcel adjacent to it; and
 - (b) to regulate or prohibit traffic in the vicinity of such work.
8.
 - (a) Every person must obey the directions, instructions or prohibitions on or indicated by any **traffic control device** placed or erected in accordance with this Bylaw or the Motor Vehicle Act.
 - (b) No person shall deface, damage, injure, move, remove, obstruct, or otherwise interfere with, intentionally or otherwise, any **traffic control device** placed or erected upon any **highway**.
 - (c) No person shall allow plant growth on the **boulevard** adjacent to the property where they reside to obstruct sightlines to a **traffic control device**.
 - (d) No person shall establish, place, erect or maintain, or display in, or upon, or in view of any **highway**, any sign, signal or other device which purports to be, or is in imitation of, or resembles any **traffic control device**, or which attempts to direct the movement of traffic or the **parking** of vehicles.

Parking

9. The **Council** may direct **Manager Public Works** to designate, by the erection of a **traffic control device**, “no **parking**” zones in which **parking** or **stopping** a vehicle is prohibited by this Bylaw. The prohibition shall be in effect at all times unless **Council**, by Bylaw, limits the hours or days when the prohibition is in effect. The **Council** may specify that certain zones or stalls are reserved, either permanently or temporarily, for vehicles owned or operated by classes of

persons as **Council** may require, such as residents of the **Village**, visitors to the **Village**, **persons with disabilities**, **building-site workers**, or **workers on film projects**.

- 9.1 Council hereby delegates to the Village Manager the authority to designate permissible parking hours for metered parking at the Lions Bay Beach Park Parking Lot, the Kelvin Grove Beach Parking Lot, and the Sunset Trail Parking Lot, or such other parking areas as Council may direct that metered parking be implemented, as well as the types of vehicles or trailers which may use such parking areas.

[Amended by Bylaw No. 546]

10. No person may **stop** or **park** a vehicle:

- (a) in contravention of a **traffic control device** which gives notice that **stopping** or **parking** is restricted or prohibited there, except when actively and visibly engaged in loading or unloading;
- (b) on a **highway** when not displaying a valid, current insurance decal, if such decal is required for the vehicle to be lawfully driven;
- (c) on a crosswalk or within 5 metres of the edge of the marked crosswalk;
- (d) on that side of a **highway** within 6 metres of a **stop** sign;
- (e) on a bridge;
- (f) within 5 metres of any fire hydrant or standpipe, or in a position that causes it to interfere with fire-fighting;
- (g) on any portion of a **highway** or public place in such a way as to interfere with or obstruct the normal flow of traffic on the **highway** or public place or in such a way as to interfere with the maintenance of such **highway** or public place by men/women and equipment provided for that purpose;
- (h) in an area signed for permit **parking** only, except if the appropriate permit for the **parking** is displayed in accordance with the directions on the permit.

[Amended by Bylaw No. 546]

- (i) on any portion of a **highway** or public place within 2 meters of the access to or egress from a private **driveway** or **Village** right of way;
 - (j) on any **highway** for a period longer than 72 consecutive hours;
 - (k) on any **highway** for a period longer than 24 hours after the commencement of a fall of snow; or
 - (l) within an intersection or within 6 metres of any intersection.
11. (a) No person shall **park** any **extraordinary vehicle** between 6:00 pm of any day and 6:00 am of the day immediately following on any **highway** in a residential district except when actively engaged in loading or unloading.
- (b) No person shall **park** any trailer on a **highway** unless it is attached to a vehicle and not within a permit parking zone.

[Amended by Bylaw No. 546]

- (c) Despite 11-(1) and 11-(2), if **Council** deems that it is dangerous or impractical to **park** an **extraordinary vehicle** or trailer by an owner on real property occupied by the owner, by

reason of the topography of that real property, the **Manager Public Works** may designate and specify a **parking** space on the **highway** for the vehicle or trailer, under the following circumstances:

- i. if **Council** approves a written application to **Council** by the owner of the vehicle or trailer, such approval shall be valid for no longer than 3 years, after which time the owner of the vehicle must remove it or reapply;
 - ii. upon payment to the **Village** of an annual fee in accordance with Fees Bylaw No. 497, 2016, as amended.
- 12. The driver of a vehicle shall not **stop** or **park** a vehicle on that side and portion of any **highway** which abuts upon any property occupied by a school or used as a school playground on any school day between the hours of 8 o'clock in the forenoon and 5 o'clock in the afternoon, from Monday to Friday, from the beginning of September through to the end of June.
- 13. The provisions of this Bylaw prohibiting **stopping** or **parking** shall not apply to:
 - (a) any emergency vehicle while attending at any emergency call, but this exemption shall not excuse the driver of any such vehicle from exercising due and proper care for the safety of other traffic;
 - (b) Municipal or Provincial utility vehicles or the vehicles of their agents;
 - (c) vehicles of a public utility or public transit corporation; and
 - (d) tow trucks, while such vehicles are actually engaged in works of necessity requiring them to be **stopped** or to **park**, in contravention of such provision.

GENERAL REGULATIONS

Enforcement Officers

- 14. Every **enforcement officer** is authorized to enforce this Bylaw.
- 15. Every **enforcement officer** is authorized to direct traffic as the **enforcement officer** considers necessary to:
 - (a) ensure the orderly movement of traffic;
 - (b) prevent injury or damage to persons or property; and
 - (c) permit proper action in any emergency.
- 16. No person may refuse to comply with the direction of any **enforcement officer**.
- 17. No person may hinder, delay or obstruct in any manner, directly or indirectly, an **enforcement officer** carrying out duties in accordance with this Bylaw.

Speed Limits in the Village

18. The speed limit on all **highways** throughout the **Village** shall be not more than forty kilometres per hour for all traffic, unless otherwise posted. The speed limit in all **lanes** throughout the **Village** shall be no more than ten kilometres per hour, for all traffic.

Noise Making Devices

19. No person shall operate a motor vehicle on a **highway** while the motor vehicle is using any loudspeaker or noise-making device for advertising or other commercial purposes, unless the person is acting in support of community events or of public safety.

Driving Over Fire-Hose Prohibited

20. No person shall drive a vehicle over an unprotected hose of Lions Bay Fire Rescue.

Protection of Highways

21. No person shall:
- (a) spill, throw, drop, deposit, leave behind, or let fall debris from or out of any vehicle, including any bottle, glass, paper, crockery, nails, tacks, wood, dirt, gravel, manure, sawdust, or refuse or any object, substance or materials whatever;
 - (b) allow the flow of any noxious, offensive, or filthy water or substance on or upon any **highway**;
 - (c) damage landscaping, grass, shrubs, trees, flowers or plantings upon a **highway**;
 - (d) damage or deface any **highway** by piling materials or articles upon it, carrying out any kind of job upon it, dragging or hauling heavy materials or articles on or over it, digging into it, constructing a ditch, the water from which causes damage to it, removing any paving materials, turf, plants, earth, gravel or rocks from it, or by any other activity or means which may affect the **highway**;
 - (e) leave any dead animal on any **highway**;
 - (f) ~~camp, either by day or night, on any highway; camp, loiter, or imbibe alcohol, either by day or night, on any highway;~~
 - (g) make any fire on any **highway**, or make a fire at any place so as to endanger any installation on any **highway**;
 - (h) haul or convey any load on any vehicle, or on or through any **highway**, unless the load and any covering thereon is secured:
 - a. from becoming loose, detached or in any manner a hazard to other vehicles or users of the **highway**;
 - b. from overhanging the rear or side of the vehicle in such a manner as to cause the load to drag upon the surface of the **highway**;
 - (i) urinate or defecate upon any **highway**;

- (j) drive a vehicle or combination of vehicles with a licensed gross vehicle weight in excess of 63,500 kgs on a **highway**, without notifying the **Manager Public Works** and paying the applicable fee in accordance with Fees Bylaw No. 497, 2016, as amended; or
- (k) operate or use any vehicle having wheel, tires or treads constructed or equipped with projecting lugs, spikes, clouts, ribs, clamps, flanges or other attachments or projections which extend beyond the tread or traction surface of the wheel, tire or track, upon any **highway** except as permitted by the Motor Vehicle Act.

[Amended by Bylaw No. 564]

- 22. In the event that any person shall contravene this bylaw by causing or allowing spillage, deposit or damage as outlined in Section 21-(a), 21-(b), 21-(c), or 21-(d) above, the spillage must be cleaned up within twenty-four (24) hours of any spill and any damage to the **highway** repaired or remediated within fourteen (14) days of the occurrence of the damage. This work must be carried out:
 - (a) under the supervision of **Manager, Public Works** or according to the directions laid down by **Manager Public Works**, and
 - (b) at the expense of the owner and other persons responsible, jointly and severally, for the presence of the material or substance spilled or the damage created.
- 23. In the event that the terms of clean-up or remedial work required in Section 21 are not complied with, in accordance with Section 17-(1) and 17-(2) of the Community Charter, the following procedure shall apply. **Manager Public Works** may arrange clean-up of the spill or remediation of the damage at the expense of the owner and other persons responsible, jointly and severally for the presence of the material or substance spilled or the damage created. Fees will be charged in accordance with Fees Bylaw No. 497, 2016, as amended. The **Village** of Lions Bay may recover both these fees and the costs of the clean-up or remediation as a debt from the owner and other persons responsible, jointly and severally, for the presence of the material or substance spilled or the damage created.
- 24. With the exception of young children operating a lemonade or similar stand, no person may use or occupy any **highway** for the purpose of selling or displaying any goods or services, including without limitation, flowers, fruit, vegetables, seafood, commodity, article, car cleaning or other thing, except in the case of a community event or as specifically authorized by Council.

Amended by Bylaw No. 528
- 25. No person may place or store any **chattel**, object, material, container or structure on any **highway**, except as permitted by bylaw.
- 26. No person may place a **dumpster** upon a **highway**, except with notification to the **Village** office and payment to the **Village** of a fee in accordance with Fees Bylaw No. 497, 2016, as amended.
- 27. No person may place, allow or permit any earth, rock, stone, tree, log, stump, branches or other material to accumulate, cave, fall, crumble, slide or to be otherwise deposited on any **highway**, except as permitted by bylaw.
- 28. No person shall make any excavation for any purpose adjoining, or adjacent to, any **highway** without building and maintaining a good and sufficient fence or other barrier along the line of

such **highway**, so as to effectively guard such excavation, and to protect and guard persons and vehicles travelling along such **highway** against danger, risk, or accident by reason of such excavation.

29. No person shall construct or maintain any doorstep, porch, railing or other projection or obstruction into or on any **highway**.
30. Employees of the **Village** may remove any vehicle, chattel, construction, thing or growth which is an obstruction to the free or safe use of any **highway**, or which may interfere with the free use thereof, or which may encroach thereon.
31. The **Mayor** or **Village Manager** may direct a group congregated on any **highway** to disperse, if such dispersal is necessary to prevent or assist the prevention of a breach of the peace or threat thereto, or other violation of the criminal law, or to protect members of the public from injury or damage when works of maintenance or repair are being carried on by Municipal employees, or in the event of a natural disaster or possibility thereof. No person, being directed to so disperse, shall fail to do so.
32. No person shall skateboard, rollerblade or operate a push scooter upon any **highway** unless wearing a helmet.

Violation Provisions

33. (a) Any vehicle, **chattel**, obstruction or thing occupying any portion of a **highway**, where such vehicle, **chattel**, obstruction or thing interferes with the normal flow of traffic on the **highway**, or interferes with the maintenance of the **highway** by persons or equipment provided for that purpose, or is on the **highway** in contravention of the provisions of the Motor Vehicle Act or this Bylaw, is deemed to be unlawfully occupying a portion of the said **highway**.
- (b) Any **enforcement officer** may remove or cause to be removed any vehicle unlawfully occupying any portion of a **highway** and shall cause the said vehicle be towed to a place of storage and the **enforcement officer** shall immediately report the matter to the RCMP, giving a complete description of the vehicle and the location of the place of storage. Any vehicle removed by the **Village's** towing contractor may be recovered by paying the fees levied by the towing contractor, during the towing contractor's hours of operation. Any vehicle directly removed to another location within the **Village**, by **Village** staff, may be recovered by contacting the **Village** during its hours of operation and paying the fees specified in Fees Bylaw No. 497, 2016, as amended. The **Village**, a member of the **Council**, a person in lawful custody of the vehicle, or an officer, employee or agent of the municipality, is not liable, in damages or otherwise, for or in respect of any claim that may arise in respect of the vehicle after its removal in accordance with this section.
- (c) If a motor vehicle is removed, detained or impounded and not claimed by its owner within 48 hours, the **Village** will give written notice by registered mail to the registered owner at his or her address as shown on the records of the Registrar of Motor Vehicles, advising the owner of the seizure and impoundment, the sum payable to release the

motor vehicle and the date of advertising for sale by public auction if the vehicle is unclaimed.

- (d) Except for vehicles as described in 33-(2) and 33-(3) above, any **enforcement officer** may seize any **chattel**, obstruction or thing unlawfully occupying any portion of a **highway** and cause the item to be taken to a place of storage and the **enforcement officer** shall immediately report the matter to the RCMP giving a complete description of the item and the location of the place of storage. The item may be recovered by attending the **Village** office and paying the fees outlined in Fees Bylaw No. 497, 2016, as amended.
- (e) All property removed, detained or impounded under all the provisions above of this section shall be deemed to have come into the custody and possession of the **Police force** on behalf of the **Village**. Where the owner of the property has not been ascertained, and no order of a competent court has been made with respect thereto, the property shall be disposed of or sold by the **Village Manager** in accordance with section 67 of the Community Charter. A fee in accordance with Fees Bylaw No. 497, 2016, as amended shall be charged by the **Village** against the proceeds, and the balance shall be held for the owner. If the balance remains unclaimed after one year from the sale date, the balance shall be paid into the general revenue of the **Village**. The **Village**, a member of the **Council**, a person in lawful custody of a vehicle, **chattel**, obstruction or thing, or an officer, employee or agent of the municipality, is not liable, in damages or otherwise, for or in respect of any claim that may arise in respect of the item after its disposal in accordance with this section.
- (f) Despite any other provision of this Bylaw, if a **chattel**, obstruction or vehicle removed, detained, or impounded is a perishable article, has an apparent market value of less than \$2,000.00 or if its custody involves unreasonable expense or inconvenience, the **Village Manager** may decide not to proceed to public auction, and may dispose of the **chattel**, obstruction or vehicle in any manner in which he or she deems expedient.

Penalties

- 34. Any person contravening or committing any breach of or committing any offence against any of the provisions of this Bylaw, or of the regulations or orders issued under this Bylaw, or refusing, omitting, or neglecting to fulfill, observe, carry out or perform any duty or obligations imposed by this Bylaw, or by the regulations or orders created hereunder, prescribed or imposed, is liable on summary conviction, to a fine of \$10,000, and is guilty of a separate offence each day that a violation continues to exist.
[Amended by Bylaw 385]
- 35. Fees for services that may be or are provided under this Bylaw shall be payable as set out in Fees Bylaw No. 497, 2016, as amended.

[Amended by Bylaw 465]
[s. 35 Amended by Fees Bylaw No. 497, 2016]

READ A FIRST TIME on	July 6, 2009
READ A SECOND TIME on	July 6, 2009
READ A THIRD TIME on	July 20, 2009
ADOPTED by the Council on	July 21, 2009

Mayor

Village Manager

Certified a true copy of
Bylaw 413, 2009 as adopted

Village Manager



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Request for Decision		
Title	Lions Bay Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019		
Author	S. Gilroy	Reviewed By:	P. DeJong
Date	June 13, 2019	Version	2
Issued for	June 18, 2019 Regular Council Meeting		

Recommendation:

(1) THAT Lions Bay Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019 be adopted.

Attachments:

- (1) Lions Bay Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019
- (2) Lions Bay Parks Regulations Bylaw No. 448, 2012 (Consolidation)

Key Information:

The purpose of this amendment is to include the restriction of flying any motor driven glider or aircraft, including a drone to s.12.3.2.

Options:

- (1) Approve the recommendation above and adopt the bylaw;
- (2) Rescind third reading, amend the bylaw and then re-read a third time;
- (3) Refer the bylaw back to staff for revisions.

Preferred Option:

Option 1, approve the recommendation and adopt the bylaw.

Follow Up Action:

Assuming the bylaw is adopted, it will be updated on the municipal website.



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY



Lions Bay Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019

Adopted: xxx

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0
Phone: 604-921-9333 Fax: 604-921-6643
Email: office@lionsbay.ca Web: www.lionsbay.ca

Lions Bay Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019

A bylaw to make rules and regulations governing the management, maintenance,
improvement, operation, control and use of parks

The Council of the Village of Lions Bay enacts as follows:

Part 1 Citation

- 1.1 This bylaw may be cited as Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019

Part 2 Severability

- 2.1 If a portion of this bylaw is held invalid by a Court of competent jurisdiction, then the invalid portion must be severed and the remainder of this bylaw is deemed to have been adopted without the severed section, subsection, paragraph, subparagraph, clause or phrase.

Part 3 Amendments

- 3.1 Parks Regulations Bylaw No. 448, 2012 is hereby amended by striking the wording of s.12.3.2 and replacing it with "fly any glider or motor driven aircraft, including a drone;"

READ A FIRST TIME on xxx

READ A SECOND TIME on xxx

READ A THIRD TIME on xxx

ADOPTED BY THE COUNCIL on xxx

Mayor

Acting Corporate Officer

Certified a true copy of
Parks Regulation Bylaw No. 448, 2012,
Amendment Bylaw No. 565, 2019 as adopted

Village of Lions Bay

Parks Regulations Bylaw No. 448, 2012, Amendment Bylaw No. 565, 2019

Page 3

Acting Corporate Officer



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY



Lions Bay Parks Regulations Bylaw No. 448, 2012

Office Consolidation

This document is an office consolidation of Lions Bay Parks Regulation Bylaw No. 448, 2012 with subsequent amendments adopted by the Village of Lions Bay.

All persons making use of this consolidation are reminded that it has no Council sanction, that amendments have been incorporated only for convenience of reference, and that for all purposes of interpretation and application, the original bylaws should be consulted. The Village of Lions Bay will, in no event, be liable or responsible for damages of any kind arising out of the use of this consolidation.

This is not the official version of Lions Bay Parks Regulation Bylaw No. 448, 2012, as amended, nor is it admissible in a court of law. For such purposes, official certified copies of the original bylaws can be obtained from the Village Office or by contacting us at: admin@lionsbay.ca

List of Amending Bylaws

Bylaw No.	Section	Description	Adopted
9	All	Repeals bylaw	July 6, 1971
247	All	Repeals bylaw	August 14, 1995
316	All	Repeals bylaw	December 4, 2000
414	All	Repeals bylaw	July 21, 2009
439	All	Repeals bylaw	March 5, 2012
527	2(a) 2(b) 2(c) 2(d)	Amends title and citation name of Bylaw Amends the definition of Park Amends list of repealed bylaws Adds the ability for Council to authorize sale of goods in Parks	July 4, 2017

Village of Lions Bay**Parks Regulations Bylaw 448, 2012****Page 2**

	2(e)	Adds the ability for Council to authorize motor vehicles in Parks	
	2(f)	Adds the ability for Council to authorize extended hours for Parks	
	2(g)	Provides for boat storage facility, fees & seizure/sale enforcement	
	2(h)	Provides for enforcement under Bylaw No. 385	
<u>565</u>	<u>3.1</u>	<u>Replaces s.12.3.2 to restrict the flying of gliders and motor driven aircrafts, including drones</u>	<u>xxx</u>

Bylaw No. 448, 2012

LIONS BAY PARKS REGULATIONS BYLAW

A bylaw to make rules and regulations governing the management, maintenance, improvement, operation, control and use of parks

The Council of the **Village of Lions Bay** enacts as follows:

Part 1 Citation

- 1.1 This bylaw may be cited as Lions Bay Parks Regulations Bylaw No. 448.

[Amended by Bylaw No. 527]

Part 2 Severability

- 2.1 If a portion of this bylaw is held invalid by a Court of competent jurisdiction, then the invalid portion must be severed and the remainder of this bylaw is deemed to have been adopted without the severed section, subsection, paragraph, subparagraph, clause or phrase.

Part 3 Previous Bylaw Repeal

- 3.1 **Parks** Regulation Bylaw No. 9, and the amendment bylaws Nos. 247, 316, 414 and 439 are hereby repealed.

[Amended by Bylaw No. 527]

Part 4 Definitions

In this bylaw:

“Beach” means any area covered and uncovered by the ebb and flow of the tide, and any adjacent area which can reasonably be considered part of the **beach** environment including areas of rock, sand, pebbles, shell, shingle or coastal vegetation.

“Enforcement officer” means:

1. every person designated by Council by name of office or otherwise as an **enforcement officer** for the purposes of administering and enforcing this Bylaw; and
2. a peace officer, including every officer of the Royal Canadian Mounted Police.

“Community facility” means a building, recreation or other municipal facility intended for use by the public, including but not limited to, the Village Hall, tennis courts, play structures, washrooms, picnic shelters and other recreation facilities located in a **Park** or on any other land which the **Village** owns or controls by means of a lease, license or other legal instrument, that is

intended for athletic, social or recreational use by members of the community.

“Fire Chief” means the person appointed to such position from time to time or other persons authorized to carry out the duties ascribed to the said **Fire Chief**.

“Fire season” means the time of year declared as “fire season” by the Village Manager or designate.

“Foreshore” means any area within the Village along the shoreline between the high and low water marks.

“Lions Bay Fire Rescue” means the Fire Rescue Department of the Village of Lions Bay.

“Manager Public Works” means the person appointed to such position from time to time or other persons authorized by Council to carry out the duties ascribed to the said **Manager Public Works**.

“Nuisance” means any activity, conduct or condition occurring in a **park** which substantially and unreasonably interferes with a person’s use and enjoyment of the **park**.

“Organized activity” means any activity which is pre-planned, involves a group larger than 20 people and which limits general public access to a portion of the **park** or **community facility**, or any activity that involves instruction or training.

“Park” means a **park** or **parkland** or any real property or interest therein within the **Village** held or used for pleasure or recreation uses of the public and includes the land held under any lease, including the **foreshore** and land covered by water granted to the **Village** by her Majesty the Queen and designated W-2 under Zoning and Development Bylaw No. 520, 2017, and including the forest inside the Village boundary.

[Amended by Bylaw 527]

“Vehicles” means all conveyances for the carriage or transport of persons, passengers, goods or materials propelled by any mechanical device or other modes of power whatsoever and shall include bicycles and tricycles.

“Village Manager” means the **Village Manager** or Administrator of the Village of Lions Bay, and also means the person appointed to the **Village Manager** or Administrator position from time to time, or other persons authorized by Council to carry out the duties ascribed to the said **Village Manager** or Administrator.

“Village” means the **Village of Lions Bay**.

Part 5 Preservation of Features

- 5.1 No person shall cut, break, prune, damage, deface, tamper with, destroy, remove, apply graffiti to or burn anything in any **park** including, without limiting the generality of the foregoing, any building, structure, vegetation, court, fence, swing, notice, seat, bench, ornament, lamp post, turf or thing in or on any **park** or **community facility**.
- 5.2 No person shall molest, disturb, frighten injure, trap, harm, kill or snare any bird or animal in any

park, with the exception that authorized **Village** staff may deal with nuisance animals or birds.

- 5.3 No person shall foul, pollute, or deposit any matter or thing or otherwise introduce any contaminant onto the land or into any stream, reservoir, creek, pond, ditch, pool or water within a **park** or **community facility**.
- 5.4 No person shall tamper with or discharge or cause to be let out, any water from any reservoir, stream, pond, pool or hydrant in or on any **park**.
- 5.5 No person shall climb, walk or sit upon a fence, structure or piece of equipment in any **park** or **community facility**, unless the same is designed and intended for such purpose.
- 5.6 No person shall deposit or dump any garbage, glass, crockery, paper, rubbish, litter, wood, waste or other material whether liquid or solid in or on any **park** or **community facility**, except in receptacles provided there for such purpose and then only if there is space in the receptacle for such deposit.
- 5.7 No person shall dispose of waste generated outside a **park** or **community facility** by depositing the waste in a waste receptacle or anywhere else inside any **park** or **community facility**.

Part 6 Fires and Fireworks

- 6.1 No person except members of **Lions Bay Fire Rescue**, acting upon authorization of the Village for community events, shall discharge any fireworks, combustible or explosive matter in a **Park** or **community facility**.
- 6.2 No person except members of **Lions Bay Fire Rescue**, acting upon authorization of the Village for community events, shall cause, permit or allow a fire to burn in a **park** or **community facility**.
- 6.3 No person shall use a charcoal or propane fire barbeque or hibachi in any **Lions Bay park** except in Lions Bay **Beach Park** and Kelvin Grove **Beach Park**.
- 6.4 No person shall dispose of used embers, coals or by-products of privately-owned barbecues on municipal property.
- 6.5 No person shall place or throw any lighted match, cigar, cigarette or any burning substance or thing in or on any **park**. The **Fire Chief** may prohibit smoking in any **park** or **Community facility** at any time by posting a no-smoking order at the entrance to the **park** or **community facility**.
- 6.6 The **Fire Chief** may declare, in writing, any **park** or trail, or part of a **park** or trail to be a fire risk. If the **Fire Chief** makes such a declaration, then no person except Village employees in the performance of their duties shall enter that trail or **park**.

Part 7 Commercial Services and Activities

- 7.1 No person shall sell, exchange, barter or expose or display for sale any goods, offer any service or carry on any commercial undertaking whatsoever in a **park** or **community facility**, except as part of a community event, or as authorized under the **Village** Filming policy, or as specifically authorized by Council for specific locations, dates and times.

[Amended by Bylaw No. 527]

- 7.2 No person shall post, paint, or affix any advertisement, bill, poster, handout, picture, matter or thing in or on any **park** or engage in the distribution or delivery of advertising material in any **park** or in any building, structure or thing in any **park**, or operate or station any motor **vehicle** displaying advertising or equipped with a public address system in a **park** or **community facility** for the purpose of advertising, promoting, demonstration or attracting attention. This section shall not apply to persons supporting a community event and to **Village** employees acting in the performance of their duties, or in support of community events.
- 7.3 No person shall operate or use any amplifying system or loudspeaker in or on any **park**. This section shall not apply to persons supporting a community event and to **Village** employees acting in the performance of their duties, or in support of community events.

Part 8 Community Facilities Rental

- 8.1 No person or group shall use a **park**, or any portion of a **park**, or a **community facility**, for an organized sport, **organized activity**, special event, ceremony, or ancillary activity unless that person has notified the Village office to ascertain whether a valid **Community Facilities** Rental contract is required, and has obtained such a contract if it is required. Fees, requirements and guidelines used shall be those established in the Recreation Operations Manual approved by **Council**.

Part 9 Motor Vehicles, Devices and Machinery

- 9.1 No person shall use any motorized boat, water sled, water skis or other water borne contrivance or thing propelled by a motor, for recreational purposes, within two hundred metres (200 m) of any **park** or **beach**. Boats accessing an anchor buoy are exempted from this provision, but must proceed at the boat's dead slow speed.
- 9.2 With the exception of a **Lions Bay enforcement officer** and other Village staff, no person shall drive or park a motorized **vehicle**, in any **park**, or use any motorized devices or machinery in any **park**, except as specifically authorized by Council for specific locations, dates and times.

[Amended by Bylaw No. 527]

- 9.3 **The Village Manager** or an **enforcement officer** may remove, or cause to be removed any unauthorized motor **vehicles**, devices or machinery from any **park**.

Part 10 Hours of Public Use of Parks

- 10.1 No person, except authorized **Village** personnel, shall enter or remain within any **park** for any purpose whatsoever during the hours when the **park** is closed as indicated by posted notice, or where no hours are posted, between 10:00 pm and 8.00 a.m., except in the case of a community event or as specifically authorized by Council.

[Amended by Bylaw No. 527]

- 10.2 The **Village Manager** may, at any time, by written order posted at the **park** or **community facility**, close any **park** or **community facility**, or part thereof, to the use of the Public, or restrict the hours of opening and closing of any **park** or **community facility** if, in the **Village Manager's** opinion, such closure is necessary to prevent or assist the prevention of a breach of the peace or threat thereto, or other violation of the criminal law or to protect members of the public from injury or damage when works of maintenance or repair are being carried on by Municipal employees, or in the event of a natural disaster or possibility thereof.
- 10.3 No person shall enter or remain in any **park** or **community facility** which has been posted as closed to public access by the **Village Manager**.

Part 11 Behaviour and Conduct

- 11.1 No person shall by his or her behaviour create a **nuisance** in any **park**.
- 11.2 No person shall obstruct the lawful use and enjoyment of any **park** or **community facility** by any other person.
- 11.3 No person may refuse to comply with the direction of any **enforcement officer**.
- 11.4 No person shall obstruct or delay, or cause to be obstructed or delayed, any official, employee, agent, **enforcement officer**, or contractor of the **Village** in the exercise of any of lawful duties.
- 11.5 No person shall urinate or defecate in a **park**, except in a **park** washroom
- 11.6 No person shall smoke in any park or trailway.
- 11.7 No person shall play amplified music in any park, or public trail, or other way open to public use, except as permitted under **Part 8 – Community Facilities Rental**

Part 12 Permitted Uses

- 12.1 No person shall store boats, canoes, kayaks, trailers or other watercraft or things, on a **beach** or **foreshore** in any **park**.
- 12.2 No person shall erect any tent, building, shelter or other structure or works, sleep overnight, or occupy a **vehicle**, trailer or camper for overnight camping, temporary or permanent, in or on any **park**.
- 12.3 No person shall do any of the following in any **park**:
1. play golf or strike a golf ball;

2. ~~fly any motor driven aircraft or glider;~~ fly any glider or motor driven aircraft, including a drone;
3. shoot an arrow or practice archery; or
4. play or participate in paint-ball.

[Amended by Bylaw No. 565]

12.4 Storage Facilities

1. The Village is authorized to establish storage facilities for canoes, kayaks, and other non-motorized water craft within a **Park** or **Community Facility**;
2. The Village may charge a fee for this service in accordance with Fees Bylaw No. 497, as amended;
3. The Village Manager is authorized to create procedures and policies to administer the storage facility and associated fees and may seize any water craft or thing unlawfully occupying the storage facility;
4. The Village, through the Village Manager, may recover those fees from the owner of the water craft or thing, including by sale of the water craft or thing if the owner refuses to pay or cannot be identified after reasonable efforts and the Village relies on the powers granted under the *Community Charter* and the *Disposal of Property in Police Possession Regulation*."

[Amended by Bylaw No. 527]

Part 13 Loss of Access Rights

- 13.1 Where the **Village Manager** or an **enforcement officer** is of the opinion that a person or group within a **park** or **community facility** is contravening any provisions of this or any other Bylaw, that person or group:
 1. must cease contravening the provision of the Bylaw or other enactment;
 2. may be required by the **Village Manager** or designate or an **enforcement officer** to leave the **park** or **community facility**;
 3. may, on written notice from the **Village Manager** or designate, forfeit their right of access to the **park** and/or **community facility** for a period of time stipulated in writing by the **Village Manager**, but not to exceed 60 days.

Part 14 Penalty and Enactment

- 14.1 Every person who violates a provision of this bylaw, or who consents, allows or permits an act or thing to be done in violation of a provision of this bylaw, or who neglects or refrains from doing anything required by a provision of this bylaw, is guilty of an offence and is liable, upon summary conviction, to a fine not exceeding \$10,000 and not less than \$2,000, and is guilty of a separate offence each day that a violation continues or exists, unless the Village elects to proceed under the Bylaw Notice Enforcement Bylaw No. 385, 2006, as amended, in which case any violation of or failure to act under this bylaw shall constitute a bylaw contravention rather than an offence."

[Amended by Bylaw No. 527]

Village of Lions Bay
Parks Regulations Bylaw 448, 2012

Page 9

READ A FIRST TIME on May 22nd, 2012

READ A SECOND TIME on May 22nd, 2012

READ A THIRD TIME on June 4th, 2012

ADOPTED by the **Council** on June 19th, 2012

Mayor

Acting Corporate Officer

Certified a true copy of
Bylaw 448, 2012 as adopted

Acting Corporate Officer

Intentionally Blank

VILLAGE OF LIONS BAY

Incoming Correspondence - June 18, 2019

General Correspondence:

- G1: Sensitive Ecosystem Inventory (Page 1)
- G2: Sea to Sky Community Based Seniors Services - Community Consultation (Page 19)
- G3: Council Motion - Provincial Support for Libraries (Page 21)
- G4: Metro Vancouver Regional Greenway Plan Update (Page 22)
- G5: 2019 UBCM Convention - Meeting Requests (Page 24)
- G6: 2019 UBCM Convention - Provincial Appointment Book and Meeting Request Process (Page 28)
- G7: Metro 2040 Land Use (Page 54)

Resident Correspondence:

- R1: Karl Buhr - New Parking Measures (Page 97)
- R2: Penny Nelson - Insurance to use the Hall (Page 98)

Board and Information Services
Tel. 604 432-6250 Fax 604 451-6686

File: CR-12-01
Ref: RD 2019 May 24

MAY 31 2019

Peter DeJong, Chief Administrative Officer
Village of Lions Bay
400 Centre Road P.O. Box 141
Lions Bay BC V0N 2E0
VIA EMAIL: office@lionsbay.ca; admin@lionsbay.ca

Dear Mr. DeJong:

Re: Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss

At its May 24, 2019 regular meeting, the Board of Directors of the Metro Vancouver Regional District Metro Vancouver (Metro Vancouver) adopted the following resolutions:

That the MVRD Board:

- a) receive for information the report titled “Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss”, dated April 10, 2019; and,*
- b) distribute the report to member jurisdiction Councils for information.*

Enclosed is a copy of the staff report for your information.

Metro Vancouver’s Sensitive Ecosystem Inventory is a GIS inventory of ecologically significant lands across the region. The Sensitive Ecosystem Inventory was originally completed in 2013 in response to the need for up-to-date, standardized information for the region to facilitate conservation of important ecological areas through informed land use and conservation planning. The recent update to 2018 provides key insights into the state of the region’s most important ecological areas and changes over a 5-year period, which are summarized in the attached report.

29758757

Through Metro Vancouver's Regional Planning Advisory Committee – Environment SubCommittee, your staff have been provided access to the updated Sensitive Ecosystem Inventory data. If you have any questions or for more information, please contact Josephine Clark, Planner, Regional Planning, by phone at 604-451-6166 or by email at Josephine.Clark@metrovancover.org.

Sincerely,





Chris Plagnol
Corporate Officer

CP/sn

cc: Neal Carley, General Manager, Planning and Environment
Josephine Clark, Planner, Regional Planning, Planning and Environment

Encl: Report dated April 10, 2019, titled "Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss" (Doc # 29328558)

To: Climate Action Committee

From: Josephine Clark, Planner, Regional Planning
Planning and Environment Department

Date: April 10, 2019 Meeting Date: May 17, 2019

Subject: **Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of
Ecosystem Loss**

RECOMMENDATION

That the MVRD Board:

- a) receive for information the report titled “Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss”, dated April 10, 2019; and,
 - b) distribute the report to member jurisdiction Councils for information.
-

PURPOSE

To provide the Climate Action Committee and MVRD Board with sub-regional analysis from the updated Metro Vancouver Sensitive Ecosystem Inventory, and an in-depth assessment of ecosystem loss.

BACKGROUND

The Climate Action Committee’s 2019 Work Plan includes “Ecological Health - Sensitive Ecosystem Inventory - update and implications” in the second quarter.

The results of the first 5-year update of the Metro Vancouver Sensitive Ecosystem Inventory were presented to the Climate Action Committee at the June 2018 meeting. This report provides additional results from the 5-year Sensitive Ecosystem Inventory update including sub-regional analysis and an assessment of ecosystem loss at the regional, regional core (primarily developed areas), and sub-regional levels.

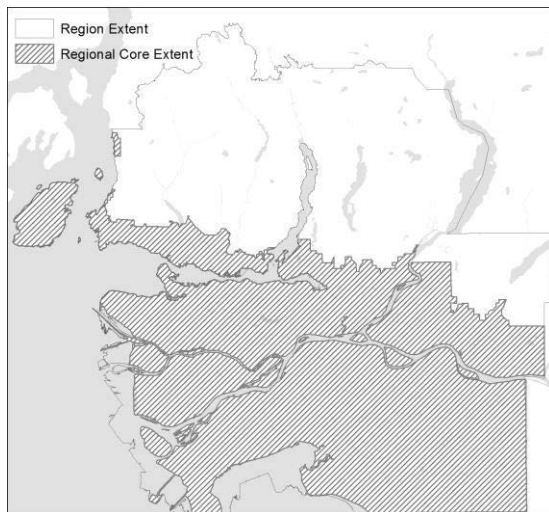
METRO VANCOUVER’S SENSITIVE ECOSYSTEM INVENTORY

Metro Vancouver’s Sensitive Ecosystem Inventory is a GIS inventory of ecologically significant lands across the region. The Sensitive Ecosystem Inventory was originally completed in 2013 in response to the need for up-to-date, standardized information for the region to facilitate conservation of important ecological areas through informed land use and conservation planning. The Sensitive Ecosystem Inventory maps ‘Sensitive Ecosystems’, including wetlands, older forests and woodlands, as well as ‘Modified Ecosystems’ such as old fields and young forests that are younger and more human modified but still have ecological value and importance to biodiversity. Sensitive and modified ecosystems provide key ecosystem services to the region including carbon storage, and flood absorption, and contribute to our resilience to climate change. They also provide vital habitat and connectivity for biodiversity.

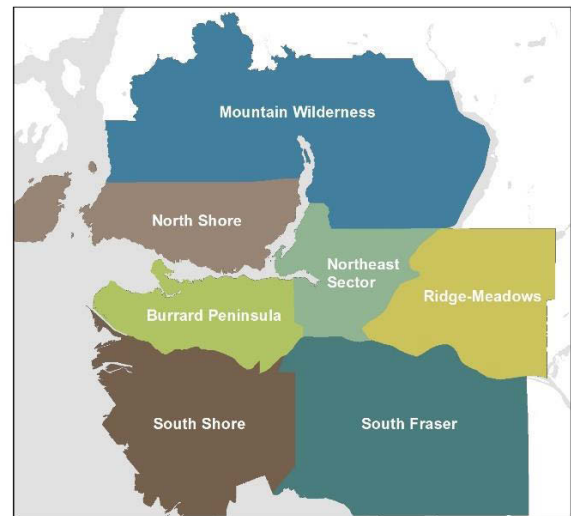
In 2018, the first 5-year update was completed to ensure the Sensitive Ecosystem Inventory continues to be an effective and relevant land use and conservation planning tool. The purpose of the update was to document changes to mapped ecosystems and quantify the amount, rate and type of ecosystem loss. Initial results from the update were provided to the Climate Action Committee in June 2018 (Reference 1).

RESULTS

Sensitive Ecosystem Inventory results are reported for the region, regional core and sub-regions, and these areas are shown in Maps 1 and 2. The regional core is the more urbanized southern part of the region and is most relevant to policy and planning.



Map 1 – Region and Regional Core Extents



Map 2 – Sub-Region Extents

Assessment of Ecosystem Loss

The 5-year Sensitive Ecosystem Inventory update found a total loss of 1,640 ha (0.9%) of sensitive and modified ecosystem for the region, 1,190 ha (3.4%) of which were within the regional core. The ecosystem classes with the highest recorded losses were:

- Mature Forests (aged 80-250 years) – 518 ha (-2%)
- Young Forests (aged 30-80 years) – 459 ha (-2%)
- Old Field – 426 ha (-20%)
- Riparian – 96 ha (-0.3%)
- Wetland – 120 ha (-1.2%)

Charts 1 and 2 summarize the main causes of ecosystem loss in the region and in the regional core respectively. Logging activities resulted in the highest losses at the regional level. These occurred within the academic research forests and as part of commercial logging operations. Other causes of loss were clearing and mowing (no further development or other activity on the site was observed), agriculture, residential development, transportation and communication (which includes road building), and utilities. Smaller categories of loss include resource extraction, industrial activities, and

recreation. Loss at the regional core level showed similar patterns, except very little logging took place.

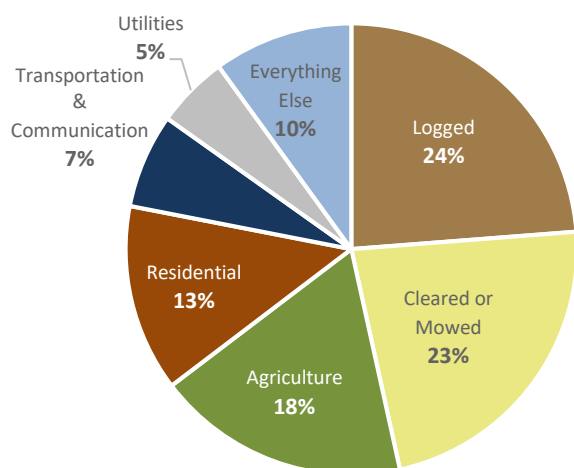


Chart 1 – Causes of ecosystem loss for the region

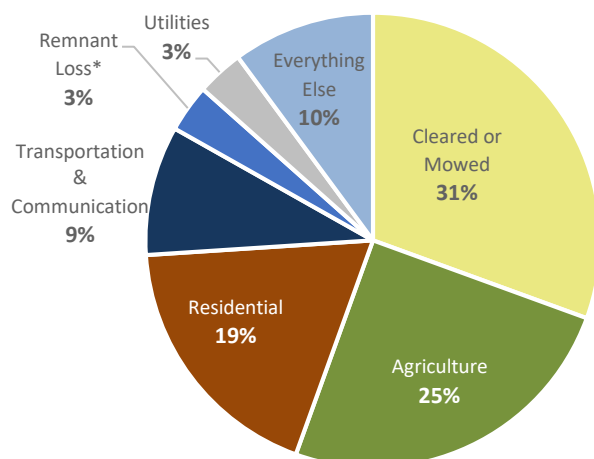


Chart 2 – Causes of ecosystem loss for the regional core

*Remnant Loss – ecosystems that due to adjacent loss are now very small and fall below the minimum size for inclusion in the Sensitive Ecosystem Inventory

Attachment 1 provides a breakdown of causes of loss for the ecosystems classes listed above which experienced the highest levels of loss. Logging was the cause of most loss for mature and young forests. For old fields, over 80% of loss was a result of agriculture or clearing and mowing. It is possible that some of these sites may be allowed to return to an old field state over time. However, if this was a system in balance we would expect a similar amount of additions of old fields to the inventory as losses, but only 35 ha was added, compared to 426 ha lost.

Old field additions were due to areas naturally aging to the point they met the criteria for inclusion within this class. Additions to other classes totaled 3 ha and appeared to be due largely to restoration activities.

Changes in Ecosystem Quality

Ecosystems in the Sensitive Ecosystem Inventory are assessed for 'ecosystem quality', which is determined through an evaluation of their condition, visible disturbances, context within the landscape, and size. As shown in Table 1 below, at the regional level, a high percentage of ecosystems in the Sensitive Ecosystem Inventory are rated higher quality (84.7%), but this number drops considerably when looking at the regional core (39.1%). This difference is due to the dominating effect of the watersheds and large provincial parks in the north which contain very large areas of undisturbed ecosystems.

	% Ecosystems rated Higher Quality	Change over 5-years
Region	84.7%	-0.3%
Regional Core	39.1%	-0.7%

Table 1 – Ecosystem quality for the region and regional core

Changes in ecosystem quality were assessed during the recent Sensitive Ecosystem Inventory update. A decrease of less than 1% was detected at both the region and regional core level.

Sub-Regional Profiles

Attachment 2 provides breakdowns of the Sensitive Ecosystem Inventory analysis for each sub-region, as well as the region and regional core for comparison. The following information is included within the profiles:

- Map of sub-region extent;
- Top three sensitive or modified ecosystems present in the sub-region by area;
- Proportion of the sub-region that is a sensitive or modified ecosystem;
- Percent of ecosystems rated higher quality in the sub-region and change over 5-years;
- Proportion of regional sensitive or modified ecosystems found within the sub-region; and
- Ecosystem loss information including the proportion of regional loss that occurred within the sub-region.

In 2013 with the first release of the Sensitive Ecosystem Inventory, a 'Sub-Regional Profiles' document (Reference 2) was created with a public audience in mind and is available on the Metro Vancouver website. An updated version of the sub-regional profiles will be created using the information in Attachment 2.

Next Steps

This report is provided to the Climate Action Committee in keeping with its Terms of Reference, which identify that the Environment portfolio of Regional Planning provides data, monitoring and research to support the Committee's role in guiding and monitoring the organization's actions under the *Ecological Health Framework*. Staff welcome any feedback or direction that arises from consideration of the Sensitive Ecosystem Inventory.

This report will be provided to the Regional Planning Committee through its role in updating *Metro Vancouver 2040: Shaping Our Future (Metro 2040)*, the regional growth strategy. A key environmental objective of this update is to better integrate sensitive ecosystems into the regional growth strategy. Staff will report back to the Climate Action Committee as work on the update to *Metro 2040* advances.

ALTERNATIVES

1. That the MVRD Board:
 - a) receive for information the report titled "Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss", dated April 10, 2019; and,
 - b) distribute the report to member jurisdiction Councils for information.
2. That the Climate Action Committee receive for information the report titled "Sensitive Ecosystem Inventory – Sub-Regional Profiles and Assessment of Ecosystem Loss", dated April 10, 2019.

FINANCIAL IMPLICATIONS

If the MVRD Board chooses Alternative 1, the report will be distributed to member jurisdiction Councils for information. The report highlights the loss of sensitive ecosystems in the region between 2009 and 2014, and identifies the causes for ecosystem loss both for the region and within the regional core (excluding the North Shore watersheds, estuaries and intertidal areas). Residential development was the cause of 19% of the loss of ecosystems in the regional core between 2009 and 2014. Agriculture was the cause of the 25% of that same loss. Metro Vancouver will be looking at how better to monitor and address this loss through the update to the Regional Growth Strategy, and member jurisdictions play a critical role in the protection of ecosystems in the region. If the Committee chooses Alternative 2, no further action will be taken.

Costs associated with the Metro Vancouver Sensitive Ecosystem Inventory update were included in MVRD Board-approved Regional Planning program budgets and work plans.

SUMMARY / CONCLUSION

The Metro Vancouver Sensitive Ecosystem Inventory update provides key insights into the state of the region's most important ecological areas and changes over a 5-year period. Causes of loss observed in the Sensitive Ecosystem Inventory update were assessed and quantified. Logging, clearing and mowing, agriculture, and residential development were among the primary causes of ecosystem loss recorded for the region. Very little logging was documented within the regional core but other causes of loss were similar. Ecosystem quality was assessed and was found to have decreased slightly for the region and regional core, a change of -0.3% and -0.7% respectively. Sub-regional breakdowns of information from the Sensitive Ecosystem Inventory are provided in Attachment 2 and will be made available on the Metro Vancouver website in a format suitable for a public audience. Staff recommend Alternative 1, that the MVRD Board receive the Sensitive Ecosystem Inventory update for information and distribute the report to member jurisdiction councils.

Attachments (29630740)

1. Summary of ecosystem loss by Sensitive Ecosystem Inventory class
2. Sensitive Ecosystem Inventory Sub-Regional Profiles

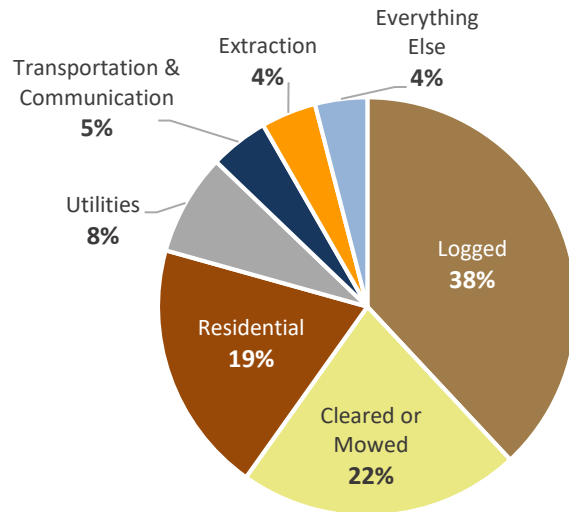
References

1. [Update of the Metro Vancouver Sensitive Ecosystem Inventory](#), dated, June 6, 2018
2. [Metro Vancouver Sensitive Ecosystem Inventory Sub-Regional Profiles \(2013\)](#)

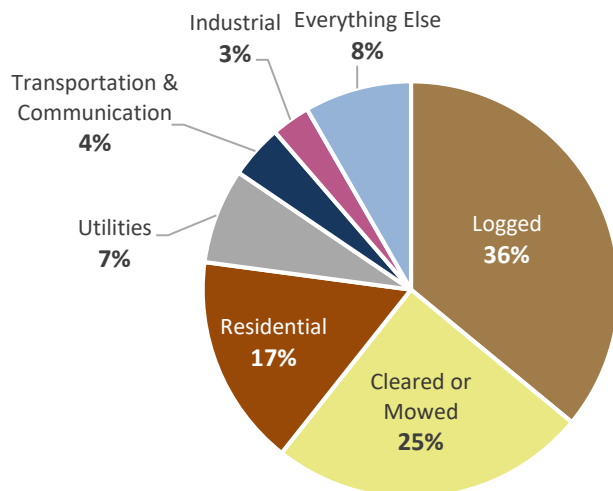
29328558

ATTACHMENT 1**Sensitive Ecosystem Inventory – Causes of Loss by Sensitive or Modified Ecosystem Class**

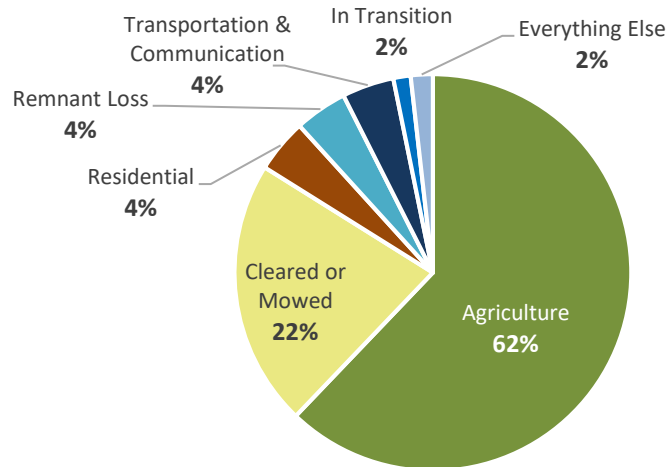
The following charts present the causes of loss for the sensitive and modified ecosystem classes that experienced the highest levels of loss in the 5-year SEI update completed in 2018.



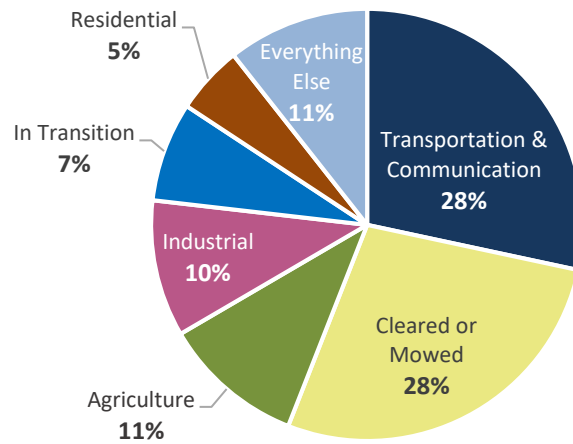
Causes of loss for Mature Forest (80-250 yrs) ecosystems
Loss = 518 ha



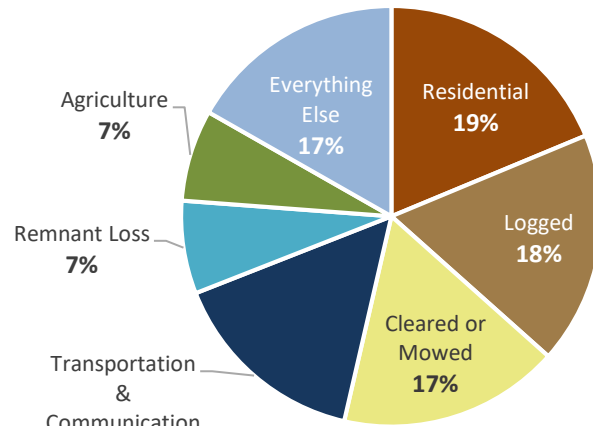
Causes of loss for Young Forest (30-80 yrs) ecosystems
Total = 459 ha



Causes of loss for Old Field ecosystems
Total = 426 ha

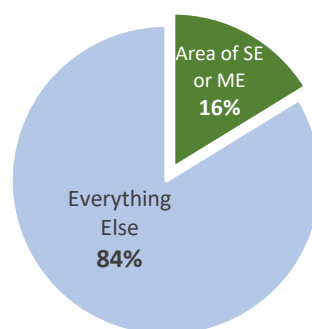
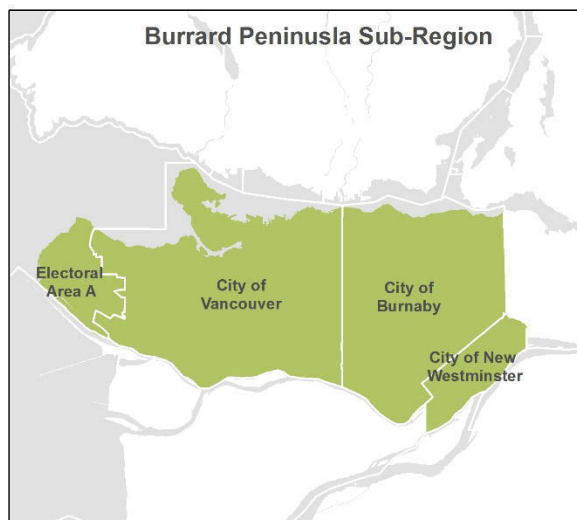


Causes of loss for Wetland ecosystems
Total = 120 ha



Causes of loss for Riparian ecosystems
Total = 96 ha

Sensitive Ecosystem Inventory – Burrard Peninsula Sub-Regional Profile



Proportion of Burrard Peninsula that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

Ecosystem Profile:

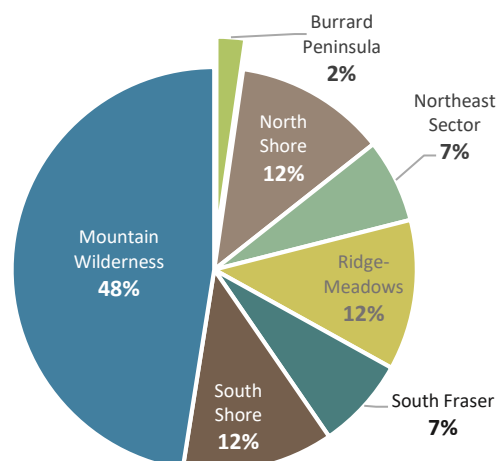
Top 3 Sensitive or Modified Ecosystems in Burrard Peninsula by area	
Mature Forest	1,216 ha
Riparian	1,013 ha
Young Forest	522 ha

Ecosystem Quality:

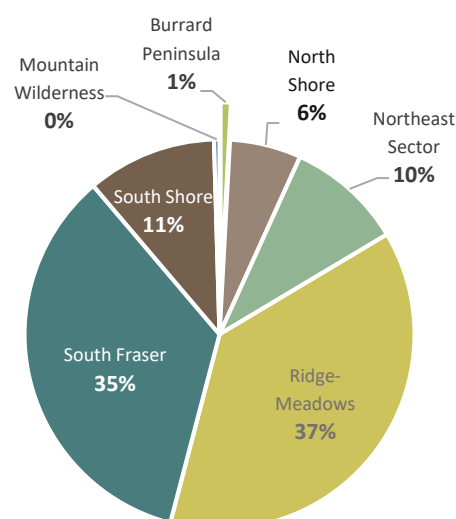
% Ecosystems rated 'Higher Quality' in Burrard Peninsula	44.5%
Change in % of Ecosystems rated 'Higher Quality' in Burrard Peninsula	0%

Ecosystem Loss:

- 14 ha of Sensitive or Modified Ecosystems were lost in Burrard Peninsula
- Sensitive or Modified Ecosystems that experienced the most loss in Burrard Peninsula:
 - 1.2% of Wetland (-6 ha)
 - 0.8% of Young Forest (-4 ha)
 - 0.2% of Mature Forest (-3 ha)
- Top 3 causes of loss in Burrard Peninsula were in transition (construction was in process but the purpose was unclear), transportation and communication, and recreation



Proportion of regional Sensitive or Modified Ecosystems found within the Burrard Peninsula Sub-Region



Proportion of regional loss that occurred within the Burrard Peninsula Sub-Region

Sensitive Ecosystem Inventory – North Shore Sub-Regional Profile



Ecosystem Profile:

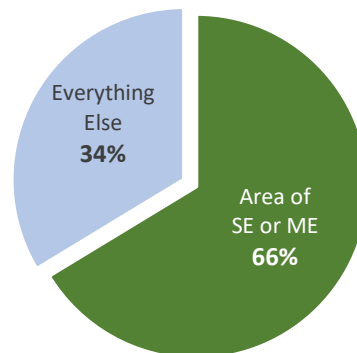
Top 3 Sensitive or Modified Ecosystems in North Shore by area	
Mature Forest	6,856 ha
Young Forest	4,101 ha
Old Forest	3,733 ha

Ecosystem Quality:

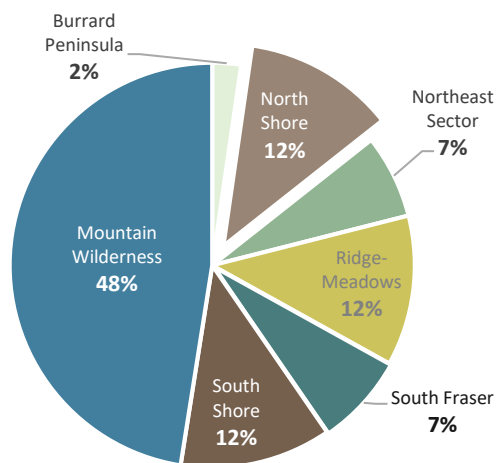
% Ecosystems rated 'Higher Quality' in North Shore	86.2%
Change in % of Ecosystems rated 'Higher Quality' in North Shore	-0.5%

Ecosystem Loss:

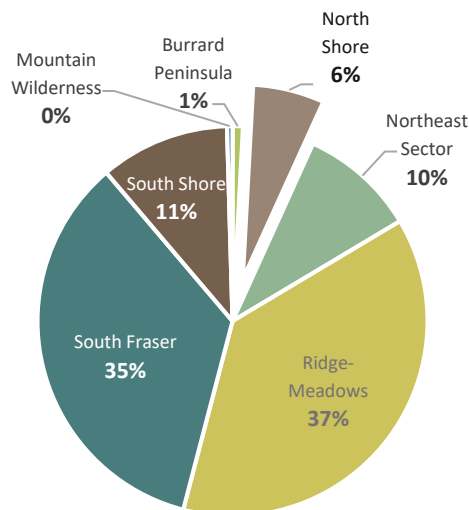
- 97 ha of Sensitive or Modified Ecosystems were lost in North Shore
- Sensitive or Modified Ecosystems that experienced the most loss in North Shore:
 - 1% of Mature Forest (-69 ha)
 - 0.3% of Young Forest (-13 ha)
 - 0.3% of Riparian (-10 ha)
- Top 3 causes of loss in North Shore were clearing and mowing, in transition (construction was in process but the purpose was unclear), and transportation and communication



Proportion of North Shore that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

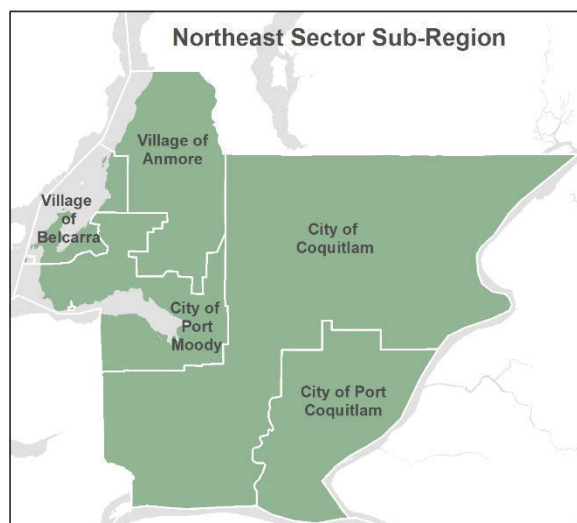


Proportion of regional Sensitive or Modified Ecosystems found within the North Shore Sub-Region



Proportion of regional loss that occurred within the North Shore Sub-Region

Sensitive Ecosystem Inventory – Northeast Sector Sub-Regional Profile



Ecosystem Profile:

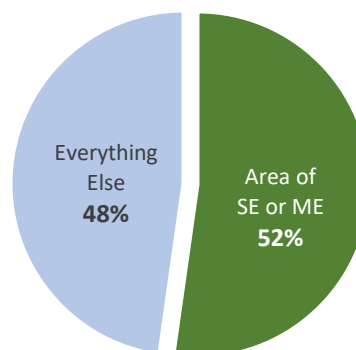
Top 3 Sensitive or Modified Ecosystems in Northeast Sector by area	
Mature Forest	4,057 ha
Riparian	2,684 ha
Young Forest	2,443 ha

Ecosystem Quality:

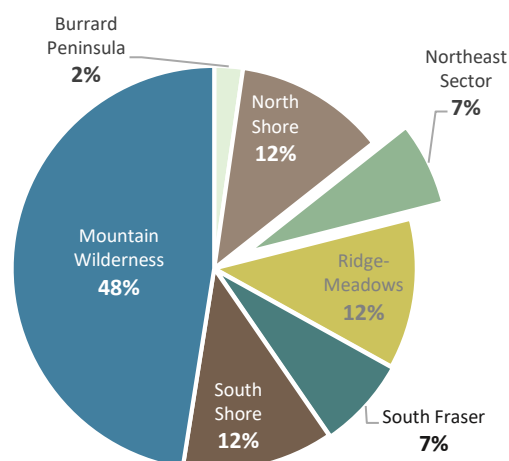
% Ecosystems rated 'Higher Quality' in Northeast Sector	-73.7%
Change in % of Ecosystems rated 'Higher Quality' in Northeast Sector	-0.3%

Ecosystem Loss:

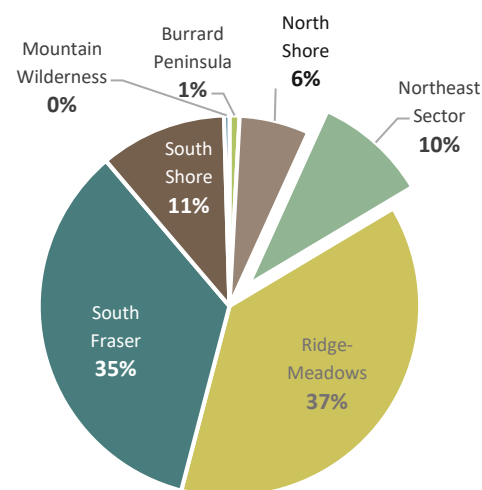
- 158 ha of Sensitive or Modified Ecosystems were lost in Northeast Sector
- Sensitive or Modified Ecosystems that experienced the most loss in Northeast Sector:
 - -2% of Mature Forest (-83 ha)
 - -1.5% of Young Forest (-38 ha)
 - -2.3% of Wetland (-22 ha)
- Top 3 causes of loss in Northeast Sector were residential development, utilities, and extraction



Proportion of Northeast Sector that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

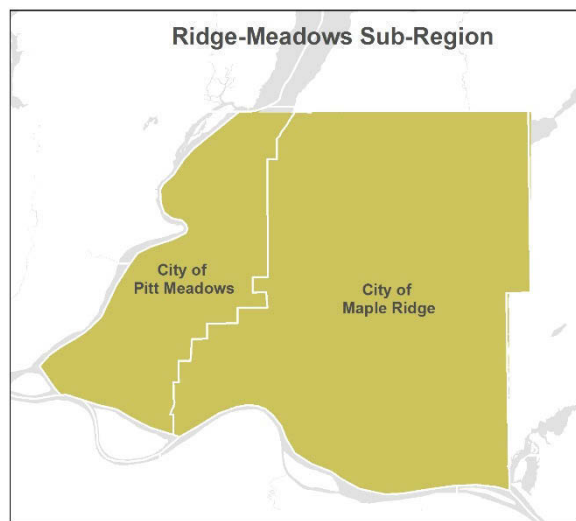


Proportion of regional Sensitive or Modified Ecosystems found within the Northeast Sector Sub-Region



Proportion of regional loss that occurred within the Northeast Sector Sub-Region

Sensitive Ecosystem Inventory – Ridge-Meadows Sub-Regional Profile



Ecosystem Profile:

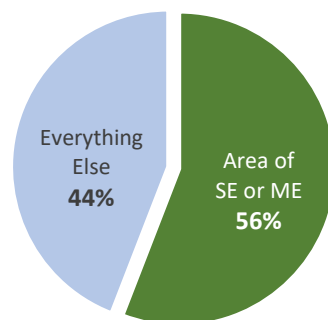
Top 3 Sensitive or Modified Ecosystems in Ridge-Meadows by area	
Mature Forest	6,774 ha
Young Forest	5,056 ha
Riparian	4,435 ha

Ecosystem Quality:

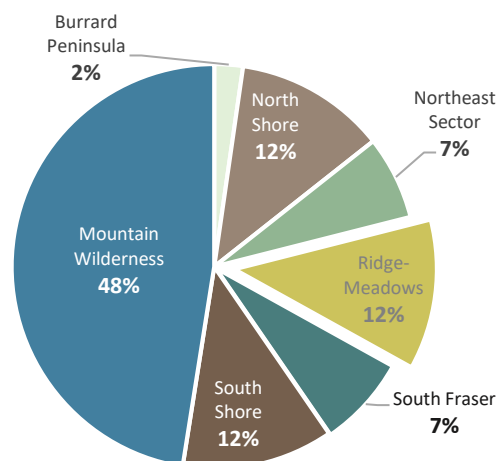
% Ecosystems rated 'Higher Quality' in Ridge-Meadows	78.4%
Change in % of Ecosystems rated 'Higher Quality' in Ridge-Meadows	-1.3%

Ecosystem Loss:

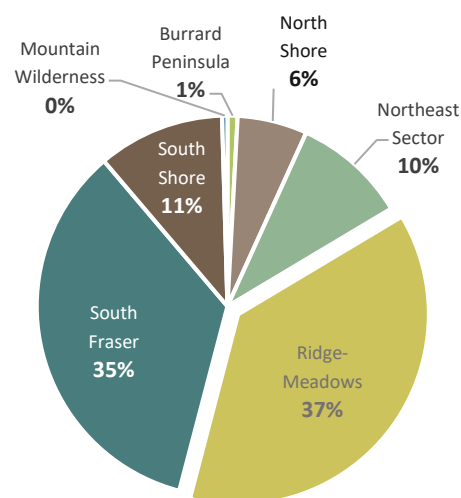
- 616 ha of Sensitive or Modified Ecosystems were lost in Ridge-Meadows
- Sensitive or Modified Ecosystems that experienced the most loss in Ridge-Meadows:
 - -4.3% of Mature Forest (-306 ha)
 - -4.0% of Young Forest (-213 ha)
 - -25.3% of Old Field (-47 ha)
- Top 3 causes of loss in Ridge-Meadows were logging, residential development, and clearing and mowing.



Proportion of Ridge-Meadows that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

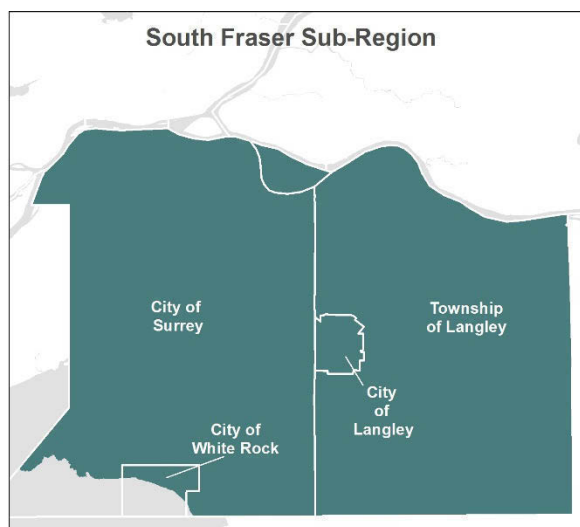


Proportion of regional Sensitive or Modified Ecosystems found within the Ridge-Meadows Sub-Region



Proportion of regional loss that occurred within the Ridge-Meadows Sub-Region

Sensitive Ecosystem Inventory – South Fraser Sub-Regional Profile



Ecosystem Profile:

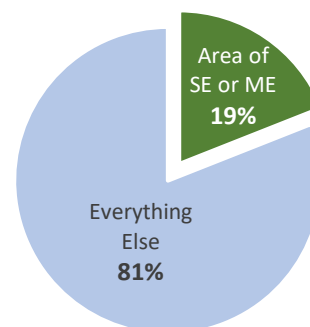
Top 3 Sensitive or Modified Ecosystems in South Fraser by area	
Riparian	4,735 ha
Young Forest	2,164 ha
Wetland	1,952 ha

Ecosystem Quality:

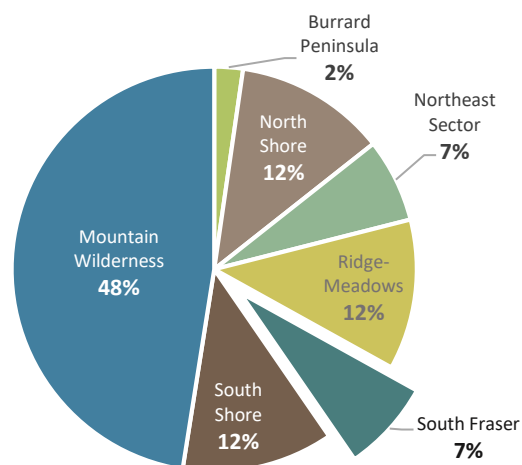
% Ecosystems rated 'Higher Quality' in South Fraser	23.3%
Change in % of Ecosystems rated 'Higher Quality' in South Fraser	-0.4%

Ecosystem Loss:

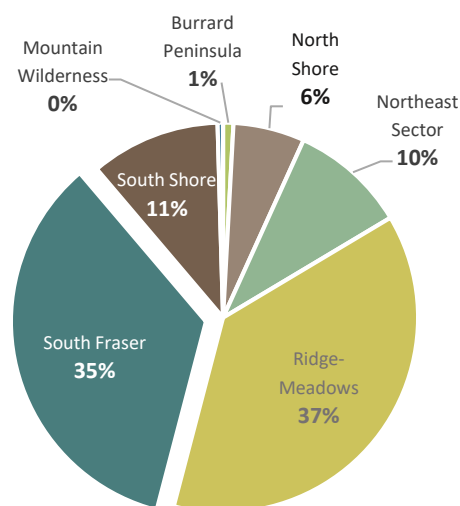
- 568 ha of Sensitive or Modified Ecosystems were lost in South Fraser
- Sensitive or Modified Ecosystems that experienced the most loss in South Fraser:
 - -24.1% of Old Field (270 ha)
 - -7.8% of Young Forest (184 ha)
 - -4.6% of Mature Forest (54 ha)
- Top 3 causes of loss in South Fraser were agriculture, clearing and mowing, and residential development



Proportion of South Fraser that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)



Proportion of regional Sensitive or Modified Ecosystems found within the South Fraser Sub-Region



Proportion of regional loss that occurred within the South Fraser Sub-Region

Sensitive Ecosystem Inventory – South Shore Sub-Regional Profile



Ecosystem Profile:

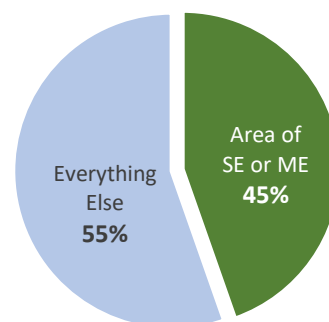
Top 3 Sensitive or Modified Ecosystems in South Shore by area	
Estuarine	7,139 ha
Intertidal	6,559 ha
Riparian	3,661 ha

Ecosystem Quality:

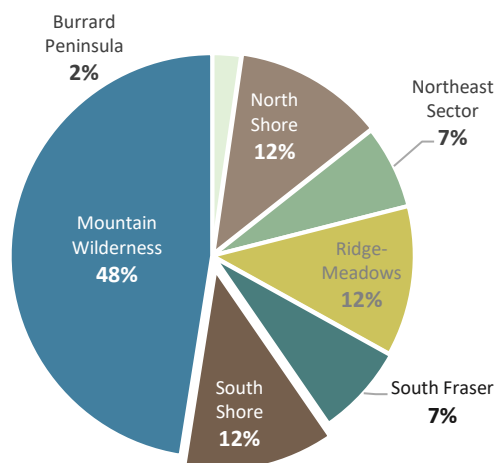
% Ecosystems rated 'Higher Quality' in South Shore	86.2%
Change in % of Ecosystems rated 'Higher Quality' in South Shore	-0.1%

Ecosystem Loss:

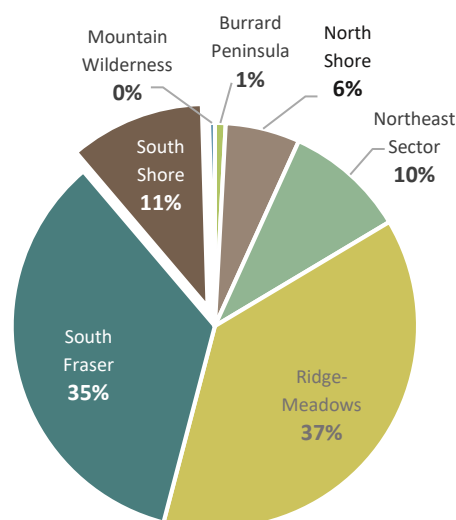
- 176 ha of Sensitive or Modified Ecosystems were lost in South Shore
- Sensitive or Modified Ecosystems that experienced the most loss in South Shore:
 - 18.9% of Old Field (106 ha)
 - 1.8% of Wetland (57 ha)
 - 0.2% of Riparian (8 ha)
- Top 3 causes of loss in South Shore were agriculture, clearing or mowing, and transportation and communication.



Proportion of South Shore that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

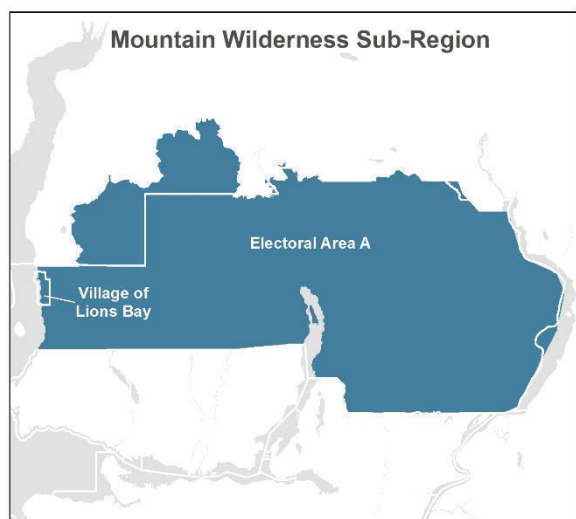


Proportion of regional Sensitive or Modified Ecosystems found within the South Shore Sub-Region



Proportion of regional loss that occurred within the South Shore Sub-Region

Sensitive Ecosystem Inventory – Mountain Wilderness Sub-Regional Profile



Ecosystem Profile:

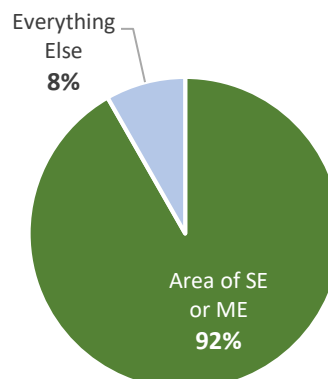
Top 3 Sensitive or Modified Ecosystems in Mountain Wilderness by area	
Old Forest	28,737 ha
Alpine	13,635 ha
Riparian	10,548 ha

Ecosystem Quality:

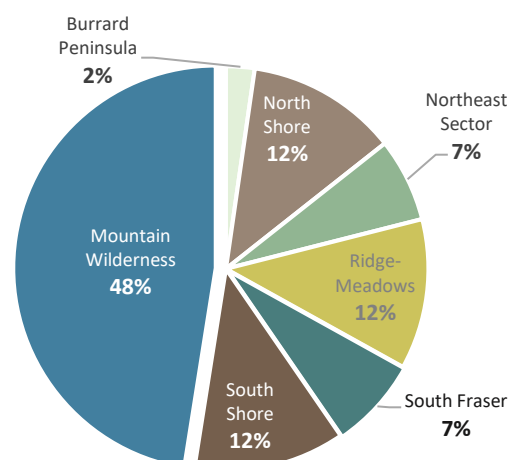
% Ecosystems rated 'Higher Quality' in Mountain Wilderness	98.4%
Change in % of Ecosystems rated 'Higher Quality' in Mountain Wilderness	-0.02%

Ecosystem Loss:

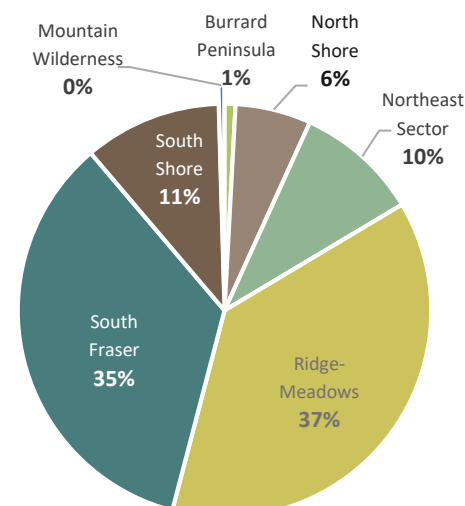
- 7 ha of Sensitive or Modified Ecosystems were lost in Mountain Wilderness
- Sensitive or Modified Ecosystems that experienced the most loss in Mountain Wilderness:
 - 0.1% of Young Forest (3.6 ha)
 - 0.1% of Mature Forest (3 ha)
 - 0.02% of Woodland (0.7 ha)
- The 2 causes of loss in Mountain Wilderness were clearing and mowing, and transportation and communication



Proportion of Mountain Wilderness that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

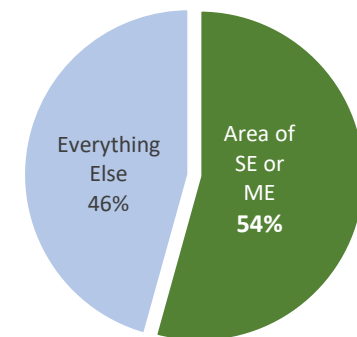
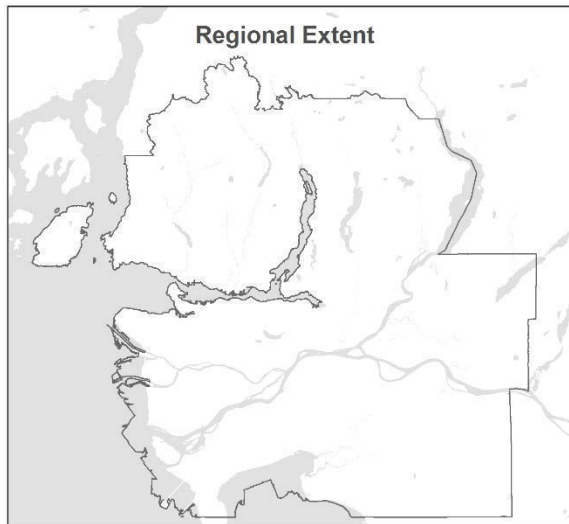


Proportion of regional Sensitive or Modified Ecosystems found within the Mountain Wilderness Sub-Region



Proportion of regional loss that occurred within the Mountain Wilderness Sub-Region

Sensitive Ecosystem Inventory - Regional Profile



Proportion of the region that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

Ecosystem Profile:

Top 3 Sensitive or Modified Ecosystems in the region by area	
Old Forest	34,332 ha
Riparian	30,611 ha
Mature Forest	26,089 ha

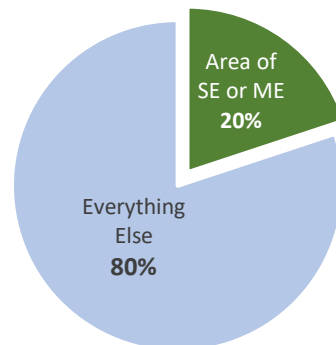
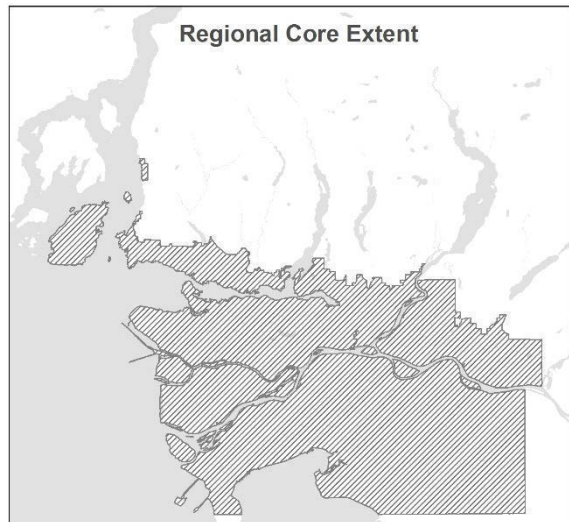
Ecosystem Quality:

% Ecosystems rated 'Higher Quality' in the region	84.7%
Change in % of Ecosystems rated 'Higher Quality' in the region	-0.28%

Ecosystem Loss:

- 1,640 ha of Sensitive or Modified Ecosystems were lost in the region
- Sensitive or Modified Ecosystems that experienced the most loss in the region:
 - -1.9% of Mature Forest (-518 ha)
 - -2.1% of Young Forest (-459 ha)
 - -20% of Old Field (-426 ha)
- Top 3 causes of loss in the region were logging, clearing and mowing, and agriculture

Sensitive Ecosystem Inventory – Regional Core Profile



Proportion of the regional core that is a Sensitive Ecosystem (SE) or Modified Ecosystem (ME)

Ecosystem Profile:

Top 3 Sensitive or Modified Ecosystems in the regional core by area	
Mature Forest	9,614 ha
Riparian	7,902 ha
Wetland	6,780 ha

Ecosystem Quality:

% Ecosystems rated 'Higher Quality' in the regional core	39.1%
Change in % of Ecosystems rated 'Higher Quality' in the regional core	-0.7%

Ecosystem Loss:

- 1,189 ha of Sensitive or Modified Ecosystems were lost in the regional core
- Sensitive or Modified Ecosystems that experienced the most loss in the regional core:
 - -20% of Old Field (-426 ha)
 - -3.1% of Mature Forest (-303 ha)
 - -4.7% of Young Forest (-261 ha)
- Top 3 causes of loss in the regional core were clearing and mowing, agriculture, and residential development

From: [Ron McLaughlin](#)
To: [Municipal](#); [Shawna Gilroy](#)
Cc: [Council @ Lions Bay](#); [Peter DeJong](#)
Subject: Fw: invitation to the North Shore Sea to Sky Community Based Seniors Services (CBSS) Community Consultation
Date: Friday, May 31, 2019 6:36:25 PM

I don't know if everyone got copy of this so have sent it around.

Shawna please add this to the correspondence of the 25th. Thank you.

Council members if you have an interest in going please electronically sign up.

Regards,

Ron McLaughlin

Mayor

The Village of Lions Bay

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0, Canada

Tel: (604) 921-9333 | Cell: (604) 353-7138 | www.lionsbay.ca

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you'd notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay ("Municipality") until contracted. This email is the property of the Municipality and may not be reproduced or further disseminated in whole or part without the Municipality's consent. It may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality.

From: Annwen Loverin <annwen@silverharbourcentre.com>

Sent: Friday, May 31, 2019 2:26 PM

To: Annwen Loverin

Subject: invitation to the North Shore Sea to Sky Community Based Seniors Services (CBSS) Community Consultation

Dear colleague,

On behalf of the United Way of the Lower Mainland, West Vancouver Seniors' Activity Centre, and Silver Harbour Seniors' Activity Centre, I'm sending you an invitation to the upcoming North Shore/Sea to Sky Community Based Seniors Services (CBSS) Community Consultation. It's taking place on Wednesday, June 26th from 9:00 am to 3:30 pm at the Gleneagles Clubhouse, 6190 Marine Drive, in West Vancouver.

This consultation is part of a province-wide initiative this spring to connect with Community Based Seniors Services (CBSS) staff and volunteers, and others working in the sector who share our interest in healthy aging, at home and in community. These sessions provide a valuable opportunity to:

- meet other CBSS organizations,

- get updated on provincial, regional, and local Healthy Aging activity, and
- contribute information, ideas, and priorities to the development of training, tools, and planning.

This year, regional consultations include:

- a tour of the new online CBSS knowledge hub: Healthy Aging CORE (Collaborative Online Resources and Education),
- exploration of asset-based approaches to addressing ageism, including discussion, tools, and resources aimed at “Rethinking Aging – Thriving Across the Life Course,”
- an introduction to the six Provincial Working Groups (Seniors’ Housing; Nutritional Supports; Seniors Community Action Committees; Rural and Remote Communities; Inter-Faith/Inter-Cultural Communities; and Information, Referral, and Personal Advocacy) and an opportunity to share relevant local issues/ opportunities to help inform their work, and
- the opportunity to connect with peers and learn about other programs and plans in your region (feel free to bring brochures, program information or contact information to put on the registration table)

I hope you will join us and/or share this invitation with others in your organization or community who would be interested in participating in the event.

To register or for more information, please go to:

<https://www.eventbrite.com/e/north-shore-sea-to-sky-cbss-community-consultation-tickets-61700819813>

Hope to see you there,

Annwen.

Annwen Loverin
Executive Director

Silver Harbour Seniors' Activity Centre

Supporting and encouraging the well-being of adults 55 plus

144 East 22nd St
North Vancouver BC V7L 4L5
Tel: 604-980-2474
Fax: 604-980-6003
annwen@silverharbourcentre.com
www.silverharbourcentre.com

THE CITY OF VICTORIA



OFFICE OF THE MAYOR

May 29, 2019,

To The Union of British Columbia Municipalities,

I am writing on behalf of Victoria City Council, requesting favourable consideration and resolutions of support to restore Provincial support for libraries.

At the May 23, 2019 Council Meeting, Council approved the following resolution:

WHEREAS WHEREAS libraries are a social justice equalizer that provide universal access to information and learning materials irrespective of income levels;

WHEREAS libraries are now so much more than books, building community and a sense of inclusion;

WHEREAS restoring funding to libraries supports the BC Government's agenda to eliminate poverty, improve access to education, and address social justice in BC;

WHEREAS funding rates have been frozen since 2009 and inflationary costs have increasingly been put on municipal property tax payers which is a regressive approach to funding public libraries;

WHEREAS municipalities face downloading from upper levels of government and have few tools to raise funds,

THEREFORE BE IT RESOLVED that Council request the Mayor write to the Minister of Education, the Premier, and all local MLAs strongly advocating for the restoration of library funding to a level that reflects both inflationary cost increases since 2009 and the value of this system to the Province.

BE IT FURTHER RESOLVED that this resolution be forwarded to other municipalities in the Capital Regional District and across BC requesting their favourable consideration.

We eagerly look forward to your support on this matter.

Sincerely,

Lisa Helps
Victoria Mayor

Office of the Commissioner/Chief Administrative Officer
Tel. 604 432-6210 Fax 604 451-6614

MAY 30 2019

File: CP-20-02

Peter DeJong, Chief Administrative Officer
Village of Lions Bay
400 Centre Road
P.O. Box 141
Lions Bay, BC V0N 2E0
VIA EMAIL: admin@lionsbay.ca

Dear Mr. DeJong:

Re: Metro Vancouver Regional Greenways Plan Update

At its April 26, 2019 regular meeting, the Board of Directors of Metro Vancouver Regional District (Metro Vancouver) considered a report outlining a public engagement process to initiate an update to Metro Vancouver Regional Parks *Regional Greenways Plan*. The following resolution was approved by the Board:

That the MVRD Board authorize staff to proceed with the public engagement process as presented in the report dated March 5, 2019, titled "Metro Vancouver Regional Greenways Plan Update".

As a key regional stakeholder in the provision and support of recreational trails, tourism and active transportation, the purpose of this letter is to invite your organization to participate in the update of the *Regional Greenways Plan*.

Metro Vancouver Regional Greenways Plan

The update to the *Regional Greenways Plan* is an outcome of the *Regional Parks Land Acquisition 2050 Strategy*, adopted by the Metro Vancouver Board on June 22, 2018. During the development of the land acquisition strategy, a consistent message heard from member jurisdictions was the key role Metro Vancouver had in maintaining the region's joint vision for a system of recreational greenways. As the original vision is almost two decades old, Metro Vancouver is commencing an update of this plan.

The goal of this process is to meet with your organization to gather input on:

- your organisation's recreational greenway and trail planning and development program, including major proposed new and expanded greenways / trails;

28952985

- the manner in which the regional and municipal greenways and trails systems can function together with other public infrastructure such as bridges and ferries to support outdoor recreation;
- the manner in which the regional and municipal greenways and trails systems can function together to support ecological diversity and connect the growing population to nature; and
- a draft planning framework that includes a vision, goals, criteria for inclusion and a proposed regional recreational greenways network.

In order to facilitate this process, we ask that you provide an appropriate staff contact to Craig Sobering with Metro Vancouver Regional Parks. Metro Vancouver's goal is to complete these meetings by the summer of 2019. We look forward to your participation in updating the *Regional Greenways Plan* for Metro Vancouver.

If your staff have any questions or would like further information regarding this initiative, please contact Craig Sobering, Regional Parks System Planner, at 604-432-6357 or by email at craig.sobering@metrovancouver.org.

Yours sincerely,



Carol Mason
Commissioner / Chief Administrative Officer

CM/RC/cs

28952985

From: [Lions Bay Reception](#)
To: [Municipal](#)
Subject: FW: 2019 UBCM Convention – Meeting Requests with Premier Horgan and Provincial Cabinet Ministers and the Minister of Municipal Affairs and Housing
Date: Tuesday, June 11, 2019 10:28:09 AM
Attachments: [image002.png](#)
[image001.png](#)
[Premier Horgan Letter_Mayors and Regional District Chairs.pdf](#)
[246893 Minister Robinson Letter_Mayors and Regional District Chairs.pdf](#)

For Incoming Correspondence for next Council Meeting

Susan Loutet

Administrative Assistant

The Municipality of the Village of Lions Bay. www.lionsbay.ca

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0 CANADA

Tel: (604) 921-9333 ext. 1000 | Fax: (604) 921-6643

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you'd notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay ("Municipality") until contracted. This email is the property of the Municipality and may not be reproduced or further disseminated in whole or part without the Municipality's consent. It may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality.

From: 2019 MAH UBCM Meeting Requests MAH:EX <MAH.UBCM.MeetingRequests@gov.bc.ca>
Sent: Tuesday, June 11, 2019 10:02 AM
To: 2019 MAH UBCM Meeting Requests MAH:EX <MAH.UBCM.MeetingRequests@gov.bc.ca>
Subject: 2019 UBCM Convention – Meeting Requests with Premier Horgan and Provincial Cabinet Ministers and the Minister of Municipal Affairs and Housing

This message is being sent by the Ministry of Municipal Affairs and Housing to all Union of BC Municipalities (UBCM) members and Regional Districts on behalf of the Honourable John Horgan, Premier, and the Honourable Selina Robinson, Minister of Municipal Affairs and Housing.

Subject: 2019 UBCM Convention – Meeting Requests with Premier Horgan and Provincial Cabinet Ministers and the Minister of Municipal Affairs and Housing
Intended Recipient(s): Mayors/Regional District Chairs/Islands Trust Chair/CAOs and cc: General Email
Attachments: Two (2) plus message below

If you have received this message in error, we ask that you forward it to the appropriate person in your office.

MESSAGE:

Please see the attached letters from Premier Horgan and Minister Robinson with regards to this

year's UBCM Convention. These letters outline the process for requesting a meeting with the Premier and Cabinet Ministers.

For requesting meetings with the Premier and Cabinet Ministers (not including Minister of Municipal Affairs and Housing) please use the online form at:

<https://UBCMreg.gov.bc.ca>

(invitation code: **MeetingRequest2019** is case sensitive)

If you have questions please contact the Premier's UBCM Meeting Request Coordinator by email at: UBCM.Meetings@gov.bc.ca, or by telephone: 250 213-3856.

Please note as in previous years, meetings with the Minister of Municipal Affairs and Housing (MAH) are scheduled directly with that Ministry.

For requesting meetings with the Minister of Municipal Affairs and Housing, please use the online meeting request form at:

[Minister of Municipal Affairs and Housing Meetings](#)

If you have questions, please contact the MAH UBCM Meeting Coordinator, Nicole Gibbings by email at: MAH.UBCM.MeetingRequests@gov.bc.ca or by phone at 778-698-3203.

Thank you.

* Contact information is provided by CivicInfo BC. To ensure you receive all relevant communications please ensure the contact information for your organization is updated regularly.



June 10, 2019

Dear Mayors and Regional District Chairs:

My caucus colleagues and I are looking forward to seeing you all again at this year's Union of British Columbia Municipalities (UBCM) Convention in Vancouver from September 23-27.

Resiliency and Change, the theme for the 2019 Convention, is indeed an appropriate focus as communities throughout our province are experiencing change on issues ranging from the impacts of climate change to economic pressures. UBCM provides a wonderful opportunity to listen to one another, share ideas, and find new approaches to ensure our communities thrive. With local, provincial, federal, and First Nations governments working together, we can continue to build a better BC.

If you would like to request a meeting with a Cabinet Minister or with me during this year's convention, please register online at <https://ubcmreg.gov.bc.ca/> (live, as of today). Please note that this year's invitation code is **MeetingRequest2019** and it is case sensitive. If you have any questions, please contact UBCM.Meetings@gov.bc.ca or phone 250-213-3856.

I look forward to being part of your convention, meeting with many of you, and exploring ways that we can partner together to address common issues.

Sincerely,

A handwritten signature in blue ink that reads 'John J. Horgan'.

John Horgan
Premier



June 10, 2019

Dear Mayors and Regional District Chairs:

I am pleased to provide you with the following information regarding the process for requesting a meeting with me during the annual UBCM Convention taking place this year from September 23 to 27, 2019 in Vancouver, British Columbia.

You will receive a separate letter from the Honourable John Horgan, Premier, containing information about the online process for requesting a meeting with Premier Horgan and other Cabinet ministers.

If you would like to meet with me at the Convention, please complete the online request form at: [MAH Minister's Meeting](#) and submit it to the Ministry of Municipal Affairs and Housing before **July 17, 2019**. Meeting arrangements will be confirmed by early September. I will do my best to accommodate as many meeting requests as possible.

To get the most out of your delegation's meeting with me, it would be helpful for you to provide as much detail as possible in the online form on the topic you wish to discuss. This will enable me to have a better understanding of your delegation's interests so that our discussions can be more productive.

Ministry staff will soon email you the Provincial Appointment Book. This lists all government, agency, commission, and corporation staff who are expected to be available to meet with delegates at the Convention, as well as details on how to request a meeting with staff online.

This will be my third UBCM Convention as Minister responsible for local government, and I appreciate the collaboration and partnerships that we have built over these last several years. I look forward to hearing more about your challenges and accomplishments as we continue our work together to make life better for all British Columbians.

Sincerely,

A handwritten signature in blue ink, appearing to read 'Selina Robinson'.

Selina Robinson
Minister

pc: Honourable John Horgan, Premier
Arjun Singh, President, Union of British Columbia Municipalities

From: [Shawna Gilroy](#)
To: [Shawna Gilroy](#)
Subject: FW: 2019 UBCM Convention - Provincial Appointment Book and Meeting Request Process for Meetings with Provincial Government Staff
Date: Friday, June 14, 2019 11:35:28 AM
Attachments: [2019 UBCM Provincial Appointment Book.pdf](#)

From: 2019 MAH UBCM Meeting Requests MAH:EX <MAH.UBCM.MeetingRequests@gov.bc.ca>
Sent: Tuesday, June 11, 2019 1:28 PM
To: 2019 MAH UBCM Meeting Requests MAH:EX <MAH.UBCM.MeetingRequests@gov.bc.ca>
Subject: 2019 UBCM Convention - Provincial Appointment Book and Meeting Request Process for Meetings with Provincial Government Staff

This message is being sent to all UBCM Member Municipalities, Regional Districts and First Nations on behalf of the Ministry of Municipal Affairs and Housing.

Subject: 2019 UBCM Convention - Provincial Appointment Book and Meeting Request Process for Meetings with Provincial Government Staff
Intended Recipient(s): Mayors/Regional District Chairs/Islands Trust Chair/CAOs and cc: General Email Chiefs and Chief Councillors and cc: Secretaries and Alternates
Attachments: One (1) plus message below

If you have received this message in error, we ask that you forward it to the appropriate person in your office.

MESSAGE:

2019 UBCM Convention – Vancouver, September 23 – 27, 2019

Further to Minister Robinson's June 10, 2019 letter regarding the 2019 UBCM Convention, I am pleased to attach the 2019 Provincial Appointment Book for your use in requesting meetings with provincial government staff (ministries, agencies, commissions and corporations – MACCs) available to meet with delegates at Convention.

To request a meeting, please complete the form located at: [Provincial Government Staff \[MACC\] Meetings](#).

The deadline for submitting online meeting requests is **Friday, August 23, 2019**. Meeting confirmation details will be sent to the contact identified on your meeting request form.

After August 23, 2019, requests for appointments can be made at the Provincial Appointments Desk, during Convention at the following locations:

Monday, September 23, 2019 to Tuesday, September 24, 2019

Vancouver Convention Centre, East Building - Lobby

8:30 am – 4:00 pm

Wednesday, September 25, 2019 to Thursday, September 26, 2019

Vancouver Convention Centre, East Building – Exhibition Hall C

8:30 am – 4:00 pm

For information on requesting meetings with the Premier/Cabinet Ministers, and for the Honourable Selina Robinson, Minister of Municipal Affairs and Housing, please see the attached 2018 Provincial Appointment Book (page 2).

If you have any questions, please contact Laura Smith, by telephone at: 778 698-3263, or by email at: MAH.UBCM.MeetingRequests@gov.bc.ca. Thank you.

Regards,

B. Schmidt

Birgit Schmidt (MAH UBCM Convention Coordinator)

Director, Operations and Client Relations

Local Government Division | Ministry of Municipal Affairs and Housing

Phone: 778-698-3260 | E-mail: Birgit.Schmidt@gov.bc.ca

2019 PROVINCIAL APPOINTMENT BOOK

**Meeting Requests with
Provincial Government Staff
from Ministries, Agencies, Commissions and
Corporations (MACC)
at the**

2019 UBCM CONVENTION

**September 23 – 27, 2019
Vancouver Convention Centre
Vancouver, British Columbia**



Introduction.....	2
Meeting Requests.....	2
Honourable John Horgan, Premier and Cabinet Ministers (<i>except Minister of Municipal Affairs and Housing</i>).....	2
Honourable Selina Robinson, Minister of Municipal Affairs and Housing	2
Provincial Government Staff <i>Ministries, Agencies, Commissions and Corporations (MACC)</i>	2
Ministries, Agencies, Commissions and Corporations (MACC) Meeting Information	3
Ministry of Advanced Education, Skills and Training.....	4
Ministry of Agriculture.....	4
Ministry of Attorney General.....	5
Ministry of Attorney General Continued... ..	6
Ministry of Children and Family Development.....	7
Ministry of Children and Family Development Continued... ..	8
Ministry of Citizens' Services	9
Ministry of Education	10
Ministry of Energy, Mines and Petroleum Resources	10
Ministry of Energy, Mines and Petroleum Resources Continued.....	11
Ministry of Environment and Climate Change Strategy	12
Ministry of Finance	13
Ministry of Forests, Lands, Natural Resource Operations and Rural Development.....	13
Ministry of Health.....	14
Ministry of Indigenous Relations and Reconciliation	15
Ministry of Jobs, Trade and Technology.....	16
Ministry of Labour	17
Ministry of Mental Health and Addictions	18
Ministry of Municipal Affairs and Housing	18
Ministry of Municipal Affairs and Housing Continued.....	19
Ministry of Public Safety and Solicitor General	19
Ministry of Social Development and Poverty Reduction.....	20
Ministry of Tourism, Arts and Culture	20
Ministry of Transportation and Infrastructure	21
Provincial Agencies, Commissions and Corporations.....	22
Provincial Agencies, Commissions and Corporations Continued... ..	23

The Provincial Appointment Book is provided to help schedule meetings at the 2019 UBCM Convention. All Provincial Government Ministries, Agencies, Commissions and Corporations (MACC) with staff attending the Convention and available to meet with local government delegates, are listed. Links to meeting requests forms with the Premier and Cabinet Ministers, and the Minister of Municipal Affairs and Housing are also included.

Meeting Requests

Honourable John Horgan, Premier and Cabinet Ministers *(except Minister of Municipal Affairs and Housing)*

Click: <https://UBCMreg.gov.bc.ca>

Invitation Code: MeetingRequest2019 *(case sensitive)*

Deadline: Wednesday, July 17, 2019

Questions: Contact the Premier's UBCM Meeting Request Coordinator, by email at: UBCM.Meetings@gov.bc.ca, or by telephone at: 250 213-3856.

Honourable Selina Robinson, Minister of Municipal Affairs and Housing

Click: [Municipal Affairs and Housing Minister's Meeting Requests](#)

Deadline: Wednesday, July 17, 2019

Questions: Contact the Minister's UBCM Meeting Request Coordinator, Nicole Gibbings, by email at: MAH.UBCM.MeetingRequests@gov.bc.ca, or by telephone at: 778 698-3203.

Provincial Government Staff *Ministries, Agencies, Commissions and Corporations (MACC)*

Click: [Provincial Staff \(MACC\) Meeting Requests](#)

Deadline: Friday, August 23, 2019

Questions: Contact the UBCM MACC Meeting Request Coordinator, Laura Smith, by email at MAH.UBCM.MeetingRequests@gov.bc.ca, or by telephone at: 778 698-3263.

Once Provincial Government MACC Staff meetings are scheduled, confirmation will be sent to local governments **via email**.

Ministries, Agencies, Commissions and Corporations (MACC) Meeting Information

ON-SITE PROVINCIAL APPOINTMENTS DESK

Provincial Appointments Desk staff will be available to schedule meetings with Provincial Government MACC Staff at the following locations:

Monday, September 23, 2019 to Tuesday, September 24, 2019

Vancouver Convention Centre, East Building - Lobby

8:30 am – 4:00 pm

Wednesday, September 25, 2019 – Thursday, September 26, 2019

Vancouver Convention Centre, East Building – Exhibition Hall C

8:30 am – 4:00 pm

MEETING LOCATIONS WITH PROVINCIAL GOVERNMENT MACC STAFF AT CONVENTION:

Tuesday, September 24, 2019

Pan Pacific Hotel, R Level – Cypress Suite

Wednesday, September 25, 2019 to Thursday, September 26, 2019

Vancouver Convention Centre, East Building – Exhibition Hall C

Questions: Contact the MACC UBCM Meeting Request Coordinator, Laura Smith, by email at MAH.UBCM.MeetingRequests@gov.bc.ca, or by telephone at: 778 698-3263.

Ministry of Advanced Education, Skills and Training

DIVISION/BRANCH	TOPIC
Governance, Legislation and Corporate Planning Division	Post-secondary governance, legislation, sector quality assurance, private career training regulation, data support, audit, institutional accountability, corporate planning, international education, intergovernmental relations, and sector labour relations.
Post-Secondary Policy and Programs and Division Responsible for Learner Supports	25 public post-secondary institutions and their programs including skills and training, Aboriginal Education, Adult Basic Education, English Language Learning, strategic policy, StudentAid BC, Science, Technology, Engineering and Math (STEM), and medical and health.
Finance, Technology and Management Services and Division Responsible for Student Housing	Operating and capital grants to 25 public post-secondary institutions (PSIs), FTE and PSI financial health monitoring and reporting, Ministry's 10 year capital plan, PSI property acquisition and disposition, manage Ministry budget, maintain Ministry IT systems and digital information security, Administrative Service Delivery Transformation Initiative, lead Ministry's business continuity and emergency response readiness with PSIs. Leading the development of 5000 additional student housing beds on Post-Secondary campuses in B.C.
Workforce Innovation and Division Responsible for Skills Training	Development and management of targeted labour market programs, policies, the dissemination of labour market information, and oversight of the Industry Training Authority to help British Columbians advance their skills and employment and support employers to meet their workforce needs.

Ministry of Agriculture

DIVISION/BRANCH	TOPIC
Food Safety and Inspection Branch	Responsible for administration, compliance and enforcement of provincial legislation related to slaughter of meat, and food safety related to processing of seafood products. Also responsible for administration of food safety programs for farmers, ranchers and food processors under the federal/provincial/territorial Canadian Agricultural Partnerships (CAP) agreement.
Corporate Governance, Policy and Legislation	Responsible for providing corporate planning, resources and services to the Executive and ministry including ministry data reporting and dissemination, policy, legislation, Intergovernmental Relations, trade for agriculture and Seafood policy.
Plant and Animal Health	The Plant and Animal Health Branch supports the sustainability of animal and plant agriculture, while serving to protect the well-being of the people of the province through surveillance, regulatory compliance, risk assessment, and the development of strategies to address identified risks. The Plant and Animal Health Branch consists of three key programs: The Animal Health Centre, the Livestock Management and Regulatory Unit, and the Plant Health Unit.
Innovation and Adaptation Service Branch	Provides innovative solutions to the agriculture, food and seafood sectors as essential parts of the social and economic fabric of B.C.; facilitates competition, adaptation and innovation in response to economic, environmental, social influences and market change.

DIVISION/BRANCH	TOPIC
Associate Deputy Minister's Office	Responsible for oversight of three Crown corporations (ICBC, BC Lottery Corporation and BC Liquor Distribution Branch) and two regulatory agencies (Gaming Policy and Enforcement Branch and Liquor & Cannabis Regulation Branch): -ICBC provides universal auto insurance to B.C. drivers and is responsible for driver licensing and vehicle registration and licensing. -The BC LDB is one of two branches of government responsible for the beverage alcohol industry. It operates 197 BC Liquor Stores, 1 BC Cannabis Store (including its online portal), two Wholesale Customer Centres and four Distribution Centres; it is one of the largest retailers in B.C. -The BC Lottery Corporation conducts and manages gambling in a responsible manner while focusing on innovation, strategic partnerships and community outreach. -The Gaming Policy and Enforcement Branch regulates all gambling in B.C., including both commercial and charitable gambling - Liquor & Cannabis Regulation Branch regulates BC's liquor industries and private retail non-medical cannabis industries. It issues liquor and non-medical cannabis licences and permits, and enforces legislative and regulatory conditions of these licences and permits. The ADMO is also the co-lead (with the Ministry of Public Safety and Solicitor General) for the current Traffic Fine Revenue Sharing agreement consultation.
BC Prosecution Service	Approving and conducting criminal and regulatory prosecutions. Initiating and responding to appeals. Providing criminal law advice to the government. Developing policies and procedures on the administration of criminal justice. Collaborating with partners and stakeholders on justice reform initiatives.
Justice Services Branch	Promoting access to justice through funding and oversight of legal aid programs, collaborative solutions to criminal justice problems through the integration of justice, health and social services, and overseeing the Province's commitment to federal/provincial/territorial criminal justice reform initiatives. Promoting access to justice through dispute resolution alternatives, procedural efficiencies and case management in civil courts, agencies, boards, commissions, tribunals, and government ministries. Facilitating resolution of family disputes and operating justice access centres, family justice centres and the Parenting After Separation program. Facilitating the successful payment of child and spousal support orders in the province through Maintenance Enforcement and Locate Services. Co-leading the partnership between the province and the BC Aboriginal Justice Council to collaboratively develop a future-focused Indigenous Justice Strategy and implement a portfolio of projects intended to realize the vision. The Indigenous Justice Strategy endeavours to reduce the overrepresentation of Indigenous people in the justice system as well as improve experiences within the justice system. Coordinating regular Justice Summits to consult with major justice participants and stakeholders.

Court Services Branch	Court Services Branch includes court administration, the BC Sheriff Service, and Headquarters. Court Administration includes court clerks and registry staff. Registry staff are responsible for accepting and processing court documents and forms filed in all three levels of court in the areas of criminal, civil, family, divorce, adoption, probate and bankruptcy law. Court clerks are responsible for accurately capturing detailed information for court appearances that occur in courtrooms province-wide, while managing the flow of cases in court and supporting the judiciary. The BC Sheriff Service (BCSS) is responsible for ensuring the safety and security of the public, the judiciary, crown counsel and CSB staff in courthouses and other court venues across the province. Duties include escorting accused persons, convicted persons and persons confined under the <i>Mental Health Act</i> between court locations and correctional institutions as well as escort to hospitals. BCSS oversees the jury administration and selection process for Supreme Court criminal and civil trials as well as Coroner's Inquests. They also conduct threat assessments for high-security/high-profile trials and individuals through the Integrated Threat Assessment Unit. CSB Headquarters supports day-to-day frontline service and undertakes financial management, data analytics, facilities planning, and human resource support as well as business and technology transformation, policy/ legislative development, and training.
Legal Services Branch	Responsible for advising the B.C. government, its ministers and officials on all matters of law. LSB provides legal and legislative services to government and supports the Attorney General in his role as official legal advisor to government.

DIVISION/BRANCH	TOPIC
Strategic Priorities / Strategic Initiatives	The Strategic Initiatives Branch is responsible for leadership, oversight and coordination of key ministry priorities and leads a variety of complex, large-scale and cross-divisional projects in collaboration across the ministry. The branch's current projects are: • reviewing funding provided to Family-Based Caregivers; • improving Youth Transitions; • supplementary youth-focused projects
Strategic Priorities/ Strategic Services Branch	The Strategic Services Branch consists: Strategic Planning & Engagement, Project Management & Lean Services, Implementation and Change Management, Intergovernmental Relations: Strategic Planning & Engagement directs planning, reporting, internal communications and staff engagement. This team provides strategic advice to executive; leads ministry-wide planning and assists divisions when required; reports on priority initiatives; directs internal engagement; and manages internal web services. Project Management & Lean Services supports the development of new projects and the continuous improvement of existing ministry services and programs. This team handles priority projects; promotes project management practice; helps divisions streamline processes; facilitates Lean and project management capacity building; and creates and provides resources for Lean improvement. Implementation & Change Management coordinates the rollout of new initiatives and plans for their human impact. This team develops the quarterly Implementation Schedule; manages implementation through the Implementation Table; communicates priorities ministry-wide; develops plans for engaging and supporting staff during change; supports leaders managing organizational transitions; offers training and online tools for change management; and measures impact of implementation and change activities. Intergovernmental Relations supports the ministry's formal relations and executive engagements with other governments. This team provides leadership in intergovernmental collaborations; leverages opportunities to advance ministry priorities; contributes to the development of positions; manages contributions to national and international reporting; and shares developments in social sectors of other governments.
Strategic Priorities/ Strategic Integration Branch	The Strategic Integration Branch works collaboratively with senior leadership and subject matter experts across the ministry and within the division to enhance collaboration and integration across the four strategies of the Strategic Framework. The branch is responsible for: tracking, issues management and reporting of key Framework milestones and deliverables; ensuring the voice of Service Delivery Division and Practice is included in the development and implementation of the Framework; and oversight and coordination of consultations across the ministry on all major strategies and work plans.

Policy and Legislation	Child Welfare and Adoption Policy. Child and Youth Mental Health Policy and school-based mental health (EASE program) Legislation and Litigation. Research, including the ministry's research approval process
Early Years and Inclusion	The Early Years and Inclusion Division leads the development and implementation of BC's Childcare BC plan, policy and provincially-delivered programs for the early years and children and youth with special needs. Childcare BC: • New Spaces Fund • Funding for UBCM Child Care New Spaces Grants • Funding for UBCM Child Care Planning Grants • BC Maintenance Fund • Start-up Grants • Child Care Fee Reduction Initiative • Affordable Child Care Benefit • Child Care Operating Funding • Early Childhood Educator (ECE) Wage Enhancement • Funding for ECE Bursaries • ECE Registry Early Years Policy and Programs: • Early Years Service Framework • Aboriginal Service Innovations – Early Years grants • Aboriginal Head Start Policy and Provincial Programs for Children and Youth with Special Needs (CYSN): • CYSN Service Framework • Autism Funding Program • Medical Benefits Program • Autism Information Services Provincial Deaf and Hard of Hearing Services
Service Delivery Division	Service Delivery Division is committed to providing children, youth and families across the province with an effective, integrated and coordinated service delivery system. The division is responsible for the delivery of community services, working closely with Delegated Aboriginal Agencies, foster caregivers and the community social service sector. Divisional staff also work in collaboration with other ministry divisions, social sector partners, schools, Health Authorities, and First Nations communities to implement ministry and government strategic initiatives.

DIVISION/BRANCH	TOPIC
Corporate Information and Records Management Office	Provides corporate information management services to government including: Freedom of Information; proactive disclosures of information; privacy, records management and elements of information security. Additional related responsibilities include the development of corporate information management strategies, legislation, policies, standards, training and compliance.
Service BC (SBC)	Service BC is government's chief provider of citizen and business centred services. The division enables the design and delivery of accessible, responsive and cost-effective services, making it easier for citizens and businesses to interact with government. Through a provincial network of 65 offices and the provincial contact center, SBC provides hundreds of services for more than 30 partner ministries and agencies. These services can range from improving citizens' experiences accessing income assistance services through partnership with Ministry of Social Development and Poverty Reduction to the renewal of a driver's licence on behalf of ICBC. Through BC Registries and Online Services, we register and maintain businesses, societies and personal property through BC online and other online services. SBC also delivers secure and privacy-enhancing identity services for citizens and businesses to support access to digital government services and information.
Procurement and Supply	The Division plays a leadership role in government procurement and supply services. These activities serve the provincial government, the broader public sector, the public and, in some cases, municipalities. For example, municipalities use BC Bid to provide vendors with information on upcoming procurement operations and Asset Investment Recovery to dispose of municipal surplus assets in a convenient, environmentally friendly manner that returns a fair market value to the municipality.
Real Property	The Real Property Division provides everything needed to design, set up and manage a government workplace. RPD is responsible for the Province's real estate portfolio (excluding schools, post-secondary institutions and hospitals), office space inventory, parking, related legislation, furniture procurement, project and construction management, and real estate services for special-purpose facilities (such as courthouses, laboratories and correctional facilities). RPD provides cost-effective services for environmental management, leasing, facilities management, strategic real estate advice, acquisitions, dispositions and workplace planning. RPD's client base includes ministry (mandated) as well as broader sector (voluntary) customers.
Office of Chief Information Officer	The OCIO supports the transformation of government services through integration, collaboration and innovation. It leads strategy, policy and standards that support digital government and information management including information technology, IT security, integrated data, privacy and the management of the Information Management/IT investment portfolio for the Province. The OCIO is responsible for the Province's technology infrastructure and provides a range of corporate enablers to support digital service delivery and business transformation for government and Broader Public Sector organizations.
Information, Communication and Technologies	Provides leadership and expertise for the expansion, coordination and provisioning of telecommunications services, vendor management, innovation, and technology that enable the digital transformation of government work environments and communities in every corner of the Province. The Division provides guidance on planning for telecommunications infrastructure investment to municipal and regional governments and oversees the Connecting British Columbia program. The Division further provides a leadership role in supporting government and broader public sector goals for economic development, health, education and public safety by enabling an innovative and digital government through maximizing value from IT investments and closing the digital divide for British Columbians.

DIVISION/BRANCH	TOPIC
Libraries Branch	The Libraries Branch works together with public library boards, library staff and local government to improve and ensure the public's access to information, resources, and services under the <i>Library Act</i> . Responsible for areas covering legislation, provincial funding, digital infrastructure, provincial-wide services and provincial policies.
Capital Division	The Capital Division establishes and administers the Ministry of Education's Capital Program, estimated at \$550 million annually, and includes the following program areas: Annual Facilities Grant, Seismic Mitigation, New and Additional Schools, Replacement Schools, Routine Capital Investment, Building Envelope Program, Bus Replacement Program and the Carbon Neutral Capital Program. The Division establishes the Capital Objectives, the priorities for capital investment across the province through the ministry's Capital Planning process, establishes the Capital Standards, defines the scope of capital investments, establishes contractual relationship with school districts, enforces contractual requirements and processes payments.
Resource Management and Corporate Services Division	The Resource Management and Corporate Services Division is responsible for the oversight and management of approximately \$6 billion in operating funding to the K-12 sector; the K-12 funding formula; and school district shared services initiatives. In addition, the division is responsible for the ministry's overall budget and financial oversight and a wide range of corporate services: financial services; strategic human resources; correspondence; Freedom of Information requests; risk management; and planning/reporting.

Ministry of Energy, Mines and Petroleum Resources

DIVISION/BRANCH	TOPIC
Mines Competitiveness and Authorizations Division	Public Geoscience, Policy and Competitiveness, Indigenous Engagement, Tenures Process, Fair, effective and transparent authorizations, Regional operations and Mineral Development.
Electricity and Alternative Energy Division	The Division is responsible for British Columbia's electricity and alternative energy sectors, including BC Hydro. These sectors are made up of diverse interests that develop electricity generation, transmission and distribution infrastructure, clean or renewable energy sources, including biomass, biogas, hydrogen, geothermal, hydro, solar, ocean, wind and low- carbon transportation fuels, and advance energy efficiency. The Division focuses on increasing electrification and energy efficiency across the economy, reducing the carbon intensity of transportation fuels, expanding electric vehicle infrastructure, and implementing programs to reduce energy use and greenhouse gas emissions in the residential, commercial and industrial sectors. The Division is responsible for B.C.'s low-carbon energy market transformation, driving a range of actions to support all stages of clean energy development and adoption. The Division also administers the Innovative Clean Energy (ICE) Fund, a special account used to further the energy and environmental priorities of the government.
Oil Infrastructure Group	Responsible for facilitating the development and implementation of interprovincial oil pipelines and related infrastructure projects that benefit British Columbia through liaising with oil transmission pipeline proponents and providing the central point of contact on proposed interprovincial oil transmission pipelines to British Columbia's coast.

Oil and Gas Division	Responsible for management of the province's oil and gas resources, including disposing and administering subsurface oil and gas tenures, facilitating infrastructure development to improve access to oil and gas resources; developing and implementing policies and programs, including the province's royalty regime; consulting with First Nations and other stakeholders; and engaging in external relations and providing information to the public. Develops legislation and regulations for B.C.'s oil and gas industry and sets policy for the province's regulator, the BC Oil and Gas Commission. Also responsible for negotiating and implementing agreements with other governments, First Nations, and non-governmental organizations regarding the fiscal, regulatory, scientific, health, safety, environmental, socio-economic, and financial aspects of oil and gas development. Responsible for development of the province's liquefied natural gas (LNG) industry and other industries that add value to British Columbia's oil and gas resources to strengthen and further diversify the provincial economy, including engagement with proponents, joint venture and investment interests, and liquefied natural gas and value-added gas importing countries; project implementation; and the development of a value-added oil and gas industry. Supports engagement on cross-jurisdictional issues relating to liquefied natural gas and value-added oil and gas, including financial and economic analysis; and relationship building with stakeholders and participation in relevant conferences and forums.
Strategic and Indigenous Affairs Division	Responsible for leadership and support in strategic planning and reporting; marketing and outreach, budget estimates; risk framework; supporting Clean BC ; regulatory reform; managing Crown Corporation planning and reporting requirements; Provides leadership and support in cross ministry policy and intergovernmental relations; building investor confidence in mining through outreach; and positioning B.C.'s interests/objectives in the Canadian Energy Strategy and Energy and Mines Ministers' Conference. Also, responsible for the management of the ministry's Indigenous relations; contributing to reconciliation with Indigenous nations; support for Indigenous nations policy development relating to mining and other specific initiatives; support for Treaty Land Entitlement negotiations; UNDRIP implementation; and support for negotiations with Indigenous nations on specific issues. Leads implementation of the Environmental Stewardship Initiative (ESI), and also responsible for the management of the legislative and legal affairs of the ministry.
Woodfibre Implementation Group	Responsible for facilitating the development and implementation of the Woodfibre LNG facility by liaising with federal, provincial, municipal governments and First Nations. Providing a central point of contact for the proponent of Woodfibre LNG on regulatory and issues management.

DIVISION/BRANCH	TOPIC
BC Parks	Responsible for all matters (policy, planning and management) of conservation, recreation and cultural values in the province's parks and protected areas.
Climate Change Strategy	Province-wide coordination and management with other ministries of systems to address and respond to climate change including CleanBC, CleanBC Communities Fund, adaptation planning and engagement, climate policy, energy and the Climate Action Charter commitments in association with Ministry of Municipal Affairs and Housing, and Ministry of Energy, Mines and Petroleum Resources legislated short and long-term, province-wide greenhouse gas reduction targets, carbon tax, Carbon Neutral Government (Public Sector Organizations - schools, universities and colleges and hospitals), carbon offsets, Climate Solutions and Clean Growth Advisory Council and climate action pieces of legislation related to climate change including: <i>Greenhouse Gas Industrial Reporting and Control Act</i> , <i>Climate Change Action Accountability Act</i> (formerly called <i>Greenhouse Gas Reduction Targets Act</i>), <i>Carbon Tax</i> , <i>Greenhouse Gas Reduction (Emissions Standards)</i> , <i>Greenhouse Gas Reduction (Renewable and Low Carbon Fuel Requirements Act)</i> , <i>Greenhouse Gas Reduction (Vehicle Emissions Standards) Act</i> , and <i>Clean Energy Act</i> .
Conservation Officer Service	A natural resource law enforcement agency responsible for enforcing federal and provincial statutes, public safety as it relates to human-wildlife conflict and interactions, commercial environmental and industrial investigations and compliance and enforcement activities.
Environmental Assessment Office	Environmental assessment (EA) process. Federal EA Substitution and Equivalency. Relationship to federal environmental assessment and review processes, including National Energy Board (NEB). Compliance and enforcement of certified projects. Public consultation regarding EAs or EA certificate amendment applications. Environmental Assessment Revitalization and the new <i>Environmental Assessment Act</i> .
Environmental Protection Division	Air quality, reducing toxins, pollution prevention, environmental emergencies/provincial spill response, <i>Environmental Management Act</i> , contaminated sites, brownfields, hazardous and industrial waste, <i>Integrated Pest Management Act</i> , extended producer responsibility, recycling, zero waste, circular economy, waste management (incineration, landfilling, municipal liquid and solid waste), permitting and compliance reporting for industrial operations' emissions.
Environmental Sustainability and Strategic Policy	Species at Risk policy and legislation development; conservation and sustainability of living resources; conservation science; fish and wildlife inventory, monitoring, and reporting; Conservation Data Centre; ecosystem data and information; terrestrial ecosystem mapping; habitat supply modelling. <i>Water Sustainability Act</i> : development of water legislation, regulations, policy, standards and guidance; integrated watershed and aquifer science; water quality objectives development and policy; water governance framework; provincial water strategies; intergovernmental agreements; drought strategy; First Nations and stakeholder outreach on water legislation; policy for water conservation; source water protection; water quality monitoring; BC Lake Stewardship and Monitoring Program; groundwater hydrology; groundwater protection; monitoring and network management for surface water and groundwater quantity and quality. State of Environment Reporting; snow survey; ambient air quality; water stewardship outreach; environmental and natural resource sector laboratory (analytical chemistry) and library services. Overarching environmental policy and legislation; compliance planning; intergovernmental relations; and Service Plan. Professional Reliance Review coordination of government actions. Corporate Indigenous relations and partnership development.

DIVISION/BRANCH	TOPIC
Tax Policy Branch	Provincial tax policy, including: • Provincial property taxes (school, rural, police) • Property Transfer Tax • Provincial Sales Tax • Carbon Tax • Motor Fuel Tax • Provincial Income Tax • Cannabis Tax • Indigenous Taxation

Ministry of Forests, Lands, Natural Resource Operations and Rural Development

DIVISION/BRANCH	TOPIC
BC Wildfire Service	Wildfire Suppression, Wildfire Prevention and Community Resiliency Initiative
Forest Policy and Indigenous Relations	Economic Services, Trade and Export Policy, Timber Pricing, Compensation and Business Analysis, Coast and Interior Revitalization, Indigenous Relations.
Integrated Resource Operations	Archaeology; Compliance and Enforcement; GeoBC; Heritage; Mountain Resorts; Recreation Sites & Trails
Office of the Chief Forester	Forest Analysis & Inventory; Forest Improvement and Research Management Branch; Climate Change and Integrated Planning; Resource Practices and Innovation, Bio economy and Indigenous Opportunities.
Regional Operations	FrontCounter BC, resource management coordination, land use planning and implementation, Crown land and forest authorizations, community forest agreements, species at risk program delivery, urban deer, clean energy projects, First Nations consultation, ecosystem-based management, range, BC Timber Sales, Interior forest sector renewal, flood and fire recovery.
Resource Stewardship	Fish and Aquatic Habitat; Resource Planning and Assessment; Species at Risk Recovery; Water Management; Wildlife and Habitat. Includes resource practices, land-based investment planning, sustainable forest management, resource management objectives, fish and wildlife management, habitat management, water management, river forecasting, dam safety, flood safety, water use planning, utility regulation, water stewardship.

DIVISION/BRANCH	TOPIC
Office of Indigenous Health	Works in partnership with BC First Nations, Metis, Inuit and Health Canada, across provincial ministries, with regional health authorities, First Nations Health Authority, and Indigenous organizations, to ensure the implementation of Government key strategic directions and commitments regarding Indigenous health.
Finance and Corporate Services	Supports programs and health authorities by managing and ensuring a consistent approach to financial and corporate services planning, policy, performance oversight/reporting, and critical financial and corporate services issues management. Services provided include Audit and Investigations, Capital Services Management, Health Authority Regional Grants Decision Support, and Finance and Decision Support.
Health Human Resources and Labour Relations	Responsible for workforce planning and development and operational delivery of beneficiary services that contribute to effectively meeting patient and population health needs and improving patient outcomes through the efficient delivery of health services.
Population and Public Health	Focuses on improving people's overall health and well-being by promoting health; preventing disease, disability, and injury; protecting people from harm; and ensuring particular focus on key groups including Indigenous peoples, women and children (Health Protection; Healthy Living and Health Promotion; Public Health Services).
Primary Care	Responsible for implementing the provincial primary care strategy. The priorities of the division are: Primary care networks; Urgent primary care centres; Community health centres; Interdisciplinary team based primary care services; ensuring integration of Primary Care services with community services programs. The Division also includes HealthLink BC due to its role as a key community services enabler of primary care.
Provincial, Hospital and Laboratory Health Services	Focuses on provincial health services, regional hospital services, pathology and laboratory, and precision medicine. The Division works closely with providers and stakeholders, provides strategic oversight, policy development and evaluation.
Specialized Services	Focuses on implementing specialized community and surgical services and programs. Community Care - Seniors services and Mental health and substance use services. Work on wait times - Surgical services; Colonoscopy services; Diagnostic services; Implementing waitlist policies and approaches in the specialized community services programs and other general health services.

DIVISION/BRANCH	TOPIC
Negotiations and Regional Operations Division	Leading provincial engagement with First Nations to advance reconciliation initiatives, including negotiating and implementing agreements with First Nations partners in conjunction with other provincial agencies, federal and local government, and working with stakeholders to ensure the success of reconciliation initiatives.
Reconciliation Transformation & Strategies Division	Leads the development of reconciliation policy and works with all governments on topics including governance, rights recognition, self-determination, capacity building, implementation of adoption of the United Nations Declaration on the Rights of Indigenous Peoples, the Truth and Reconciliation Commission Calls to Action, and the Tsilhqot'in Supreme Court decision. Responsible for developing a cross-government vision for reconciliation for the province in collaboration with Indigenous peoples.
Implementation and Lands Services Branch	Leads key functions for the completion, implementation and ongoing relationship management of agreements with First Nations in the province, including: • Provincial representative on treat Implementation Committees; • Tri-partite treaty closing to reach Effective Date; • Research/advice and survey for crown land negotiations; and, • Implementation best practices to ensure agreement obligations met.
Socio-Economic Partnerships Branch	Leads the development and implementation of key corporate indigenous initiatives and seeks to achieve positive impacts needed to improve the social and economic conditions of Indigenous people in BC living on and off reserve. This work requires the development of solutions through a diverse range of initiatives through engagement with Indigenous partners, provincial ministries and the federal government.
Community and Social Innovation Branch	Leads the Ministry's efforts in sociocultural reconciliation with Indigenous communities in British Columbia, including First Nations, Metis, urban Indigenous peoples and Indigenous youth. Partners with Indigenous governments, communities, organizations and other ministries to implement community wellbeing initiatives that advance self-determining, thriving, and resilient Indigenous communities.
Major Project and Cross Gov't Initiatives Branch	Leads and/or supports initiatives and provides strategic advice to other Governmental departments, First Nations, and industry proponents in a variety of initiatives in the fields of environmental stewardship, resource development, and emerging economic opportunities. The Branch also holds Provincial accountability for strategic consultation and accommodation procedures and associated tools to support statutory decision makers.

Division/Branch	Topic
Strategic Investments Office Branch	Works directly with prospective investors whose projects have the potential to provide significant economic and job creation benefits to British Columbia. The SIO provides client-focused and personalized business services to help major investors save time and money, minimize risk and maximize certainty as their project proposal moves through provincial government regulatory and approval processes. The SIO works with municipalities, Indigenous communities and government agencies to facilitate significant investment projects in BC.
Small Business, Jobs and Workforce Division	Small business initiatives, programs, resources and available supports including the Small Business Task Force; and Small Business Roundtable; Sector and Regulatory Competitiveness including Better Regulations for British Columbians. Economic Policy and Support including Manufacturing sector support, including industries such as aerospace and marine; Provincial Economic Development Framework. Immigrations programs, settlement and integrations services; including Provincial Nominee Program, Entrepreneur Immigration Regional Pilot; foreign qualifications recognition, interprovincial labour mobility. BC Stats Information and Analysis.
Planning and Innovation Branch	Leads the development and implementation of strategy and policy in support of provincial technology, innovation and related investment initiatives. The branch also provides expertise on BC's research strengths and leads the planning and coordination of provincial technology and innovation policy and programming.
International Trade Division	Overseas trade and investment representative (TIR) presence in US, Europe and Asia; Trade readiness and trade services programs including support to communities across the province including indigenous communities; Initiatives to attract and retain international investors and businesses, and align efforts with B.C. communities and federal programs; International and domestic trade negotiations and agreements; International strategy and research; Trade and Investment Missions; International marketing; International engagement
Regional Programs and Engagement Branch	Leads the development and delivery of policies, programs and initiatives supporting local, regional and Indigenous economic development and community investment readiness.

DIVISION/BRANCH	TOPIC
Labour Relations	Administration of the <i>Labour Relations Code</i> through the independent quasi-judicial B.C. Labour Relations Board. The Ministry also promotes stable labour relations by monitoring collective bargaining disputes and providing formal and informal assistance to the parties. Also, responsible for the <i>Fire and Police Services Collective Bargaining Act</i> .
Employment Standards	Administration of the <i>Employment Standards Act</i> to ensure employees receive basic standards of compensation and conditions of employment, including the minimum wage. Provide fair and efficient procedures for resolving workplace disputes. Responsible for the Employment Standards Branch and the Employment Standards Tribunal. Responsible for enforcement of the new <i>Temporary Foreign Worker Protection Act</i> .
Workers' Compensation	Administration of the <i>Workers Compensation Act</i> and responsible for WorkSafeBC (provincial Workers' Compensation Board). WorkSafeBC provides compensation services, health care and vocational rehabilitation to injured workers. WorkSafeBC also has authority to develop, enact and enforce the <i>Occupational Health and Safety Regulation</i> . The Ministry is also responsible for the Employers' Advisers Office, the Workers' Advisers Office, and the Workers' Compensation Appeal Tribunal.

DIVISION/BRANCH	TOPIC
Mental Health and Addictions	Leading the immediate response to the overdose public health emergency, including harm reduction, public awareness, treatment and recovery services and prevention initiatives; Setting strategic direction for provincial mental health and addictions services through research, policy development and evaluation, including in relation to designated facilities under the <i>Mental Health Act</i>

Ministry of Municipal Affairs and Housing

DIVISION/BRANCH	TOPIC
<i>Community and Legislative Services Division</i>	
Community Gaming Grants	Community Gaming Grants support eligible not-for-profit organizations delivering community programs that benefit the citizens of British Columbia. Grants are awarded in several sectors including; Arts & Culture, Sport, Public Safety, Environment, Human & Social Services and Parent Advisory Councils. Eligible not-for-profit can also apply for Capital Grants through the program.
Community Policy and Legislation	TransLink legislation and governance; Ministry liaison with Auditor General for Local Government; Coordination of Ministry-wide legislation, regulations and board appointments.
Property Assessment Services	Provincial property assessment policy and legislation as it pertains to valuation and classification, including valuation of restricted use properties, redevelopment lands and impacts on business and housing affordability.
<i>Local Government Division</i>	
Governance Structures Governance Services Governance Relations	Incorporation, restructure, boundary extensions, structure-related legislation and processes, and local and regional governance. Local government administration, elections, governance operations-related legislative requirements/powers and local and regional services. Local government First Nations relations and Crown Grant/Nominal Rent Tenure sponsorships.
Local Government Finance	Local government finance, including: budgeting and financial plans; audited financial statements; unconditional grants; reserve funds; investments and municipal corporations; long-term liabilities; development financing (including Development Cost Charges); user-fees; and taxation (including tax sale).
Infrastructure and Engineering	Asset management, drinking water, wastewater, stormwater, solid waste, green energy and other capital grants, infrastructure planning grants and infrastructure programs (Investing in Canada Infrastructure Program, Clean Water and Wastewater Fund and Small Communities Fund).
Planning and Land Use Management Programs / Negotiations and Corporate Initiatives	Local government planning and land use management framework, including: new legislation related to rental zoning, housing needs reports and TransLink development cost charges; other local planning and land use tools; ministerial approvals of some official community plans; Regional Growth Strategies (RGSs); and Development Approvals Process Review.
Local Government Climate Action	CleanBC, Climate Action Charter, Climate Action Revenue Incentive Program (CARIP), joint provincial-UBCM Green Communities Committee (GCC), support for local government climate mitigation and adaptation action.
Dispute Resolution Guidance	Dispute resolution guidance related to Regional District service review/withdrawal, RGS and other intergovernmental disputes.
Local Government Policy, Research and Legislation	Overall responsibility for local government legislation development for <i>Community Charter</i> , <i>Local Government Act</i> , <i>Local Elections Campaign Financing Act</i> and other local government legislation. Broad responsibility for forward-looking policy development in relation to various local government authorities.

Office of Housing and Construction Standards	
Housing and Policy Branch	Housing policy and program development, including market and non-market housing, supportive housing and homelessness; liaison with BC Housing, which partners with local government, non-profit and private developers to build affordable housing; legislation governing strata properties, as well as actions in the <i>Homes for BC: A 30-Point Plan For Housing Affordability</i> ; BC Housing.
Building and Safety Standards Branch	Buildings, Construction, and Technical Systems: The regulatory framework for buildings and technical systems, including development of building, plumbing, fire, electrical, gas elevator and energy codes, site specific and jurisdiction specific regulations (e.g., tall wood), safety standards for technical systems (e.g., refrigeration in arenas), homeowner protection (e.g., home warranties), oversight of certain industry professionals and trades (e.g., home builder licensing), and policy advice relating to the built environment, including climate leadership. Liaison with BC Housing Licensing and Consumer Services, Technical Safety BC, Building Officials Association of BC, and National Research Council.
Residential Tenancy Branch	The regulatory framework for landlords and tenants, including conventional residential and manufactured home park tenancies; information services and disputes resolution for landlord and tenant disputes.

Ministry of Public Safety and Solicitor General

DIVISION/BRANCH	TOPIC
Policing and Security Branch	Police Services: provides central oversight of all policing and law enforcement in the province by developing and administering policing policy and programs. Ensures the adequate and effective levels of policing throughout the province. Security Programs: administration of the Protection Order Registry, the Criminal Records Review Program, and the regulation of the security industry in B.C.
Community Safety and Crime Prevention Branch	Civil Forfeiture; Victim Services; Violence Against Women and Children; Crime Prevention; and, Combating Trafficking in Persons.
Corrections Branch	Community Corrections: supervision and programs to reduce reoffending for offenders who live outside of correctional centres. Adult Custody: operation of correctional centres.
RoadSafety BC	Operates provincial road safety programs and is the policy and regulatory agency responsible for ensuring the safe and responsible operation of motor vehicles in B.C.
Emergency Management BC **Meeting requests for the Minister will be held with the Parliamentary Secretary for Emergency Preparedness.	Emergency Management BC (EMBC) is the lead co-ordinating agency in the provincial government for all emergency management activities. The overall purpose of EMBC is to make individuals and communities in B.C. safer. EMBC works with local governments, First Nations, federal departments, industry, non-governmental organizations, and volunteers to support the emergency management phases of mitigation and prevention, preparedness, response, and recovery. Additionally, EMBC engages with provincial, national and international partners to enhance collective emergency preparedness. Also, within EMBC is the Office of the Fire Commissioner (OFC). The OFC is the senior fire authority in the province with respect to fire safety and prevention.
Cannabis Legalization and Regulation Secretariat	The Secretariat is responsible for coordinating cannabis policy across the provincial government. Working with partner ministries and external stakeholders, the Secretariat seeks to advance Government's overarching cannabis policy goals, which include: public health and safety, protecting children and youth, reducing crime and the illegal market, addressing cannabis-impaired driving, and supporting economic development.

DIVISION/BRANCH	TOPIC
Research, Innovation and Policy Division	TogetherBC, British Columbia’s first poverty reduction strategy, sets a path to reduce overall poverty in B.C. by 25% and child poverty by 50% by 2024. With investments from across Government, TogetherBC reflects government’s commitment to reduce poverty and make life more affordable for British Columbians. It includes policy initiatives and investments designed to lift people up, break the cycle of poverty and build a better B.C. for everyone. Built on the principles of Affordability, Opportunity, Reconciliation, and Social Inclusion, TogetherBC focuses on six priority action areas:
Service Delivery Division	• More affordable housing for more people • Supporting families, children and youth • Expanding access to education and training • More opportunities, more jobs • Improving income supports • Investing in social inclusion Accessibility – Working across government to increase accessibility and decrease barriers for people with disabilities in B.C. Income and Disability Assistance - Income Assistance provides support and shelter payments to help low income singles and families while they are looking for work. Disability assistance provides support and shelter payments to people who are low-income with a severe disability and can’t fully support themselves or gain independence. Income and Disability Assistance programs and services are delivered at 47 ministry office locations and 36 partnership Service BC offices around the province. Clients can also access services through the ministry’s toll-free phone line or through the online client portal My Self-Serve.
Employment and Labour Market Services Division	How to access employment supports through the Employment Program of BC and the 84 WorkBC Employment Service Centres located throughout the province. How to apply for project based funding under the Community Employer Partnership initiative in order to increase local employment opportunities for British Columbians.

Ministry of Tourism, Arts and Culture

DIVISION/BRANCH	TOPIC
BC Arts Council	Application and peer review adjudication process for programs of the BC Arts Council; responsibility for arts and cultural development in communities through grants to individual artists and organizations; funding for community arts organizations and regional arts organizations; support for Indigenous artists and arts organizations; support for youth and emerging practitioners through scholarships and early career development; support for touring.
Arts and Cultural Development	Research, analysis and policy and program development that aims to enrich communities, provide broad access to and increase participation in the arts and leverage partnerships for impactful and innovative programming in all corners of B.C. Provides oversight of the Royal BC Museum and the modernization project as well as establishing of a Chinese Canadian Museum
Sport	Sport policy issues; programs supporting the delivery of services through provincial sport organizations; sport event hosting.
BC Athletic Commission	Legislation and regulatory oversight of professional boxing and mixed martial arts, as well as amateur kickboxing, mixed martial arts, Muay Thai and pankration. .

Regional Council Meeting - June 4th, 2019 Page 90 of 142

Tourism	Policy development and strategic issues management to support BC's tourism sector; manages the Resort Municipality Initiative, Tourism Event Program and Municipal Regional District Tax program (jointly with DestinationBC and Ministry of Finance.) Provides oversight of Destination BC (tourism marketing/development) and BC Pavilion Corporation (BC Place and Vancouver Convention Centre) and leads development and implementation of provincial tourism strategy.
Creative Sector	Policy development, research and inter-government relations work in support of B.C.'s creative industries including, film, television, interactive digital media, music, and publishing. Provides oversight of Creative BC and the Knowledge Network.
Multiculturalism	Multiculturalism Community Grant program, Organizing Against Racism and Hate Program, Multicultural Advisory Council, Premier's Chinese Canadian Advisory Council Secretariat.

Ministry of Transportation and Infrastructure

DIVISION/BRANCH	TOPIC
Highway Operations	The Highway Operations Department plans, designs, constructs, operates, rehabilitates and maintains the provincial public highway system. Project manages and delivers hundreds of expansion, rehabilitation and safety improvement projects annually including maintenance contracts, centreline marking contracts and electrical contracts. Oversees and manages privatized road and bridge maintenance. Approves subdivisions in rural areas near provincial highways, issues highway permits for access, utilities and special events and approves zoning near provincial highways.
Highway Services	The Highways Services Department develops province-wide engineering and environmental solutions and implements standards, policies and procedures regarding provincial transportation engineering. Ensures commercial vehicle safety by managing the National Safety Code, the Vehicle Inspection and Standards and enforcement of the Motor Vehicle Act in relation to commercial vehicles.
Major Projects, Infrastructure and Properties Department	The Major Projects, Infrastructure and Properties Department is responsible for all aspects of strategic planning, programming, procurement and major projects delivery within the province including development and management of the provincial 10 year Transportation Investment Plan, management of federal and community cost sharing programs, and the delivery of the major transportation projects throughout the province. Oversees the acquisition, management and disposition of the ministry's thousands of properties and land interests, including those owned by the BC Transportation Financing Authority and BC Railway Company. The department is also the primary linkage to the Transportation Investment Corporation.
Transportation Policy & Programs Department	The Transportation Policy and Programs Department is responsible for all aspects of strategic transportation policy. This includes air, rail and marine modes, passenger transportation regulations and licensing, inter-governmental relations, cycling and airport grant programs, climate leadership, corporate planning, strategic initiatives and writing services as well as to maintain and optimize the delivery of transit services in participating communities throughout the province. The department also has provincial oversight of the inland and coastal ferry system in British Columbia.

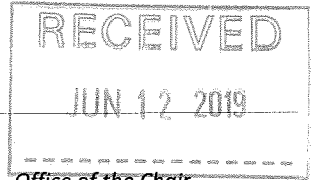
ORGANIZATION	TOPIC
Agricultural Commission Land	Information and advice regarding the Agricultural Land Reserve (ALR) and work of the Provincial Agricultural Land Commission (ALC). ALC Chair and/or Chief Executive Officer will be in attendance.
Auditor General for Local Government	The office of the Auditor General for Local Government conducts performance audits of local governments in order to provide them with objective information and relevant advice that will assist them in their accountability and the achievement of value for money in their operations. Our work emphasizes a collaborative approach in working with local governments and we would be pleased to meet and discuss areas of risk or concerns and how our office can assist in addressing these issues.
BC Emergency Health Services (BCEHS)	BCEHS governs the emergency medical services system in BC and provides pre-hospital emergency and inter-facility patient transfer services. Under the oversight of BCEHS, BC Ambulance Service (paramedics and emergency medical call takers and dispatch staff provide pre-hospital emergency care and medically necessary transport (ground and air) for British Columbians. BCEHS also oversees the BC Patient Transfer Network (BCPTN), which coordinates the transfer of acute and critically ill patients to the appropriate level of care both within and outside of B.C. Members of the BCEHS Executive will be in attendance and look forward to participating in productive and engaging sessions.
BC Housing	BC Housing works in partnership with private and non-profit sectors, provincial health authorities and ministries, other levels of government and community groups to develop a range of housing options. These affordable housing options span the housing continuum, including emergency shelter and housing for the homeless, transitional supportive and assisted living, independent social housing, rent assistance in the private market, and affordable owner-purchase housing. Through the <i>Homeowner Protection Act</i> , BC Housing also licenses residential builders, administers owner builder authorizations, ensures that mandatory licensing and home warranty insurance provisions are complied with, oversees the third-party home-warranty insurance, and carries out research and education that benefits the residential construction industry, consumers and the affordable housing sector.
BC Hydro	Our vision is to be the most trusted, innovative utility company in North America by being smart about power in all we do. BC Hydro's Community Relations staff will be present at the Convention and look forward to addressing any questions that you may have related to their operations.
BC Oil and Gas Commission	The BC Oil and Gas Commission regulates oil and gas activities for the benefit of British Columbians and looks forward to addressing any questions you may have on our regulatory oversight.

BC Transit	From small towns to large urban centres outside of Metro Vancouver, BC Transit provides safe, effective, customer focused transportation solutions that connect people and communities to a more sustainable future. BC Transit would be pleased to discuss any questions you may have regarding our services. In order to provide you with the best information possible, please provide specifics relating to your questions within the online meeting request.
Insurance Corporation of British Columbia (ICBC)	ICBC provides universal compulsory auto insurance (basic insurance) to drivers in British Columbia, with rates regulated by the British Columbia Utilities Commission (BCUC), and also sells optional auto insurance in a competitive marketplace. Our insurance products are available across B.C. through a network of independent brokers, and claims services are provided at ICBC claims handling facilities located throughout the province. We also invest in road safety and loss management programs to reduce traffic-related deaths, injuries and crashes, auto crime and fraud. In addition, we provide driver licensing, vehicle registration and licensing services, and fines collection on behalf of the provincial government at locations across the province. ICBC will have staff present at the Convention who would be pleased to discuss or meet on any issues related to ICBC's operations.
Royal Canadian Mounted Police (RCMP)	Various police issues.



metrovanancouver
SERVICES AND SOLUTIONS FOR A LIVABLE REGION

VILLAGE OF LIONS BAY
FILE TO I/C
FILE TO PROPERTY FILE
OTHER



Office of the Chair
Tel. 604 432-6215 Fax 604 451-6614

JUN 10 2019

File: CR-12-01
Ref: RD 2019 May 24

Mayor Ron McLaughlin and Council
Village of Lions Bay
PO Box 141, 400 Centre Road
Lions Bay, BC V0N 2E0

Dear Mayor McLaughlin and Council:

Re: Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands Regional Growth Strategy Amendment Bylaw No. 1283, 2019

On February 12, 2019, the City of Delta submitted a request to Metro Vancouver to amend *Metro 2040: Shaping Our Future (Metro 2040)* for a 62.7 ha (155 ac) property located at 7969 Highway 91 Connector, by changing the regional land use designation from “Agricultural” to “Industrial” and to include the lands within the Urban Containment Boundary.

At its May 24, 2019 regular meeting, the Board of Directors of the Metro Vancouver Regional District (Metro Vancouver) adopted the following resolutions:

That the MVRD Board:

- a) initiate the regional growth strategy amendment process for the City of Delta's proposed regional growth strategy amendment for the property located at 7969 Highway 91 Connector;*
- b) give first and second readings to “Metro Vancouver Regional District Regional Growth Strategy Amending Bylaw No. 1283, 2019”;*
- c) direct staff to notify affected governments as per Metro Vancouver 2040: Shaping Our Future Section 6.4.2; and,*
- d) direct staff to request additional information from City of Delta staff as laid out in the report dated March 15, 2019, entitled “Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands”.*

As required in both the *Local Government Act* and *Metro 2040*, amendment processes include a notification period to allow all affected local governments to provide comment on the proposed amendment. Following the comment period, Metro Vancouver will review all comments received, and consider third and final reading of the amendment bylaw.

The proposed amendment is a Type 3 minor amendment to *Metro 2040*, which requires an amendment bylaw be passed by Metro Vancouver by a 50%+1 weighted vote. No regional public hearing is required. For more information on regional growth strategy amendment procedures,

29776477

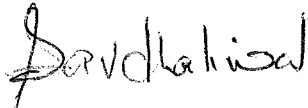
please refer to Sections 6.3 and 6.4 in *Metro 2040*. A Metro Vancouver staff report providing background information and an assessment of the proposed amendment regarding consistency with *Metro 2040* is enclosed.

You are invited to provide written comments on the proposed amendment. Please provide your comments by Friday, September 6, 2019. Comments can be provided via Council resolution.

As per MVRD Board resolution (d), Metro Vancouver staff will be in contact with City of Delta staff to request additional information, as laid out in the report dated March 15, 2019.

If you have any questions with respect to the proposed amendment, please contact Gord Tycho, Senior Planner, Regional Planning by email at Gordon.Tycho@metrovancover.org or by phone at 604-456-8805.

Yours sincerely,



Sav Dhaliwal
Chair, Metro Vancouver Board

SD/CM/NC/gt

Encl: Report dated May 15, 2019, titled "Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands" (Doc #29622457)

To: MVRD Board of Directors

From: Neal Carley, General Manager, Planning and Environment

Date: May 15, 2019 Meeting Date: May 24, 2019

Subject: **Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands**

At its April 5, 2019 meeting, the Regional Planning Committee considered the attached report, supported the staff recommendation, and advanced the report to the Board. At its April 26, 2019 meeting, the MVRD Board withdrew the attached report from its agenda at the request of the applicant. The City of Delta expressed interest in bringing the application to two additional Standing Committees for information, and as a result appeared as a delegation at the May 2, 2019 Industrial Lands Strategy Task Force meeting and the May 15, 2019 Regional Parks Committee meeting.

Regional Planning staff provided a presentation to describe the Metro 2040 amendment process, and considerations in evaluating the proposed amendment's impacts on the regional growth strategy's goals and policy actions. Staff noted to Committee members that if any comments were provided, they would be conveyed to the Board with the attached report.

At the Industrial Lands Strategy Task Force meeting, members articulated:

- that if approved, the type of industrial development should be consistent with the parcel's location on the goods movement network and support trade-enabling uses;
- concern about potential impact on bog hydrology;
- the uniqueness of the proposal in having multiple parcels with which to meet a broad range of regional and local objectives; and
- the inclusion of land into the Agricultural Land Reserve seems challenging as a regional benefit given there is no intent to farm the land.

At the Regional Parks Committee meeting, members articulated:

- concern about the potential impacts of the proposed development on the bog, particularly regarding fill, settlement on the site and water management;
- desire for ongoing monitoring post construction;
- continued involvement of the Burns Bog Scientific Advisory Panel at the design, construction and monitoring phases;
- that if approved, lots A, B and C be included in the Burns Bog Ecological Conservancy Area;
- recognition that with the current zoning, lots A, B and C are at risk;
- concern about speculation and an anticipated proposal for the lot to the east;
- the challenges with these types of complex applications and the inherent trade-offs; and
- that if approved, the type of industrial development be limited to activities that will minimize potential impacts on the bog.

Attachment:

"Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands",
dated March 15, 2019

29622457

To: Regional Planning Committee

From: James Stiver, Division Manager, Growth Management and Transportation
Gord Tycho, Senior Planner, Regional Planning

Date: March 15, 2019 **Meeting Date:** April 5, 2019

Subject: **Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands**

RECOMMENDATION

That the MVRD Board:

- a) initiate the regional growth strategy amendment process for the City of Delta's proposed regional growth strategy amendment for the property located at 7969 Highway 91 Connector;
 - b) give first and second readings to "Metro Vancouver Regional District Regional Growth Strategy Amending Bylaw No. 1283, 2019";
 - c) direct staff to notify affected governments as per *Metro Vancouver 2040: Shaping Our Future* Section 6.4.2; and,
 - d) direct staff to request additional information from City of Delta staff as laid out in the report dated March 15, 2019, entitled "Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands".
-

PURPOSE

To provide, for Regional Planning Committee and MVRD Board consideration, Metro Vancouver staff's analysis and recommendations regarding the City of Delta's proposed Type 3 Land Use Designation amendment to *Metro Vancouver 2040: Shaping our Future (Metro 2040)*, the regional growth strategy, for the MK Delta Lands (Attachment 1).

BACKGROUND

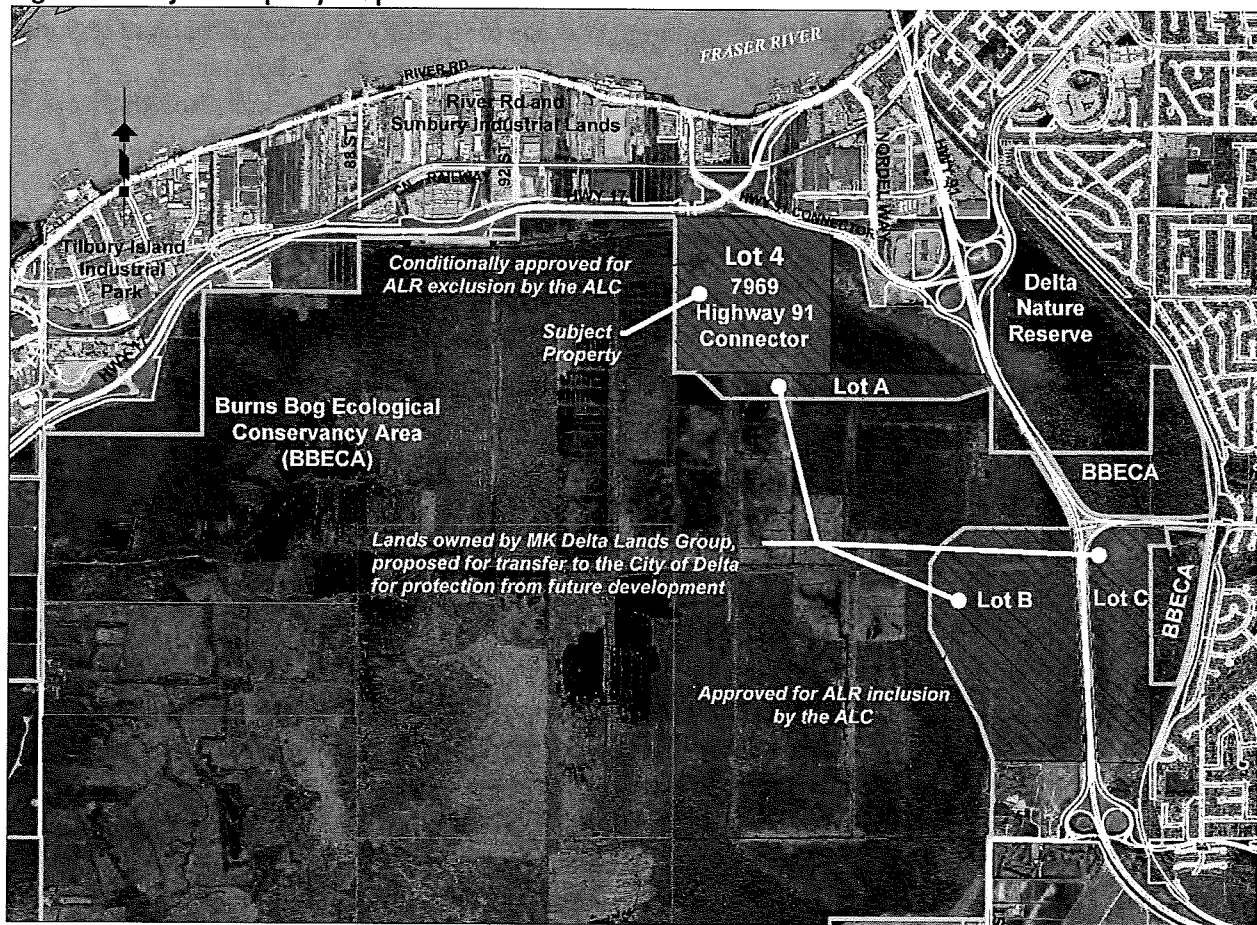
On February 12, 2019, the City of Delta submitted a proposed *Metro 2040* amendment to Metro Vancouver for the property located at 7969 Highway 91 Connector (Attachment 2). The proposed amendment is to change the regional land use designation of the subject property from "Agricultural" to "Industrial", and to include the lands within the Urban Containment Boundary.

On June 10, 2016, Delta Council gave 1st reading to Official Community Plan Amendment Bylaw No. 7505, and 2nd reading was given on July 5, 2016. A local public hearing was held on July 26, 2016 and the Bylaw was subsequently given 3rd reading. The application was then referred to the Agricultural Land Commission, seeking exclusion of the subject property from the Agricultural Land Reserve (ALR), complemented by a proposal to add a second parcel to the ALR. In September of 2018, the Agricultural Land Commission conditionally approved the exclusion of the subject property and inclusion of the second parcel.

SITE DESCRIPTION

The subject property is a 62.7 ha (155 ac) undeveloped site located at 7969 Highway 91 Connector, just south of Highway 17 (South Fraser Perimeter Road) and adjacent to the Burns Bog Ecological Conservancy Area (BBECA) (Figure 1). The subject property is owned by MK Delta Lands Group. It is located in the ALR, but the owner is currently satisfying exclusion conditions with the Agricultural Land Commission. To the east are privately-owned undeveloped lands located in the ALR, a provincial highway maintenance area and Highway 91. Industrial uses are located to the north and east in the Sunbury industrial business area across the Highway 91 Connector and Highway 17 along Nordel Way and River Road. To the south are Lots A, B, and C (also owned by MK Delta Lands Group), and the BBECA to the south and west.

Figure 1: Subject Property Map



G:\Current Development\LU FILES\LU007\LU007445\Drawings\LU007445_exclusion_inclusion.dwg, 1/24/2019 2:28:11 PM, sandur

In addition to the proposed regional land use redesignation of Lot 4, the three additional parcels noted are part of the overall proposal. The property owner has committed to transfer Lots A, B, and C to the City of Delta for protection from future development, and include Lot B in the ALR. Lots A, B, and C are located adjacent to the BBECA and Lots B and C are wooded.

Burns Bog Ecological Conservancy Area

Burns Bog is a raised bog ecosystem covering approximately 3,000 ha (7,413 ac) of the Fraser River delta between the south arm of the Fraser River and Boundary Bay. The largest undeveloped urban landmass in North America, Burns Bog is globally unique because of its chemistry, form, flora and size. The BBECA consists of approximately 2,000 ha (5,000 ac) of land that was purchased in 2004 in an agreement between senior levels of government, Metro Vancouver and the City of Delta. As part of this agreement, a conservation covenant was registered on title of these lands that ensures the ecological integrity of the lands is protected. The BBECA is jointly operated by Metro Vancouver and the City of Delta.

Table 1: Subject Property (Lot 4) - Summary

Parcel Location	7969 Highway 91 Connector, City of Delta	
Parcel Size	62.7 ha (155 ac)	
Proposed Development	Development of a 9-lot industrial subdivision over a developable area of 43.79 ha (108.2 ac). Remainder of area to occupied by internal roads and utilities, future highway access, and protection (buffer) / enhancement areas.	
	Current	Proposed
Urban Containment Boundary (UCB)	Outside of the UCB	Include the parcel within the UCB
Metro 2040 Designation	Agricultural	Industrial
City of Delta OCP Designation	Agricultural (A)	Industrial (I)
Municipal Zoning	I3 Extraction Industrial*	CD Comprehensive Development (site-specific)**
ALR	Exclusion granted by ALC subject to conditions (agriculture / environment buffers). History of peat extraction.	
* Extraction activities are subject to non-farm use approval by ALC.		
** Proposed CD Zone allows light industrial uses on the majority of the site with environmental buffers along the perimeter. Allowable light industrial uses include warehousing, wholesaling and distribution, transportation, communication, equipment sales, repair and servicing, etc., but restrict container storage and uses with higher potential for emissions of air contaminants and spills of hazardous materials.		

APPLICATION HISTORY

The subject property owner (MK Delta Lands Group) owns approximately 202 hectares (500 acres) of land in or near Burns Bog. In 2015, the owner submitted applications to the City of Delta to amend the City's Official Community Plan (OCP), the zoning bylaw, the sanitary sewer area, and for a development permit, to allow for the development of an industrial business park on the subject property.

The application also included requests to:

- exclude the subject property (Lot 4) from the ALR;
- amend the regional land use designation of Lot 4 in *Metro 2040* from Agricultural to Industrial, and include the lands within the Urban Containment Boundary;
- amend the Fraser Sewerage Area to include the subject property;
- include Lot B (one of three other lots owned by MK Delta Lands Group to the south) into the ALR (Figure 1); and
- transfer three other parcels of land owned by the property owner (i.e. Lots A, B and C) into public ownership.

In July 2016, City of Delta Council gave the OCP Amendment Bylaw 3rd reading, and referred the application to the Agricultural Land Commission for consideration to exclude the subject property from the ALR and to include Lot B into the ALR. In August 2017, the Agricultural Land Commission conditionally approved the application. In September 2018, the Agricultural Land Commission Executive Committee upheld the South Coast Panel's August 2017 decision.

Metro 2040 sets out that an ALR exclusion must be granted before Metro Vancouver can consider an application for amendment from the *Metro 2040*'s Agricultural designation (Section 2.3.4). The City of Delta and the owner are working with Agricultural Land Commission staff to finalize the conditions of approval.

Proposed *Metro 2040* Amendment

As per Section 6.3.4(f) of *Metro 2040*, for sites that are contiguous with the Urban Containment Boundary and are not within the ALR, a land use amendment from Agricultural to Industrial, and the associated Urban Containment Boundary adjustment, requires a Type 3 minor amendment to *Metro 2040* (i.e. an amendment bylaw passed by a majority weighted vote and no regional public hearing).

The proposed *Metro 2040* amendment also triggers the need for a revised Regional Context Statement from the City of Delta so that the mapping in the City's OCP, the RCS and *Metro 2040* will be consistent. The City's amended RCS request will be forwarded to the MVRD Board for consideration should direction be given to initiate the regional growth strategy amendment, consistent with *Regional Growth Strategy Implementation Guideline #1: Regional Context Statements*.

ANALYSIS OF ALIGNMENT WITH *METRO 2040*

Metro 2040 provides a framework for assessing the proposed amendments. Consideration has been given to each of the five *Metro 2040* goals and applicable strategies, which are summarized below.

GOAL 1 – CREATE A COMPACT URBAN AREA

Strategy 1.1: Contain Urban Development within the Urban Containment Boundary

Given the location and site context of the subject property, an extension of the Urban Containment Boundary will likely not lead to a proliferation of applications. It is noted that there is one large property to the east that is currently in the ALR. If the redesignation application for the subject

property is successful, this large remaining parcel will be additionally isolated, and one can anticipate an increased likelihood of a future application for a *Metro 2040* amendment for that property.

GOAL 2 – SUPPORT A SUSTAINABLE ECONOMY

Strategy 2.2: Protect the supply of industrial land

The addition of the subject property to the regional industrial lands inventory would provide an additional 43.8 ha (108.2 ac) of industrial land, which would be of local and regional benefit from an industrial-activity, goods movement, and employment generating perspective. Locally, the subject property is in an area contiguous with other industrial lands along the Fraser River, and is in close proximity to Sunbury, Tilbury, and other River Road industrial activities. Regionally, the subject property has direct access to the South Fraser Perimeter Road, a key transportation connector for moving people and goods in and through the region.

It is beyond the scope of the assessment of the proposed regional land use redesignation to consider the type and tenure of industrial activity planned for the subject property. That said, the specifics associated with type and tenure of activity do have regional implications. For example, if the site is developed as a strata development, having a large number of owners on site likely increases the impact risk to the adjacent Burns Bog. Conversely, with a shortage of large, flat, accessible distribution-oriented parcels available in the regional industrial land inventory, this site would serve well for a trade-enabling supportive use given its proximity to the Port and goods movement network.

Strategy 2.3: Protect the supply of agricultural land and promote agricultural viability with an emphasis on food production

The subject property has a regional Agricultural land use designation as it was within the ALR at the time *Metro 2040* was adopted. As part of the application process, the owner sought to have the subject property excluded from the ALR. It had never been farmed. The Agricultural Land Commission has granted conditional approval to the exclusion subject to the addition of a buffer to the adjacent property to the east to support agriculture. In addition, \$6 million will be put toward drainage and irrigation improvements for Westham Island and East Delta, and, Lot B (approximately 78 ha) has been included in the ALR. There is a resulting net gain of approximately 15 ha (37 ac) of agricultural land in the proposal, and the Agricultural Land Commission states that Lot B is more agriculturally viable than Lot 4.

GOAL 3 – PROTECT THE ENVIRONMENT AND RESPOND TO CLIMATE CHANGE IMPACTS

Strategy 3.1: Protect Conservation and Recreation lands

The owner is proposing to transfer its remaining holdings in the area to the City of Delta, which has committed to manage these lands consistent in the BBECA. Lots A, B, and C, total 132.7 ha in size. All three parcels currently have a regional Conservation and Recreation land use designation, however these privately-owned lands are currently zoned Extraction-industrial (I3) in the City's zoning bylaw. This zoning permits a range of industrial extraction activities for sand, gravel, and peat, as well as related processing, such as crushing, screening, and stockpiling. The City of Delta application states that the transfer of these lands into public ownership protects additional bog lands from future development and resolves the remaining MK Delta Lands Group holdings adjacent to the bog.

An Environmental Effects Assessment for the subject property was prepared by Environmental Dynamics as part of the proposal. The study concludes that the proposed industrial development, in

conjunction with the transfer of approximately 132 ha (326 ac) of Lots A, B, and C to public ownership results in a net gain in ecologically-sensitive lands, vegetation, and wildlife habitat protection. The study also finds a net gain for all broad ecosystem types, save for herb dominated habitat. Metro Vancouver staff note that Lots 4, A, B, and C are entirely comprised of sensitive ecosystems in the Metro Vancouver Sensitive Ecosystem Inventory. Lots 4, A, and B are wetland bog, and exhibit evidence of past peat harvesting, but recovery is in progress for all three sites. Lot 4 is in moderately better condition than Lot B, and Lot C is a mix of wetland bog and wetland swamp.

Strategy 3.2: Protect and enhance natural features and their connectivity

Looking at the overall trade-offs for the environment given the four properties at play is one aspect to consider, but the potential impacts for the subject property of the amendment from Agricultural to Industrial and the potential impacts on the adjacent bog is of critical importance to consider. To mitigate and monitor the proposal, environmental buffers are proposed around the perimeter of the development area, with the objective of separating bog waters and any run-off from the proposed industrial development. The proposed protection and enhancement areas on the subject property total approximately 12 ha (30 ac). Water quality and water level monitoring will be undertaken as part of stormwater management activities before, during, and after construction to ensure effective protection of adjacent bog lands. The owner has committed to 50 m buffers along the southern and western property border at the request of the Burns Bog Ecological Conservancy Area Scientific Advisory Panel.

The proposed development of the subject property will require up to 6 m (20 ft) of fill to raise the elevation and offset an anticipated 3 m of ground settlement. Potential impacts to the bog from surcharge loading and other construction activities are being addressed through water quality and water level monitoring. The introduction of fill to the site and the resulting sub-surface effects could have wide-ranging impacts including peat damage / fissures, a lowered water table, the intrusion of nutrient water, and an increased risk of fire and invasive species on the bog.

Metro Vancouver staff recommend that further information be sought from the City of Delta about the potential impacts and planned mitigation efforts for the addition of fill. Staff also recommend that the City of Delta consult with the Burns Bog Scientific Advisory Panel on these potential impacts.

GOAL 5 – SUPPORT SUSTAINABLE TRANSPORTATION CHOICES

Strategy 5.2: Coordinating land use and transportation to support the safe and efficient movement of vehicles for passengers, goods, and services

The subject property is well positioned to support regional goods movement due to its proximity to the U.S. border, Roberts Bank Container terminal, and other industrial docks and facilities along the Fraser River (i.e. Sunbury, River Road, Tilbury). Immediate adjacency to Hwy 17 allows direct access to an important regional goods movement corridor, thereby minimizing impact on residential areas and improving safety.

REQUEST FOR ADDITIONAL INFORMATION

As part of the review of the proposed amendment submission, Metro Vancouver staff identified a number of areas that would benefit from further information from the City of Delta. Two of these areas deal with the width of the proposed environmental buffers for the subject property and clarity

on the potential impacts of site surcharge loading. In addition, Water and Liquid Waste staff are also seeking further information.

Delta's application noted that environmental buffers will be provided and that water quality and water level monitoring will be undertaken as part of stormwater management activities before, during, and after construction to ensure effective protection of adjacent bog lands. In June 2016, the Burns Bog Scientific Advisory Panel recommended increasing the environmental buffers from 30 to 50 metres along both the west and south sides of the subject property. City of Delta staff have confirmed that, in response to the Scientific Advisory Panel's June 2016 comments, the property owner committed to increase the west perimeter buffer on the subject property from 30 m to 50 m.

City staff also stated that the plans, reports and detailed engineering servicing drawings will be revised to reflect the adjusted buffers should this application receive approval from Metro Vancouver. It has also been confirmed with the City of Delta the intent to have the Burns Bog Scientific Advisory Panel comment on any mitigation, maintenance and monitoring plans to be prepared for the environmental buffer as this application progresses.

Should the MVRD Board initiate the proposed amendment, staff will follow up with City staff regarding the following:

- 1) the rationale for maintaining the southern perimeter buffer width at 30 m and not 50 m.
- 2) Clarity on the information regarding the potential impacts of site surcharge loading, both over the short and long term and a rationale as to why the proposed surcharge loading of fill on Lot 4 is not expected to have an impact on the Bog's integrity.
- 3) Additional information on the anticipated impacts of the proposed amendment on the City's estimated water purchases from Metro Vancouver as a result of the proposed industrial development.
- 4) A request that, for consideration of the requested extension of the Fraser Sewerage Area, general design features be provided for the proposed sanitary system including projected flows.

Staff will provide any new information related to responses obtained to the above questions at the time it receives the comments from affected local governments and the MVRD Board considers subsequent readings of the amendment bylaw.

REGIONAL PLANNING ADVISORY COMMITTEE REVIEW

As per *Regional Growth Strategy Procedures Bylaw No. 1148, 2011* (amended in 2014) and *Regional Growth Strategy Implementation Guideline #2 Amendments to the Regional Growth Strategy*, the City of Delta application for the MK Delta Lands and staff assessment presented in this report was presented to the Regional Planning Advisory Committee at its meeting on March 15, 2019. No comments were made.

NEXT STEPS

Should the process for considering the *Metro 2040* amendment be initiated by the MVRD Board and the draft bylaw be given 1st and 2nd readings, staff will notify affected governments as per *Metro 2040* Section 6.4.2., and provide a comment period of approximately 45 days. The proposed amendment also triggers the need for a revised Regional Context Statement from the City of Delta so that mapping in the City's OCP, RCS and *Metro 2040* will be consistent. The City of Delta will forward its Regional Context Statement to Metro Vancouver for consideration by the MVRD Board.

Should the initial readings of the amendment bylaw be given, staff anticipate reporting back to the MVRD Board at its July 2019 meeting with a summary of comments on the proposed amendment, the updated Regional Context Statement, and the draft amendment bylaw for consideration of 3rd and final reading. If approval is given, consideration of the City's requested extension of the Fraser Sewerage Area could then be considered by the Liquid Waste Committee and Greater Vancouver Sewerage & Drainage District Board.

ALTERNATIVES

1. That the MVRD Board:
 - a) initiate the regional growth strategy amendment process for the City of Delta's proposed regional growth strategy amendment for the property located at 7969 Highway 91 Connector;
 - b) give first and second readings to "Metro Vancouver Regional District Regional Growth Strategy Amending Bylaw No. 1283, 2019";
 - c) direct staff to notify affected governments as per *Metro Vancouver 2040: Shaping Our Future* Section 6.4.2; and,
 - d) direct staff to request additional information from City of Delta staff as laid out in the report dated March 15, 2019, entitled "Metro 2040 Land Use Designation Amendment Request from the City of Delta – MK Delta Lands".
2. That the MVRD Board decline the proposed amendment for the MK Delta Lands and notify the City of Delta of the decision.

FINANCIAL IMPLICATIONS

If the MVRD Board chooses Alternative 1, notification will be given to all affected local governments as laid out in the *Local Government Act* and *Regional Growth Strategy Implementation Guideline #2: Amendments to the Regional Growth Strategy*.

If the MVRD Board chooses Alternative 2, the City of Delta will be notified of the Board's decision. A dispute resolution process may take place as described in the *Local Government Act*. The cost of this dispute resolution is prescribed based on the proportion of assessed land values. Metro Vancouver would be responsible for most of the associated costs.

SUMMARY / CONCLUSION

On February 12, 2019, the City of Delta submitted a request to Metro Vancouver to amend the regional land use designation for a property located at 7969 Highway 91 Connector in Delta. The City is requesting an amendment to the regional land use designation for the subject property from

Agricultural to Industrial, and to include the subject property within the Urban Containment Boundary.

Should the amendment be approved, the property owner has committed to transfer three other lots that it owns, totalling 132 ha (328 ac), that are located adjacent to the Burns Bog Ecological Conservancy Area, to the City of Delta for protection from future development. In addition, one of those properties will also be included in the ALR, and funds will be provided by the owner to improve drainage and irrigation on agricultural lands elsewhere in the municipality.

Staff conclude that the proposed amendment will result in a net benefit to the municipality and region by: increasing the supply of industrial lands in the region; increasing land in the ALR and providing funds to improve the productivity of other agricultural lands; and increasing the protection of ecologically important lands contiguous with Burns Bog by eliminating the potential for permitted industrial extraction activities on three additional parcels by transferring them to public ownership.

Staff note a concern with the mitigation measures proposed for the industrial development on lands to be redesignated (Lot 4). There is likely a significant environmental impact to converting these lands to industrial uses, and an increased risk to the BBECA. Given that the parcel to the east of Lot 4 would be further isolated as a result of the proposal, the likelihood of a future application for its redesignation also increases.

As a result of the complete analysis, staff recommend Alternative 1, to initiate the proposed amendment and request further information from the City of Delta regarding proposed environmental mitigation measures for the subject property.

Attachments:

1. Metro Vancouver Regional District Regional Growth Strategy Amending Bylaw No. 1283, 2019.
2. City of Delta Referral to Metro Vancouver for the MK Delta Lands Group Industrial Development Application at 7969 Highway 91 Connector, Delta (569244 BC Ltd.) (*orbit doc #28905443*)

28905446

ATTACHMENT 1

**METRO VANCOUVER REGIONAL DISTRICT
REGIONAL GROWTH STRATEGY AMENDMENT BYLAW NO. 1283, 2019**
A Bylaw to Amend "Greater Vancouver Regional District Regional Growth Strategy
Bylaw Number 1136, 2010"

WHEREAS the Metro Vancouver Regional District (the "MVRD") Board (the "Board") has adopted the "Greater Vancouver Regional District Regional Growth Strategy Bylaw Number 1136, 2010" on July 29, 2011;

WHEREAS the Metro Vancouver Regional District wishes to amend "Greater Vancouver Regional District Regional Growth Strategy Bylaw Number 1136, 2010";

NOW THEREFORE the Metro Vancouver Regional District Board of Directors enacts as follows:

1. "Greater Vancouver Regional District Regional Growth Strategy Bylaw Number 1136, 2010" is hereby amended as follows:
 - a) Re-designating the subject property at 7969 Highway 91 Connector (Lot 4 Plan NWP1180 District Lot 437 Land District 2 Land District 36 Except Plan EPP375) from Agricultural to Industrial, as shown in the maps contained in Schedule "A" attached to and forming part of this Bylaw;
 - b) Extending the Urban Containment Boundary to encompass the subject property at 7969 Highway 91 Connector (Lot 4 Plan NWP1180 District Lot 437 Land District 2 Land District 36 Except Plan EPP375), as shown in the maps contained in Schedule "A" attached to and forming part of this Bylaw; and
 - c) Maps 2, 3, 4, 6, 7, 11, and 12, contained in Greater Vancouver Regional District Regional Growth Strategy Bylaw Number 1136, 2010 are deleted and replaced with Maps 2, 3, 4, 6, 7, 11, and 12 as contained in Schedule "B" attached to and forming part of this Bylaw.
2. This bylaw shall be cited as "Metro Vancouver Regional District Regional Growth Strategy Amendment Bylaw No. 1283, 2019". This bylaw may be cited as "Regional Growth Strategy Amendment Bylaw No. 1283, 2019".

READ A FIRST TIME this _____ day of _____, 2019.

READ A SECOND TIME this _____ day of _____, 2019.

READ A THIRD TIME this _____ day of _____, 2019.

PASSED AND FINALLY ADOPTED this _____ day of _____, 2019.

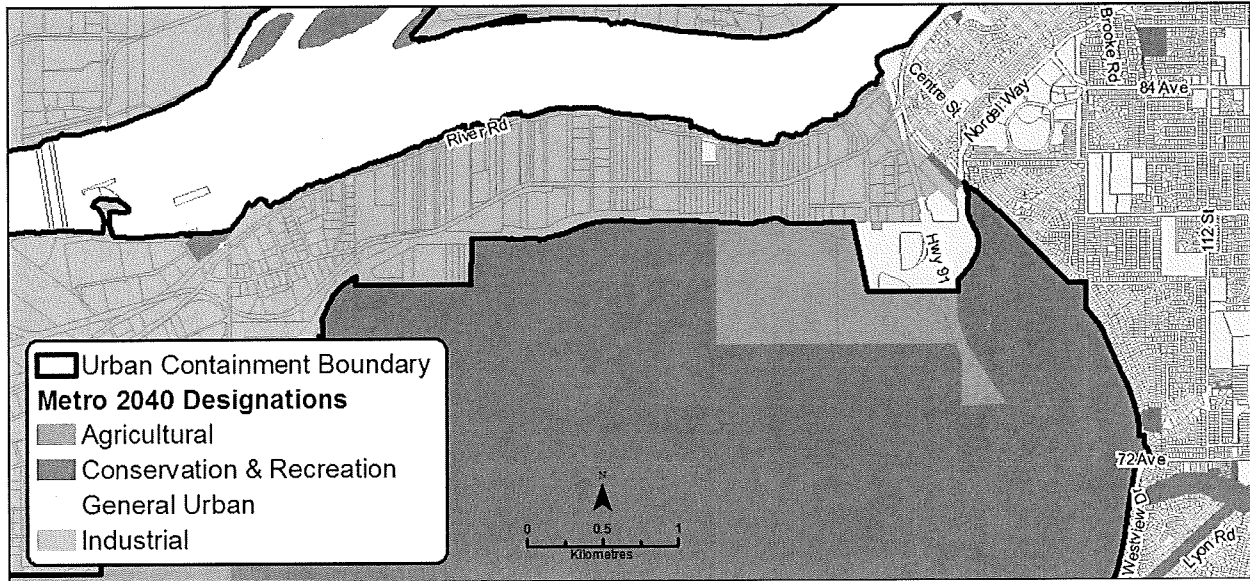
Sav Dhaliwal, Chair

Chris Plagnol, Corporate Officer

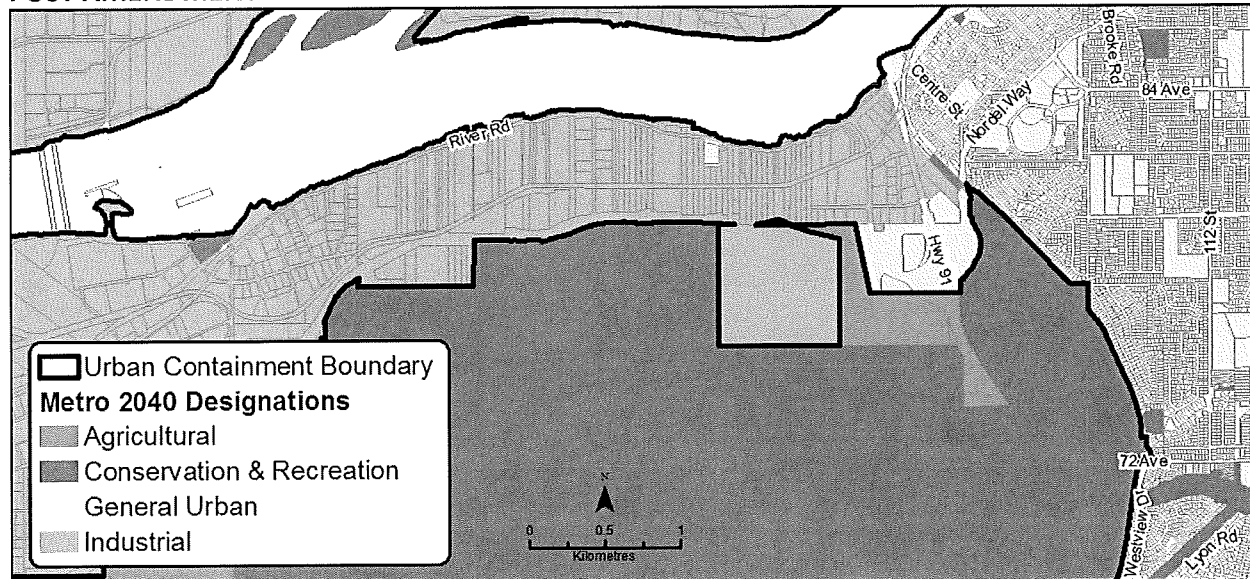
SCHEDULE A

The subject property at 7969 Highway 91 Connector includes lands redesignated from Agricultural to Industrial.

PRIOR TO AMENDMENT

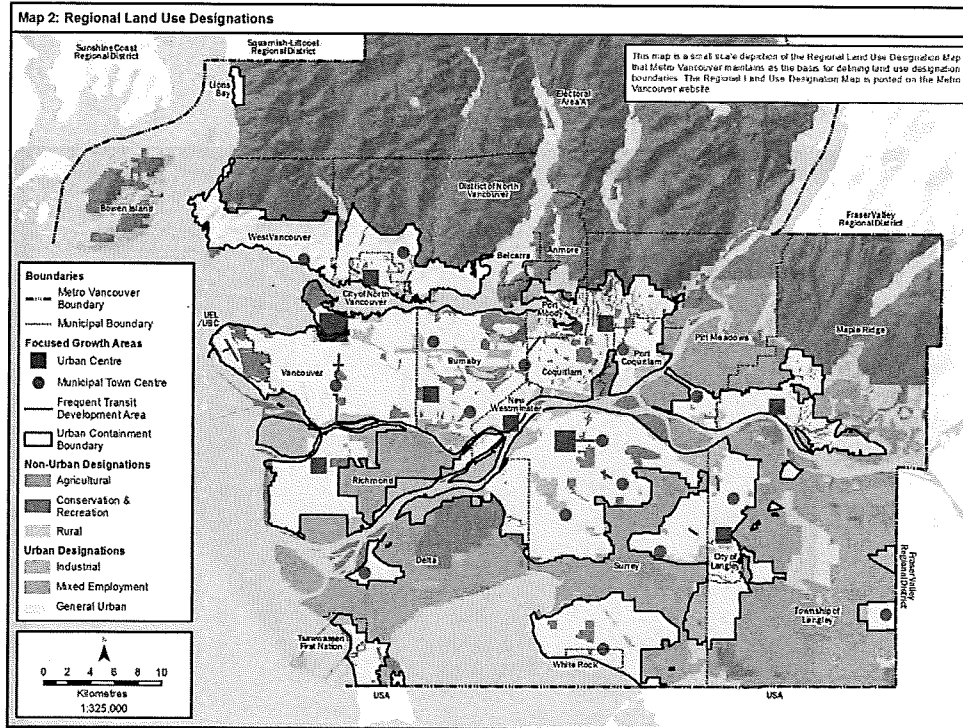


POST AMENDMENT

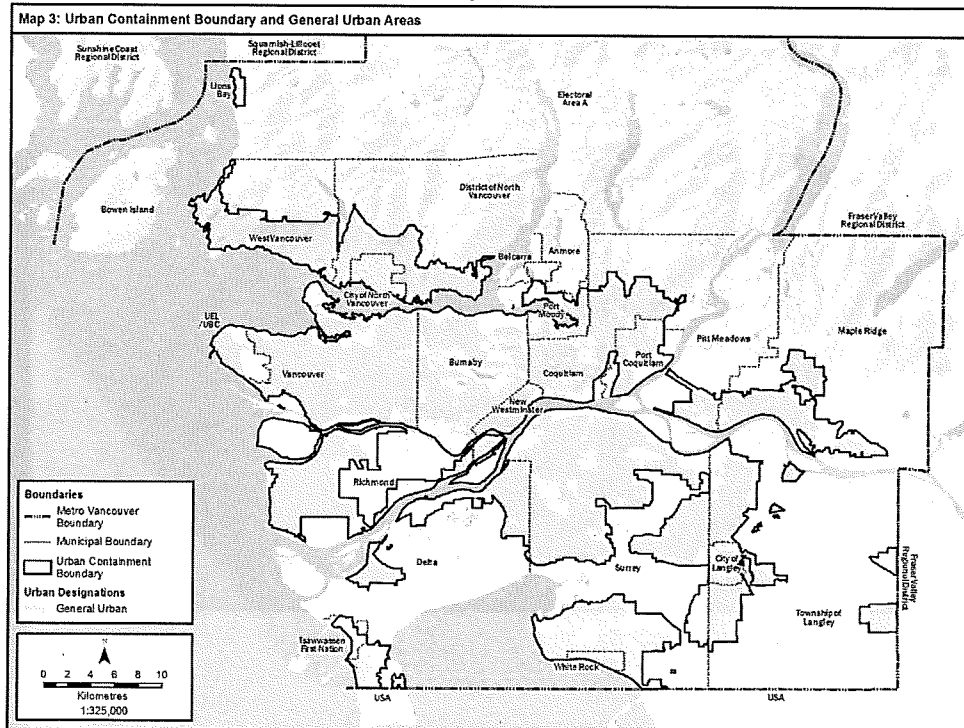


SCHEDULE B

Map 2 Regional Land Use Designations

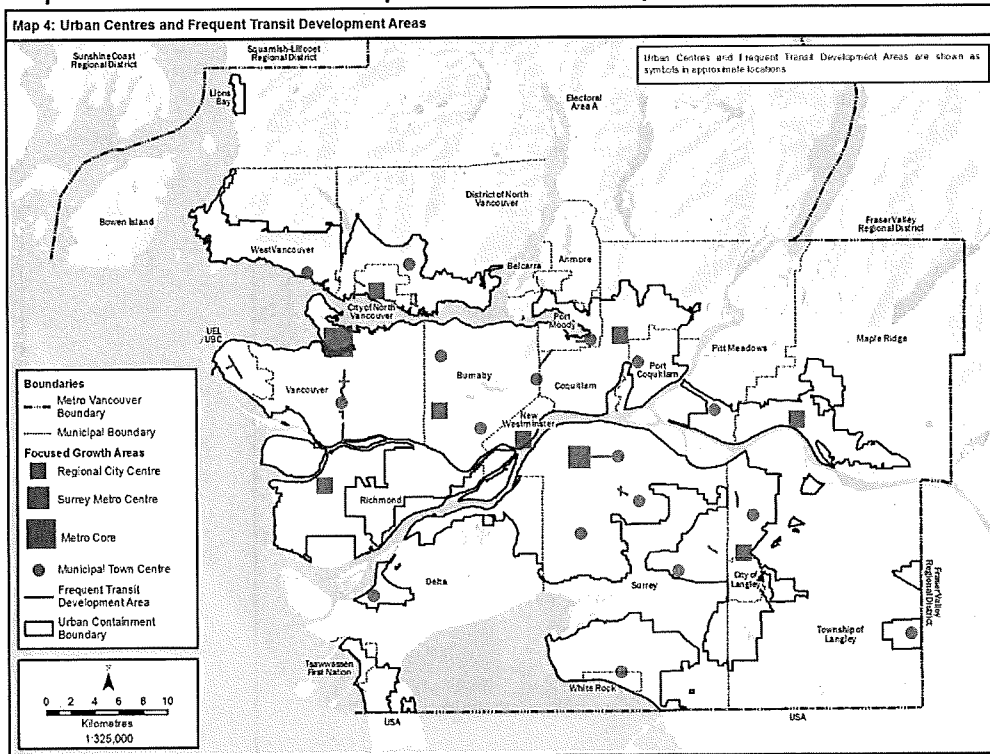


Map 3 Urban Containment Boundary and General Urban Areas

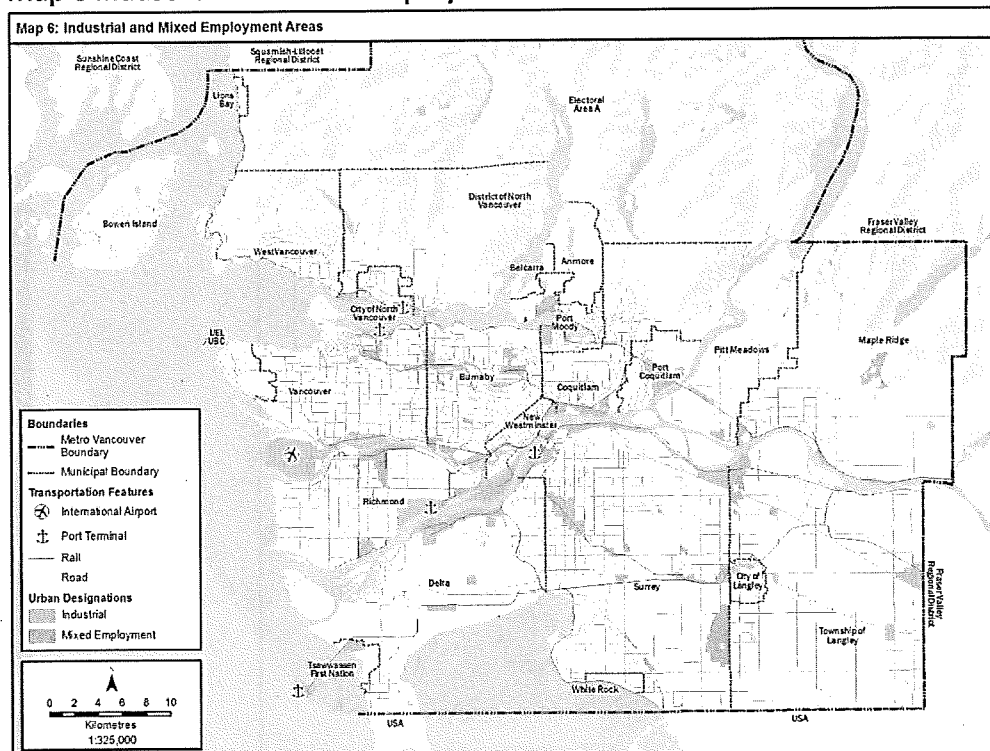


SCHEDULE B (continued)

Map 4 Urban Centres and Frequent Transit Development Areas

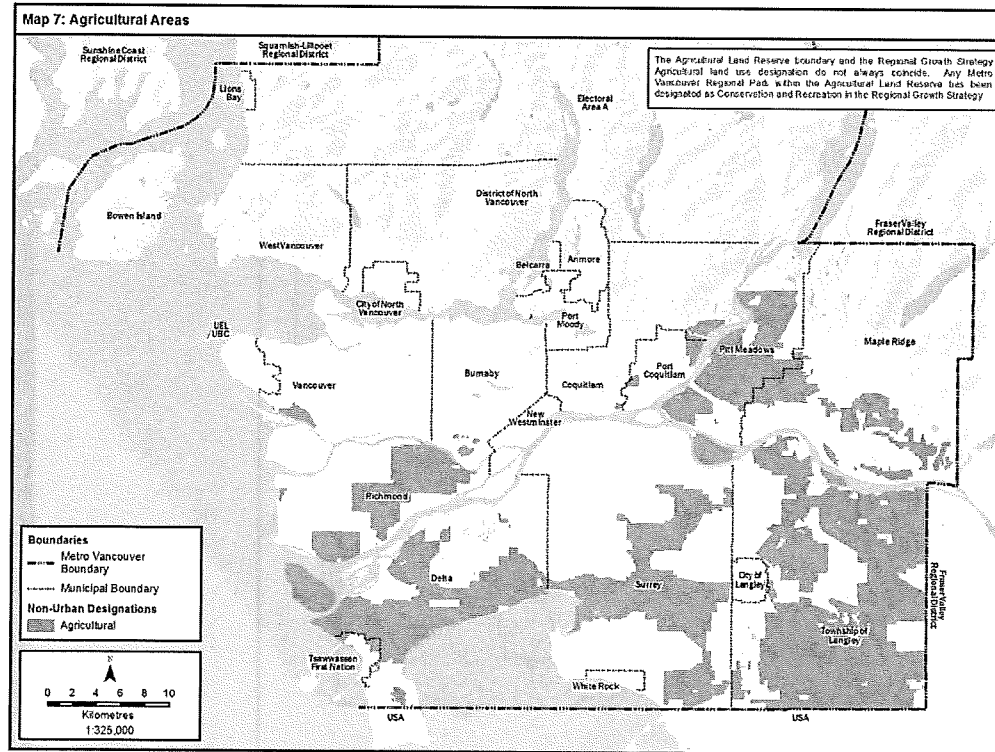


Map 6 Industrial and Mixed Employment Areas

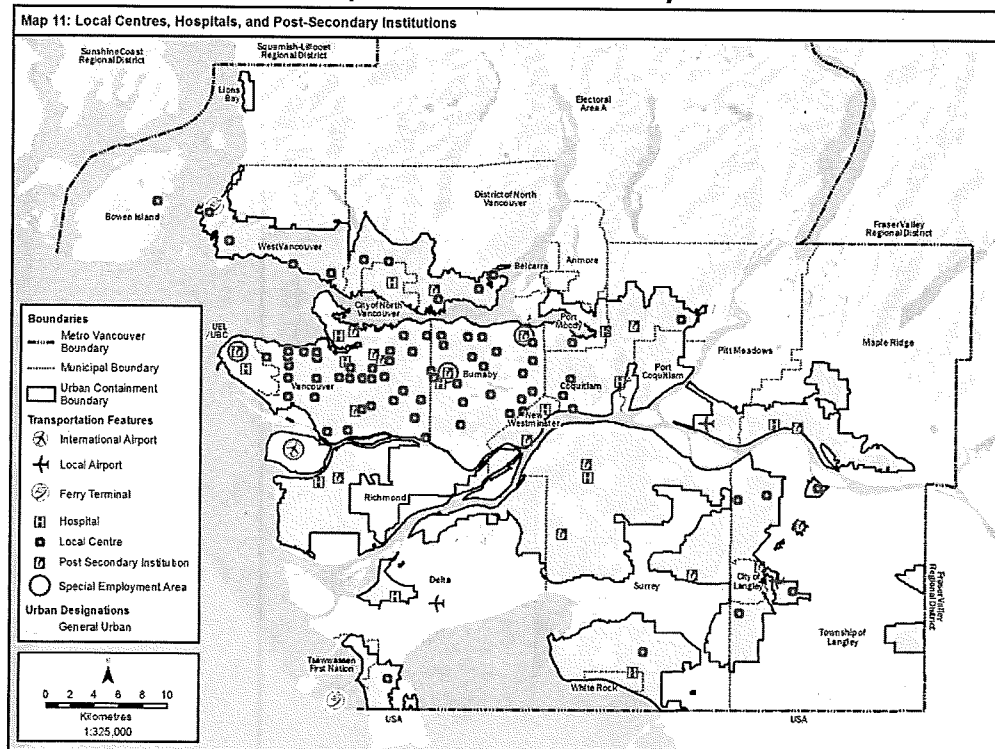


SCHEDULE B (continued)

Map 7 Agricultural Areas

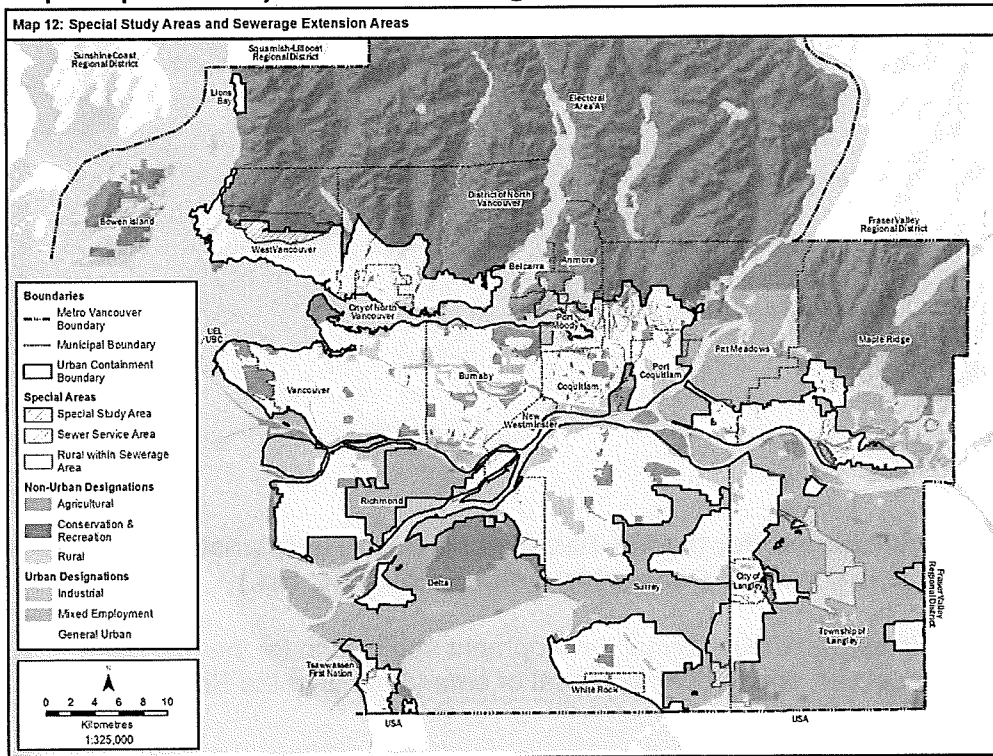


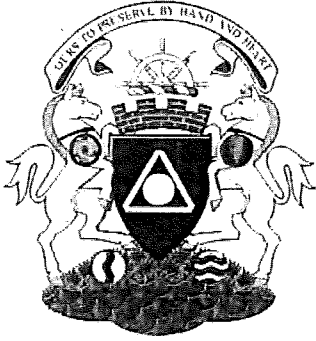
Map 11 Local Centres, Hospitals and Post-Secondary Institutions



SCHEDULE B (continued)

Map 12 Special Study Areas and Sewerage Extension Areas





CITY OF DELTA
Office of The Mayor, George V. Harvie



February 19, 2019

Sav Dhaliwal, Chair
 Metro Vancouver Board of Directors
 4730 Kingsway, MetroTower III
 Burnaby, BC V5H 0C6

Dear Chair Dhaliwal,

Re: Referral to Metro Vancouver for the MK Delta Lands Group Industrial Development Application at 7969 Highway 91 Connector, Delta (569244 BC Ltd.)

The purpose of this letter is to refer the industrial development application for the MK Delta Lands Group to Metro Vancouver, and to seek approval of amendments to the Regional Growth Strategy and Fraser Sewerage Area.

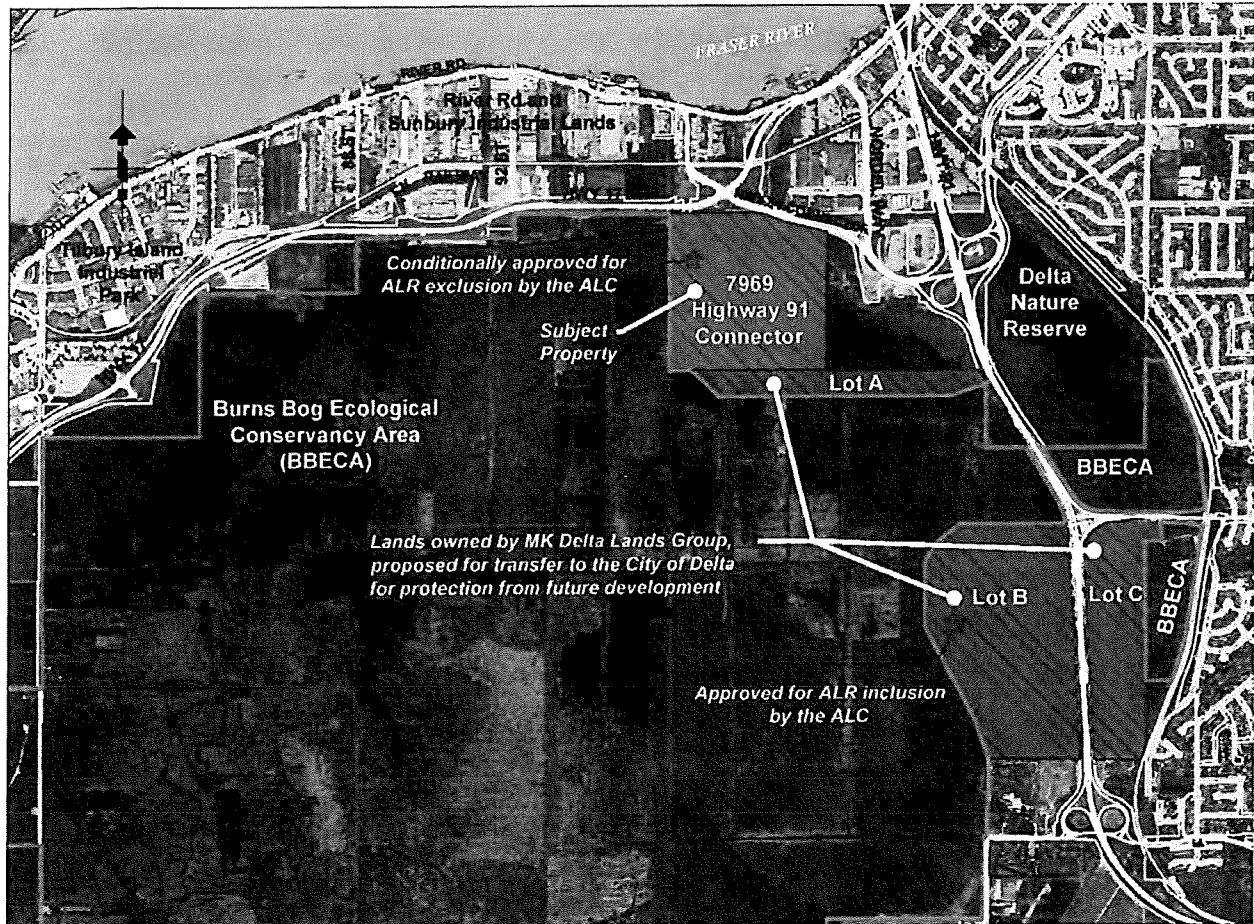
Proposal

The MK Delta Lands Group application involves a master-planned industrial subdivision with environmental and agricultural buffers on the 62.7 ha (155 ac) site at 7969 Highway 91 Connector as shown on the Location Map on the following page. The site is located just south of Highway 17 (South Fraser Perimeter Road) and the existing Sunbury industrial business area and it is adjacent to the Burns Bog Ecological Conservancy Area (BBECA). The subject property is located within the Agricultural Land Reserve (ALR), but has received conditional approval for exclusion. The subject property is currently designated Agricultural (A) in Delta's Official Community Plan and zoned Extraction Industrial (I3) in Delta's Zoning Bylaw. The following is a summary of the proposed land use components which are illustrated on the development concept plan in Attachment A:

Proposed Land Use	Area
Industrial (developable area)	43.79 ha (108.2 ac)
Internal Roads and Utilities	3.38 ha (8.4 ac)
Future Highway Access	3.08 ha (7.6 ac)
Protection/Enhancement Areas:	
West and South Perimeter Buffer, Fill Slope and Maintenance Access	5.92 ha (14.6 ac)
North Undisturbed Area and Fill Slope	6.23 ha (15.4 ac)
East Perimeter Ditch and Fill Slope	0.3 ha (0.74 ac)
Total:	62.7 ha (155 ac)

February 19, 2019
Page 2

Location Map



© Current Development LU FILES\LU0074\LU007445\Drawings\LU007445 exclusion inclusion dwg, 1/24/2019 2:28:11 PM, sendur

Environmental and Agricultural Benefits and Community Amenities

Given the location of the site, the applicant is proposing buffers around the perimeter of the development area to protect the adjacent BBECA by keeping development run-off and bog waters separate (refer to the BBECA mitigation buffer in Attachment A). The buffer areas to the west and south would be owned and managed by Delta; however, the applicant would be responsible for the installation of the berm and fill slope and interim maintenance and monitoring prior to Delta assuming responsibility for the buffer area. The north and east buffers would be on privately owned lands. Water quality and water level monitoring would be done before, during and after construction to ensure effective protection of the BBECA.

February 19, 2019
Page 3

Access to the site is proposed from an improved connection to the Highway 91 Connector. The existing Highway 17 (SFPR) and Highway 91 Connector junction is a signalized at-grade intersection and is currently operating at capacity during the peak periods. To support the continual traffic growth on the SFPR and the Highway 91 Connector, the Province is undertaking improvements to the Sunbury Interchange involving grade separation of the intersection of Highway 91 Connector and SFPR, upgrade of the Highway 91 and Nordel Way interchange, and access improvements at River Road and SFPR. The proposed industrial development on the subject property would be contingent upon or phased to coincide with the completion of the Sunbury Interchange project.

Should the industrial development application be approved, the applicant has committed to providing land dedication and \$11 million towards the following:

- Transferring the following lands to Delta:
 - 132.7 ha (328 ac) of land (Lots A, B and C) as shown on the Location Map. This would place additional bog lands in public ownership. These privately owned lands are currently located outside of the ALR and the BBECA. As part of this application, Lot B (7007 Highway 91) would be included in the ALR. Lots A, B and C are zoned Extraction Industrial (I3) which permits a range of industrial extraction activities including peat extraction. Dedication to Delta would protect these lands from future development or disturbance.
 - 5.92 ha (14.6 ac) as shown as the BBECA mitigation buffer on Attachment A. This lot would contain an environmental buffer area along the west and south property lines and maintenance access.
- \$6 million towards agricultural drainage and irrigation improvements. The applicant commissioned a study to identify opportunities to improve agricultural capability and suitability on Westham Island that found that unless sufficient suitable irrigation water and improved drainage can be supplied to Westham Island, crop production is anticipated to decrease and the effects of salinity on soils may increase. Improving components of Delta's existing irrigation and drainage system would increase the availability of non-saline irrigation water to Westham Island. Part of the financial contribution would also be set aside for East Delta drainage and irrigation improvements.
- \$5 million towards transportation improvements and community amenities as determined by Council.

Process

The proposal requires amendments to Delta's Official Community Plan and Zoning Bylaw, a sanitary sewer area extension and a development permit in order to allow for an industrial subdivision. The application also included a request to exclude the subject property from the ALR, a request to amend the Metro Vancouver Regional Growth Strategy to permit industrial uses on the subject property, and a request to include Lot B (7007 Highway 91) into the ALR. The

February 19, 2019
Page 4

Provincial Agricultural Land Commission (ALC) has conditionally approved the exclusion and inclusion applications (refer to the ALC Decision section below).

This application has been under consideration since April 2015. Delta has, throughout that period, undertaken extensive analysis of the project and has consulted with the community. The consultation process included:

- Public Information Meeting hosted by the MK Delta Lands Group on February 25, 2016
- Public Information Meeting hosted by Delta on May 25, 2016
- Public Hearing on July 26, 2016

Throughout the application process, a number of technical studies have been completed. The application analysis is provided in the staff report dated June 10, 2016 which was considered by Council at their June 20, 2016 Regular Meeting. The studies and other documents are available through Delta's website at www.delta.ca/mkindustrial.

On June 20, 2016, Council gave first and second readings to Bylaws No. 7505, 7506 and 7507, and first, second and third readings to Bylaw No. 7508. On July 11, 2016, Council rescinded second reading of Bylaw No. 7505, and gave second reading to an amended bylaw that corrected an error in the regional land use designation. These bylaws would:

- amend the regional land use designation in the Regional Context Statement in Schedule A of the Official Community Plan from Agriculture to Industrial and extend the Urban Containment Boundary to include the subject property (Bylaw No. 7505);
- amend the land use designation for the subject property in the Future Land Use Plan in Schedule A of the Official Community Plan from Agricultural (A) to Industrial (I) (Bylaw No. 7506);
- rezone from I3 Extraction Industrial to Comprehensive Development Zone No. 474 (C.D. 474) to permit industrial uses on a majority of the site with environmental buffers along the perimeter (Bylaw No. 7507); and
- extend the Sewer Area boundary to include the subject property in Delta's Sewer Area and Metro Vancouver's Fraser Sewerage Area (Bylaw No. 7508).

On June 20, 2016, Council also received Development Permit LU007445 which would address environmental setbacks within the Streamside Protection and Enhancement (SPEA) Development Permit Area.

Bylaws No. 7505, 7506 and 7507 and Development Permit LU007445 were referred to the July 26, 2016 Public Hearing. At the Public Hearing there were:

- 25 speakers: 11 in support, 10 in objection, 3 with concerns, and 1 comment;
- 89 letters: 36 in support, 45 in objection and 8 with concerns; and

February 19, 2019
Page 5

- 5 petitions in objection with a total of 1,416 hard copy signatures and 944 online.

At the Meeting Following the Public Hearing on July 26, 2016, Council gave third reading to Bylaws No. 7505, 7506 and 7507. On July 24, 2017, Council extended third reading of Bylaws No. 7505, 7506, 7507 and 7508 to December 31, 2018.

On July 26, 2016, Council also endorsed the following motions:

- THAT the Metro Vancouver Board be requested to amend "Greater Vancouver Regional Growth Strategy Bylaw No. 1136, 2010" by changing the regional land use designation of the property at 7969 Highway 91 Connector from Agriculture to Industrial and to include the subject property in the Urban Containment Boundary; and
- THAT the Metro Vancouver Board be required to approve "Delta Sewer Area Extension and Enlargement (MK Delta Lands Group – LU007445) Bylaw No. 7508, 2016" to extend the sewer area to include the property at 7969 Highway 91 Connector.

Referrals for the amendments to the Regional Growth Strategy and the Fraser Sewerage Area are now being undertaken following the ALC's recent conditional approvals (see below).

Provincial Agricultural Land Commission Decision

The applications to exclude the 62.7 ha (155 ac) property at 7969 Highway 91 Connector from the ALR and to include the 78.1 ha (193 ac) property at 7007 Highway 91 (Lot B) into the ALR were conditionally approved by the ALC on September 11, 2018. The majority of the ALC Executive Committee upheld an August 2017 conditional approval decision of the South Coast Panel. The key points of the decision include:

1. The proposed industrial property at 7969 Highway 91 Connector (subject property) has a history of peat extraction and has been disturbed to a greater extent than the property proposed for inclusion at 7007 Highway 91 (Lot B). The Panel found that both properties exhibit a bog ecosystem and that a cranberry operation would be the most suitable agricultural use; however, establishing a cranberry operation on the subject property would be unreasonably difficult due to the degree of disturbance exhibited. As such, the property at 7969 Highway 91 Connector is suitable for exclusion from the ALR.
2. Due to the lesser degree of disturbance and the greater probability of future agricultural remediation, 7007 Highway 91 (Lot B) is suitable for inclusion into the ALR.
3. A covenant that restricts agricultural uses on 7007 Highway 91 (Lot B) is not appropriate for a parcel within the ALR as it would preclude any future remediation and use of the property for agriculture. The Panel is opposed to a restrictive covenant or any future Official Community Plan and rezoning amendment that would prohibit agricultural uses on Lot B.

February 19, 2019
Page 6

The ALR exclusion and inclusion approval are subject to the following conditions:

- Submission of a vegetative buffering plan, prepared by a qualified professional, for all boundaries of 7969 Highway 91 Connector that abut ALR lands consistent with section 3.8b in the Ministry of Agriculture and Lands' Guide to Edge Planning. The plan must be reviewed and approved by the ALC;
- Installation of the required vegetative buffering plan;
- Agriculture cannot be restricted on 7007 Highway 91 (Lot B) by covenant or otherwise; and
- Any future Official Community Plan or rezoning amendments for 7007 Highway 91 (Lot B) Connector must include agricultural uses and be subject to ALC review and approval.

ALC staff have advised that the exclusion conditions would be satisfied by the submission and approval of the vegetative buffering plan, registration of a covenant on the property at 7969 Highway 91 Connector between the applicant, Delta and the ALC for the installation and maintenance of the agricultural buffer and provision of a letter of credit for the cost of agricultural buffer to be held by the ALC. The applicant prepared a vegetative buffering plan that was accepted by ALC staff on January 24, 2019. Delta staff are in the process of preparing the terms of the covenant for the three parties to sign. Prior to registration of the covenant, the applicant would deposit the letter of credit, based on an accepted cost estimate, with the ALC. Delta staff will update Metro Vancouver on the status of the exclusion process when final confirmation is received from the ALC.

With respect to the ALC's conditions for 7007 Highway 91 (Lot B), Delta agreed to not restrict agriculture on the property by covenant or otherwise, and to include agricultural uses in any future Official Community Plan or zoning amendments for the property subject to ALC's review and approval. Having satisfied the conditions for inclusion, ALC staff advised in December 2018 that the property at 7007 Highway 91 (Lot B) would be added to the ALR.

Local and Regional Context

The Regional Growth Strategy Amendments Map provided in Attachment B illustrates the proposed regional land use designation amendment from Agriculture to Industrial and amendment to the Urban Containment Boundary to include the subject property. Metro Vancouver staff provided comments on the MK Delta Lands Group application on May 27, 2016. The comments identified regional factors, which should be considered should Council submit a request for a Regional Growth Strategy amendment and sanitary sewer area extension. Further discussion on the regional factors and technical information identified by Metro Vancouver and Delta staff response are provided in Attachments C and D to this letter, and were also included in the staff report dated June 10, 2016 to Council. Also attached is a certified copy of Bylaw No. 7508 to extend the sanitary sewer area (Attachment E).

February 19, 2019
Page 7

In Delta's view, some of the significant regional benefits that would be generated by this proposal include the following:

- Dedication to Delta of 132.7 ha (328 ac) of land adjacent to the BBECA would protect these lands from future development and would place additional bog lands in public ownership.
- Environmental and agricultural buffer areas are proposed on the subject property around the perimeter of the development. The buffers would protect the adjacent BBECA by keeping development run-off and bog waters separate, and would mitigate potential conflicts between industrial and agricultural uses should the adjacent lands to the east within the ALR be farmed.
- This proposal would create an additional 43.79 ha (108.2 ac) of industrial lands for development which would contribute to Delta's and the region's supply of industrial lands.
- The loss of ALR lands is proposed to be offset by:
 - The inclusion of a 78.1 ha (193 ac) parcel (7007 Highway 91) with similar agricultural capability into the ALR.
 - The applicant's proposal to contribute a minimum \$6 million for irrigation and drainage improvements for Westham Island and East Delta would assist in increasing the agricultural productivity of valuable cultivated lands in Delta.

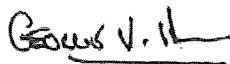
Conclusion

In forwarding this application to Metro Vancouver, we have prepared a comprehensive package that contains all of the information noted in Attachment F, including staff reports, minutes of Council meetings and the Public Hearing, applicable technical reports and the vegetative buffering plan for 7969 Highway 91 Connector.

Delta's request for an amendment to the Regional Context Statement will be forwarded to Metro Vancouver for consideration should the amendments to the Regional Growth Strategy and Fraser Sewerage Area be approved.

Should you require any further information, please contact Marcy Sangret, Director of Community Planning & Development, by phone at 604.946.3219 or email at msangret@delta.ca.

Yours truly,



George V. Harvie
Mayor

February 19, 2019
Page 8

Enclosures:

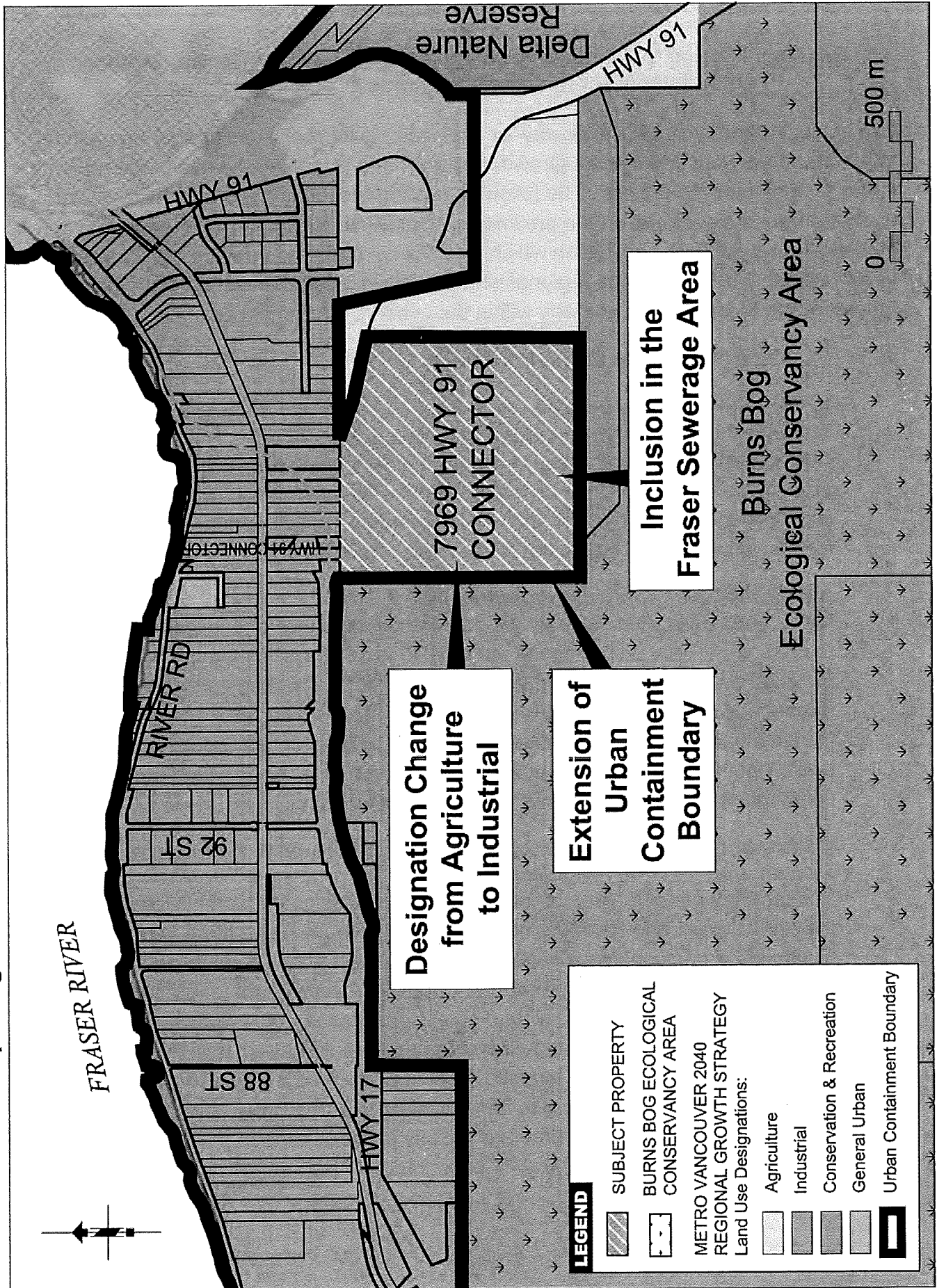
- A. Development Concept Plan
- B. Proposed Regional Growth Strategy Amendments Map
- C. Regional Factors to Consider for the Proposed Regional Growth Strategy Amendments
- D. Sewer Area Extension Evaluation Summary and Sanitary Sewer Area Map
- E. Sanitary Sewer Area Extension Bylaw No. 7508 Certified Correct
- F. List of Information Included in Referral Package to Metro Vancouver

cc: Delta Council
Metro Vancouver Board of Directors
Carol Mason, Commissioner/Chief Administrative Office, Metro Vancouver
Heather McNell, Director of Regional Planning & Electoral Area Services, Metro Vancouver
Mark Wellman, Senior Project Engineer, Liquid Waste Services, Metro Vancouver
Sean McGill, City Manager, City of Delta
Steven Lan, Director of Engineering, City of Delta
Marcy Sangret, Director of Community Planning & Development, City of Delta



Amendments Requiring Metro Vancouver Approval

Attachment B
Page 1 of 1



Regional Factors to Consider for the Proposed Regional Growth Strategy Amendments for the MK Delta Lands Group Application

The subject property at 7969 Highway 91 Connector is currently designated Agriculture in the Metro Vancouver Regional Growth Strategy, and is located outside of the regional Urban Containment Boundary. The following section responds to comments received by Metro Vancouver based on the preliminary application circulation for the proposed industrial business park application which would require amendments to the Regional Growth Strategy to change the regional land use designation of the subject property to Industrial and to include the property within the Urban Containment Boundary.

1) Support a Sustainable Economy (Goal 2)

2.1 Promote land development patterns that support a diverse regional economy and employment close to where people live.

The property is situated directly south of the Sunbury industrial business park area and is located in close proximity to both Highway 17 and Highway 91. The proposed industrial development would create an employment area that is located in close proximity to the North Delta community.

2.2 Protect the supply of industrial land.

Metro Vancouver studies show the demand for industrial land is increasing and the region will face a shortage in the next 10 to 15 years. The applicant has provided an Industrial Development, Market and Impact Study prepared by Site Economics Ltd., dated November 2015, which also provides an analysis of the industrial land supply with similar conclusions. This proposal would create an additional 43.79 ha (108.2 ac) of developable industrial lands which would contribute to Delta's and the region's supply of industrial lands.

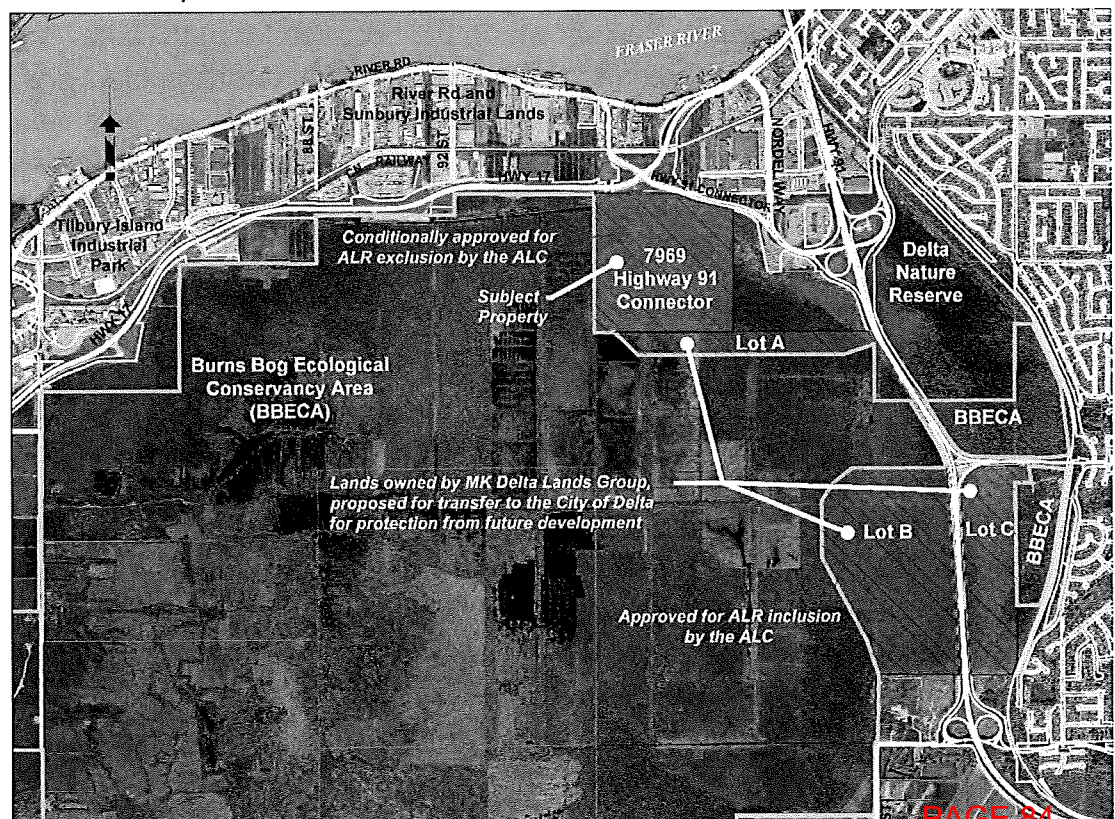
2.3 Protect the supply of agricultural land and promote agricultural viability with an emphasis on food production.

The property has a regional Agriculture land use designation and is located with the Agricultural Land Reserve; however, the Provincial Agricultural Land Commission has conditionally approved the subject property for exclusion. The applicant has provided an Agricultural Capability Assessment for the subject property prepared by PGL Environmental Consultants, dated March 2016. The assessment found that drainage improvements would be required to improve the agricultural capability of the lands to organic Class 4 soils with excess water. Given the property's proximity to the much larger Burns Bog Ecological Conservancy Area, surface drainage for any crops other than cranberries would be a significant undertaking.

The applicant proposes to offset the requested Agricultural Land Reserve exclusion for the subject property by:

- providing Delta with a \$6 million contribution towards drainage and irrigation improvements for Westham Island and East Delta. This proposal is based on the conclusions of the Agricultural Benefit for Westham Island Salinity Analysis by PGL Environmental Consultants, dated March 2016, that identified opportunities to improve agricultural capability and suitability on Westham Island. The study found that unless sufficient suitable irrigation water can be supplied to Westham Island, crop production is anticipated to decrease and the effects of salinity on soils may increase. Improving components of Delta's existing irrigation system would increase the availability of non-saline irrigation water to Westham Island. Part of the contribution would also be set aside for East Delta drainage. Improvement options in the vicinity of Lorne Ditch would be reviewed. The applicant's proposal to contribute \$6 million for irrigation and drainage improvements for Westham Island and East Delta would assist in increasing the agricultural productivity of valuable cultivated lands in Delta; and
- including the property at 7007 Highway 91 (Lot B) as shown on the Location Map below, totaling 78.1 ha (193 ac) into the Agricultural Land Reserve.

Location Map



G:\Current Development\LU FILES\LU037\LU037445\Drawings\LU037445_exclusion_inclusion.dwg, 1/24/2019 2:28:11 PM, andrew

Inclusion of this property was not part of the original application as Lot B has considerable ecological values. However, it is recognized that there are existing environmentally sensitive lands located within the Burns Bog Ecological Conservancy Area that are also located within the Agricultural Land Reserve. The Provincial Agricultural Land Commission has approved inclusion of Lot B into the Agricultural Land Reserve. Should the industrial business park application be approved and the land transferred, Delta would manage Lot B consistent with the Burns Bog Ecological Conservancy Area and apply a conservation covenant.

2) Protect the Environment and Respond to Climate Change (Goal 3)

3.1 Protect Conservation and Recreation lands.

The applicant is proposing to transfer to Delta a total of 132.7 ha (328 ac) of land (Lots A, B and C). These lands have a regional land use designation of Conservation & Recreation. These privately-owned lands are currently located outside of the Burns Bog Ecological Conservancy Area. They are zoned Extraction Industrial (I3) which permits a range of industrial extraction activities including peat extraction. Dedication to Delta would protect these lands from future development and would place additional bog lands in public ownership.

3.2 Protect and enhance natural features and their connectivity.

The applicant submitted an Environmental Effects Assessment, dated April 2016, prepared by Environmental Dynamics Inc. that found that the proposed industrial development would realize a net gain in ecologically sensitive lands, vegetation and wildlife habitat protection with the proposed transfer of 132.7 ha (328 ac) of land (Lots A, B and C as shown on the Location Map) to Delta for protection from development. Other than the change in habitat for the subject site, development impacts can be minimized through the implementation of mitigation measures for fish and fish habitat, wildlife and vegetation. A covenant would be registered on the subject property that would require implementation and monitoring of the proposed mitigation measures.

Environmental buffer areas are proposed around the perimeter of the development area on the subject property to protect the adjacent Burns Bog Ecological Conservancy Area by keeping development run-off and bog waters separate. In addition to the peat berm and perimeter ditches, the site would be surrounded by a fill slope that would transition from the development site down to the perimeter ditches. A fence would be placed at the top of the slope to prevent public access to the perimeter buffer areas and the adjacent Burns Bog Ecological Conservancy Area and to maintain continuity of the South Fraser Perimeter Road wildlife fence. The buffer areas to the west and south would be owned and managed by Delta; however, the applicant would be responsible for

the installation of the berm and fill slope and interim maintenance and monitoring prior to Delta assuming responsibility for the buffer area. The north buffer and the east perimeter ditch and fill slope would be on privately-owned lands. Water quality monitoring would be done before, during and after construction to ensure effective protection of the Burns Bog Ecological Conservancy Area.

3.3 Encourage land use and transportation infrastructure that reduce energy consumption and greenhouse gas emissions, and improve air quality.

The industrial development on the subject property would be contingent upon or phased to coincide with the completion of the Sunbury Interchange Project which would reduce congestion and the associated idling thereby improving local air quality and reducing greenhouse gas emissions from transportation.

The development itself would have a 3 m (10 ft) wide multi-use pathway to encourage walking and connectivity to public transit. Links to the local and regional cycling network would provide options for employees to seek alternative modes of transportation and thereby reducing greenhouse gas emissions.

The proposed design guidelines encourage the implementation of sustainable, energy-efficient design standards in building and site design. It is noted that energy-efficient design standards utilizing natural lighting, promoting renewable energy use and adhering to LEED standards would be implemented wherever applicable. Opportunities to incorporate renewable energy systems into buildings would also be pursued.

3.4 Encourage land use and transportation infrastructure that improve the ability to withstand climate change impacts and natural hazard risks.

The development site would be elevated significantly above existing site grades to about 5.3 m geodetic with mineral fill. This is in excess of the design flood proofing grade and current height of the Fraser River dike.

Stormwater infrastructure proposed includes increased pumping capacity with a new pump station at the Silda outfall which would provide drainage for the project site as well as improving drainage for the existing Nordel Industrial area. This would accommodate the more intense storm events predicted due to climate change.

3) Support Sustainable Transportation Choices (Goal 5)

5.1 Coordinate land use and transportation to encourage transit, multiple-occupancy vehicles, cycling and walking.

The development would have 3 m (10 ft) wide multi-use pathways on both sides of the internal roads to encourage walking and cycling. Possible links to the local and regional cycling network such as Highway 17 would provide options for employees to seek alternative modes of transportation.

5.2 Coordinate land use and transportation to support the safe and efficient movement of vehicles for passengers, goods and services.

The proposed development is ideally positioned for supporting goods movement in the region due to its proximity to the US border, Roberts Bank Container Terminal, and other industrial docks and facilities along the Fraser River. As the site can be directly accessed from Highway 17, commercial truck traffic would be separated from residential areas thus improving community safety.

Sewer Area Extension Evaluation Summary and Sanitary Sewer Map

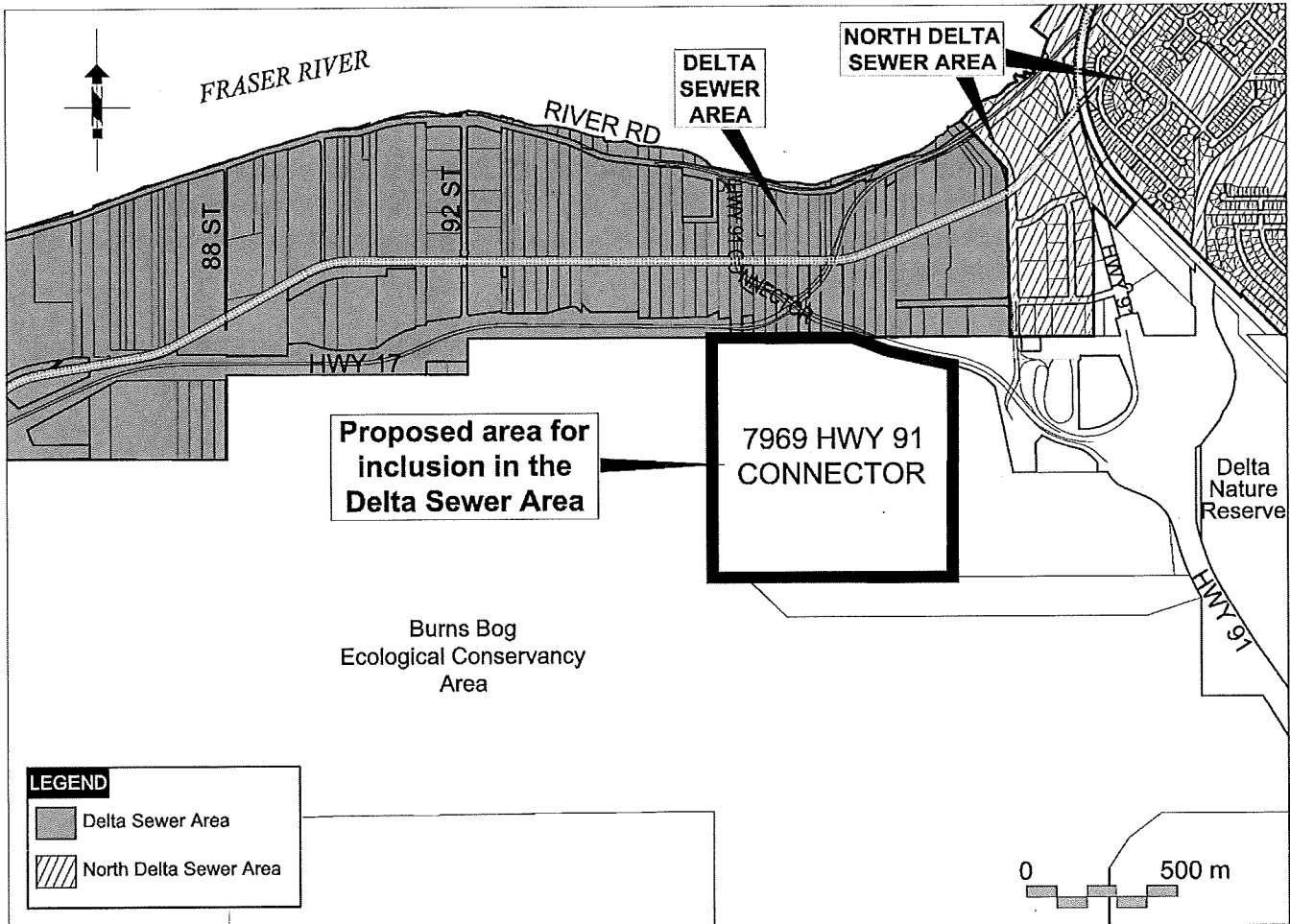
Applications to extend the Sewer Area are reviewed with consideration given to a number of factors including: consistency with local policy and land use designations; the technical, operation and financial impacts of the proposed extension; and the goals, objectives and land use designations of the Regional Growth Strategy.

An application is in process for the property at 7969 Highway 91 Connector to permit the property to be included in the Delta Sewer Area in order to allow for an industrial development with approximately 43.79 ha (108.2 ac) of net developable land into Delta's sanitary sewer system. The property is currently designated Agricultural in Delta's Official Community Plan and Agriculture in Metro Vancouver's Regional Growth Strategy and is outside of Metro Vancouver's Urban Containment Boundary. The property is also located within the Agricultural Land Reserve. The property is located adjacent to the Urban Containment Boundary and lands designated Industrial in Delta's Official Community Plan and Metro Vancouver's Regional Growth Strategy. The applicant has submitted applications to exclude the property from the Agricultural Land Reserve, which the Provincial Agricultural Land Commission has conditionally approved, and to amend the land use designations in Delta's Official Community Plan and Metro Vancouver's Regional Growth Strategy from Agricultural and Agriculture, respectively, to Industrial. The applicant is also requesting that the lands be included within Metro Vancouver's Urban Containment Boundary.

There is an existing 1,050 mm (41 in) diameter sanitary sewer forcemain located approximately 400 m (1,312 ft) north of the property. Sanitary flows from the property would be pumped to Delta's sanitary sewer forcemain from a proposed onsite sanitary sewer pump station. The average flow rate from the development is estimated at approximately 22 litres per second, and a peak discharge rate of 79 litres per second. This additional flow can be accommodated within Delta's collection system, and will enter into Metro Vancouver's South Surrey's Interceptor at the Tilbury Meter Chamber.

Metro Vancouver approval is required in order to extend the Sewer Area. The applicant is requesting consideration of their sewer area extension request in conjunction with the applications to amend the local and regional land use designations and to include the site in the Urban Containment Boundary. Sites within the Urban Containment Boundary which are designated Industrial would be eligible for sewerage services, subject to Greater Vancouver Sewerage and Drainage District technical considerations, provided that the proposed development complies with the applicable policies under the General Urban designation. In the absence of specific criteria, Delta staff have evaluated the proposal in the same manner as has been done for previous sewer area extensions. A summary of the areas evaluated is presented in the table below.

Financial	The proposed sewer extension would be paid for by the owner at the time of connection. There would be no capital cost to Delta or Metro Vancouver. If connected, the land owner would be charged regular sewer charges offsetting financial impacts of operating Delta's overall sewer system.
Land Use Compliance	The proposed industrial use requires an amendment to Delta's Official Community Plan and Metro Vancouver's Regional Growth Strategy.
Service Levels	The applicant has indicated that the anticipated average flow rate from the proposed industrial development is 22 litres per second, and a peak flow rate of 79 litres per second.
Technical/Operational	This incremental increase in flow can be accommodated within Delta's existing sanitary sewer collection system.
Local Community	The proposed industrial use would be compatible with the adjacent industrial uses along Nordel Way and River Way.
Regional Concepts	The applicant is requesting that the property be included in the Urban Containment Boundary in Metro Vancouver's Regional Growth Strategy



G:\Current Development\LU FILES\LU007\LU007445\Drawings\LU007445_Sanitary Sewer Area Map.dwg, 1/30/2019 4:08:48 PM, sandhur

G:\Current Development\LU FILES\LU007\LU007445\Council\First and Second Readings Report\Report Attachments\Sewer Area Extension Evaluation Summary.docx

THE CORPORATION OF DELTA

BYLAW NO. 7508

A Bylaw to extend the boundaries and area of the "Delta Sewer Area"

WHEREAS the Council of The Corporation of Delta has adopted a bylaw entitled "Delta Sewer Area Merger Bylaw No. 2551, 1976" which outlined areas specified as the "Delta Sewer Area" created for the purpose of providing a sanitary sewer system for the special benefit of the said areas;

AND WHEREAS it is deemed desirable and expedient to extend the specified area serviced by the sewer system;

NOW THEREFORE, the Municipal Council of The Corporation of Delta in open meeting assembled, ENACTS AS FOLLOWS:

1. This Bylaw may be cited for all purposes as **"Delta Sewer Area Extension and Enlargement (MK Delta Lands Group– LU007445) Bylaw No. 7508, 2016"**.
2. Any liabilities incurred, on behalf of the "Delta Sewer Area" as created by the "Delta Sewer Area Merger Bylaw No. 2551, 1976" shall be borne by all the owners of parcels of lands in the "Delta Sewer Area" as extended and enlarged by this bylaw.

Bylaw No. 7508

Attachment E

Page 2 of 3

- 2 -

3. The "Delta Sewer Area" as created by the "Delta Sewer Area Merger Bylaw No. 2551, 1976" and as extended from time to time is hereby further extended and enlarged to include the property described as "Proposed Sewer Area Extension" as shown outlined in bold on the plan attached hereto and identified as Schedule "A".

READ A FIRST time the 20th day of June, 2016.

READ A SECOND time the 20th day of June, 2016.

READ A THIRD time the 20th day of June, 2016.

THIRD READING EXTENSION APPROVED the 24th day of July, 2017.

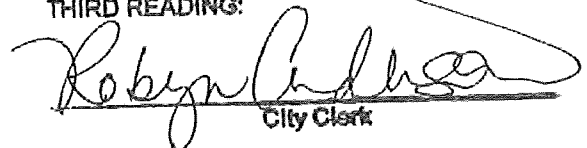
APPROVED BY the Greater Vancouver Sewer & Drainage District
the day of 201 .

FINALLY CONSIDERED AND ADOPTED the day of , 20 .

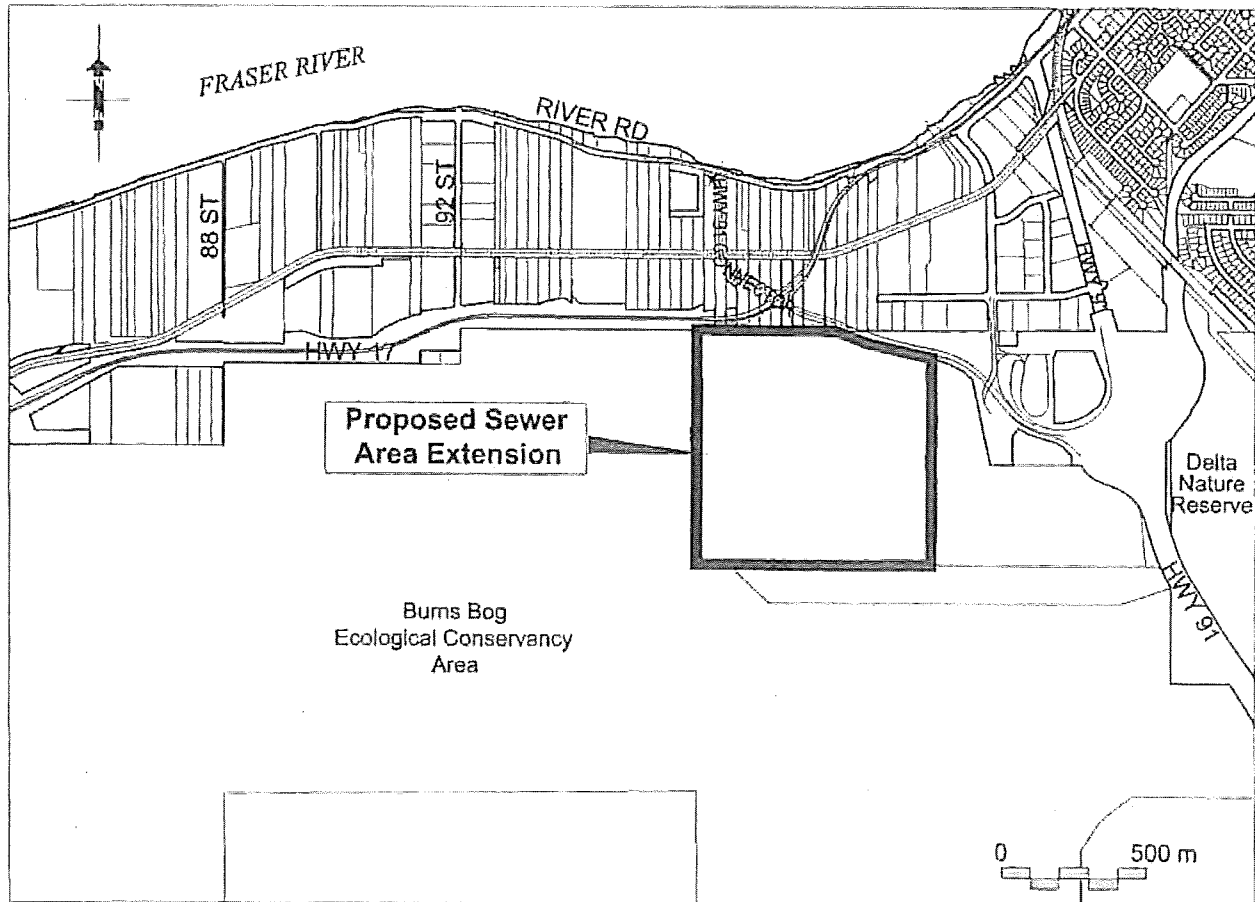
Lois E. Jackson
Mayor

Robyn Anderson
Municipal Clerk

CERTIFIED CORRECT AS AT
THIRD READING:



City Clerk



This is Schedule "A" to
"Delta Sewer Area Extension and Enlargement
(MK Delta Lands Group – LU007445) Bylaw
No. 7508, 2016"

Legal:
P.I.D. 000-915-025
Lot 4 District Lot 437 Group 2
New Westminster District Plan 1180 Except Plan EPP375

List of Information Included in Referral Package to Metro Vancouver

1. Cover Letter to Metro Vancouver Board Chair with attachments:
 - a. Development Concept Plan
 - b. Proposed Regional Growth Strategy Amendments Map
 - c. Regional Factors to Consider for the Proposed Regional Growth Strategy Amendments
 - d. Sewer Area Extension Evaluation Summary and Sanitary Sewer Area Map
 - e. Sanitary Sewer Area Extension Bylaw No. 7508 Certified Correct
2. Staff Reports Dated:
 - a. June 10, 2016
 - b. July 5, 2016
 - c. January 29, 2019
3. Council Meeting Minutes:
 - a. Regular Council Meeting on June 20, 2016
 - b. Regular Council Meeting on July 11, 2016
 - c. Public Hearing on July 26, 2016
 - d. Meeting Following the Public Hearing on July 26, 2016
 - e. Regular Council Meeting on February 11, 2019
4. Provincial Agricultural Land Commission Decision dated September 11, 2018
5. Technical Reports:
 - a. Servicing Master Plan Design Brief dated May 6, 2016
 - b. Traffic Impact Study – Draft Report (Revision 3) dated April 14, 2016
 - c. Industrial Development, Market and Impact Study dated November 2015
 - d. Environmental Effects Assessment (Revision 3) dated April 2016
 - e. Agricultural Capability Assessment dated March 2016
 - f. Agricultural Benefit for Westham Island Salinity Analysis dated March 2016
6. Agricultural Buffer:
 - a. Vegetative Buffering Plan dated December 2018

Note: Additional information and documents relating to the MK Delta Lands industrial development application, including copies of presentations, can be found on Delta's website at www.delta.ca/mkindustrial.

COMMITTEE INFORMATION ITEMS AND DELEGATION SUMMARIES

Metro Vancouver Regional District

Board Meeting Date – Friday, May 24, 2019

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

Housing Committee – May 1, 2019

Delegation Summaries:

No delegations presented

Information Items:

5.2 Regional Affordable Housing Strategy – Progress Report Work Plan

Industrial Lands Strategy Task Force – May 2, 2019

Delegation Summaries:

3.1 Marcy Sangret, City of Delta

Information Items:

No items presented

Aboriginal Relations Committee – May 2, 2019

Delegation Summaries:

No delegations presented

Information Items:

5.1 2019 Community to Community Forum Draft Proposal

5.2 Quarterly Report on Reconciliation Activities

Regional Planning Committee – May 3, 2019

Delegation Summaries:

3.1 Sarah Ross, TransLink

Information Items:

5.3 Transit-Oriented Affordable Housing Study Phase 3 – Scoping

5.4 Equity in Regional Growth Management – Project Initiation

5.6 Expanded Consultation on a Potential Cannabis Production Emission Regulation for Metro Vancouver

Regional Parks Committee – May 15, 2019

Delegation Summaries:

- 3.1 Marcy Sangret, City of Delta

Information Items:

- 5.3 Regional Parks 2018 Annual Report

Zero Waste Committee – May 17, 2019

Delegation Summaries:

No delegation presented

Information Items:

- 5.3 Update on Metro Vancouver's Engagement with the Love Food Hate Waste Canada Campaign

Climate Action Committee – May 17, 2019

Delegation Summaries:

- 3.1 Pat Bell, Community Energy Association

Information Items:

- 5.1 2019 Update on Liquid Waste Sustainability Innovation Fund Projects
- 5.2 2019 Update on Regional District Sustainability Innovation Fund Projects
- 5.3 2019 Update on Water Sustainability Innovation Fund Projects
- 5.6 Air Quality and Climate Action Initiatives in the Caring for the Air 2019 Report

29504026

From: [REDACTED]
To: [Council @ Lions Bay](#)
Cc: [Municipal](#); [Peter DeJong](#)
Subject: For next meeting agenda: new parking measures
Date: Thursday, June 6, 2019 9:53:51 AM

Hello Council,

I was disappointed to learn that Council has reverted to the old in-vehicle parking permit. As you know, the non-removable format was to allow permits to be mounted *outside* the vehicle, in one standard location to increase enforcement efficiency, so that BEOs could do more useful tasks. Being out of the driver's sight and non-transferable were added bonuses (yes, the appeal that holders only transfer their permits to other residents made me smile). I can also see no meaningful benefit and several problems with the new multi-year validity, and I hope there are few repercussions to needing to now remove last year's decal, rather than simply place new editions on top.

Here's my question. You changed the "annual permit" wording back to "resident permit." "Annual" was carefully chosen to counter any suggestion of privilege and elitism. And just as well, since you will recall media interest that started out negative when we introduced pay parking (<https://vancouversun.com/news/local-news/lions-bay-pitches-pay-parking-pilot-project-to-deal-with-the-zoo>). Yet here we are with "residents get free parking at a public amenity." Did Council intend to eliminate this subtle yet important feature?

Without a holistic plan for parking yet (other than the draft from 2015, now being undone), you are reduced to ad hoc measures. These are unfortunately in the wrong direction.

Regards,
Karl

From: [Shawna Gilroy](#)
To: [Shawna Gilroy](#)
Subject: FW: Insurance to use the hall - for Incoming Correspondence
Date: Friday, June 14, 2019 11:38:47 AM

From: Penny Nelson [REDACTED]
Sent: Wednesday, June 12, 2019 8:36 AM
To: Ron McLaughlin <mayor.mclaughlin@lionsbay.ca>; Fred Bain <councillor.bain@lionsbay.ca>; Neville Abbott <councillor.abbott@lionsbay.ca>; Norman Barmeier <councillor.barmeier@lionsbay.ca>; Jaime Cunliffe <councillor.cunliffe@lionsbay.ca>
Cc: Peter DeJong <cao@lionsbay.ca>
Subject: Re: Insurance to use the hall

Hi Council,

I'm going to let this go for now, but would like to point out that some of the response I received is factually incorrect:

1. The requirement for residents to pay insurance for community events started late last year, whether or not it appeared in any policy before then. One group has been meeting for over 10 years, and Fall 2018 was the first time they had to buy insurance. I rented the hall for a community event in July/August 2018 and was not required to buy insurance. Perhaps this is another instance of bylaws and policies being applied inconsistently, however, these are facts.
2. While Peter appears to believe the new requirement has been "embraced", I can assure you there has been quite some discussion about having to buy insurance, and who must and who need not buy insurance, and it's not all positive. It's yet another small way the niceties of Village life, the way in which we live in our Village, are being eroded, possibly unnecessarily. As a suggestion, perhaps when Council goes into the next budgeting session, we can go back to buying insurance that will cover all residents' usage of the hall, as in the past? After all, we are the taxpayers referred to in the last email! Perhaps increase the rent for non-resident groups from \$110/day to \$150/day to cover the cost? Still a good deal at \$150/day.
3. I am on day three of dealing with the broker/underwriters to find out whether they will do what's required by LB re insurance if my non-resident group rents the hall. Not so simple after all.

Thanks for listening.

Penny

On Thu, Jun 6, 2019 at 4:03 PM Peter DeJong <cao@lionsbay.ca> wrote:

Hi Penny:

Please see my responses in blue inline below. Thank you.

Peter DeJong, BA, LLB, CRM
Chief Administrative Officer

The Municipality of the Village of Lions Bay www.lionsbay.ca

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0 , Canada

Village Office (604) 921-9333 | Fax (604) 921-6643

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay until contracted. Be aware that this email is the property of the Municipality and may not be disseminated in whole or part without consent. This email may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality. Conversely, be aware that any response to the sender may be subject to disclosure under a freedom of information request.

From: Penny Nelson [REDACTED]
Sent: Thursday, June 06, 2019 2:48 PM
To: Peter DeJong <cao@lionsbay.ca>
Cc: Ron McLaughlin <mayor.mclaughlin@lionsbay.ca>; Neville Abbott <councillor.abbott@lionsbay.ca>; Fred Bain <councillor.bain@lionsbay.ca>; Norman Barmeier <councillor.barmeier@lionsbay.ca>; Jaime Cunliffe <councillor.cunliffe@lionsbay.ca>
Subject: Re: Insurance to use the hall

Thank you, Peter.

I can personally attest to the fact that insurance for community groups using the hall was NOT previously required. As I said below, we purchased a group policy that covered community groups (including local chapters of some larger groups) and built the price into fee bylaw, so community groups did not have to separately purchase insurance because it was already separately purchased for them by us on their behalf. Others in the Village have also confirmed this and are questioning the new requirement. As I said in my mail, this is definitely a new requirement.

Further, I can confirm that non-community and business groups only had to show their existing certificates, and the three with which I am involved have again confirmed that they do NOT have to buy additional insurance (correct, we do not require them to buy additional insurance) or add venues/municipalities/churches to their policies to use venues elsewhere. The most recent bookings at the hall that I made on behalf of a friend's business were late in 2017 and early 2018. All that was required was her insurance certificate. The requirement that the insurance certificate include the Village as an additional insured has always been present. Whether or not it got missed on occasion in the past, I cannot say. I do know that it's also required on every tree cutting permit since I've been here.

The group for which I have a two-day tentative booking in November is insured through a national association's group scheme, so it is not so easy to make changes. We use several other venues without having to go through this hurdle. This group has never used the LB hall before, so in effect a new customer! National associations are actually quite used to having to meet such obligations. See for example the Certificate of Insurance attached from Scouts Canada.

I'm wondering why we can't go back to how things used to be? For frustrated residents and to ensure outsiders use the hall... I should mention that, at the time of the hall renovation,

the then mayor made statements to the effect that it would be rented out to cover some of the exorbitant costs. The new insurance portal system has been well embraced by our users and they find it easy to use and inexpensive. Use of this system takes care of the “additional insured” requirement as well since it’s built right into the system. Outside groups have had no issues with it to date, any you are the first to raise any issue with the “additional insured” requirement. As I’m sure you can appreciate, our interests are firstly in protecting the taxpayers of the municipality from any liability and secondly in making the process as smooth and seamless as possible. As previously noted, we will be attempting to further the second objective in respect of how our forms are presented on the website. Thanks again for your feedback.

Penny

Sent from my iPad

On Jun 6, 2019, at 12:19 PM, Peter DeJong <cao@lionsbay.ca> wrote:

Hi Penny:

Sorry for the delay in getting back to you. Insurance for activities and events at the hall has always been required. Until about a year ago, we had most community activities covered through a private insurer and we built the cost of that insurance into the hall rental fee. Non-community groups had to purchase or already have their own insurance, which had to include noting the Village of Lions Bay as “an Additional Insured.” This is common practice everywhere and involves a simple request to the insurer to add this notation – I have never heard of an insurer charging for this requirement. The requirement did not apply to community groups because the insurance was placed by us.

For a variety of reasons, including on the advice of our own insurers, the Municipal Insurance Association of BC, we switched over last year to a new service they were offering through their community insurance web portal, which is easy to use and is relatively inexpensive for customers (eg: \$7-13 on average). We reduced the hall rental fees to account for community groups having to pay this separately. Non-community groups either use the new service or provide us with a copy of their own, including the requirement showing Village of Lions Bay as an Additional Insured.

There is one other aspect not covered above. The Events Committee and the Seniors Social Circle receive blanket coverage for their activities through a separate \$250 rider on our MIA insurance because of the number of activities

and events they host in a variety of locations. This cost is also accounted for in the annual Municipal Grant applications/awards.

We have taken to heart your comments about the lack of clarity regarding the forms on our website and will be doing a reorganization so that they are presented in a more user-friendly format. Thanks.

I hope the foregoing satisfactorily addresses your concerns, but please let me know if you have any further questions or comments. Thank you.

Peter DeJong, BA, LLB, CRM
Chief Administrative Officer

<image001.jpg>**The Municipality of the Village of Lions Bay** www.lionsbay.ca

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0 , Canada

Village Office (604) 921-9333 | Fax (604) 921-6643

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay until contracted. Be aware that this email is the property of the Municipality and may not be disseminated in whole or part without consent. This email may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality. Conversely, be aware that any response to the sender may be subject to disclosure under a freedom of information request.

From: Penny Nelson [REDACTED]
Sent: Thursday, June 06, 2019 8:39 AM
To: Peter DeJong <cao@lionsbay.ca>
Cc: Ron McLaughlin <mayor.mclaughlin@lionsbay.ca>; Neville Abbott <councillor.abbott@lionsbay.ca>; Fred Bain <councillor.bain@lionsbay.ca>
Subject: Fwd: Insurance to use the hall

Hi Peter,

Hoping you can let me have a response with regards my query below. I have tentative hall bookings, but need to know what's what with the insurance.

Thanks,
Penny

----- Forwarded message -----
From: **Peter DeJong** <cao@lionsbay.ca>
Date: Fri, May 31, 2019 at 2:39 PM
Subject: RE: Insurance to use the hall
To: Penny Nelson [REDACTED]

Hi Penny:

I've been away the past few days but will look into this further with staff and get back to you on Monday. Thank you and have a nice weekend.

Peter DeJong, BA, LLB, CRM
Chief Administrative Officer

[<image001.jpg>](#)**The Municipality of the Village of Lions Bay** www.lionsbay.ca
PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0 , Canada
Village Office (604) 921-9333 | Fax (604) 921-6643

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay until contracted. Be aware that this email is the property of the Municipality and may not be disseminated in whole or part without consent. This email may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality. Conversely, be aware that any response to the sender may be subject to disclosure under a freedom of information request.

From: Penny Nelson [REDACTED]
Sent: Thursday, May 30, 2019 10:23 AM
To: Peter DeJong <cao@lionsbay.ca>
Subject: Insurance to use the hall

Hi Peter,

For some time I've been puzzled about the insurance we now have to pay to use the Village Hall. It would appear some community groups/residents have to pay it and others don't. This is a relatively new requirement, and seems to have started late last year. How are some community events covered, and some not? Who pays and who doesn't and why? Because clearly the Village already has insurance for community events (which we've already paid for via our tax dollars)?

Further, I can see why businesses/for-profit and other non-community events may require insurance, but these users now have to buy additional insurance to rent the Village hall even if they already have insurance, including coverage for wherever they meet. Previously, such users were required to show their insurance certificates as part of the process when renting, but did not have to buy extra insurance when using the Lions Bay hall. In my experience, this is not required elsewhere. Can you please explain why this is now the case in our Village?

Specifically, I have tentatively booked the hall for use by a non-profit society in July. This group meets in different venues and has insurance through a national association. At other venues we're required to show our insurance certificate, but in Lions Bay I'm now told we will need to buy additional insurance even though we already have coverage for such meetings. What's the reason for this, and why was the process changed?

As a sidebar, it would be useful if the rental form on the Village website was split into different forms according to the type of event. It's currently 42 pages long and it's hard to know which pages apply, and which don't, even for a simple gathering of residents.

I look forward to hearing from you.

Penny

**ON-TABLE
ITEMS**



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

Type	Request for Decision		
Title	Request for waiving of filming fees for student film		
Author	Hayley Cook	Reviewed By:	Peter DeJong
Date	June 18, 2019	Version	
Issued for	June 18, 2019 Council Meeting		

Attachments:

- (1) "Flying in the Wind" Filming Application
- (2) Schedule 7, Fees Bylaw 497

Key Information:

The Village of Lions Bay has received a request for a filming permit and to waive all fees, including the damage deposit, associated with filming in Lions Bay, for a student short film being made by students at Langara College.

The students have a very small budget for their production, and as such, have requested support from Council.

The filming would take place for **one day in July (they could do a weekday)**, from **10am to 10pm on Lions Bay Beach**, with 16 crew, **2 crew vehicles and 1 work truck** being placed at the **CN Lot** or Lions Bay Avenue, and a small tent on the grass for shade for the crew.

The project is called "Flying in the Wind" and is about how terminal diseases change our lives and our interactions with other people.

The total amount of fees to be waived is \$1,200 as follows:

- \$250 Application Fee
- \$300 Daily Filming Fee
- \$500 Park Filming Fee
- \$150 Parking Fees



THE MUNICIPALITY OF THE VILLAGE OF LIONS BAY

plus the refundable \$5,000 deposit.

Options:

- (1) Approve request for filming with waiving of all fees for “Flying in the Wind”;
- (2) Approve request with waiving of some of the fees for “Flying in the Wind”;
- (3) Request Staff to gather more information regarding the filming;
- (4) Deny the request to waive the filming fees;

Preferred Option: (1) Approve the request to waive the fees to support the students’ final project.

Legal Considerations: None

Follow Up Action: Contact the director to advise them of Council’s decision.

Communication Plan: Include the film schedule in the Village Update to advise residents of the filming.

1	PRODUCTION COMPANY		
Company Name Langara College Film Arts Address 100 49th Ave., Vancouver, BC V5Y 2Z6 Phone Email 604-323-5240 jquastel@langara.ca			
2	APPLICANT INFORMATION		
Location Manager Cell Email Patricia Kennedy 778-513-2707 paty_k06@hotmail.com On set Contact Cell Email Kyle Keyworth 604-996-1127 kylekeyworth@shaw.ca			
3	PRODUCTION DETAILS		
Production Name Production Type Flying in the wind Student Production Location # of Days in Community 60 Lions Bay Avenue, Centre Rd BOX 141 1 Shoot Dates Start Time End Time June 12, 2019 12:00 pm 12:00am Number of Cast Number of Crew Number of Background 2 16 0 Number of Work Trucks Lenght of Work Trucks Lenght of Circus 1 15ft 10ft Crew Parking Plan Three spots will be used for crew parking and one spot for circus.			
4	FILMING ACTIVITY		
Scene Description Scene 7 and scene 8: Jackie and Adrian arrive to the beach. They set up a picnic, dance, sit and talk about how they will deal with cancer. Proposed Activity A small section of the beach will be used with minimal lightning. A tent will be set up farther from the beach to be used as a green room. A maximum of four parking spaces will be taken during the production. Generator Usage 1 Gas generator, 20 gallon. Small size and it will be at the work truck.			

Item 9C: Relaxation of Noise Bylaw – General Store & Cafe

THAT Council relax the noise bylaw to allow for live amplified music on the patio at the General Store & Cafe on Fridays, Saturdays, Sundays and holiday Mondays through to the end of summer, between the hours of noon and 8 pm, weather permitted at the discretion of the Store/Cafe owner.

From: [Shawna Gilroy](#)
To: [Municipal](#)
Subject: FW: Utilities Inequity/Hardship-- pending delegation
Date: Tuesday, June 18, 2019 6:28:09 PM

From: Ron McLaughlin
Sent: Thursday, June 06, 2019 7:39 PM
To: Peter DeJong <cao@lionsbay.ca>; Pam Rooke <finance@lionsbay.ca>
Subject: Fw: Utilities Inequity/Hardship-- pending delegation

Bottom email is Craig's analysis.

Ron McLaughlin

Mayor

The Village of Lions Bay

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0, Canada
Tel: (604) 921-9333 | Cell: (604) 353-7138 | www.lionsbay.ca

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you'd notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay ("Municipality") until contracted. This email is the property of the Municipality and may not be reproduced or further disseminated in whole or part without the Municipality's consent. It may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality.

From: Craig Doherty [REDACTED]
Sent: Thursday, June 6, 2019 3:33 PM
To: Ron McLaughlin
Subject: Re: Utilities Inequity/Hardship

Will do.

Craig Doherty
[REDACTED]

On Jun 6, 2019, at 2:51 PM, Ron McLaughlin <mayor.mclaughlin@lionsbay.ca> wrote:

Please come on the 18th.

Ron McLaughlin

Mayor

The Village of Lions Bay

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0, Canada
Tel: (604) 921-9333 | Cell: (604) 353-7138 | www.lionsbay.ca

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you'd notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay ("Municipality") until contracted. This email is the property of the Municipality and may not be reproduced or further disseminated in whole or part without the Municipality's consent. It may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality.

From: Craig Doherty [REDACTED]
Sent: Thursday, June 6, 2019 2:48 PM
To: Ron McLaughlin
Subject: Re: Utilities Inequity/Hardship

Thanks Ron.

I appreciate you coming back to me.

I'll come on June 18 and address the issue if you would prefer.

Craig Doherty
[REDACTED]

On Jun 6, 2019, at 2:45 PM, Ron McLaughlin <mayor.mclaughlin@lionsbay.ca> wrote:

Hi Craig. Thank you for dropping by. The question you raise is a bigger discussion and involves all of Council and staff. You have articulated

the concern and ask very well. Can I bring this email in to the general correspondence for the meeting of June 18th?

Regards,

Ron McLaughlin

Mayor

The Village of Lions Bay

PO Box 141, 400 Centre Road, Lions Bay, BC V0N 2E0, Canada
Tel: (604) 921-9333 | Cell: (604) 353-7138 | www.lionsbay.ca

This email is intended only for the persons addressed and may contain confidential or privileged information. If you received this email in error, it'd be appreciated if you'd notify the sender and delete it. Statements and opinions herein are made by their authors in a personal capacity, and are not binding on the Municipality of the Village of Lions Bay ("Municipality") until contracted. This email is the property of the Municipality and may not be reproduced or further disseminated in whole or part without the Municipality's consent. It may be exempt from disclosure under the British Columbia Freedom of Information and Protection of Privacy Act and other freedom of information or privacy legislation, and no admissible disclosure of this email can be made without the consent of the Municipality.

From: Craig Doherty [REDACTED]
Sent: Tuesday, June 4, 2019 9:11 PM
To: Ron McLaughlin
Subject: Utilities Inequity/Hardship

Mayor,

As you know my company is the owner of the Strata Units (A) and (D) that house the General Store & Café and Sotheby's/Old Gallery respectively.

Below is the schedule and commentary around utilities in the relevant Lions Bay By-Law and from the Village website.

"SCHEDULE "A" Attached to and forming part of Bylaw No. 2, 1971, as amended WATER USER RATES

1. Single Family Residence \$1,579.20 per year 2.0%
2. Condominiums, Apartments \$1,579.20 per year 2.0%
- 3. Businesses – Store/Café \$4,137.00 per year 2.0% -**
4. Businesses – Marina \$4,137.00 per year 2.0%
- 5. Businesses – Other \$1,086.75 per year 2.0%**
6. Schools \$4,137.00 per year 2.0%

"The user fees included on your bill are for the provision of **1.** water, **2.** curbside pick up of garbage, recycling and organics and for properties in Kelvin Grove, **3.** sewer fees are also included." **Note: my numbering.**

This loading on the commercial strata units in Lions Bay is unfair if it is based on (a) usage of utilities and/or (b) BC Assessed values.

The Store/Café and Real Estate/Old Gallery should be treated more favourably than a house and apartment because:

- Unlike home owners we don't live in the space 24/7 running showers, baths.
- Unlike home owners we don't water our gardens/grass with hoses, sprinklers, watering systems.
- Unlike home owners we don't wash cars.
- Re: Store/Café - we have 2 toilets and one dishwasher/sink. No bath or shower. Less than a home.
- Re: Real Estate office - one toilet/sink. Partially used weekly.
- Re: Old Gallery - one toilet/sink. Rarely occupied.
- With respect to the building/strata/complex, of the 3 items outlined as the services delivered for our utilities, the only things that Lions Bay delivers for our building are Water and Recycling. Garbage and Green Waste/Organics is paid for by the strata and we are on Septic.
- The strata pays \$270.41 per month (\$3300 annually) to Waste Control Systems. The strata paid close to \$50,000 to replace the septic last year and we pump quarterly (approx. \$1,000 per pump). Units A and D pay a significantly larger monthly strata fee (than the residences above) to cover things such as Garbage and Green Waste/Septic.
- The BC Assessed value of the General Store/Café Strata Unit is \$349,600 and the Real Estate/Gallery Strata Unit \$195,900.
- Generally, how can it be (or be fair) that our Utilities are more

annually than our Property Taxes?

We are one of the largest employers in Lions Bay and provide on-going employment for a number of locals and seasonal employment for a large number of our young people. We provide either essential services (Postal) or near essentials (milk, bread, butter, propane, etc) from a convenience perspective.

Most of all, the businesses cannot fiscally support these charges.

Mayor would you please reconsider these charges based on the above.

Yours truly,

Craig Doherty
Owner



<PastedGraphic-1.png>