

City of Maple Ridge

COUNCIL MEETING AGENDA

June 23, 2020

7:00 p.m.

Virtual Online Meeting

Meeting Decorum:

Council would like to remind all people present tonight that serious issues are decided at Council meetings which affect many people's lives. Therefore, we ask that you act with the appropriate decorum that a Council Meeting deserves. Commentary and conversations by the public are distracting. Should anyone disrupt the Council Meeting in any way, the meeting will be stopped and that person's behavior will be reprimanded.

The meeting is live streamed and recorded by the City of Maple Ridge.

Note: This Agenda is also posted on the City's Web Site at www.mapleridge.ca

The purpose of a Council meeting is to enact powers given to Council by using bylaws or resolutions.
This is the venue for debate of issues before voting on a bylaw or resolution.

For virtual public participation during Public Question Period register by going to www.mapleridge.ca/640/Council-Meeting and clicking on the meeting date

100 CALL TO ORDER

200 AMENDMENTS TO THE AGENDA

300 APPROVAL OF THE AGENDA

400 ADOPTION OF MINUTES

401 Minutes of the Regular Council Meeting of June 9, 2020

402 Report of the Public Hearing of June 16, 2020

500 PRESENTATIONS AT THE REQUEST OF COUNCIL

600 DELEGATIONS

700 ITEMS ON CONSENT

701 Minutes

701.1 Development Agreements Committee Meetings of:

- June 4, 2020
- June 10, 2020
- June 16, 2020

701.2 Committees and Commissions of Council Meetings

- Community Heritage Commission – January 23, 2020
- Social Policy Advisory Committee – March 4, 2020
- Agricultural Advisory Committee – March 26, 2020

702 Reports

702.1 Disbursements for the month ended May 31, 2020

Staff report dated June 23, 2020 providing information on disbursements for the month ended May 31, 2020.

702.2 2020 Council Expenses

Staff report dated June 23, 2020 including Council expenses recorded to May 31, 2020.

702.3 Drinking Water Quality Report 2019

Staff report dated June 23, 2020 providing information on the regulatory framework and water quality monitoring data for 2019.

702.4 Quarter 1, 2020 Financial Update

Staff report dated June 16, 2020 providing a financial update for the first quarter of 2020, focusing on the operating results for the City and providing information regarding certain development related reserves.

703 Correspondence

704 Release of Items from Closed Council Status

705 Recommendation to Receive Items on Consent

800 UNFINISHED BUSINESS

*The items in the "Unfinished Business" category are staff reports presented at an earlier Council Workshop meeting, typically a week prior, to provide Council with an opportunity to ask staff detailed questions. The items are now before the regular Council Meeting for debate and vote. Both meetings are open to the public. **The reports are not reprinted again in hard copy**, however; they can be found in the electronic agenda or in the Council Workshop agenda packages dated accordingly.*

Note: *Items 801 to 803 were forwarded from the June 9, 2020 Council Workshop Meeting*

801 Maple Ridge Fees & Charges Bylaw

Staff report dated June 23, 2020 recommending that Maple Ridge Fees & Charges Bylaw No. 7575-2019 to establish a framework to which existing fees can be attached as schedules are reviewed and updated be given first, second and third reading.

802 Union of British Columbia Municipalities ("UBCM") Resolutions

Staff report dated June 23, 2020 recommending that resolutions pertaining to mandatory signage for bear traps, banning of shock collars, criminal record checks for Local Government Elected Officials, the establishment of an Independent Office of Integrity for Local Government, and Cannabis Enforcement and Regulation within the Agricultural Land Reserve, be forwarded to the 2020 UBCM convention.

803 2019 Consolidated Financial Statements

Staff report dated June 23, 2020 recommending that the 2019 Financial Statements be approved.

900 CORRESPONDENCE

1000 BYLAWS

Note: Item 1001 is from the June 16, 2020 Public Hearing

Bylaws for Third Reading

1001 2017-553-RZ, 12848 240 Street

1001.1 Maple Ridge Official Community Plan Amending Bylaw No. 7636-2020

To amend Schedule "A", Chapter 10.3, Part VI, A – Silver Valley, Figure 2 Land Use Plan, and Figure 3D Horse Hamlet from Conservation and Medium/High Density Residential to Medium/High Density Residential and Conservation. To amend Silver Valley Area Plan, Figure 4 Trails/Open Space to add to Conservation and to remove from Conservation, to adjust the Conservation designation boundaries to reflect the location of Hennipen Creek.

1001.2 Maple Ridge Zone Amending Bylaw No. 7424-2018

To rezone from RS-3 (One Family Rural Residential) and RS-2 (One Family Suburban Residential) to R-2 (Urban Residential District). The current application is to permit a future subdivision of approximately 11 single family lots.

Bylaws for Adoption

1002 Maple Ridge Heritage Designation and Revitalization and Tax Exemption Agreement Amending Bylaw No. 7632.2020

To allow for an extension of the completion date for the conservation of the Morse/Turnock Residence.

1100 COMMITTEE REPORTS AND RECOMMENDATIONS

*The items in the "Committee Reports and Recommendations" category are staff reports presented at an earlier Committee of the Whole meeting, typically a week prior, to provide Council with an opportunity to ask staff detailed questions. The items are now before the regular Council Meeting for debate and vote. Both meetings are open to the public. **The reports are not reprinted again in hard copy**, however; they can be found in the electronic agenda or in the Committee of the Whole agenda package dated accordingly.*

Planning & Development Services

1101 2020-062-RZ, 22347 117 Avenue and 22349 North Avenue, RT-1 and RM-3 to C-3

Staff report dated June 16, 2020 recommending that Maple Ridge Zone Amending Bylaw No. 7649- 2020 to rezone from RT-1 (Two Family Urban Residential) and RM 3 (High Density Apartment Residential) to C-3 (Town Centre Commercial) be given first reading and that the applicant provide further information as described on Schedules C, D and E of the Development Procedures Bylaw No. 5879 1999, along with additional required information.

1102 2019-310-RZ, 11232 Dartford Street, C-3 to H-1

Staff report dated June 16, 2020 recommending that Maple Ridge Zone Amending Bylaw No. 7603-2019 to rezone from C-4 (Neighbourhood Public House Commercial) to H-1 (Heritage Commercial) to allow a licensee retail store as an independent principle use and discontinue use as a neighbourhood pub be given second reading and be forwarded to Public Hearing.

Engineering Services

1131 Award of Contract ITT-EN20-18: 225 Street Sanitary Pump Station Upgrades

Staff report dated June 16, 2020 recommending that Contract ITT EN20 18: 225 Street Sanitary Pump Station Upgrades be awarded to Drake Excavating (2016) Ltd., that the existing Associated Engineering (B.C.) Ltd. contract for south slope forcemain upsizing and pump station modifications be extended, that a contract contingency be approved and that the Corporate Officer be authorized to execute the contract.

Corporate Services

Note: Item 1151 Quarter 1, 2020 Financial Update has been moved to the Consent Agenda

Parks, Recreation and Culture

Administration (including Fire and Police)

1300 OTHER MATTERS DEEMED EXPEDIENT

1400 PUBLIC QUESTION PERIOD

1500 MAYOR AND COUNCILLOR REPORTS

1600 NOTICES OF MOTION AND MATTERS FOR FUTURE MEETING

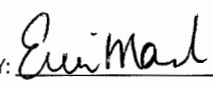
1700 ADJOURNMENT

APPROVED BY: 

DATE: June 18, 2020

PREPARED BY: Adam T.

DATE: June 18, 2020

CHECKED BY: 

DATE: June 18/20

400 Adoption and Receipt of Minutes

City of Maple Ridge

COUNCIL MEETING MINUTES

June 9, 2020

The Minutes of the City Council Meeting held on June 9, 2020 at 7:00 p.m. in the Council Chambers of the City Hall, 11995 Haney Place, Maple Ridge, British Columbia for the purpose of transacting regular City business.

PRESENT	Appointed Staff
Elected Officials	C. Carter, Acting Chief Administrative Officer
Mayor M. Morden	D. Boag, General Manager Parks, Recreation & Culture
Councillor J. Dueck	C. Crabtree, Acting General Manager Corporate Services
Councillor K. Duncan	D. Pollock, General Manager Engineering Services
Councillor C. Meadus	S. Nichols, Corporate Officer
Councillor G. Robson	T. Thompson, Chief Financial Officer
Councillor R. Svendsen	Other Staff as Required
Councillor A. Yousef	C. Balatti, Recreation Manager, Health and Wellness
	Petra Frederick, Community Coordinator
	C. Goddard, Director of Planning
	R. MacNair, Senior Advisor, Bylaw and Licensing Services
	M. Vogel, Computer Support Specialist

Note: These Minutes are also posted on the City's Web Site at www.mapleridge.ca
Video of the meeting is posted at media.mapleridge.ca/Mediasite/Showcase

Note: Due to the COVID-19 pandemic, Council members participated electronically. The Mayor chaired the meeting from Council Chambers.

Note: Councillor Duncan was absent at the start of the meeting.

100 **CALL TO ORDER**

200 **AMENDMENTS TO THE AGENDA – Nil**

300 **APPROVAL OF THE AGENDA**

R/2020-243

It was moved and seconded

That the agenda of the Regular Council Meeting of June 9, 2020 be approved
as circulated.

CARRIED

400 ***ADOPTION AND RECEIPT OF MINUTES***

401 Minutes of the Regular Council Meeting of May 26, 2020

R/2020-244

It was moved and seconded

That the minutes of the Regular Council Meeting of May 26, 2020 be adopted as circulated.

CARRIED

402 Report of the Public Hearing of May 19, 2020

R/2020-245

It was moved and seconded

That the report of the Public Hearing of May 19, 2020 be adopted as circulated.

CARRIED

500 ***PRESENTATIONS AT THE REQUEST OF COUNCIL***

600 ***DELEGATIONS***

601 **Municipal Advisory Committee on Accessibility and Inclusiveness (MACAI) Update**

- **Petra Frederick, Community Coordinator and MACAI Staff Liaison**

The Community Coordinator and MACAI Staff Liaison provided a presentation acknowledging members, noting 2019 achievements, outlining the 2020 work plan, acknowledging Difference Maker, and presenting the World Health Organization Age-friendly City certificate.

Note: Councillor Duncan joined the meeting at 7:03 p.m. during the staff presentation.

700 ***ITEMS ON CONSENT***

701 **Minutes**

701.1 Development Agreements Committee Meeting of May 26, 2020 and June 1, 2020

702 **Reports** – Nil

703 **Correspondence** - Nil

704 **Release of Items from Closed Council Status** – Nil

705 **Recommendation to Receive Items on Consent**

R/2020-246

It was moved and seconded

That items on the “Items for Consent” agenda be received into the record.

CARRIED

800 **UNFINISHED BUSINESS**

801 **Community Child Care Space Creation Action Plan**

Staff report dated June 9, 2020 recommending that the Community Child Care Space Creation Action Plan be endorsed.

The Recreation Manager of Health and Wellness spoke to the staff report, providing clarification requested at May 12, 2020 Council Workshop. Staff responded to questions from Council.

R/2020-247

Moved and seconded

That the Community Child Care Space Creation Action Plan be endorsed.

CARRIED

Councillor Robson, Councillor Yousef – OPPOSED

900 **CORRESPONDENCE** – Nil

1000 **BYLAWS** – Nil

1100 **REPORTS AND RECOMMENDATIONS**

Public Works and Development Services

1101 **2019-188-AL, 25975 116 Avenue, Non-Farm Use Application; Non Adhering Residential Use Application**

Staff report dated June 2, 2020 recommending that Application 2019-188-AL to allow fill onto the property for driveway access to proposed agricultural buildings and to allow retention of an existing single family dwelling for accessory farm help be forwarded to the Agricultural Land Commission.

R/2020-248

Moved and seconded

That Application 2019-188-AL, respecting property located at 25975 116 Avenue, be forwarded to the Agricultural Land Commission for consideration.

CARRIED

1102 **2019-309-RZ, 22580 Hinch Crescent, RS-1 to R-2**

Staff report dated June 2, 2020 recommending that Maple Ridge Zone Amending Bylaw No. 7589-2019 to rezone from RS-1 (One Family Urban Residential) to R-2 (Urban Residential District) to permit a future subdivision of two lots be given first reading and that the applicant provide further information as described on Schedules A and B of the Development Procedures Bylaw No. 5879-1999, along with the information required for a Subdivision application.

R/2020-249

Moved and seconded

- 1. That Zone Amending Bylaw No. 7589-2019 be given first reading; and**
- 2. That the applicant provide further information as described on Schedule A and B of the Development Procedures Bylaw No. 5879-1999, along with the information required for a Subdivision application.**

DEFEATED

Councillor Dueck, Councillor Meadus, Councillor Robson, Councillor Svendsen and Councillor Yousef – OPPOSED

1103 Proposed New Cannabis Retail Store at 11696 224 Street

Staff report dated June 2, 2020 providing the options of approving or denying an application for a non-medical cannabis retail store by Green Dreamz Garage Inc. located at 11696 224 Street.

R/2020-250

Moved and seconded

1. That the application for a non medical cannabis retail store by Green Dreamz Garage Inc. located at 11696 224 Street, Maple Ridge be approved based on the information contained in the staff report dated June 2, 2020; and further
2. That a copy of the resolution be forwarded to the Liquor and Cannabis Regulation Branch in accordance with the legislative requirements.

CARRIED

Councillor Svendsen – OPPOSED

Corporate Services – Nil

Parks, Recreation & Culture – Nil

Administration (including Fire and Police) – Nil

1200 STAFF REPORTS – Nil

1300 OTHER MATTERS DEEMED EXPEDIENT – Nil

1400 PUBLIC QUESTION PERIOD – Nil

1500 MAYOR AND COUNCILLORS' REPORTS

The Mayor and Council members provided their reports on activities participated in during the past few weeks.

1600 **NOTICES OF MOTION AND MATTERS FOR FUTURE MEETINGS – Nil**

1700 ***ADJOURNMENT*** – 8:07p.m.

Certified Correct

M. Morden, Mayor

S. Nichols, Corporate Officer

City of Maple Ridge

REPORT OF PUBLIC HEARING

June 16, 2020

The report of the Public Hearing held in the Council Chambers of City Hall, 11995 Haney Place, Maple Ridge, British Columbia on June 16, 2020 at 7:03 p.m. as a virtual online meeting.

PRESENT

Elected Officials

Mayor M. Morden

Councillor J. Dueck

Councillor K. Duncan

Councillor C. Meadus

Councillor G. Robson

Councillor A. Yousef

Absent:

Councillor R. Svendsen

Appointed Staff

A. Horsman, Chief Administrative Officer

D. Boag, General Manager Parks, Recreation & Culture

C. Carter, General Manager Planning & Development Services

C. Crabtree, Acting General Manager Corporate Services

D. Pollock, General Manager Engineering Services

S. Nichols, Corporate Officer

Other Staff as Required

C. Goddard, Director of Planning

Note: Due to the COVID-19 pandemic, Council members participated electronically. The Mayor chaired the meeting from Council Chambers.

Mayor Morden called the meeting to order. The Corporate Officer explained the procedure and rules of order of the Public Hearing and advised that the bylaws will be considered further at the next Council Meeting on June 23, 2020

The Mayor then called upon Planning Department staff to present the following items on the agenda:

Note: Items 1a) and 1b) were withdrawn.

**1a) 2018-335-RZ, 12010 232 Street and 23223 Dewdney Trunk Road
Maple Ridge Official Community Plan Amending Bylaw No. 7638-2020**

**1b) 2018-335-RZ, 12010 232 Street and 23223 Dewdney Trunk Road
Maple Ridge Zone Amending Bylaw No. 7501-2018**

**2a) 2017-553-RZ, 12848 240 Street
Lot 2 Section 27 Township 12 New Westminster District Plan 10713**

Maple Ridge Official Community Plan Amending Bylaw No. 7636-2020

To amend Schedule "A", Chapter 10.3, Part VI, A – Silver Valley, Figure 2 - Land Use Plan, and Figure 3D - Horse Hamlet from Conservation and Medium/High Density Residential to Medium/High Density Residential and Conservation. To amend Silver Valley Area Plan, Figure 4 - Trails / Open Space to add to Conservation and to remove from Conservation, to adjust the Conservation designation boundaries to reflect the location of Hennipen Creek.

2b) 2017-553-RZ, 12848 240 Street

Maple Ridge Zone Amending Bylaw No. 7424-2018

To rezone from RS-3 (One Family Rural Residential) and RS-2 (One Family Suburban Residential) to R-2 (Urban Residential District).

The current application is to permit a future subdivision of approximately 11 single family lots.

The Director of Planning provided a summary presentation.

The Corporate Officer advised that 20 notices were mailed out in relation to this application and that one piece of correspondence was received by S. Little expressing concerns with the lack of infrastructure in the area.

The Mayor called for speakers for first and second call.

Third call was dealt with at the end of the meeting to allow the public further opportunity for input on the item.

2) 2017-553-RZ, 12848 240 Street

The Mayor called for speakers on third call. There were no speakers present and no additional correspondence was received while the application was being dealt with.

There being no further comment on any of the items, the Mayor declared the item dealt with.

Having given all those persons whose interests were deemed affected by the matters contained herein a chance to be heard, the Mayor adjourned the Public Hearing at 7:11 p.m.

M. Morden, Mayor

Certified Correct

S. Nichols, Corporate Officer

700 *ITEMS ON CONSENT*

701 *Minutes*

701.1 Development Agreements Committee

**CITY OF MAPLE RIDGE
DEVELOPMENT AGREEMENTS COMMITTEE**

June 4, 2020
Mayor's Office

CIRCULATED TO:

Michael Morden, Mayor
Chair

Al Horsman, Chief Administrative Officer
Member

Catherine Schmidt, Recording Secretary

1. 19-119223 BG

LEGAL: Lot 2 District Lot 403 Group 1 New Westminster District Plan
EPP88213
PID: 030-658-110
LOCATION: 23190 112B Avenue
OWNER: Polygon Provenance Homes Ltd. (Rob Bruno)
REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-119223 BG.

CARRIED

2. 20-107332 BG

LEGAL: Lot 19 District Lot 403 Group 1 New Westminster District Plan
EPP88213
PID: 030-658-284
LOCATION: 11325 McDougal Street
OWNER: Polygon Provenance Homes Ltd. (Rob Bruno)
REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 20-107332 BG.

CARRIED

3. 19-119881 BG

LEGAL: Lot 21 District Lot 403 Group 1 New Westminster District Plan
EPP88213
PID: 030-658-306
LOCATION: 11337 McDougal Street
OWNER: Polygon Provenance Homes Ltd. (Rob Bruno)
REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-119881 BG.

CARRIED

4. 20-108753 BG

LEGAL: Lot 28 District Lot 403 Group 1 New Westminster District Plan
EPP88213
PID: 030-658-373
LOCATION: 11377 McDougal Street
OWNER: Polygon Provenance Homes Ltd. (Rob Bruno)
REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 20-108753 BG.

CARRIED

5. 19-112119 BG

LEGAL: Lot 58 District Lot 242 Group 1 New Westminster District Plan 46729
PID: 006-071-881
LOCATION: 12270 210 Street
OWNER: Sirriya and Masih Iqbal
REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-112119 BG.


CARRIED

6. 18-113203 BG

LEGAL: Lot 13 Section 16 Township 12 New Westminster District Plan
EPP62576
PID: 030-144-965
LOCATION: 11277 238 Street
OWNER: 11147331 B.C. Ltd. (Maninder Sohi)
REQUIRED AGREEMENTS: Secondary Suite Covenant

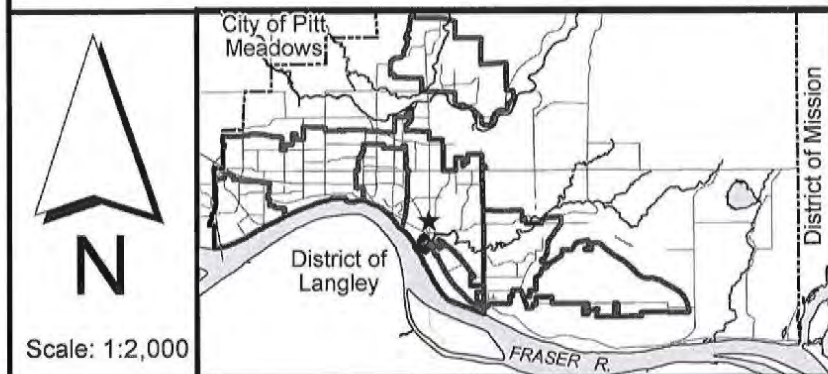
THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 18-113203 BG.

CARRIED



Michael Morden, Mayor
Chair

Al Horsman, Chief Administrative Officer
Member



23190 112B Ave

ENGINEERING DEPARTMENT



MAPLE RIDGE

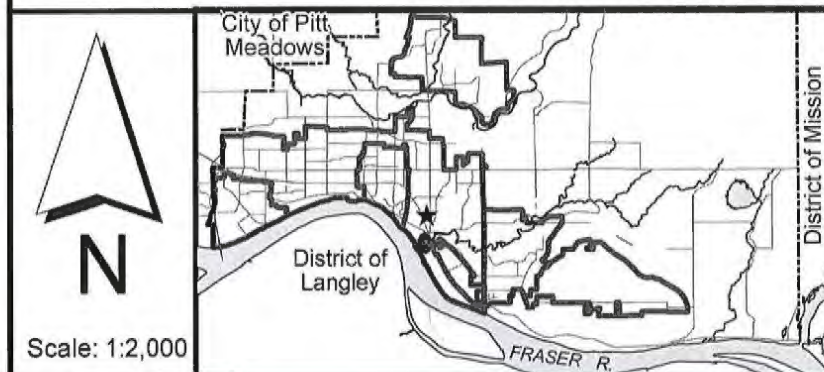
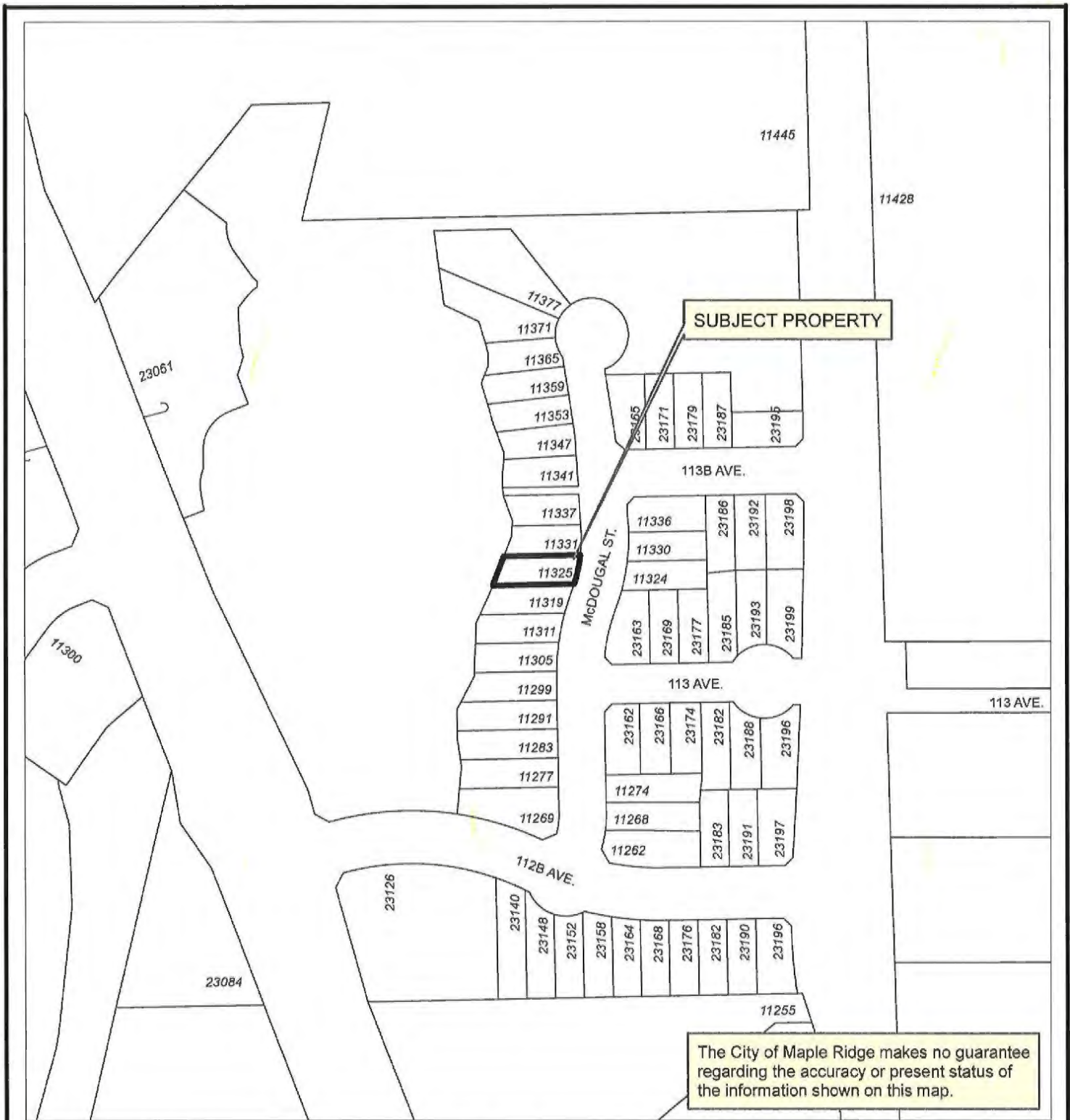
British Columbia

mapleridge.ca

FILE: Untitled

DATE: Jun 1, 2020

BY: NV



11325 McDougal St

ENGINEERING DEPARTMENT



MAPLE RIDGE

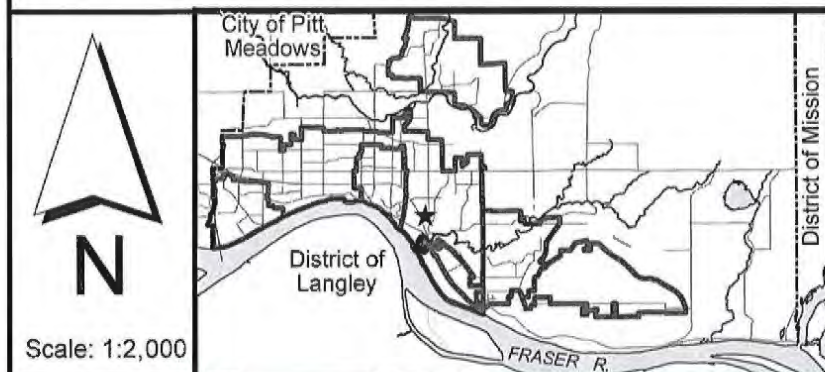
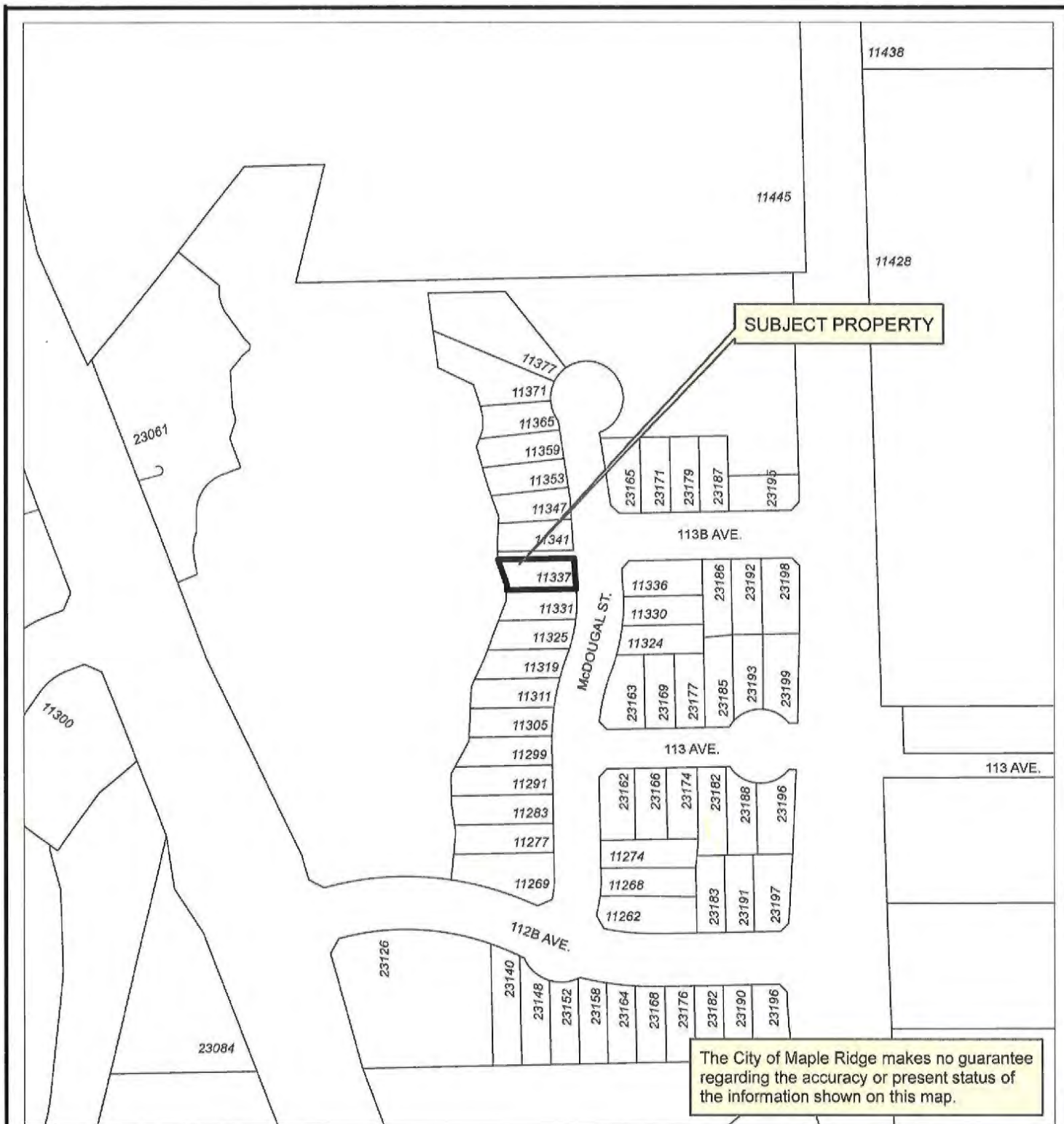
British Columbia

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DATE: Jun 1, 2020

BY: NV



11337 McDougal St

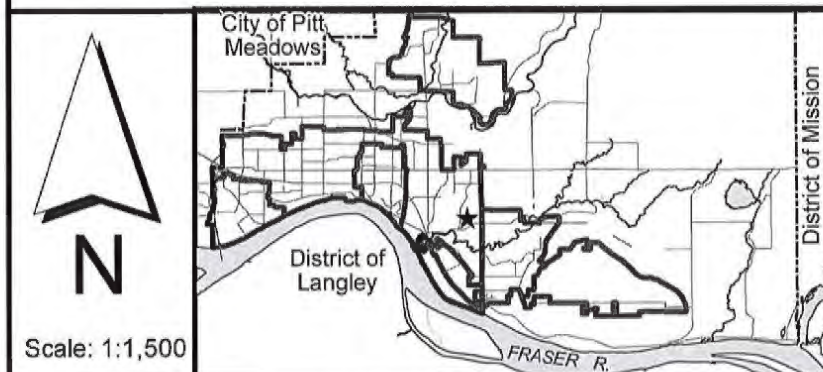
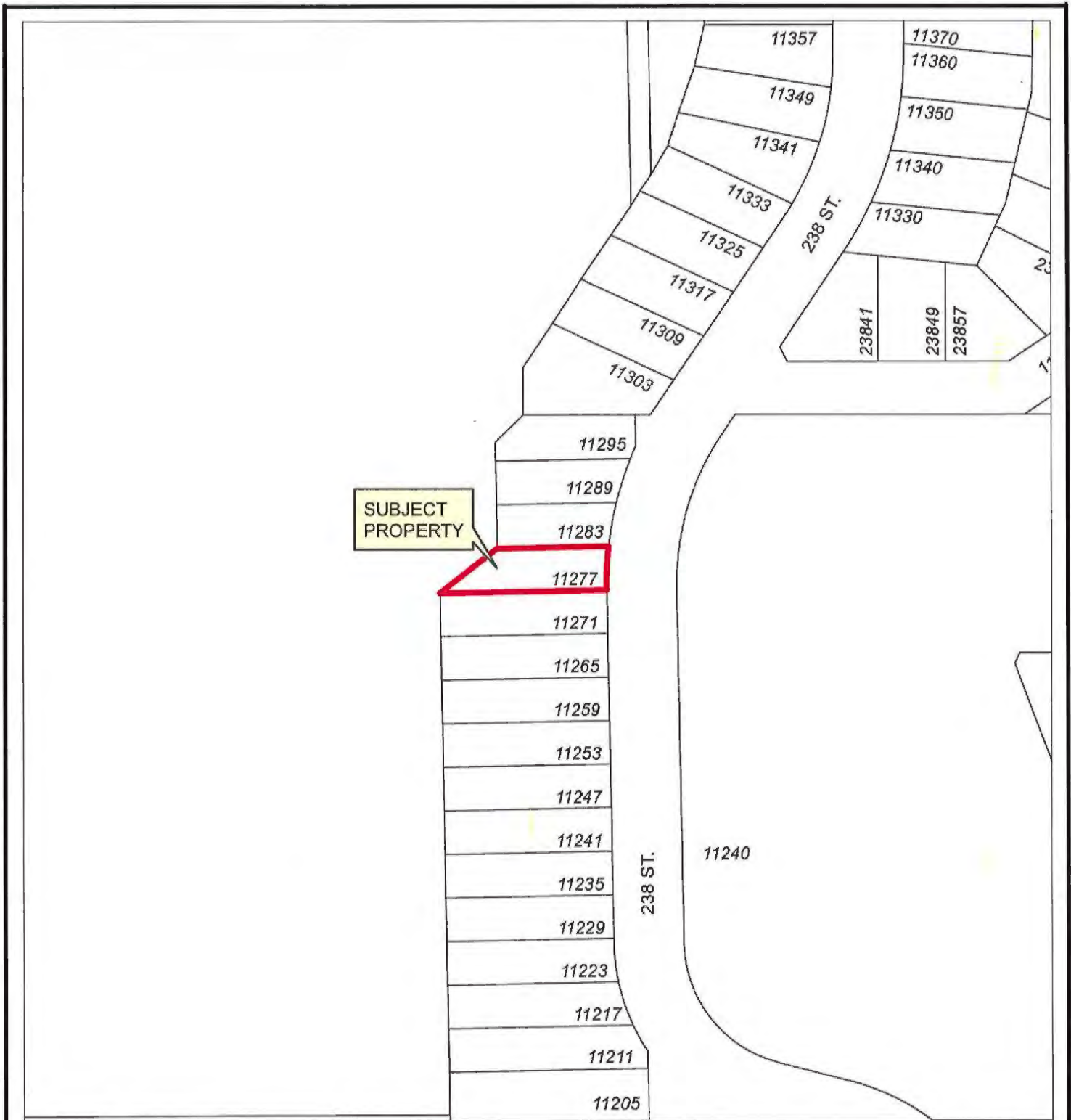
ENGINEERING DEPARTMENT



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11277 238 St.

ENGINEERING DEPARTMENT



MAPLE RIDGE

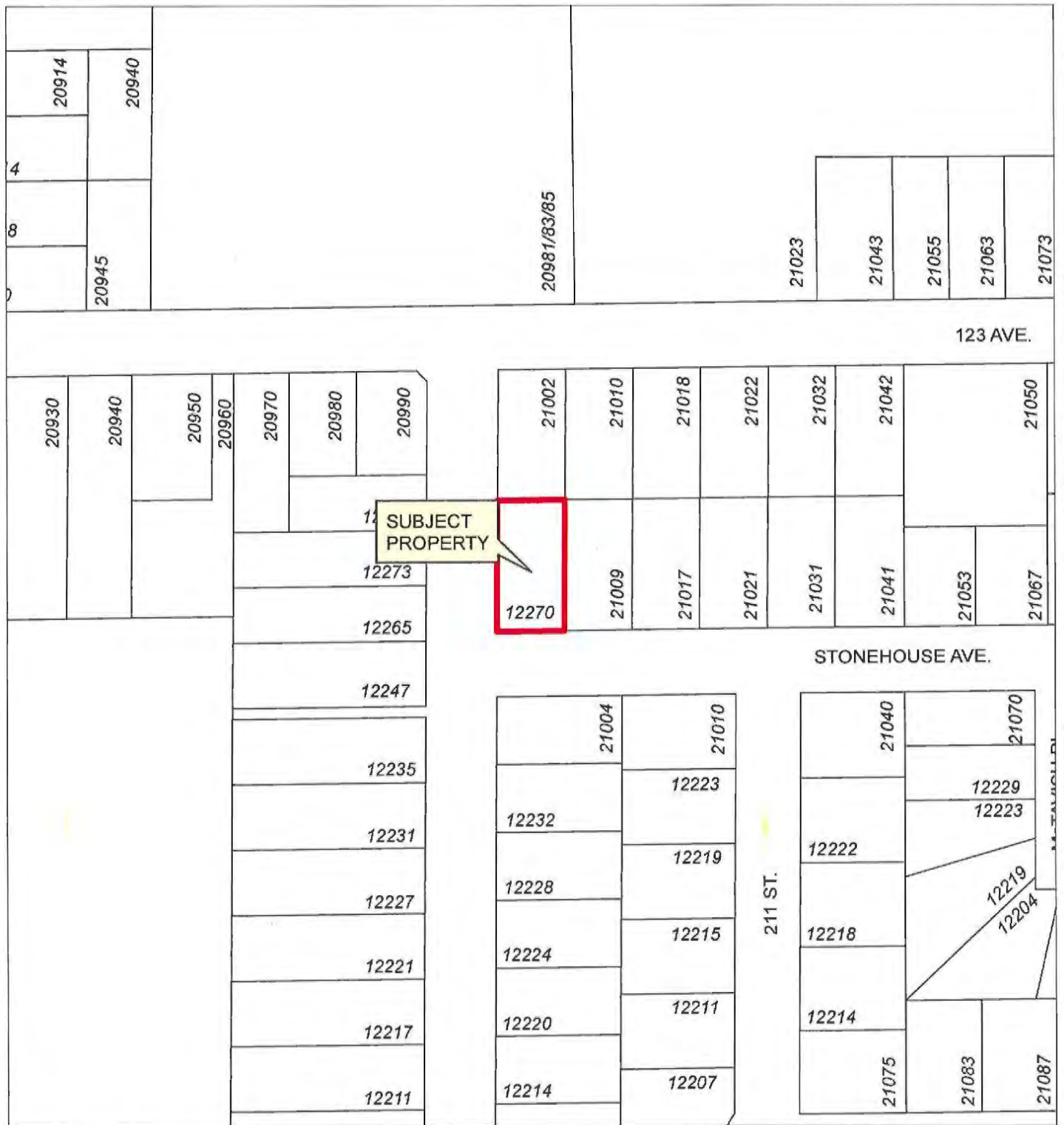
British Columbia

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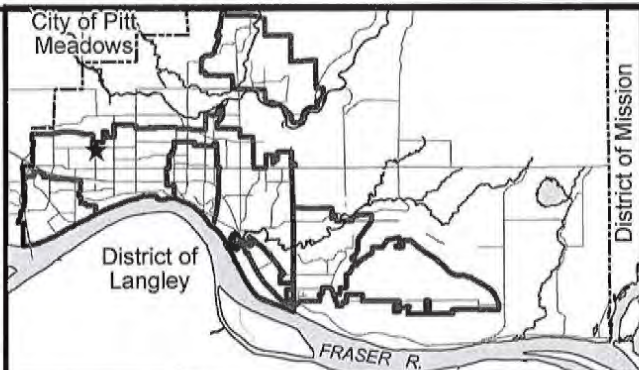
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DATE: Jun 2, 2020

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12270 210 St

ENGINEERING DEPARTMENT



MAPLE RIDGE

British Columbia

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DATE: Jun 2, 2020

BY: LM

**CITY OF MAPLE RIDGE
DEVELOPMENT AGREEMENTS COMMITTEE**

June 10, 2020
Mayor's Office

CIRCULATED TO:

Michael Morden, Mayor
Chair

Al Horsman, Chief Administrative Officer
Member

Catherine Schmidt, Recording Secretary

1. 19-117729 BG

LEGAL: Lot 55 Section 33 Township 12 New Westminster District Plan
EPP60118
PID: 030-522-595

LOCATION: 23291 137 Avenue

OWNER: GN Custom Homes Ltd. (Bahadur Mann)

REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-117729 BG.

CARRIED

2. 20-117752 BG

LEGAL: Lot 57 Section 33 Township 12 New Westminster District Plan
EPP60118
PID: 030-522-617

LOCATION: 23279 137 Avenue

OWNER: 1070824 B.C. Ltd.

REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 20-117752 BG.

CARRIED

3. 20-108773 BG

LEGAL: Lot 58 Section 33 Township 12 New Westminster District EPP60118
PID: 030-522-625

LOCATION: 23273 137 Avenue

OWNER: PK Homes Ltd. (Paramjit Kooner)

REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 20-108773 BG.

CARRIED

4. 2019-068-SD

LEGAL: All that Portion of Lot 6 Section 33 Township 12 New Westminster District Plan EPP34552 Included Within Lot 2 Plan EPP94841; and Lot 52 Section 33 Township 12 New Westminster District Plan EPP60118
PID: n/a

LOCATION: 13716 and 13746 Blaney Road

OWNER: Daniel and Tammy Warrington / SV 232 Street Developments Ltd.

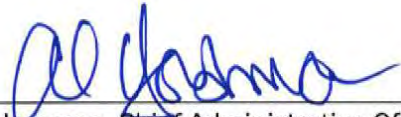
REQUIRED AGREEMENTS: Release of Geotech Covenant (CA3635832)
Release of Housing Agreement over residential lots (CA6421836)
Partial Release of Storm Detention Covenant (CA3758969)
Release of Visitor Parking Covenant over residential lots (CA6421839)
Release of Daycare Covenant over residential lots (CA6421842)
Release of No Build Covenant (CA3683165) until Future Subdivision over Lot 6
Release of No Build Covenant (CA6950115) until Future Subdivision over Lot 52

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENTS AS THEY RELATE TO 2019-068-SD.

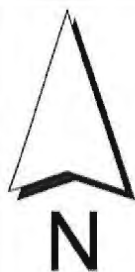
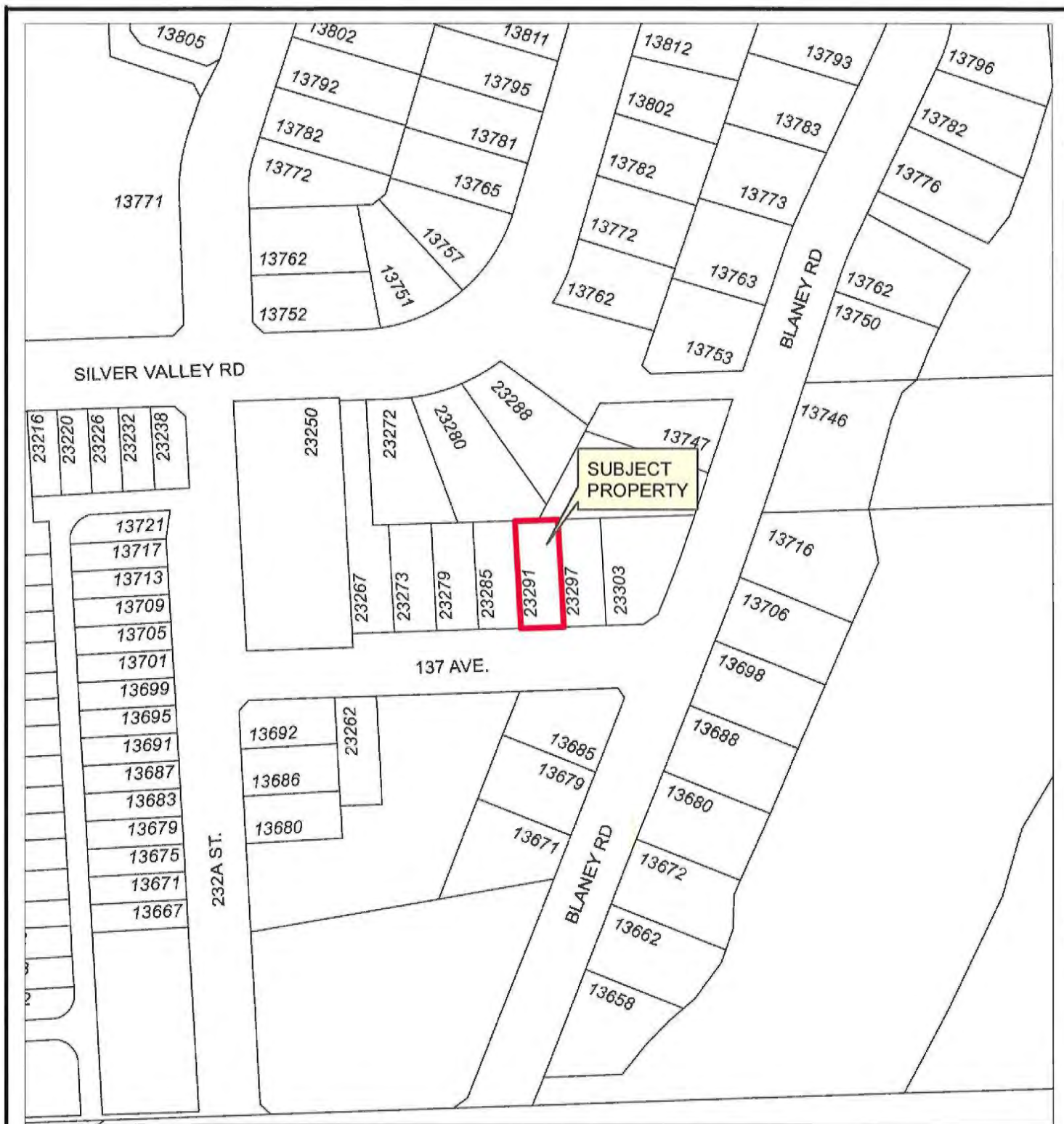
CARRIED



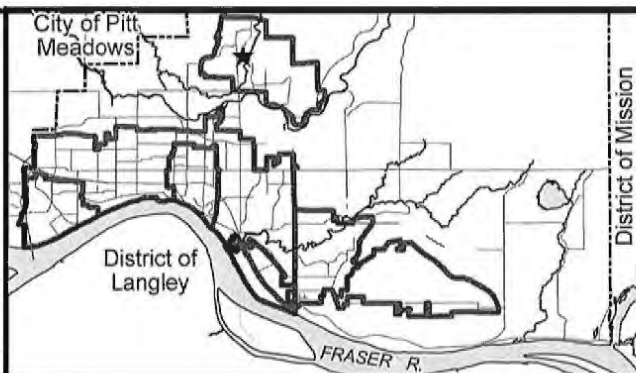
Michael Morden, Mayor
Chair



Al Horsman, Chief Administrative Officer
Member



Scale: 1:1,500



23291 137 Ave

ENGINEERING DEPARTMENT



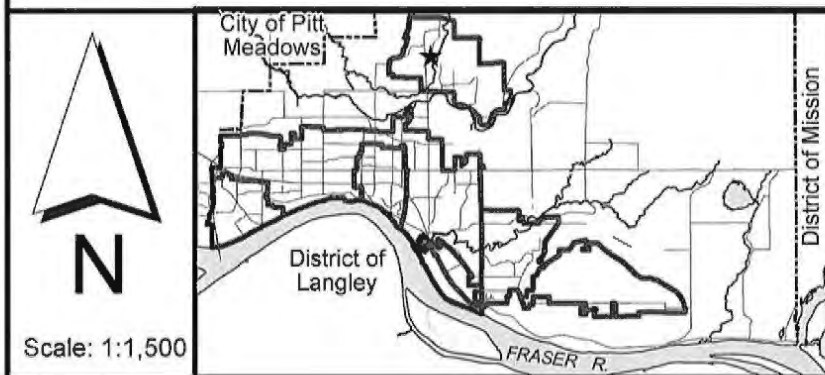
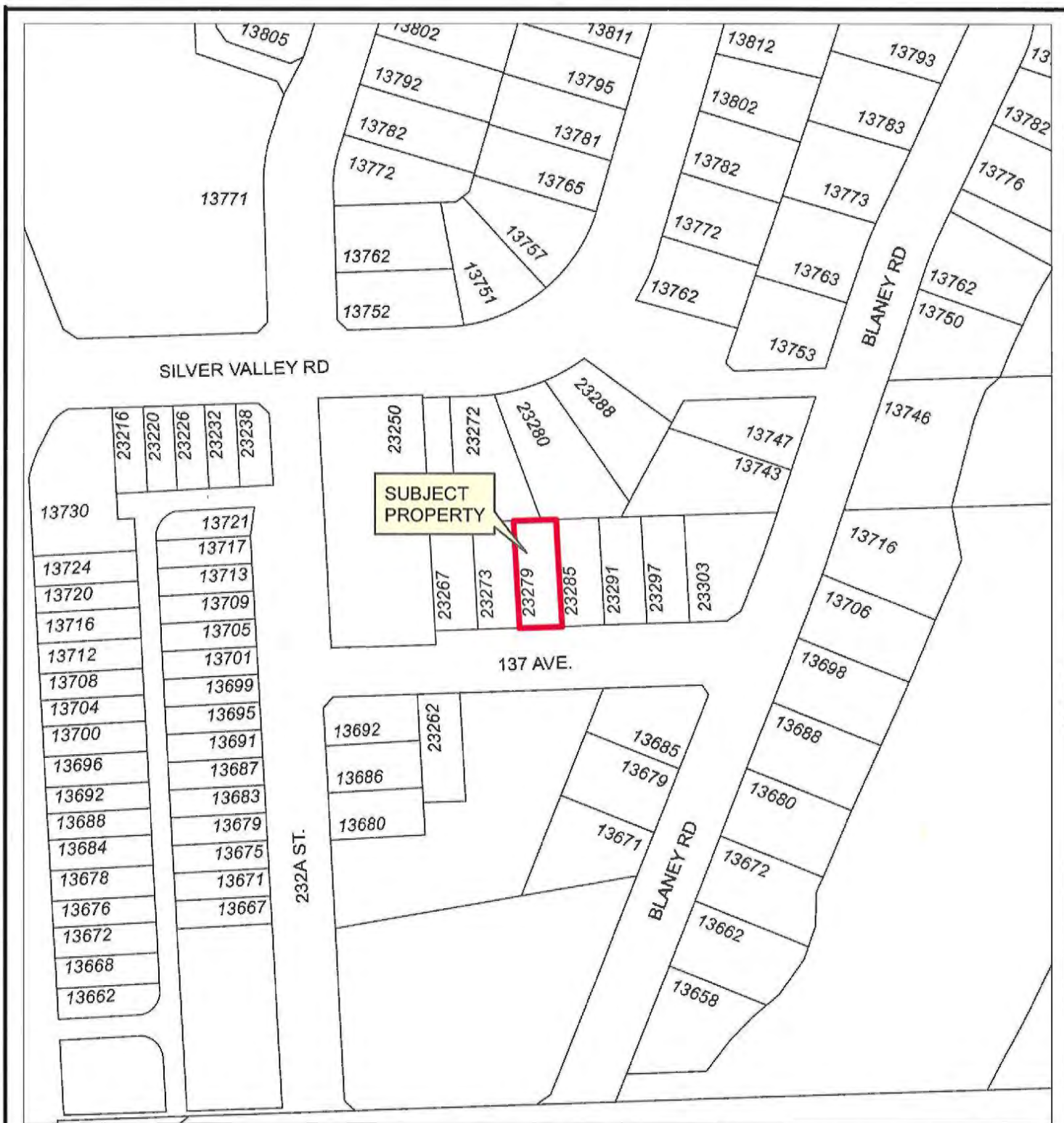
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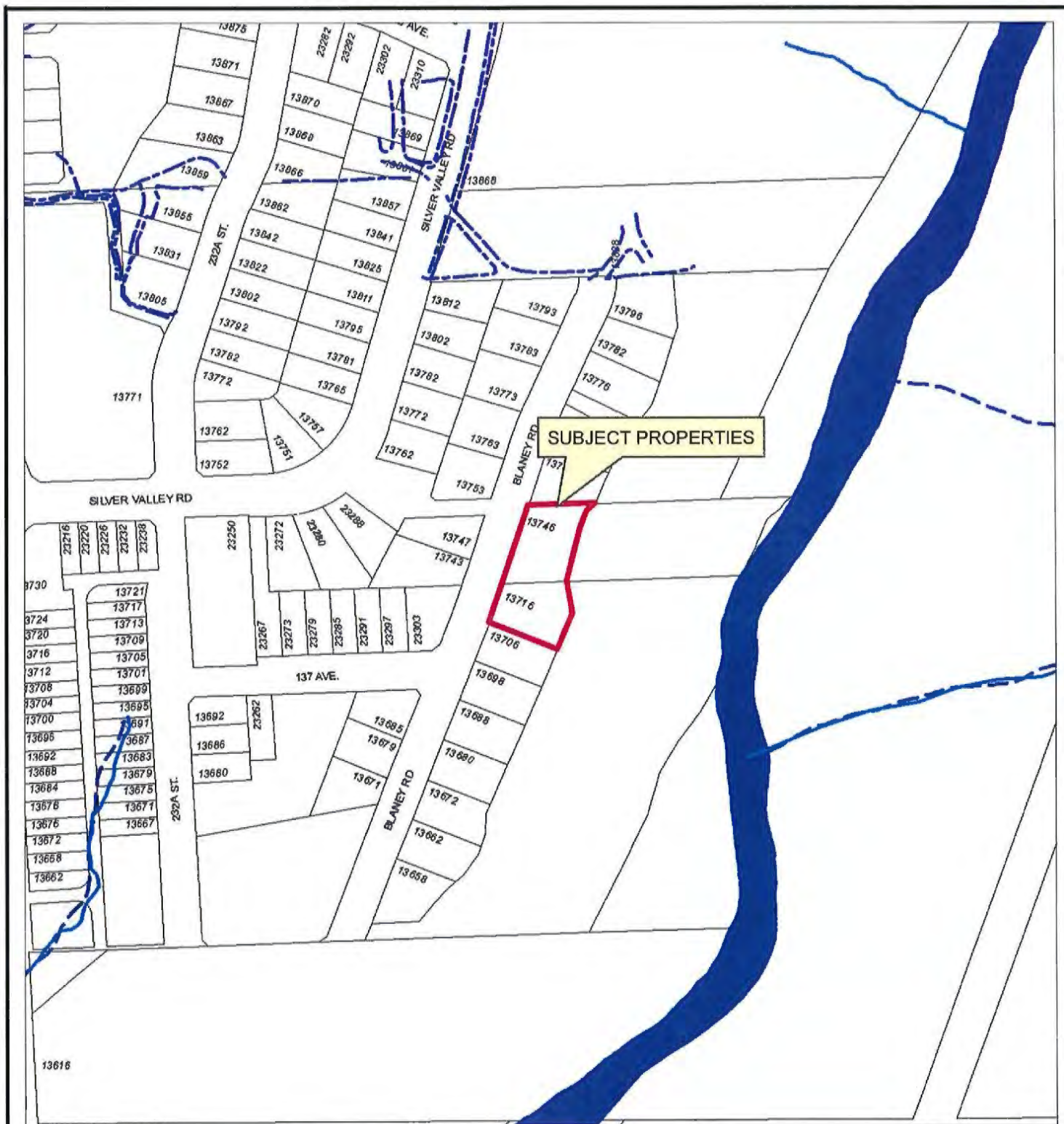
23279 137 Ave

ENGINEERING DEPARTMENT

MAPLE RIDGE
British Columbia

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DATE: Jun 5, 2020
BY: LM



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Legend

- Stream
- Ditch Centreline
- Edge of River
- Indefinite Creek
- █ River
- Major Rivers & Lakes

13716/46 BLANEY ROAD
PID: 030-522-561 & 029-294-304

PLANNING DEPARTMENT



MAPLE RIDGE

British Columbia

mapleridge.ca

FILE: 2019-068-SD

DATE: Feb 25, 2019

BY: PC

**CITY OF MAPLE RIDGE
DEVELOPMENT AGREEMENTS COMMITTEE**

June 16, 2020
Mayor's Office

CIRCULATED TO:

Michael Morden, Mayor
Chair

Al Horsman, Chief Administrative Officer
Member

Catherine Schmidt, Recording Secretary

1. 17-112958 BG

LEGAL: Lot 10 Section 21 Township 12 New Westminster District Plan 85151
PID: 015-965-007

LOCATION: 23360 124A Avenue

OWNER: Yu Hong Cai and Hong Wang

REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 17-112958 BG.

CARRIED

2. 18-115458 BG

LEGAL: Lot 2 Section 28 Township 12 New Westminster District Plan
EPP58888
PID: 029-961-882

LOCATION: 13310 235 Street

OWNER: Scott Charlton Construction Ltd. (J. Scott Charlton)

REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 18-115458 B.C. Ltd.

CARRIED

3. 19-114196 BG

LEGAL: Lot 230 Section 20 Township 12 New Westminster District Plan
42134
PID: 000-802-000
LOCATION: 22612 122 Avenue
OWNER: Kerry and Erin Altwasser
REQUIRED AGREEMENTS: Temporary Residential Use Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-114196 BG.

CARRIED

4. 19-117743 BG

LEGAL: Lot 56 Section 33 Township 12 New Westminster District Plan
EPP60118
PID: 030-522-609
LOCATION: 23285 137 Avenue
OWNER: 1070824 B.C. Ltd. (Paramjit Kooner)
REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-117743 BG.

CARRIED

5. 18-124563 BG

LEGAL: Lot 9 Section 16 Township 12 New Westminster District Plan
LMP34938
PID: 023-884-843
LOCATION: 11434 233A Street
OWNER: Joerg and Alexander Reidegeld, & Sylvie Dufour
REQUIRED AGREEMENTS: Secondary Suite Covenant

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 18-124563 BG.

CARRIED

6. 19-119868 BG

LEGAL: Lot 62 East Half Section 28 Township 12 New Westminster District
Plan LMP35466
PID: 023-928-905
LOCATION: 13380 McCauley Crescent
OWNER: Martin Robson
REQUIRED AGREEMENTS: Release of Covenants (BL365313, BL365315)

THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO 19-119868 BG.


CARRIED

7. M. Baski / Planning Dept.

LEGAL: West 80.7 Feet East Half Lot 7 Except: Part Road on Plan 86679
Section 16 Township 12 New Westminster District Plan 1676
PID: 012-293-148
LOCATION: 23682 Dewdney Trunk Road
OWNER: Jem Designs Inc. and Meadowland Industries Ltd.
REQUIRED AGREEMENTS: Release of Covenant (BE43795)

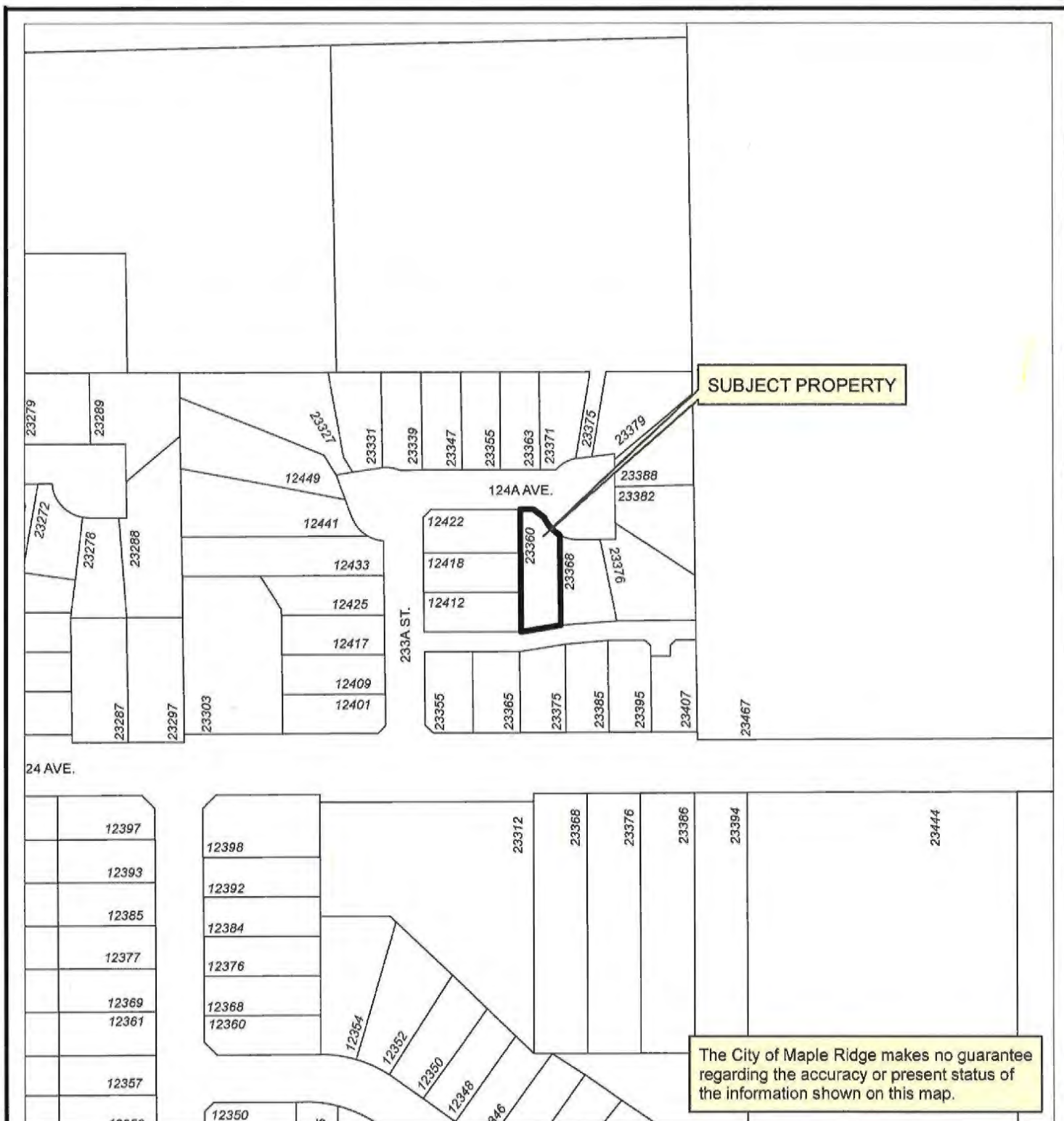
THAT THE MAYOR AND CORPORATE OFFICER BE AUTHORIZED TO SIGN AND SEAL THE PRECEDING DOCUMENT AS IT RELATES TO M. Baski / Planning Dept.

CARRIED

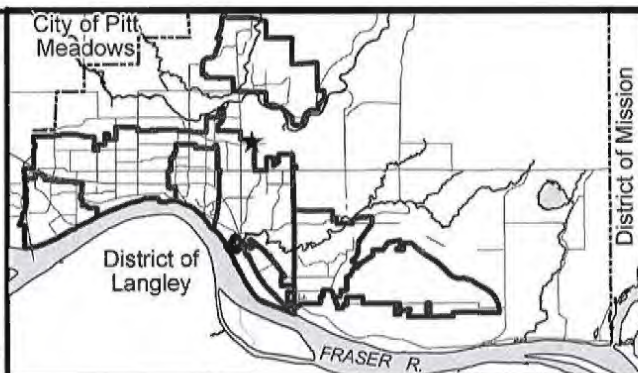


Michael Morden, Mayor
Chair

Al Horsman, Chief Administrative Officer
Member



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23360 124A Ave

ENGINEERING DEPARTMENT



MAPLE RIDGE

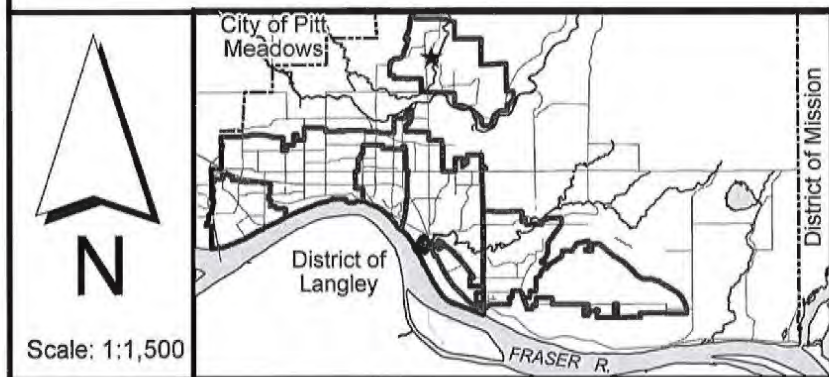
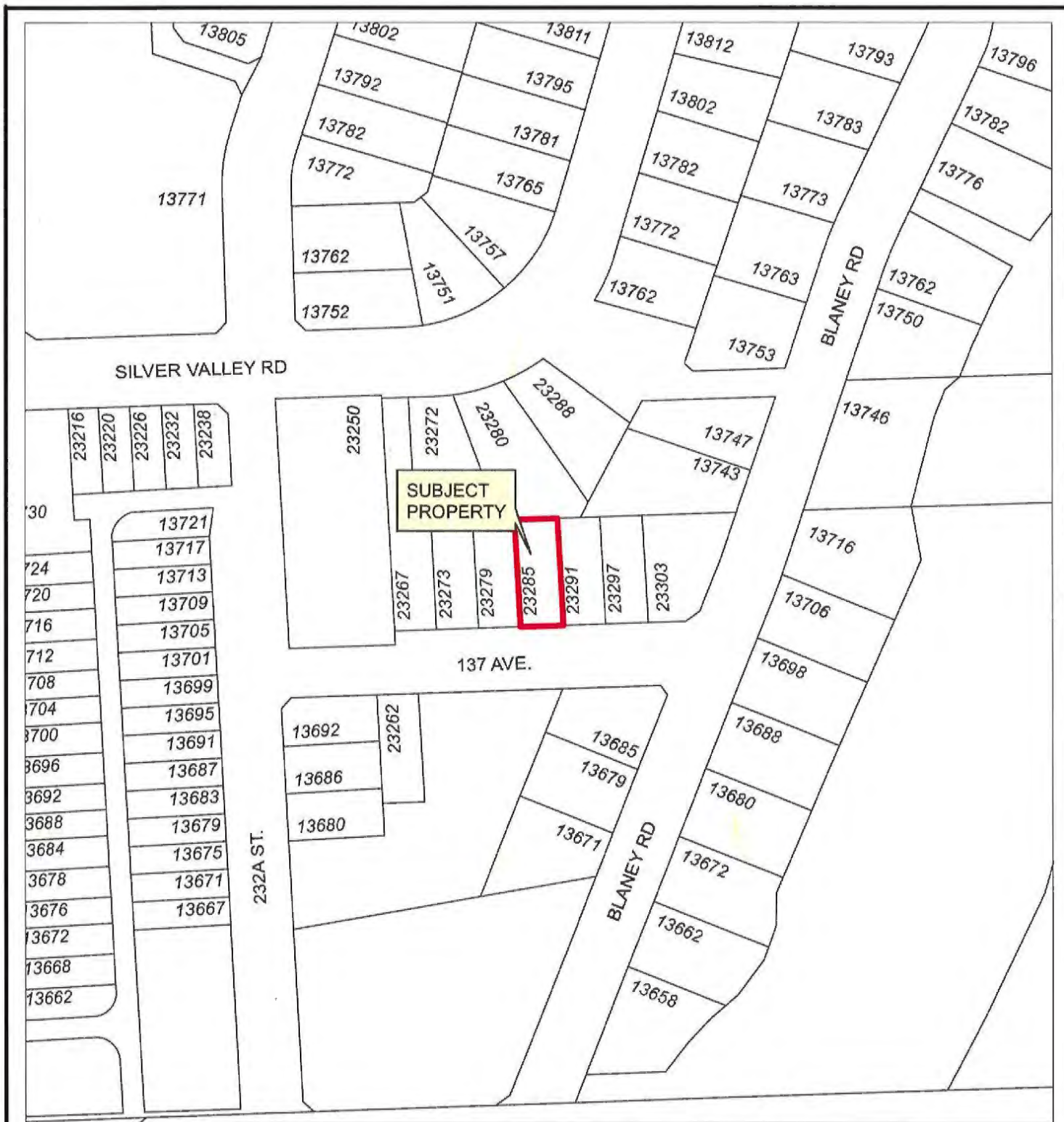
British Columbia

mapleridge.ca

FILE: Untitled

DATE: Jun 9, 2020

BY: NV



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23285 137 AVE

ENGINEERING DEPARTMENT



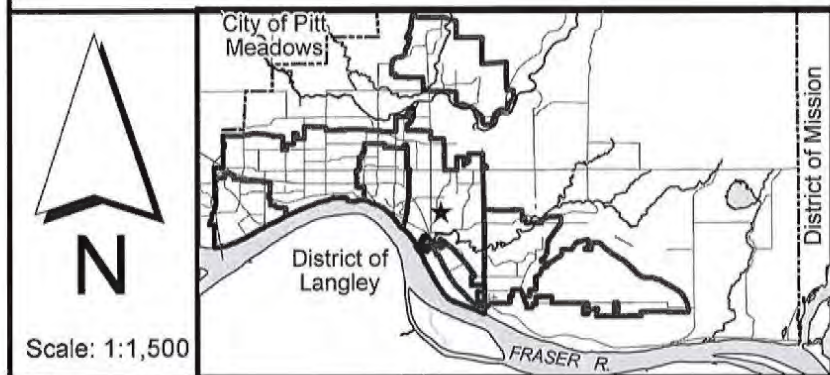
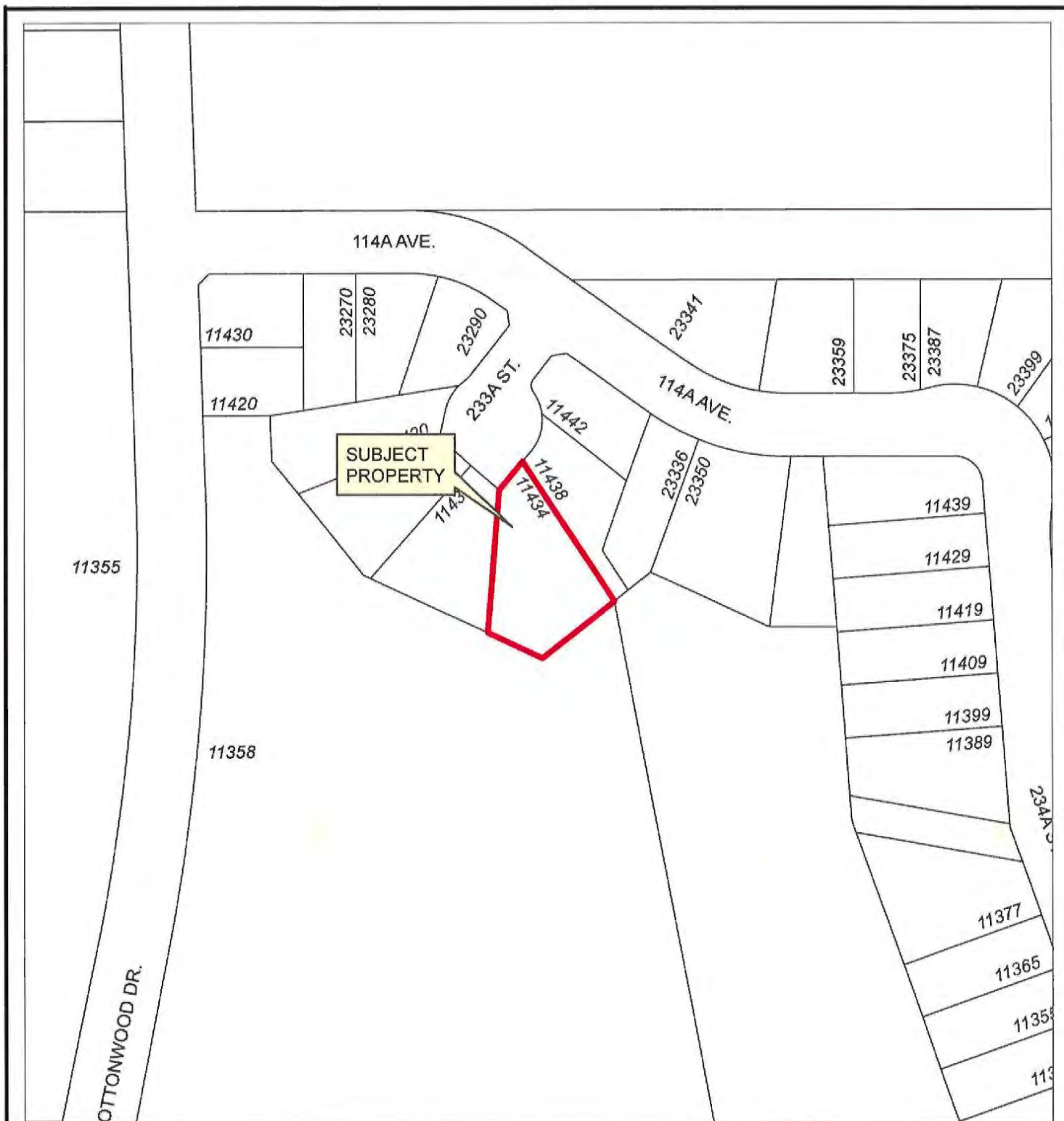
MAPLE RIDGE

British Columbia

mapleridge.ca


FILE: Untitled
DATE: Jun 9, 2020

BY: LM



11434 233A ST

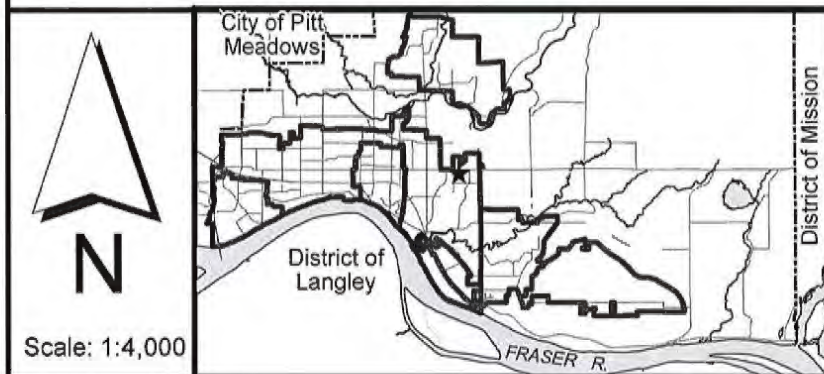
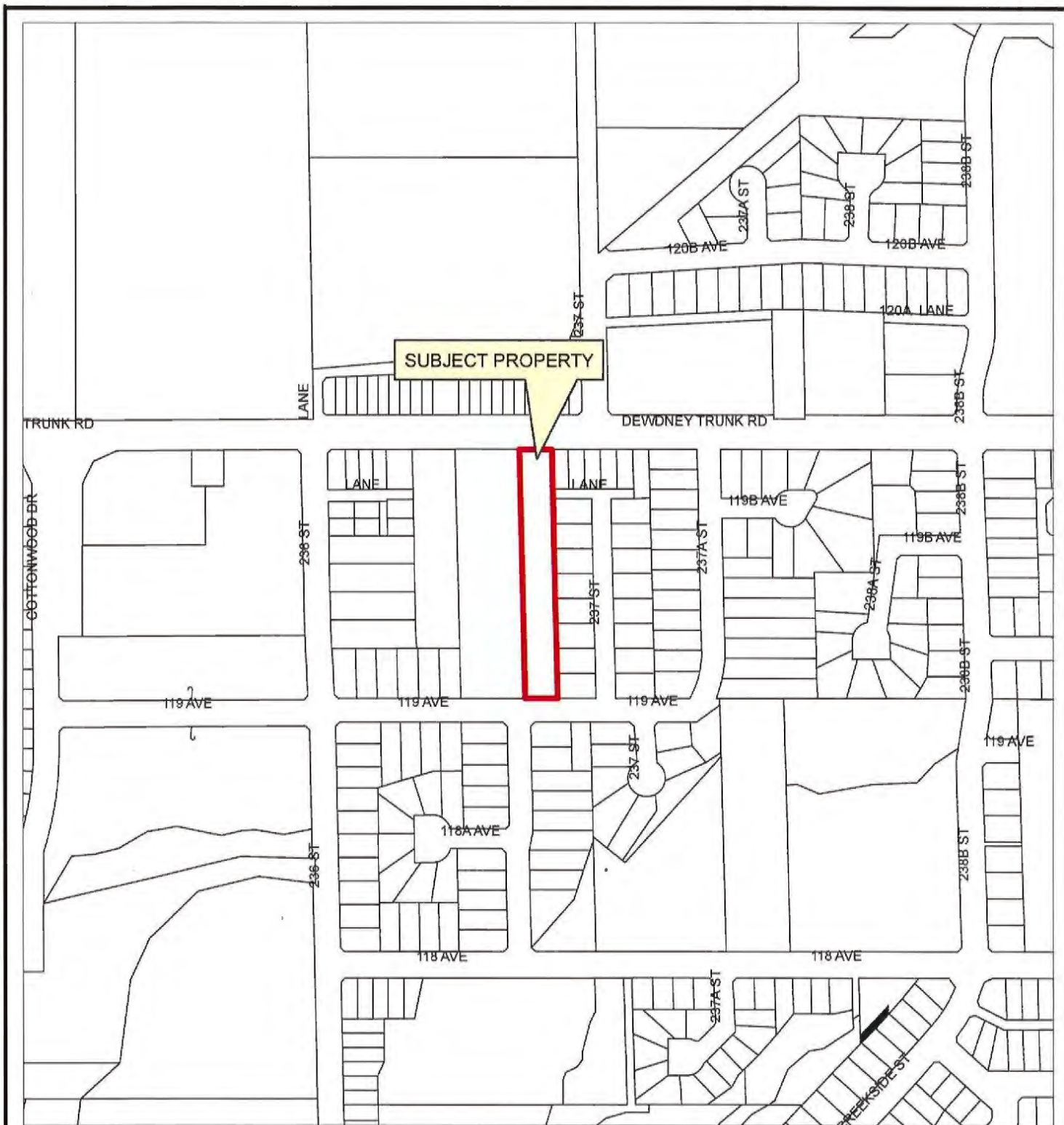
ENGINEERING DEPARTMENT

 **MAPLE RIDGE**
British Columbia

mapleridge.ca

FILE: Untitled
DATE: Jun 9, 2020

BY: LM



23682 Dewdney Trunk Rd



FILE: N/A
DATE: Jun 15, 2020

BY: MC

701.2 Minutes of Meetings of Committees and Commissions of Council



City of Maple Ridge
Community Heritage Commission
MINUTES

The Minutes of the Regular Meeting of the Community Heritage Commission,
held in the Blaney Room, Maple Ridge City Hall on January 23, 2020 at 7:02 pm.

COMMISSION MEMBERS PRESENT

Councillor Ryan Svendsen	Council Liaison
Shane Gehring, Chair	Member at Large
Eric Phillips, Vice Chair	Member at Large
Jared Bissky	Member at Large
Julie Koehn	Maple Ridge Historical Society Representative
Len Pettit	Member at Large
Ross Dunning	Maple Ridge Historical Society Representative

STAFF PRESENT

Adrian Kopstynski	Interim Staff Liaison / Planner 2
Adam Rieu	Senior Planning Technician
Erin Mark	Committee Clerk

GUESTS

Erica Williams	Maple Ridge Historical Society - Alternate
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1. CALL TO ORDER

2. APPROVAL OF THE AGENDA

R/2020-001

It was moved and seconded

That the agenda for the January 23, 2020 Community Heritage Commission meeting be approved as presented with the following amendment:

- addition of Item 6.5 – Sampo Hall

CARRIED

3. ADOPTION OF MINUTES

R/2020-002

It was moved and seconded

That the minutes of the Maple Ridge Community Heritage Commission meeting dated November 14, 2019 be adopted.

CARRIED

4. DELEGATIONS – Nil

5. QUESTION PERIOD – Nil

6. NEW AND UNFINISHED BUSINESS

6.1. Member Introductions

CHC members and staff introduced themselves and welcomed new member Jared Bissky to the Commission.

6.2. Hammond Cedar Mill Plaque

Len Pettit provided an update on the status of the installation of a plaque to commemorate the Hammond Cedar Mill. Committee members and staff discussed the next steps for the project.

6.3. Tolmie Park Signage

Eric Phillips enquired as to why the Tolmie Park signage is still in disrepair and has not been replaced.

R/2020-003

It was moved and seconded

That the staff liaison determine why the Tolmie Park signage was not replaced when the other heritage signage was replaced and report back to the Commission.

CARRIED

6.4. Centenary of Holy Spirit Anglican Church Building in Whonnock

Julie Koehn shared that the Centenary of Holy Spirit Anglican Church are planning a Centenary for their building next year. Ms. Koehn will continue to liaison with the Church and see if the Community Heritage Commission can assist with the Centenary.

6.5. Sampo Hall

Ross Dunning raised concerns about the recent demolition of Sampo Hall which may have had historically significant items in the building during the demolition and enquired if notifications are sent when a heritage building is identified for demolition.

R/2020-004

It was moved and seconded

That the staff liaison speak with the building department to clarify the process for the demolition of heritage buildings and determine if a staff presentation regarding the heritage building demolition process at a subsequent meeting is feasible.

CARRIED

7. LIAISON UPDATES

7.1. Advisory Committee Overview

The committee clerk presented an overview of the role of advisory committees, committee members and meeting procedures and answered questions from the committee.

R/2020-005

It was moved and seconded

That a discussion item on the role of Advisory Committee Subcommittees and Taskforces be added to the May Community Heritage Commission meeting agenda.

CARRIED

7.2. Maple Ridge Historical Society

Ms. Koehn provided an update on the Maple Ridge Historical Society.

7.3. Council Liaison

Councillor Svendsen provided a Council update.

8. SUBCOMMITTEE & TASK FORCE UPDATES

8.1. 2020 Heritage Awards Planning – February 21st

Adam Rieu, Senior Planning Technician, provided an update on the status of the Heritage Awards and reviewed the task list with the members. Committee members discussed preparations for the event.

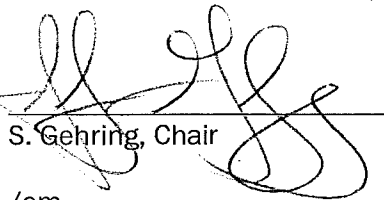
Note: Shane Gehring left the meeting at 8:30pm.

9. ROUNDTABLE

Members shared their experiences at relevant heritage locations and discussed plans for Heritage Week.

Mr. Rieu invited CHC members to attend a presentation to Council on the Heritage Incentives Study on January 28th at 11:00 am.

10. ADJOURNMENT – 8:45 pm.



S. Gehring, Chair

/em



City of Maple Ridge
Social Policy Advisory Committee
MEETING MINUTES

The Minutes of the Regular Meeting of the Social Policy Advisory Committee
held in the Blaney Room at Maple Ridge City Hall, 11995 Haney Place Maple Ridge,
on March 4, 2020 at 7:01 pm.

COMMITTEE MEMBERS PRESENT

Councillor Chelsa Meadus
Annette Morgan
Blair Mikoda, Vice Chair
Brenna Ayliffe
Marissa Stalman

Council Liaison – Alternate
Maple Ridge Pitt Meadows Katzie Seniors Network
Member at Large
Fraser Health
Member at Large

STAFF PRESENT

Tony Cotroneo
Erin Mark

Staff Liaison / Manager, Community Engagement
Committee Clerk

COMMITTEE MEMBERS ABSENT

Councillor Judy Dueck, Chair
Jenny Earley
Kim Dumore
Sarah Armstrong
Tarel Swansky

Council Liaison
Maple Ridge Pitt Meadows Katzie Community Network
School District No. 42
Member at Large
Member at Large

1. CALL TO ORDER

2. APPROVAL OF THE AGENDA

R/2020-006

It was moved and seconded

That the March 4, 2020 Social Policy Advisory Committee Agenda be amended to include:

- Item 7.3 – Period Promise Campaign Update
and be approved as amended.

CARRIED

3. ADOPTION OF THE MINUTES

R/2020-007

It was moved and seconded

That the minutes of the Maple Ridge Social Policy Advisory Committee meeting dated January 8, 2020 be adopted.

CARRIED

4. DELEGATIONS – Nil

5. QUESTION PERIOD – Nil

6. NEW AND UNFINISHED BUSINESS – Nil

7. LIAISON UPDATES

7.1 UBCM Grant Application – Poverty Reduction, Planning and Action

The staff liaison presented a verbal update on the UBCM grant application to develop a Maple Ridge Food Security Action Plan. The staff liaison confirmed that the grant application was approved by Council and has been submitted to UBCM for consideration.

7.2 Community Network

Brenna Ayliffe provided an update on the Community Network and announced they have a new Coordinator. The Committee discussed requesting Maple Ridge Council attend part of an upcoming Community Network meeting but noted the meetings are in conflict with Council meetings.

R/2020-008

It was moved and seconded

That staff look into having Maple Ridge Council attend part of a regularly scheduled Community Network meeting in 2020.

CARRIED

7.3 Period Promise Campaign

The staff liaison provided an update on what has happened since the Period Promise Campaign delegation encouraged the City to ensure period products were available in all City facilities. A trial campaign was held in the Youth Centre during March and data and feedback from that program is being collected and will be used to determine future programs.

8. SUBCOMMITTEE & TASK FORCE UPDATES

8.1 Youth Planning Table

The staff liaison provided an update on items discussed at the February Youth Planning Table and the goals for upcoming meetings.

8.2 Community Action Team (CAT)

Ms. Ayliffe confirmed the next event “Strengthening Resilience” will be held on March 31st at MRSS and noted the previous events have been very well received.

8.3 EDI Workshop Task Force

Ms. Ayliffe confirmed that the EDI Workshop has been scheduled on March 12th and is open to anyone who would like to attend.

8.4 Chronic Disease Task Force

The Committee discussed plans and dates for the Chronic Disease workshop.

R/2020-009

It was moved and seconded

That the Social Policy Advisory Committee hold the Chronic Disease Workshop on Thursday April 30, 2020.

CARRIED

R/2020-010

It was moved and seconded

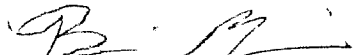
That Marissa Stalman participate on the Chronic Disease Task Force.

CARRIED

9. ROUNDTABLE

Members provided verbal reports on relevant events, activities and social policy topics.

10. ADJOURNMENT – 8:12 pm


Blaire Mikoda, Vice Chair

/em



mapleridge.ca

**City of Maple Ridge
Agricultural Advisory Committee
MEETING MINUTES**

The Minutes of the Regular Meeting of the Agricultural Advisory Committee,
held via Teleconference on March 26, 2020 at 7:02 pm.

COMMITTEE MEMBERS PRESENT

Bill Hardy, Chair	Member at Large
Carla Schiller, Vice Chair	Member at Large
Melissa Maltais	Fraser North Farmers Market Society
Michelle Franklin	Member at Large
Pascale Shaw	Member at Large
Angela Boss	B.C. Ministry of Agriculture (Non-voting member)
Shannon Lambie	Agriculture Land Commission (Non-voting member)

STAFF MEMBERS PRESENT

Amanda Grochowich	Staff Liaison / Planning Department
Erin Mark	Committee Clerk

COMMITTEE MEMBERS ABSENT

Councillor Gordy Robson	Council Liaison
Andrew Pozsar	Member at Large
Lorraine Bates	Agricultural Fair Board Representative

1. CALL TO ORDER

2. APPROVAL OF THE AGENDA

R/2020-010

It was moved and seconded

That the March 26, 2020 Agricultural Advisory Committee agenda be amended to add:

- Item 6.6 – Agricultural Advisory Committee Membership Structure;
- Item 6.7 – Backyard Chickens;

and be approved as amended.

CARRIED

3. ADOPTION OF THE MINUTES

R/2020-011

It was moved and seconded

That the minutes of the Maple Ridge Agricultural Advisory Committee meeting dated January 30, 2020 be adopted.

CARRIED

4. DELEGATIONS – Nil

5. QUESTION PERIOD – Nil

6. NEW AND UNFINISHED BUSINESS

6.1. Impacts of COVID-19 on Local Farms/Farmers

Angela Boss informed the Committee that the Provincial Ministry of Agriculture was reaching out to different agriculture sectors/regions asking about the current impacts and anticipated issues of the COVID-19 pandemic and then asked about their experiences.

Members shared some of the issues they and others in the industry are currently facing and how they are adapting.

6.2. Pollinators Presentations Follow-Up

The committee clerk shared that the delegation that presented information regarding the Decline of Pollinators to the AAC on January 30, 2020 also presented to Council on February 11, 2020. Committee members discussed the next steps to try to address the concerns raised by the Pollinators delegation.

6.3. Dr. Bee – 2020 Bees & Blueberries Festival – August 8/9, 2020

The Chair reviewed an event application package received for the 2020 Bees & Blueberries Festival. The Committee postponed a decision on this item until more information becomes available on the future of public events given the current COVID health crisis.

6.4. Code of Practice for Agricultural Environmental Management

The staff liaison spoke about The Code of Practice for Agricultural Environmental Management materials provided in the agenda package and encouraged members to distribute them to their contacts.

6.5. Golden Harvest 2020

The staff liaison asked the Committee if they would support hosting a Golden Harvest event in 2020.

R/2020-012

It was moved and seconded

That the AAC consider including Golden Harvest as part of their 2021 Business Plan.

CARRIED

Note: Items 6.6 and 6.7 were moved to after the Task Force Updates due to time constraints.

7. LIAISON UPDATES

7.1. Staff Liaison

The staff liaison provided an update on City operations during the COVID pandemic.

7.2. Council Liaison

An update was not available.

8. TASK FORCE REPORTS

8.1. Food Garden Contest 2020

Carla Schiller and Pascale Shaw updated the Committee on the preparations for the 2020 Food Garden Contest and discussed categories and prizes.

8.2 Education

The Chair discussed and sought support from the Committee to host a Speaker Series in the fall.

R/2020-013

It was moved and seconded

That Michelle Franklin and Angela Boss work to examine potential topics for a Speaker Series that would potentially run Fall 2020/ early Winter 2021.

CARRIED

8.3 Promotion of Agriculture

The Committee discussed the Booth in a Box project currently underway by the task force. Michelle Franklin and Angela Boss offered assistance with the project.

6. NEW AND UNFINISHED BUSINESS Continued

6.6 Agricultural Advisory Committee Membership Structure

Pascale Shaw raised concerns that the AAC did not have representation from a variety of agricultural sectors and that valuable experience was lost when members left at the end of 2019. The Committee discussed ways to identify what sectors are missing and how to involve individuals from those sectors with the AAC.

6.7 Backyard Chickens

This item was moved to a future agenda due to time restraints.

9. ROUNDTABLE

Members provided verbal reports on local agricultural topics and activities.

10. ADJOURNMENT - 9:00 PM



Bill Hardy, Chair

/em

City of Maple Ridge

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: Disbursements for the month ended May 31, 2020

MEETING DATE: June 23, 2020
FILE NO: 2472516
MEETING: Council

EXECUTIVE SUMMARY:

The disbursements summary for the past period is attached for information. All voucher payments are approved by the Chief Financial Officer or Corporate Controller. Expenditure details are available by request through the Finance Department.

RECOMMENDATION:

That the disbursements as listed below for the month ended May 31, 2020 be received for information only.

GENERAL	\$ 9,436,913
PAYROLL	\$ 1,825,564
PURCHASE CARD	\$ 86,015
	<u>\$ 11,348,492</u>

DISCUSSION:**a) Background Context:**

The adoption of the Five Year Consolidated Financial Plan has appropriated funds and provided authorization for expenditures to deliver municipal services.

The disbursements are for expenditures that are provided in the Financial Plan Bylaw or subsequently approved through Council Resolution.

b) Citizen/Customer Implications:

The citizens of Maple Ridge are informed on a routine monthly basis of financial disbursements.

c) Business Plan/Financial Implications:

Highlights of larger items included in Financial Plan or Council Resolution

• Double V Construction Ltd – Albion Community Centre	\$	678,426
• Inland Kenworth Partnership – Front end loader	\$	223,772
• Ministry of Transportation – Haney Bypass improvements	\$	451,616
• Pedre Contractors Ltd– Watermain replacement (Edge St - 228 St)	\$	214,658
• Ridge Meadows Recycling Society - Monthly contract for recycling	\$	243,286
• Yellowridge Construction Ltd - Maple Ridge Fire Hall #4	\$	1,392,726

d) Policy Implications:

Corporate governance practice includes reporting the disbursements to Council monthly.

CONCLUSIONS:

The disbursements for the month ended May 31, 2020 have been reviewed and are in order.



Prepared by: **Trevor Hansvall**
Accounting Clerk 2



Reviewed by: **Trevor Thompson, BBA, CPA, CGA**
Chief Financial Officer



Approved by: **Christina Crabtree**
Acting General Manager Corporate Services



Concurrence: **Al Horsman**
Chief Administrative Officer

CITY OF MAPLE RIDGE
MONTHLY DISBURSEMENTS - May 2020

<u>VENDOR NAME</u>	<u>DESCRIPTION OF PAYMENT</u>	<u>AMOUNT</u>
3R Demolition	Demolition work - Maple Ridge Cemetery	22,365
Albion Panorama Homes Ltd	Security refund	21,896
Alouette River Management Society	2020 service grant	20,000
Associated Engineering (BC) Ltd	Forcemain upgrade (225 St)	19,473
Badger Daylighting Lp	Hydro-excavation - multiple locations	39,110
BC Hydro	Electricity	175,420
BC SPCA	Contract payments	67,848
Bell Mobility Inc	Bell cellphones & tablets (Apr & May)	21,613
Brandt Tractor Ltd	Trailer - Trail UBT822	15,148
CUPE Local 622	Dues - pay periods 20/10 & 20/11	46,128
C3 Mainline Inspections Inc	Video inspection of sanitary sewer	47,420
Cedar Crest Lands (BC) Ltd	Fire Fighters Park maintenance	6,006
	Merkley Park - hammer & discus throw facility	61,889
	Telosky Stadium synthetic turf fields	62,599
	Active incident monitor annual maintenance	130,494
Centralsquare Canada Software	Maintenance:	23,250
Cobing Building Solutions	City Hall	9,285
	Fire Halls	712
	Leisure Centre	8,071
	Neighbourhood parks	701
	RCMP	1,318
	Supply & install cable system - Planet Ice	28,316
Conwest Contracting Ltd	Watermain replacement (232 St)	48,402
Craven Huston	Albion Community Centre	21,263
Double V Construction Ltd	Albion Community Centre	19,574
Dougness Holdings Ltd	Catch basin cleaning	678,426
Drake Excavating (2016) Ltd	Fibre optic manhole replacement	21,519
ESRI Canada Limited	ESRI local government enterprise licensing agreement	62,843
Fern Hill Developments Ltd	Security refund	70,560
Fred Surridge Ltd	Waterworks supplies	515,414
Golden Globe Construction Ltd	Telosky Stadium Field House	50,234
Greater Vancouver Sewerage & Drainage	Licence for Transfer Station	21,705
Greater Vancouver Water District	Water consumption Mar 3 - Mar 31/20	92,090
Gregg Distributors	Works Yard inventory	567,280
Hallmark Facility Services Inc	Janitorial services & supplies:	19,457
	City Hall	4,728
	Fire Halls	5,845
	Library	6,820
	Operations	4,877
	Randy Herman Building	5,615
	RCMP	5,271
	Whonnock lake	788
Iconix Waterworks Lp	Waterworks supplies	33,945
IDRS	Tax notice mailing	19,877
Imprest Account Leisure Centre	Refunded programs - Leisure Centre	27,017
Inland Kenworth Partnership	Front end loader	15,770
Jaskar Developments Ltd	Security refund	223,772
Kanaka Education & Environmental Society	2020 service grant	39,785
Lafarge Canada Inc	Roadworks material	20,000
Landmark Enterprises Ltd	Security refund	20,734
Luiz Leon & Associates Ltd	Consulting	34,555
Manulife Financial	Employer/employee remittance	15,278
		345,501

<u>VENDOR NAME</u>	<u>DESCRIPTION OF PAYMENT</u>	<u>AMOUNT</u>
Maple Leaf Disposal Ltd	Refuse container and litter collection	16,719
Maple Ridge & PM Arts Council	Arts Centre contract	57,493
Metro Motors Ltd	2X - Ford 2020 F250	82,152
Ministry of Transportation	Haney Bypass improvements	451,616
Mission Contractors Ltd	Supply & place gravel for playground pad	15,160
Motion Canada	Thermal imaging camera	20,316
MR PM Katzie Seniors Network	Annual operating funding	25,400
Municipal Insurance Association	Insurance deductibles	25,299
Municipal Pension Plan BC	Employer/employee remittance	489,757
Oracle Canada Ulc	Oracle support renewal	28,941
Paul Bunyan Tree Services	Curbside chipping	32,067
Pedre Contractors Ltd	Watermain replacement (Edge St - 228 St)	214,658
Prime Traffic Solutions Ltd	Traffic control	56,520
Rakhra, Gurlal	Security refund	22,688
Receiver General For Canada	Employer/employee remittance	868,110
RG Arenas (Maple Ridge) Ltd	Ice rental (Mar & Apr)	127,318
Ricoh Canada Inc	Quarterly copy usage	18,419
Ridgemoor Recycling Society	Monthly contract for recycling	243,286
	Scale repairs	10,180
	Weekly bin rental	605
Sanscorp Products Ltd	Roadworks material	21,722
Stantec Consulting Ltd	263 St water pump station replacement	1,433
	270A St reservoir & pump station	16,724
Stewart Mcdannold Stuart	Professional fees	15,055
Strata Plan LMS Commercial	Panorama strata fees	17,749
Streetwise Traffic Controllers	Traffic control	23,325
Suncor Energy Products	Gasoline & diesel fuel	55,345
Tikal Construction Ltd	MRSS track upgrades	119,854
Total Power Ltd	Generator maintenance	32,247
Treleaven, Susan	Security refund	15,039
Urban Lumberjack Tree Services	Curbside chipping	27,190
Valley Geotechnical	Albion Community Centre	17,872
Warrington PCI Management	Tower common costs	151,368
Wesco Distribution Inc	Cabeling equipment	19,068
Westridge Security Ltd	Community patrols	42,886
	Static guard service	15,204
Whitestar Property Services	Blackberry removal	3,150
	Parks mowing & trimming + light landscape	35,717
	Security draw	58,416
Wholesale Fire & Rescue Ltd	Fire hoses	15,251
Xylem Canada Company	Pump repairs	20,606
Yellowridge Construction Ltd	Maple Ridge Fire Hall #4	1,392,726
Disbursements In Excess \$15,000		8,559,815
Disbursements Under \$15,000		877,098
Total Payee Disbursements		9,436,913
Payroll	PP20/10 & PP20/11	1,825,564
Purchase Cards - Payment		86,015
Total Disbursements May 2020		11,348,492



mapleridge.ca

City of Maple Ridge

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: 2020 Council Expenses

MEETING DATE: June 23, 2020
FILE NO: 2472635
MEETING: Council

EXECUTIVE SUMMARY


In keeping with Council's commitment to transparency in local government, the attached Schedule lists Council expenses recorded to May 31, 2020. The expenses included on the schedule are those required to be reported in the annual Statement of Financial Information and are available on our website.


RECOMMENDATION:


Receive for information

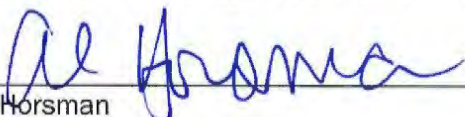
Discussion

The expenses included in the attached schedule are those reported in the annual Statement of Financial Information (SOFI), including those incurred under Policy 3.07 "Council Training, Conferences and Association Building". The budget for Council includes the provision noted in Policy 3.07 as well as a separate budget for cell phone and iPad usage. The amounts on the attached Schedule are those recorded prior to the preparation of this report and are subject to change.


Prepared by: Trevor Hansvall
Accounting Clerk 2


Reviewed by: Catherine Nolan, CPA, CGA
Corporate Controller


Approved by: Christina Crabtree
Acting General Manager Corporate Services


Approved by: Al Horsman
Chief Administrative Officer

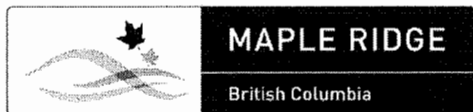
702.2

Month of Event	Reason for expense	Conferences & Seminars	Community Events	Cell Phones / iPads	Totals
Dueck, Judy					
January	Portable electronic device charges (e.g. iPad)			5.67	
February	Portable electronic device charges (e.g. iPad)			5.35	
March	Portable electronic device charges (e.g. iPad)			5.35	
	Lunch & learn - Ridge Meadows Chamber of Commerce		30.00		
April	Portable electronic device charges (e.g. iPad)			5.35	
May	Portable electronic device charges (e.g. iPad)			5.35	
June					
July					
August					
September					
October					
November					
December					
		-	30.00	27.07	57.07
Duncan, Kiersten					
January	Cell phone charges			52.97	
	Portable electronic device charges (e.g. iPad)			5.35	
February	2020 Afro Gala		30.00		
	2020 Dessert & Dance - Garibaldi Secondary		16.93		
	Cell phone charges			48.15	
	Hometown Heroes Night		50.00		
	Portable electronic device charges (e.g. iPad)			5.35	
March	Cell phone charges			85.60	
	Portable electronic device charges (e.g. iPad)			5.35	
April	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
May	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
June					
July					
August					
September					
October					
November					
December					
		-	96.93	309.77	406.70

Month of Event	Reason for expense	Conferences & Seminars	Community Events	Cell Phones / iPads	Totals
Meadus, Chelsa					
January	Cell phone charges			52.97	
	Portable electronic device charges (e.g. iPad)			5.35	
February	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
March	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
April	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
May	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
June					
July					
August					
September	Union of BC Municipalities Convention	291.72			
October					
November					
December					
		291.72	-	272.32	564.04
Morden, Mike					
January					
February	Hometown Heroes Night		50.00		
March	Lunch & learn - Ridge Meadows Chamber of Commerce		30.00		
April					
May					
June					
July					
August					
September	Union of BC Municipalities Convention	291.72			
October					
November					
December					
		291.72	80.00	-	371.72

Month of Event	Reason for expense	Conferences & Seminars	Community Events	Cell Phones / iPads	Totals
Robson, Gordy					
January	Portable electronic device charges (e.g. Ipad)			5.35	
February	Portable electronic device charges (e.g. Ipad)			5.35	
March	Portable electronic device charges (e.g. Ipad)			5.35	
April	Portable electronic device charges (e.g. Ipad)			5.35	
May	Portable electronic device charges (e.g. Ipad)			5.35	
June					
July					
August					
September					
October					
November					
December					
		-	-	26.75	26.75
Svensen, Ryan					
January	Cell phone charges			52.97	
	Portable electronic device charges (e.g. Ipad)			5.35	
February	Cell phone charges			48.15	
	Portable electronic device charges (e.g. Ipad)			5.35	
March	Cell phone charges			48.15	
	Portable electronic device charges (e.g. Ipad)			5.35	
	South Asian Cultural Gala		125.00		
April	Cell phone charges			48.15	
	Portable electronic device charges (e.g. Ipad)			5.35	
May	Cell phone charges			48.15	
	Portable electronic device charges (e.g. Ipad)			5.35	
June					
July					
August					
September	Union of BC Municipalities Convention	291.72			
October					
November					
December					
		291.72	125.00	272.32	689.04

Month of Event	Reason for expense	Conferences & Seminars	Community Events	Cell Phones / iPads	Totals
Yousef, Ahmed					
January	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
February	2020 Afro Gala		30.00		
	Cell phone charges			48.15	
	Hometown Heroes Night		50.00		
	Lunch & learn - Ridge Meadows Chamber of Commerce		30.00		
	Portable electronic device charges (e.g. iPad)			5.35	
March	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
	South Asian Cultural Gala		125.00		
April	Cell phone charges			48.15	
	Portable electronic device charges (e.g. iPad)			5.35	
May	Portable electronic device charges (e.g. iPad)			5.35	
June					
July					
August					
September	Union of BC Municipalities Convention	291.72			
October					
November					
December					
		291.72	235.00	219.35	746.07
TOTALS		1,166.88	566.93	1,127.58	2,861.39



CITY OF MAPLE RIDGE

mapleridge.ca

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: Drinking Water Quality Report 2019

MEETING DATE: June 23, 2020
FILE NO: 11-5600-05
MEETING: Council

EXECUTIVE SUMMARY:

The City of Maple Ridge (City) operates a Municipal Water Utility under permit by the Fraser Health Authority (FHA) that requires an annual report be prepared and submitted to the FHA, and made available to the public.

The attached "Drinking Water Quality Report 2019" includes an outline of the regulatory framework, water quality monitoring data for 2019, and explanatory comments on the data. A copy of the report will be available at the public library, City Hall, and on the City's website.

In 2019, water quality within the City's municipal water distribution system met the standards detailed in the *BC Drinking Water Protection Regulation* as well as Health Canada's recommendations for drinking water quality, with the exception of temperature.

RECOMMENDATION:

This report is submitted for information.

DISCUSSION:

a) Background Context:

The City operates a Municipal Water Utility under the provisions of the Local Government Act and under permit by the Provincial Ministry of Health - Fraser Health Authority (FHA). The FHA administers the Provincial Drinking Water Protection Regulation, which stipulates Provincial drinking water quality requirements.

The City, as a distributor and purveyor of drinking water, is reliant on the Greater Vancouver Water District (GVWD) for source water quality control. While Coquitlam Lake is the primary source of water delivered to Maple Ridge, the GVWD can supply Maple Ridge with water from Seymour and Capilano Lakes in the event of disruptions at Coquitlam Lake.

The City's drinking water system operating permit requires the City to maintain a water quality monitoring program and provide an annual report of monitoring results to the FHA and the public. While the monitoring program provides an indication of drinking water quality within the municipal system, it does not provide information on drinking water quality within buildings, where water quality can change due to pipe materials, standing times, temperature, and other factors. Samples taken within buildings may be of different quality than those taken from municipal mains. The FHA has jurisdiction for testing/verifying water quality on private property.

In 2019, samples from 20 locations in the distribution system were taken weekly and analyzed by Metro Vancouver's laboratory staff. Test results were communicated to the Operations and Engineering Departments as well as the FHA for review. In 2019, no samples tested positive for E. coli, and no samples exceeded the *BC Drinking Water Protection Regulation* microbiological standard of 10 total coliforms per 100mL.

In monitoring unregulated drinking water quality parameters, the City follows the *2019 Water Quality Monitoring and Reporting Plan for Metro Vancouver (GVWD) and Local Government Members* and compares laboratory results to Health Canada's recommendations for drinking water quality. In 2019, City water did not exceed any limits recommended by Health Canada for unregulated parameters, with the exception of temperature.

b) Strategic Alignment:

Community Safety

The City strives to provide businesses and residents with clean, safe drinking water. A foundational activity for achieving this goal is the routine monitoring of drinking water in the City's distribution system. The Annual Drinking Water Quality Report documents this monitoring program.

Inter-Government Relations

The Strategic Plan directs the City to continue building strong relationships with the region and other levels of government. The City currently benefits from good working relationships with the GVWD and FHA in the cooperative provision of quality drinking water. The annual monitoring program and report facilitates this effective relationship.

Community Pride and Spirit

The Annual Drinking Water Quality report is made available to the public at the public library, City Hall, and on the City's website. This allows the public to participate in knowledge regarding the quality of drinking water distributed by the City.

c) Citizen/Customer Implications:

The annual reporting of drinking water quality provides citizens and customers with insight into the quality of drinking water received from the City.

d) Interdepartmental Implications:

As part of the Engineering Services Division, the Engineering and Operations Departments collaborate in the Water Utility's planning, management, operation, maintenance and water quality reporting to meet water quality objectives.

e) Policy Implications:

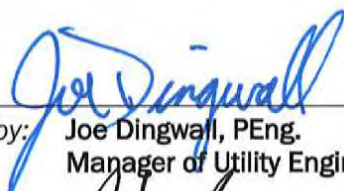
Reporting on the quality of the City's drinking water aligns with the City's Communication Policy.

CONCLUSION:

The City monitored drinking water quality in 2019 in accordance with Provincial mandate and the 2019 *Water Quality Monitoring and Reporting Plan for Metro Vancouver (GVWD) and Local Government Members*. Testing indicated that all samples met *BC Drinking Water Protection Regulation* standards and did not exceed Health Canada guidelines with the exception of temperature.

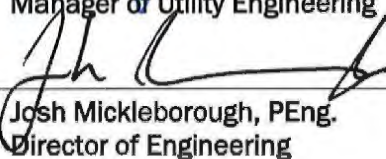
The "Drinking Water Quality Report 2019" documents the water quality monitoring program and test results. The document was prepared in accordance with Fraser Health Authority requirements and will be available to the public.

Prepared by:



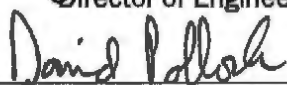
Joe Dingwall, PEng.
Manager of Utility Engineering

Reviewed by:



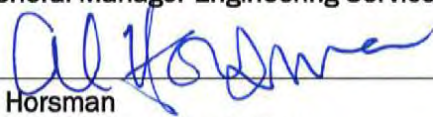
Josh Mickleborough, PEng.
Director of Engineering

Approved by:



David Pollock, PEng.
General Manager Engineering Services

Concurrence:



Al Horsman
Chief Administrative Officer

Attachments:

- (A) Drinking Water Quality Report 2019



CITY OF MAPLE RIDGE

DRINKING WATER QUALITY REPORT

2019



May 2020

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List of Abbreviations

°C	=	degree Celsius
CFU	=	colony-forming unit
Cl ₂	=	chlorine
E. coli	=	Escherichia coli
g	=	gram
HAA	=	haloacetic acid
HPC	=	heterotrophic plate count
L	=	liter
LA	=	Laboratory Accident
MF	=	membrane filtration
mg	=	milligram
mL	=	milliliter
NA	=	Not Available
NTU	=	Nephelometric Turbidity Units
ppb	=	parts per billion
THM	=	trihalomethane
µg	=	microgram

Executive Summary

The City of Maple Ridge is a distributor of drinking water that is supplied and treated by Metro Vancouver from its Coquitlam Lake source. In 2019, the City distributed water to over 80,000 people. In accordance with the requirements of the *BC Drinking Water Protection Regulation*, the City monitors drinking water quality by sending weekly samples from 20 locations in the distribution system to a laboratory for analysis. Laboratory test results are reported back to the City and the Fraser Health Authority and are documented in this annual report.

In 2019, the City's drinking water met all regulatory requirements for biological indicators set out in the *BC 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 100mL, and no sample had more than 10 total coliform per 100mL

For unregulated physiochemical drinking water quality parameters, the City's water did not exceed any maximum limits recommended by Health Canada, with the exception of temperature.



Coquitlam Lake (Source Water for Maple Ridge)

1.0 Introduction

The main legislations governing the provision of drinking water in British Columbia are the *BC Drinking Water Protection Act* and the *BC Drinking Water Protection Regulation*. The BC Ministry of Health is responsible for the administration of these laws and local health authorities are responsible for their implementation. The Greater Vancouver Water District (Metro Vancouver) and the City of Maple Ridge (City) supply and distribute drinking water in compliance with this Provincial legislation (Figure 1).

Under the *BC Drinking Water Protection Act and Regulation*, the City has several obligations, including the following:

- Operating under permit issued by the Fraser Health Authority
- Obtaining Fraser Health permits prior to constructing or altering the City's existing water system
- Ensuring water system operators are appropriately certified under the Environmental Operators Certification Program
- Collecting and submitting water samples to an approved laboratory
- Maintaining an emergency response plan
- Immediately notifying Fraser Health of possible threats to the drinking water system
- Publicizing water quality monitoring test results

This report fulfills the City's obligation to publicize water quality monitoring test results for 2019.

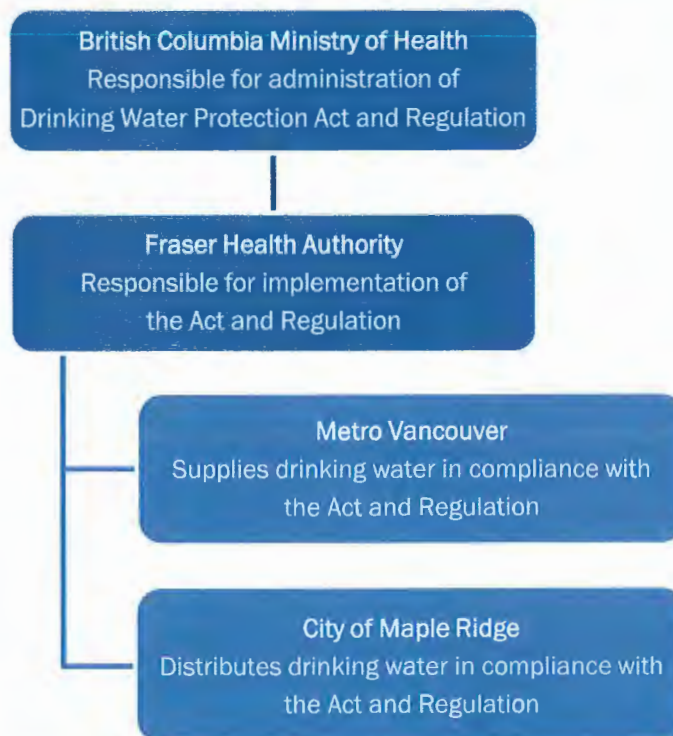


Figure 1: Government Roles in relation to the BC Drinking Water Protection Act and Regulation

2.0 Water Supply and Distribution

Metro Vancouver provides the City of Maple Ridge with treated drinking water from Coquitlam Lake. Treated drinking water is transported from Coquitlam Lake through large diameter Metro Vancouver water mains over a distance of approximately 20km to Maple Ridge (Figure 2). The City then distributes the water to businesses and residents through a network of water mains. The City's water distribution infrastructure includes approximately 400km of water mains, 19,000 service connections, 8 pump stations and 12 reservoir tanks/cells located at 7 sites. The municipality also maintains re-chlorination units to boost residual chlorine levels within the distribution system.

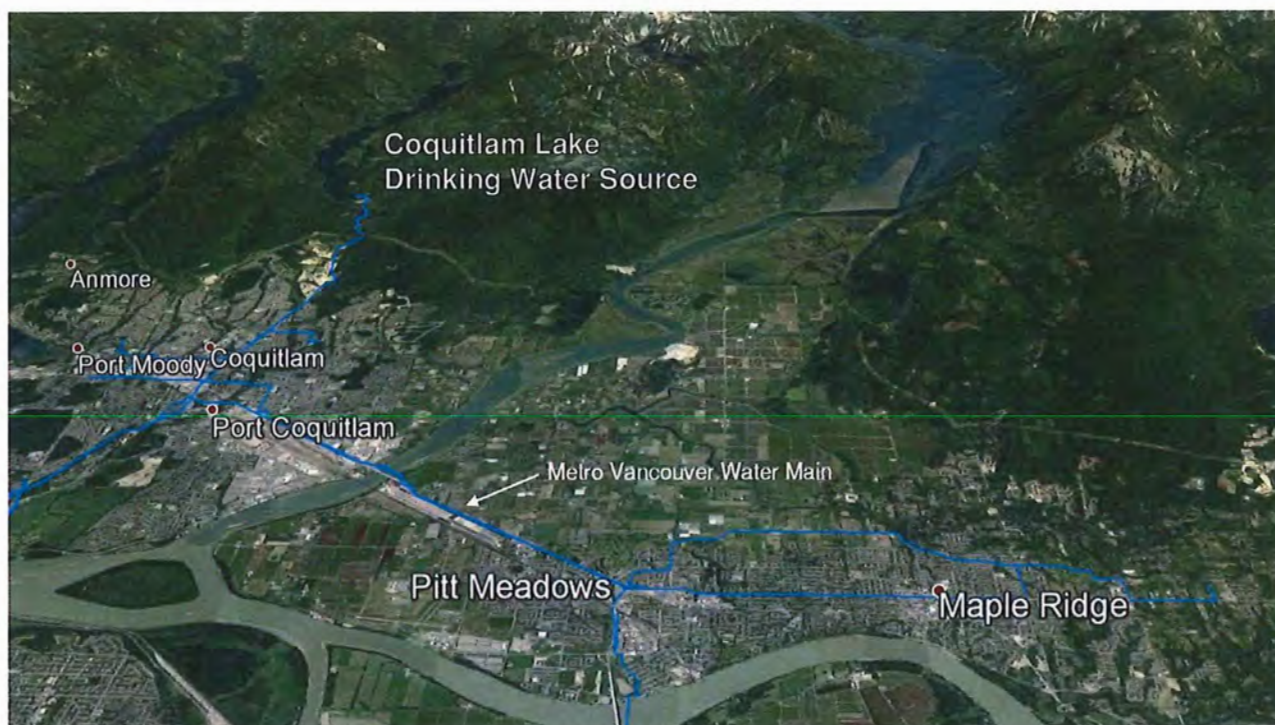


Figure 2: Regional Water Supply System (source: Metro Vancouver and Google Earth)

3.0 Multi-Barrier Approach to Safe Drinking Water

Metro Vancouver and Maple Ridge implement a “Multi-Barrier Approach” to achieving clean, safe drinking water. The approach involves systems, processes and procedures that collectively reduce the risk of drinking water contamination. These include source water protection and monitoring, effective treatment, distribution system operation and maintenance, water quality monitoring, and responses to potential contamination.

3.1 Source Water Protection and Monitoring

Metro Vancouver protects source waters by preventing human access and development in the Coquitlam Lake watershed (Figure 3). Metro Vancouver has also taken steps to minimize the erosion of soil that could be carried into Coquitlam Lake by deactivating old roads, stabilizing slopes and revegetating disturbed areas. Water quality in Coquitlam Lake is monitored at frequencies ranging from daily to annually, depending on the parameter. Total coliform, E. coli (bacteria) and turbidity (water clarity) are monitored daily. Higher levels of turbidity can trigger adjustments to the treatment process or even a switch to a different supply reservoir (Metro Vancouver has the ability to convey water from its Seymour/Capilano watersheds to Maple Ridge in the event of a service disruption at the Coquitlam source).



Figure 3: Coquitlam Lake Watershed

3.2 Effective Treatment

Metro Vancouver treats drinking water at the Coquitlam reservoir using a combination of ozone and ultra violet (UV) light. Chlorine is added to the water as it leaves the treatment plant to preserve the quality of drinking water as it travels through water mains. The quality of treated drinking water is monitored by Metro Vancouver at frequencies ranging from daily to annually, depending on the parameter. Additional information on how Metro Vancouver treats source water is available at www.metrovancouver.org/services/water/quality-facilities/facilities-processes/treatment-process. Metro Vancouver also publishes an annual drinking water quality report on their website.

3.3 Distribution System Operation and Maintenance

The distribution system is managed by a team of professionals within the City's Engineering Services Division, under the leadership of the General Manager. System operators are *Environmental Operators Certification Program Level 4* compliant. The system is locally regulated by Maple Ridge's Water Service Bylaw 6002-2001, under the purview of the Provincial *Drinking Water Protection Act* and *Regulation*.

The City implements the multi-barrier approach as part of its operation & maintenance of the distribution system. Key activities include a water main flushing program, reservoir cleaning, a cross-connection program, continuous monitoring of system hydraulics and re-chlorination.

Water Main Flushing Program

High velocity water main flushing is conducted annually as a means of cleaning water mains. Flushing involves manipulating valves and discharging water through fire hydrants or blow off points. The discharged water carries sediment and other solids with it, thus cleaning the mains. The City cleaned 170km of water mains using this method in 2019. To minimize water use during summer lawn watering restrictions, cleaning mains by high-velocity flushing is carried out between October and April.

Reservoir Cleaning

The City cleans reservoir tanks/cells on a 5 year cycle. In 2019, the City cleaned reservoirs at two locations.

Cross-Connection Program

The City employs a Cross Connection Control Officer to educate the public and inspect commercial, industrial and institutional buildings to ensure compliance with codes, bylaws and enactments. This helps guard against unauthorized and incorrect plumbing work that could otherwise allow contaminated water (swimming pools, auto washers, etc.) to move from private properties into the municipal system.

Continuous Monitoring of System Hydraulics

A comprehensive electronic monitoring system provides continuous data to operators regarding the status of water system hydraulics. By using automated alarms and monitoring data, operators are able to control systems and deploy crews in response to any incidents of concern.

Re-chlorination

Chlorine levels are continually monitored at 7 pump-reservoir zones in the distribution system. Additional chlorine is injected into the drinking water at these locations if detected chlorine levels are low. The re-chlorination units are inspected daily and adjusted as necessary.

3.4 Distribution System Water Quality Monitoring

Monitoring the quality of drinking water in the City's distribution system is a cornerstone of the multi-barrier approach and is the focus of this report.

3.5 Responses to Potential Contamination

If health-related contaminants are detected in the water distribution system, City and Fraser Health Authority staff will be quickly notified. The City and Fraser Health will then work together to confirm the incident, determine the nature of the risk to public health, and issue public notices as appropriate. Depending on the level of risk a water quality advisory, boil water notice, or do-not-use water notice could be issued. Public notices would be communicated through various media. The City's contamination response plan is embedded in emergency planning documents which are available to water system users upon request.

4.0 Monitoring and Results for Biological Indicators

The Province sets out drinking water quality standards pertaining to biological criteria in its *Drinking Water Protection Regulation*. This section reports on the quality of the City's drinking water in relation to those standards.

4.1 Water Quality Sampling and Monitoring

Water quality is monitored for compliance with Provincial standards on a weekly basis at the City's 20 sampling locations. Sampling locations and codes are shown graphically in Appendix A. Samples are sent to a Metro Vancouver laboratory for analysis, and results are communicated back to City and Fraser Health staff. Responses to undesirable test results can range from flushing water mains to possibly issuing a boil water advisory, depending on the water quality parameter of concern. If significant contamination were detected in a sample, further samples would be taken to confirm the result before a large scale response is initiated.

The monitoring program indicates drinking water quality within municipal water mains. However, it does not provide information on the quality of drinking water within buildings where water quality can change due to pipe material, standing time, temperature, and other factors. It may be assumed that samples taken within buildings will have a different quality of water compared to samples taken directly from municipal water mains. The City does not have jurisdiction over drinking water quality on private property.

4.2 Biological Monitoring Test Results

The *BC Drinking Water Protection Regulation* requires the City to carry out routine sampling and testing for *Escherichia coli* (*E. coli*) and total coliform bacteria. These are considered "indicator organisms" because their presence or absence provides an indication of overall water quality as related to biological contaminants. Figures 4 and 5 show Metro Vancouver Laboratory technicians processing a water sample and testing it for the presence of bacteria.

4.2.1 Escherichia Coli

Escherichia coli (*E. coli*) is a type of coliform bacteria present exclusively in the feces of humans and other mammals. The existence of *E. coli* in a water sample indicates recent fecal contamination and the possible presence of intestinal disease-causing bacteria, viruses, or protozoa. The *BC Drinking Water Protection Regulation* standard for *E. coli* is none detectable per 100 mL. In 2019, no samples tested positive for *E. coli*.



Figure 4: Metro Vancouver Laboratory technician processing water sample in preparation for coliform bacteria check



Figure 5: Metro Vancouver Laboratory technician checking water sample for coliform bacteria

4.2.2 Total Coliform

Total coliform are group of bacteria that occur naturally in the environment and are found in feces, soil and vegetation. Most coliform bacteria will not cause illness and their presence in drinking water does not necessarily represent an immediate health concern. The *BC Drinking Water Protection Regulation* standards for total coliform are described in Table 1.

Table 1: BC Drinking Water Protection Regulation Standards for Total Coliform

Occurrence	Standard
More than 1 sample in a 30 day period	At least 90% of samples have 0 total coliform per 100mL and no sample has more than 10 total coliform per 100mL

In 2019, two samples had detectable total coliform per 100mL. However, for each 30 day period, over 90% of samples had 0 total coliform per 100mL. Also, no sample had more than 10 total coliform per 100mL. Thus City water met *BC Drinking Water Protection Regulation* requirements for total coliform bacteria in 2019.

If sample test results indicate the presence of total coliforms, City crews are dispatched to flush water mains in the area. After flushing is completed, additional water quality samples are sent to the Metro Vancouver Laboratory for analysis to re-check for the presence of total coliforms.

Table 2 lists the number of samples found to contain total coliform bacteria each year between 2010 and 2019.

Table 2: Total Coliform Results by Year

Year	Number of Samples with Total Coliform
2019	2
2018	2
2017	2
2016	0
2015	3
2014	0
2013	0
2012	2
2011	1
2010	3

4.2.3 Frequency of Monitoring Samples

The monitoring frequency for the detection of *E. coli* and total coliforms is stipulated by the *BC Drinking Water Protection Regulation*. Current requirements are identified in Table 3. With a total of 20 weekly sampling sites at various points in the City's water distribution system, the number of monthly samples (87) exceeds the stipulated value of 86 (based on a directly serviced population of very approximately 86,000). As the City's population grows, additional sampling sites will be added.¹

Table 3: Monitoring Frequency for the detection of *E. coli* and total coliforms

Population Served	Target No. of Samples per Month
Less than 5,000	4
5,000 to 90,000	1 per 1,000 of population
More than 90,000	90 plus 1 per 10,000 of population in excess of 90,000

¹ The City added a new monitoring location in early 2020

5.0 Monitoring and Results for Physiochemical Criteria

This section reports on physiochemical water quality parameters not specifically mentioned in the *Drinking Water Protection Regulation*. In monitoring physiochemical parameters, the City follows the *Water Quality Monitoring and Reporting Plan for Metro Vancouver (GVWD) and Local Government Members* and compares laboratory results to Health Canada's recommendations for drinking water quality. Sampling frequencies for the various parameters are set out in within the Monitoring and Reporting plan.

5.1 Chlorine

Chlorine is a chemical element found in salt and household bleach. When present in water in the form of a dissolved gas, hypochlorous acid or hypochlorite ion, chlorine acts as a powerful disinfecting agent. Following water treatment, a residual amount of chlorine is maintained throughout the distribution system. Health Canada reports that "maintenance of an adequate free chlorine² residual will minimize bacterial regrowth in the distribution system and provide a measurable level of chlorine; therefore, a rapid drop in free chlorine concentrations suggesting unexpected changes in water quality can be more quickly detected. Specific requirements for chlorine residual concentrations are set by the regulatory authority and may vary among jurisdictions. A suggested operational range for free chlorine residual is between a detectable level and 5 mg/L."³

The City targets a chlorine residual exceeding 0.2 mg/L within the main distribution network and strives to maintain a detectable chlorine residual in areas with lower water demands. Table 4 and the maps in Appendix B show that:

- In 2019, the average free chlorine residual at all stations in Maple Ridge was greater than 0.2 mg/L.
- Station 449 had the fewest number of samples with chlorine residuals greater than 0.2 mg/L.
- 15 stations had samples with chlorine levels less than 0.2 mg/L.

Detailed free chlorine residual data is charted in Appendix E and tabulated in Appendix F.

5.2 Turbidity

Turbidity, measured in Nephelometric Turbidity Units (NTU), is a measure of water clarity. There are no provincial guidelines for turbidity within a distribution system. Average turbidity values at sample stations are documented in Table 4. Detailed turbidity data for 2019 is charted in Appendix E and tabulated in Appendix F.

Turbidity levels within the distribution system vary over time. Higher levels may be associated with turbidity in the 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 City will determine whether this is expected due to system operations such as the water main flushing program. If the event is unexpected, the City will confirm the turbidity level and flush mains should high turbidity persist.

² Health Canada defines *Free Chlorine* as the amount of chlorine present in water as dissolved gas (Cl₂), hypochlorous acid (HOCl), and/or hypochlorite ion (OCl⁻) that is not combined with ammonia or other compounds in water

³ Guidelines for Canadian Drinking Water Quality Guideline Technical Document – Chlorine (Health Canada, 2009)

Elevated levels of turbidity were reported on two occasions in 2019. On January 3, sample station MPR-431 had a NTU of 30. A follow-up sample obtained in response to the high value indicated a NTU of 0.88. All subsequent samples taken in 2019 demonstrated NTU values below 1. On March 26, MPR-446 had a turbidity level of 28 NTU. The spike in turbidity was associated with the testing and commissioning of a new pump station. Upon notification of the high turbidity, crews were dispatched to flush water mains in the area until lower levels of turbidity were achieved.

Table 4: 2019 Chlorine Residual and Turbidity Results by Site

Station	Total Samples Taken	Average Free Chlorine in mg/L	Average Turbidity in NTU	Samples Taken with Free Chlorine Greater Than or Equal to 0.2 mg/L (#)	Samples Taken with Free Chlorine Less Than 0.2 mg/L (#)	Samples Taken with Free Chlorine Greater Than or Equal to 0.2 mg/L (%)	Samples Taken with Free Chlorine Less Than 0.2 mg/L (%)
MPR-400	53	0.47	0.28	50	3	94%	6%
MPR-431	53	0.85	0.94	52	1	98%	2%
MPR-432	53	0.74	0.37	52	1	98%	2%
MPR-433	53	0.61	0.33	51	2	96%	4%
MPR-434	53	0.59	0.38	52	1	98%	2%
MPR-435	54	0.62	0.48	54	0	100%	0%
MPR-436	53	0.84	0.33	52	1	98%	2%
MPR-437	53	0.91	0.33	53	0	100%	0%
MPR-438	53	0.81	0.33	53	0	100%	0%
MPR-439	53	0.88	0.36	52	1	98%	2%
MPR-440	53	0.77	0.38	53	0	100%	0%
MPR-441	53	0.67	0.40	51	2	96%	4%
MPR-442	53	0.59	0.42	52	1	98%	2%
MPR-443	53	0.52	0.42	51	2	96%	4%
MPR-444*	51	0.62	0.37	48	3	94%	6%
MPR-445	53	0.69	0.38	49	4	92%	8%
MPR-446	53	0.72	0.95	53	0	100%	0%
MPR-447	53	0.49	0.36	47	6	89%	11%
MPR-448	53	0.50	0.32	49	4	92%	8%
MPR-449	54	0.23	0.33	31	23	57%	43%

*Station MPR-444 was not sampled on April 23th and 30th due to the Foreman Drive PRV construction project.

5.3 Heterotrophs

Heterotrophs are microorganisms requiring organic carbon for growth. Health Canada does not suggest a maximum acceptable concentration for heterotrophs. Instead, it recommends that increases in heterotrophic plate count (HPC) concentrations above baseline levels be considered undesirable. Table 5 shows the annual number of samples with HPC's over 500 CFU/mL between 2010 and 2019. In

response to HPC counts at or above 500 CFU/mL, the City will re-test and flush water mains. HPC data for each sample taken in 2019 is provided in Appendix F.

Table 5: HPC Results by Year

Year	Number of Samples with HPC > 500 CFU/mL
2019	12
2018	9
2017	6
2016	0
2015	5
2014	0
2013	0
2012	0
2011	1
2010	1

5.4 Disinfection Byproducts

Disinfection byproducts such as trihalomethanes (THMs) and haloacetic acids (HAAs) 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 and HAAs.

Health Canada recommends that the running average (last 4 quarters) for Total THMs remain below 100 parts per billion (ppb). Quarterly samples were taken at four sites for THM analysis. The running quarterly average THM concentration in the samples remained below 100 ppb at all locations.

Health Canada recommends that the running average (last 4 quarters) total HAA concentration be below 80 ppb. Quarterly samples were taken at four sites for HAA analysis. The running quarterly average HAA concentration remained below 80 ppb at all locations.

Finally, Health Canada recommends a maximum concentration for bromodichloromethane (a type of THM) of 16 ppb. Quarterly samples from four sampling locations all had concentrations of bromodichloromethane lower than 16 ppb.

Detailed disinfection byproduct test results are provided in Appendix C.

5.5 pH

pH is a measure of the acid-base equilibrium of water. pH is of concern in water distribution systems because at low values water becomes corrosive and at high values chlorine disinfection is less efficient. Health Canada indicates that an acceptable pH range for drinking water is 6.5 – 8.5 pH units. 8 distribution system samples were tested for pH. Test results ranged of 7.2 to 7.5 pH units (see Appendix C).

5.6 Metals

The City tested samples at 3 monitoring sites for concentrations of various metals. Test results are shown in Appendix D, along with maximum concentration limits suggested by Health Canada. As shown

in Appendix D, all measured metal concentrations were below the limits recommended by Health Canada.

5.7 Temperature

Health Canada recommends a temperature of less than 15°C for drinking water. Water temperatures exceeding this objective can result in the growth of nuisance organisms that could lead to unpleasant tastes and odors. Figure 5 shows average monthly drinking water temperatures in Maple Ridge. In July, August and September the average monthly temperatures were 15, 17 and 16.5 °C, exceeding Health Canada's recommendation. Detailed temperature information is provided in Appendix F.

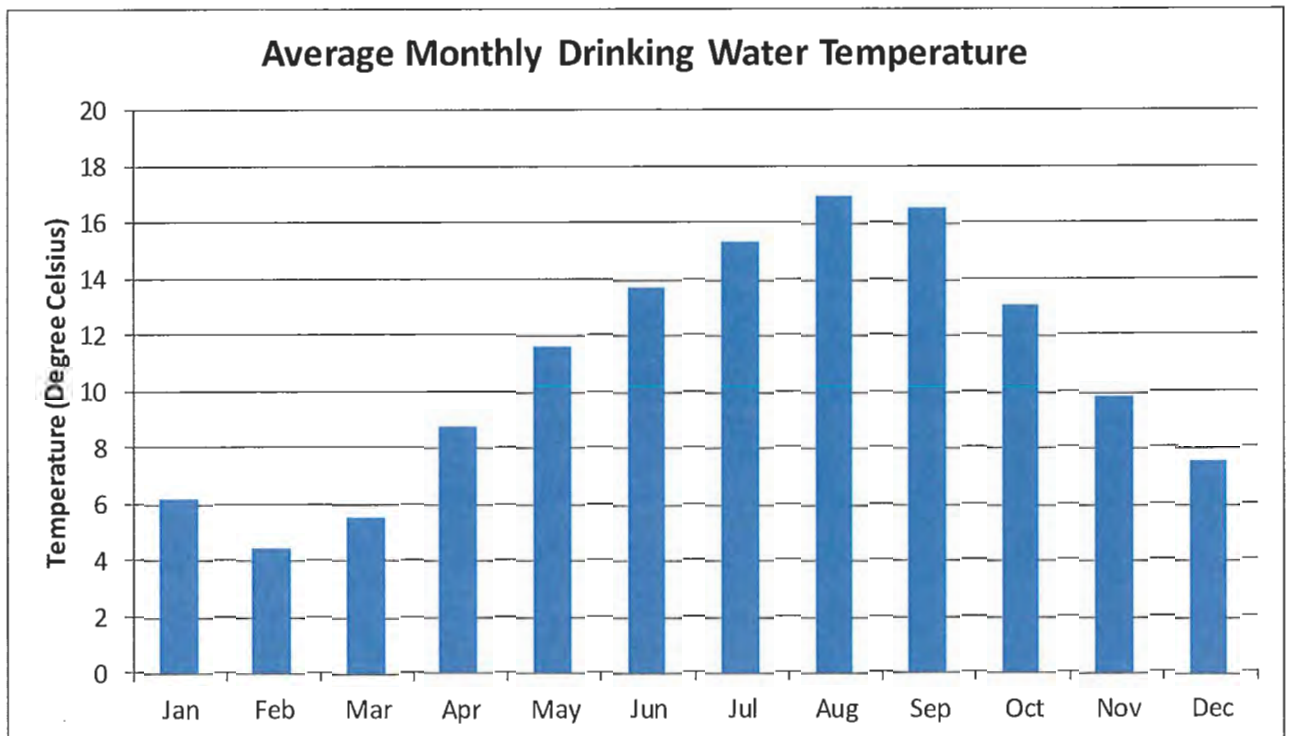


Figure 5: Average Monthly Drinking Water Temperature Chart

5.8 Vinyl Chloride

The concentration of vinyl chloride was tested in 6 samples during 2019. As indicated in Appendix D, all results were non-detectable (less than 0.0004 mg/L), less than the Health Canada Guideline of 2 µg/L.

6.0 Public Health Message from the Medical Health Officer

Fraser Health's Medical Health Officer has requested that a fact sheet entitled "*Preventing Water-Borne Infections for People with weakened Immune Systems*" be included in this report. The fact sheet is presented in Appendix G. Additionally, the Medical Health Officer has requested the following message be included in this report:

Anytime the water in a particular faucet has not been used for six hours or longer, "flush" your cold-water pipes by running the water until you notice a change in temperature. (This could take as little as five to thirty seconds if there has been recent heavy water use such as showering or toilet flushing. Otherwise, it could take two minutes or longer.) The more time water has been sitting in your home's pipes, the more lead it may contain.

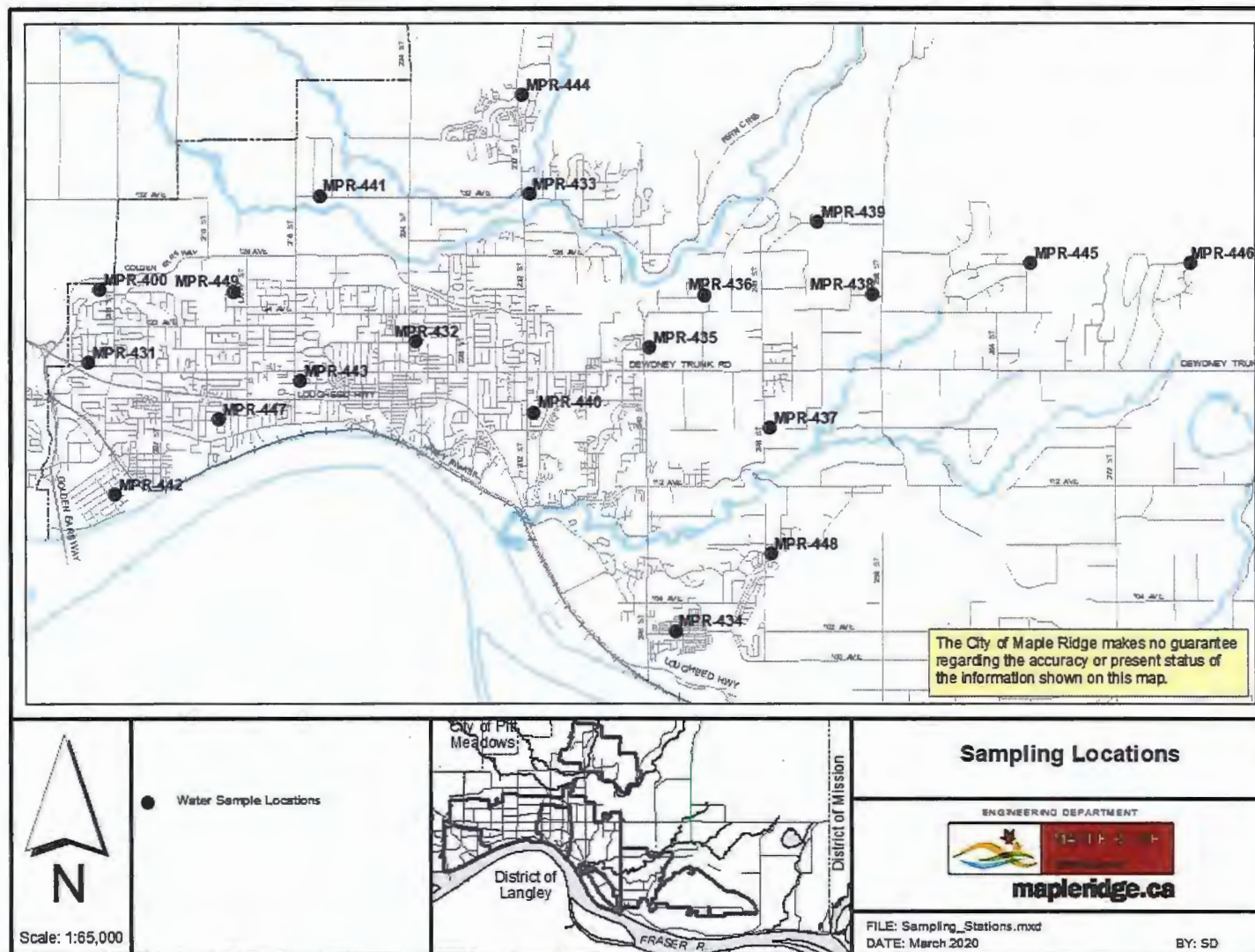
Use only water from the cold-tap for drinking, cooking, and especially making baby formula. Hot water is likely to contain higher levels of lead.

The two actions recommended above are very important to the health of your family. They will probably be effective in reducing lead levels because most of the lead in household water usually comes from the plumbing in your house, not the local water supply.

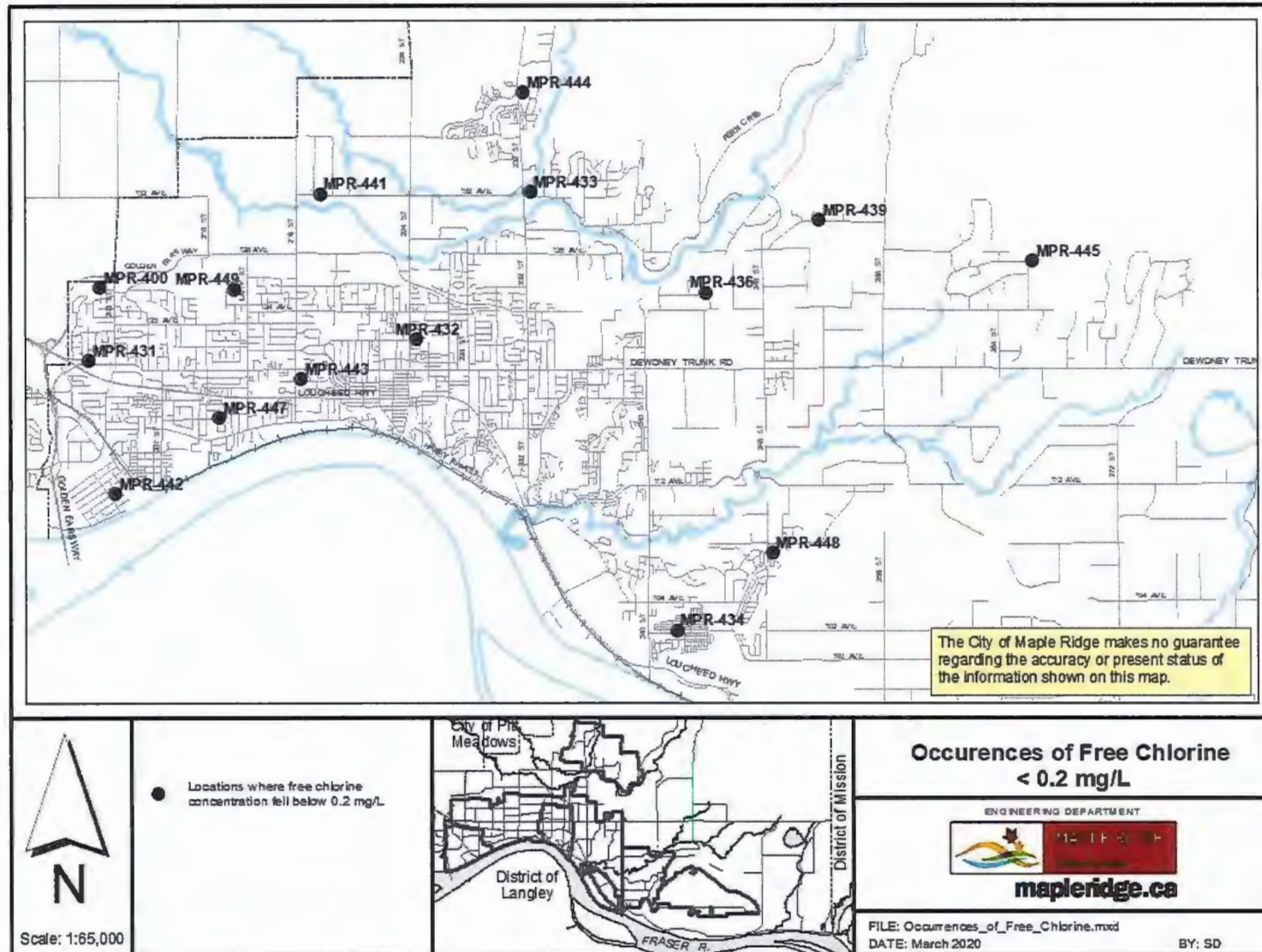
7.0 Conclusion

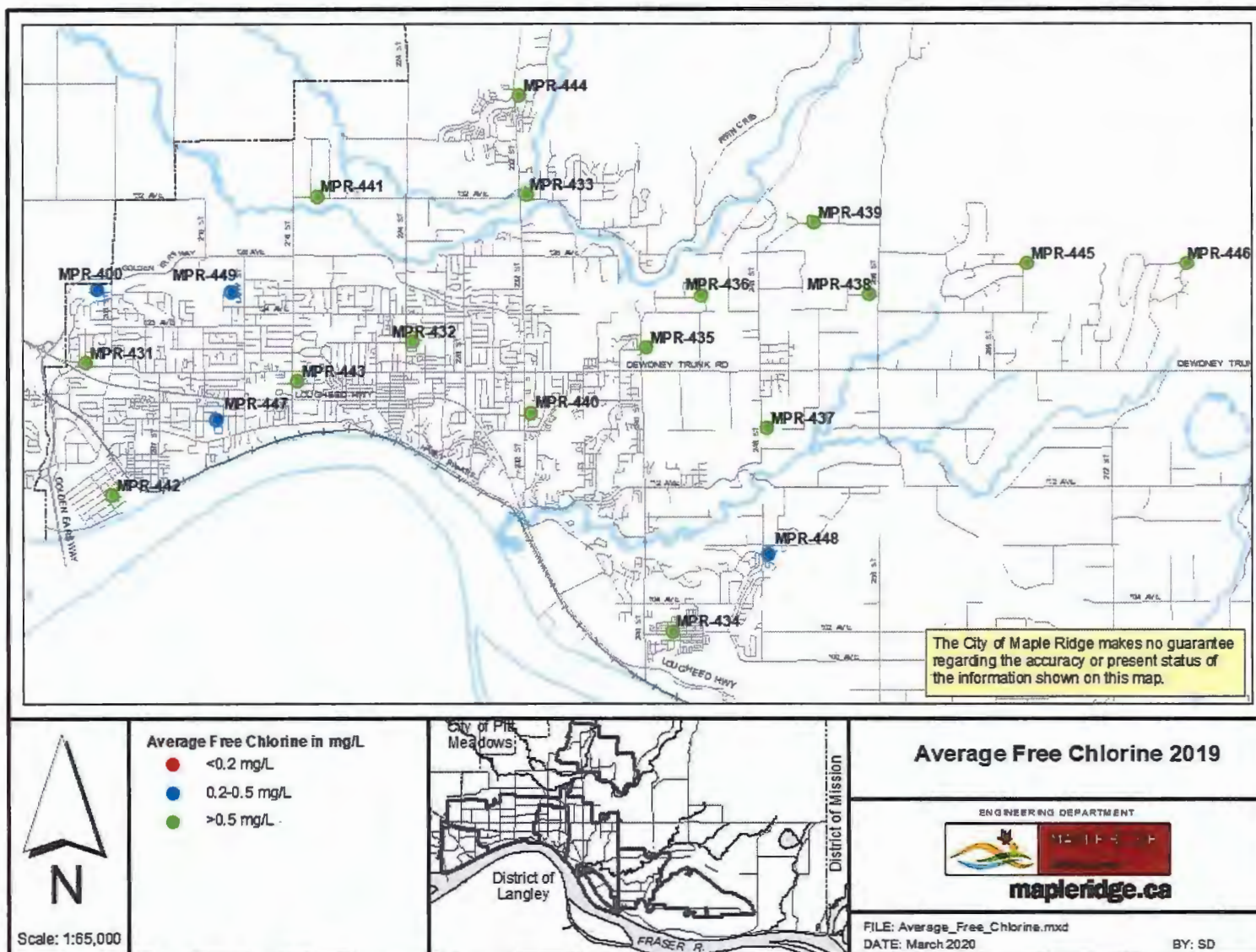
The City monitored drinking water quality in 2019 in accordance with Provincial regulations and the *Water Quality Monitoring and Reporting Plan for Metro Vancouver (GVWD) and Local Government Members*. Over 1,000 drinking water samples were obtained from the municipal water distribution system at 20 locations throughout the City. Metro Vancouver Laboratory testing indicated that all samples met *BC Drinking Water Protection Regulation* standards and did not exceed Health Canada guidelines with the exception of temperature.

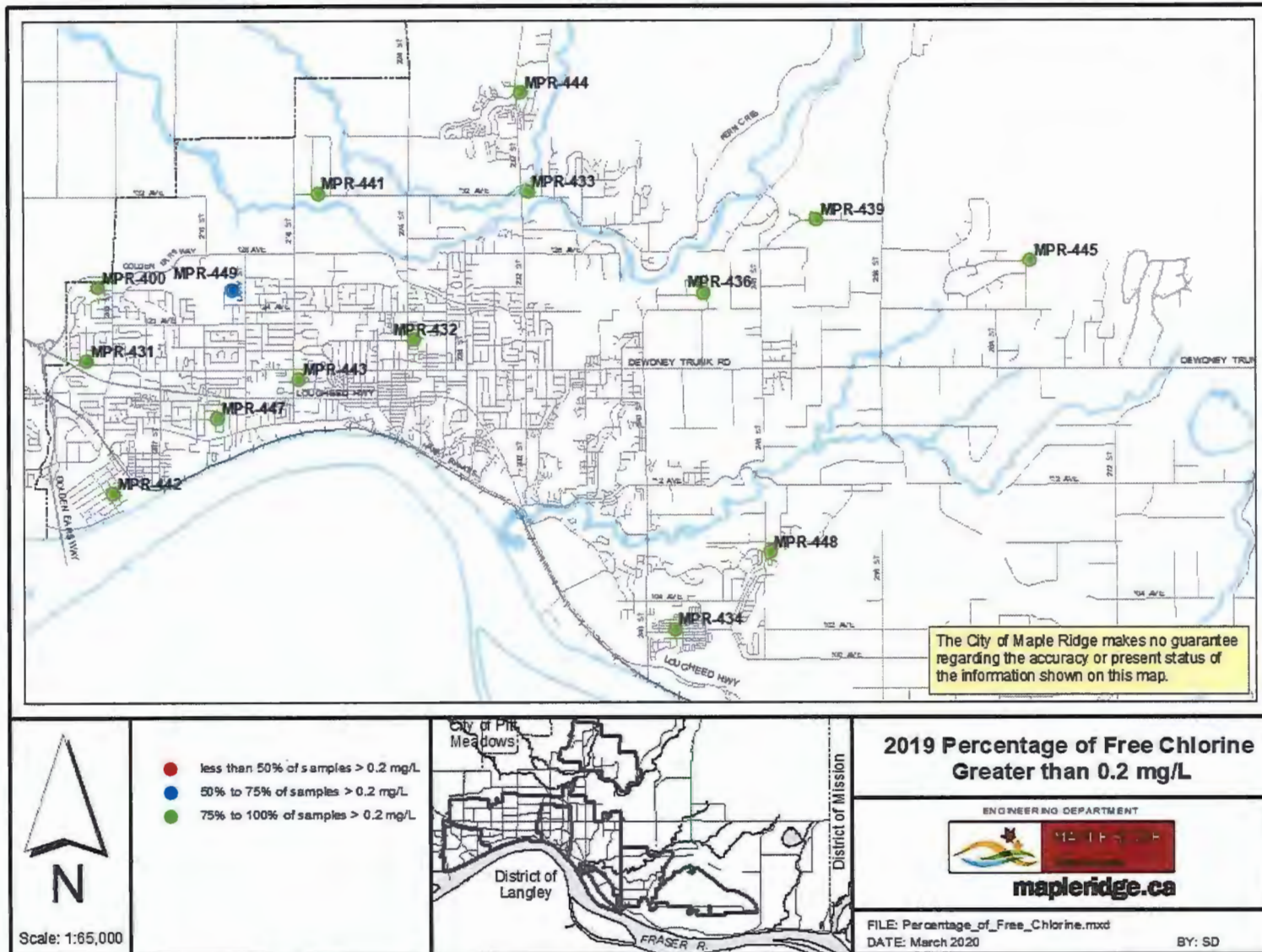
Appendix A: Sampling Station Locations



Appendix B: Residual Free Chlorine Figures







Appendix C: Disinfection By-Products and pH

City of Maple Ridge
Drinking Water Quality Report 2019

Sample Site	Sample Location	Date Sampled	THM (ppb)						HAA (ppb)							PH Units	
			Bromodichloromethane	Bromoform	Chlorodibromomethane	Chloroform	Total Trihalomethanes	Running Average (Last 4 Quarters)	Dibromoacetic Acid	Dichloroacetic Acid	Monobromoacetic Acid	Monochloroacetic Acid	Trichloroacetic Acid	Total Haloacetic Acid	Running Average (Last 4 Quarters)		
Maximum Acceptable Concentration (Health Canada Guidelines for Canadian Drinking Water Quality)			16					100								80	6.5-8.5
MPR-433	101 Ave. East of 241A St.	29-May-18	<1	<1	<1	33	34		0.7	24	<1	2	34.3	62			
MPR-434	102 Ave. East of 241A St.	7-Aug-18	<1	<1	<1	25	26		<0.5	14	<1	<2	15.6	33			
MPR-434	102 Ave. East of 241A St.	20-Nov-18	<1	<1	<1	37	37		<0.5	27	<1	2	41.8	73			
MPR-434	102 Ave. East of 241A St.	20-Feb-19	<1	<1	<1	26	27	31	<0.5	11	<1	<2	10.8	24	48		
MPR-434	102 Ave. East of 241A St.	14-May-19	<1	<1	<1	32	34	31	<0.5	23	<1	2	33.6	59	47		
MPR-434	102 Ave. East of 241A St.	20-Aug-19	1	<1	<1	29	32	33	<0.5	19	<1	<2	28.2	48	51		
MPR-434	102 Ave. East of 241A St.	3-Dec-19	<1	<1	<1	42	43	34	<0.5	12	<1	3	17.8	34	41		
MPR-435	240 St. South of Abernethy Way	29-May-18	<1	<1	<1	27	29		0.8	20	<1	2	26.3	49			
MPR-435	240 St. South of Abernethy Way	7-Aug-18	1	<1	<1	35	37		<0.5	24	<1	3	30.6	59			
MPR-435	240 St. South of Abernethy Way	20-Nov-18	<1	<1	<1	48	49		<0.5	20	<1	<2	40.6	64			
MPR-435	240 St. South of Abernethy Way	20-Feb-19	<1	<1	<1	29	30	36	<0.5	12	<1	<2	13.5	28	50	7.2	
MPR-435	240 St. South of Abernethy Way	14-May-19	<1	<1	<1	33	35	38	<0.5	22	<1	2	29.1	54	51	7.4	
MPR-435	240 St. South of Abernethy Way	20-Aug-19	2	<1	<1	36	39	38	<0.5	24	<1	<2	38.2	62	52	7.3	
MPR-435	240 St. South of Abernethy Way	3-Dec-19	<1	<1	<1	40	42	37	<0.5	10	<1	4	17	32	44	7.2	
MPR-438	125 Ave. West off 256 St.	29-May-18	<1	<1	<1	40	41		0.7	27	<1	3	40.2	71			
MPR-438	125 Ave. West off 256 St.	7-Aug-18	1	<1	<1	41	42		<0.5	22	<1	<2	28.3	53			
MPR-438	125 Ave. West off 256 St.	20-Nov-18	<1	<1	<1	58	59		<0.5	37	<1	4	58.1	100			
MPR-438	125 Ave. West off 256 St.	20-Feb-19	<1	<1	<1	40	40	46	<0.5	18	<1	<2	29.2	50	68	7.4	
MPR-438	125 Ave. West off 256 St.	14-May-19	1	<1	<1	41	43	46	<0.5	26	<1	2	39.1	68	68	7.4	
MPR-438	125 Ave. West off 256 St.	20-Aug-19	2	<1	<1	42	45	47	<0.5	27	<1	<2	39.8	68	71	7.5	
MPR-438	125 Ave. West off 256 St.	3-Dec-19	<1	<1	<1	54	55	46	<0.5	21	<1	4	35.2	60	62	7.3	
MPR-440	232 St. @ 117 Ave.	29-May-18	<1	<1	<1	26	27		0.9	18	<1	<2	22.5	44			
MPR-440	232 St. @ 117 Ave.	7-Aug-18	<1	<1	<1	28	29		0.5	17	<1	<2	14.9	34			
MPR-440	232 St. @ 117 Ave.	20-Nov-18	<1	<1	<1	39	40		<0.5	23	<1	2	26.3	52			
MPR-440	232 St. @ 117 Ave.	20-Feb-19	<1	<1	<1	32	33	32	<0.5	15	<1	<2	22.2	41	42		
MPR-440	232 St. @ 117 Ave.	14-May-19	<1	<1	<1	30	30	33	<0.5	19	<1	<2	21.4	43	42		
MPR-440	232 St. @ 117 Ave.	20-Aug-19	1	<1	<1	27	30	33	<0.5	17	<1	<2	19.4	36	43		
MPR-440	232 St. @ 117 Ave.	3-Dec-19	<1	<1	<1	32	34	32	<0.5	12	<1	4	12.3	29	37		

Appendix D: Metals and Vinyl Chloride

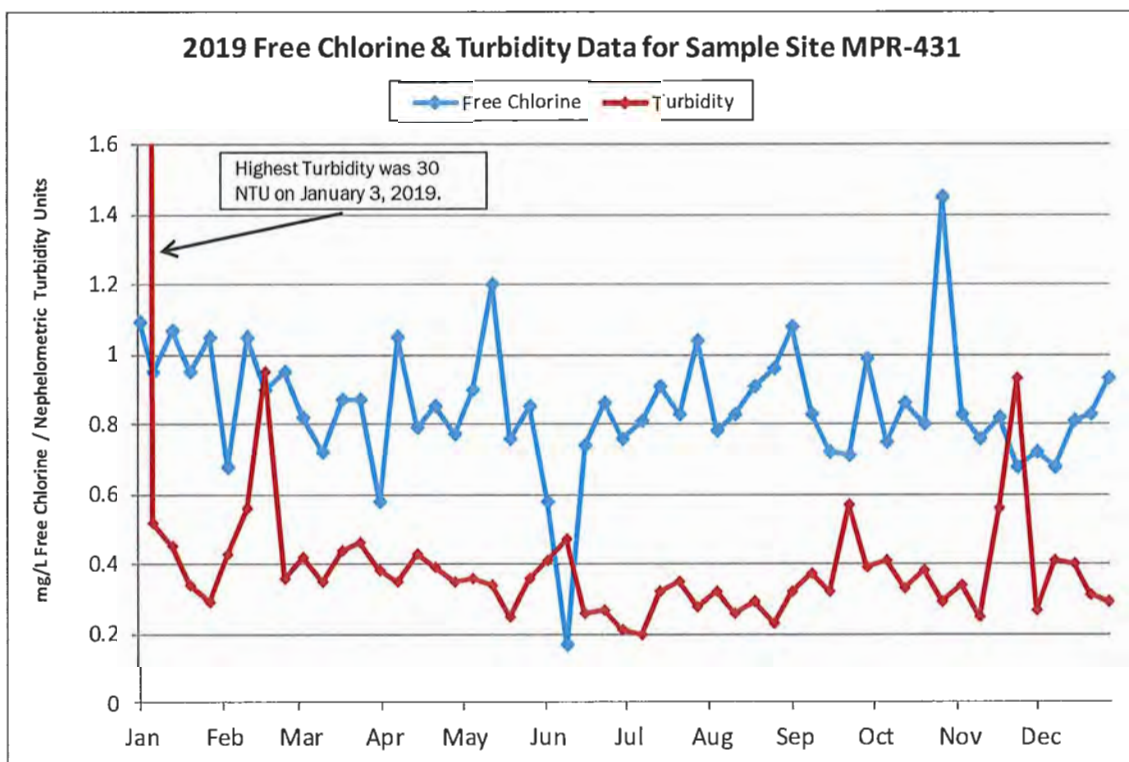
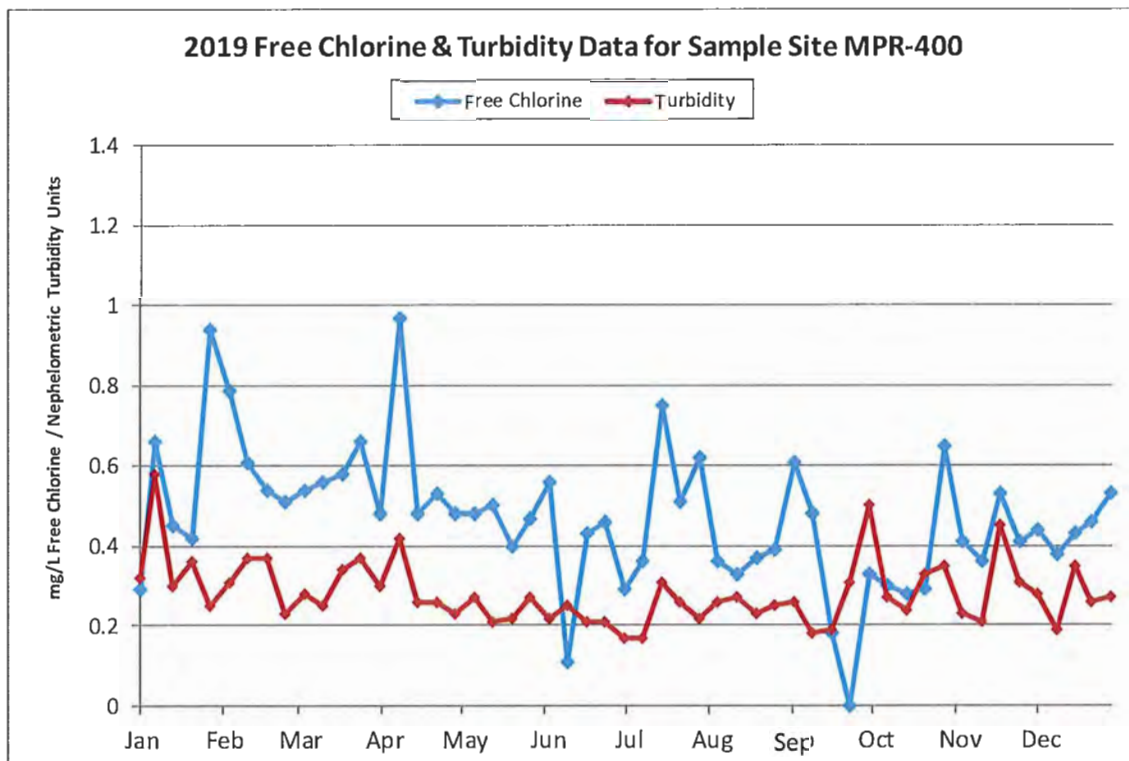
Metal Concentration

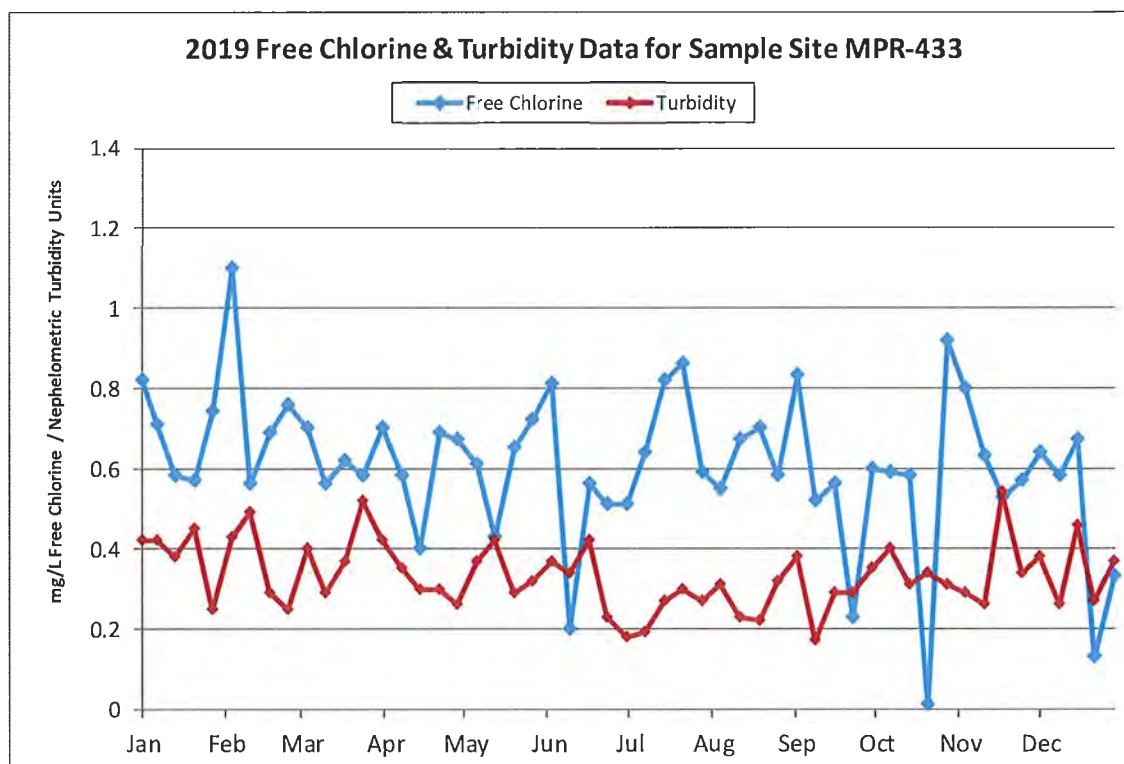
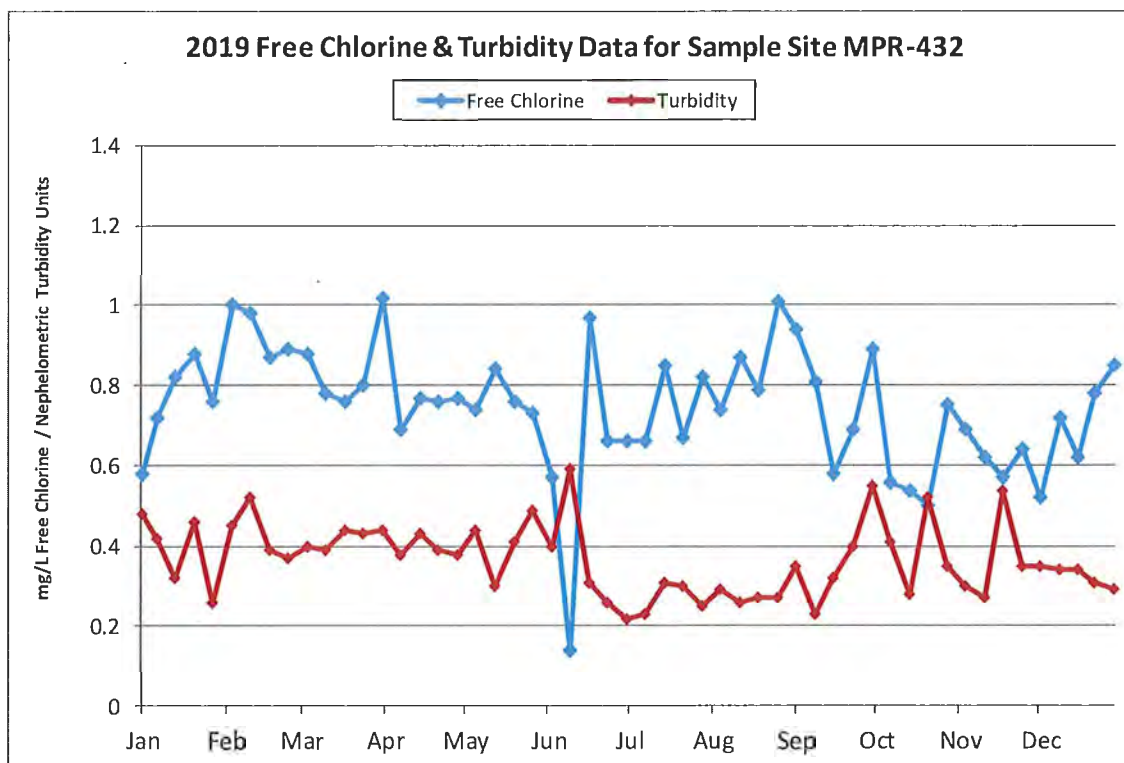
Sample Name	Sample Location	Sampled Date	Aluminium Total (µg/L)	Antimony Total (µg/L)	Arsenic Total (µg/L)	Barium Total (µg/L)	Boron Total (µg/L)	Cadmium Total (µg/L)	Calcium Total (µg/L)	Chromium Total (µg/L)	Cobalt Total (µg/L)	Copper Total (µg/L)	Iron Total (µg/L)	Lead Total (µg/L)	Magnesium Total (µg/L)	Manganese Total (µg/L)	Mercury Total (µg/L)	Molybdenum Total (µg/L)	Nickel Total (µg/L)	Potassium Total (µg/L)	Selenium Total (µg/L)	Silver Total (µg/L)	Sodium Total (µg/L)	Zinc Total (µg/L)
Maximum Acceptable Concentration (Guidelines for Canadian Drinking Water Quality)			200	6	10	1000	5000	5	none	50	none	2000	300	5	none	120	1	none	none	none	50	none	200,000	5000
Reason Guideline Established - Health (H) or Aesthetic (A)			A	H	H	H	H	H		H		H	A	H		H	H				H		A	A
MPR-431	Dewdney Trunk Rd. @ 2018 St.	30-Apr-19	92	<0.5	<0.5	2.6	<10	<0.2	968	0.06	<0.5	10.6	66	<0.5	92	3.5	<0.05	<0.5	<0.5	106	<0.5	<0.5	5470	<3.0
MPR-435	240 St. South of Abernethy Way-Field Duplicate	30-Apr-19	92	<0.5	<0.5	2.4	<10	<0.2	972	0.06	<0.5	13.6	74	<0.5	94	2.9	<0.05	<0.5	<0.5	112	<0.5	<0.5	5540	<3.0
MPR-446	128th Ave and Willow Place	30-Apr-19	155	<0.5	<0.5	3.7	<10	<0.2	1440	0.22	<0.5	5.5	164	<0.5	109	17.5	<0.05	<0.5	<0.5	132	<0.5	<0.5	7370	6.7
MPR-431	Dewdney Trunk Rd. @ 2018 St.	10-Dec-19	82	<0.5	<0.5	2.5	<10	<0.2	1000	<0.05	<0.5	8.6	41	<0.5	96	1.6	<0.05	<0.5	<0.5	115	<0.5	<0.5	5310	<3.0
MPR-435	240 St. South of Abernethy Way	10-Dec-19	81	<0.5	<0.5	2.8	<10	<0.2	1070	0.05	<0.5	16.4	45	<0.5	102	1.1	<0.05	<0.5	<0.5	116	<0.5	<0.5	5370	<3.0
MPR-446	128th Ave and Willow Place	10-Dec-19	93	<0.5	<0.5	3.2	<10	<0.2	1620	0.08	<0.5	3.8	76	<0.5	102	3.2	<0.05	<0.5	<0.5	132	<0.5	<0.5	7200	<3.0

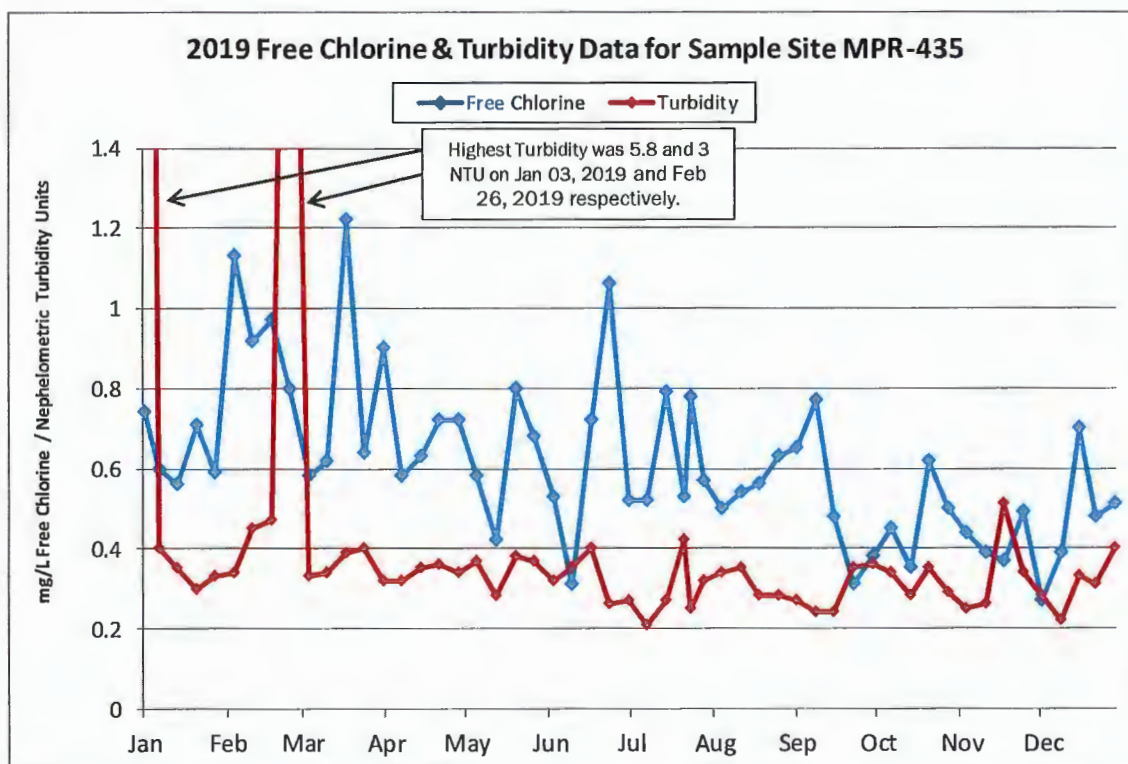
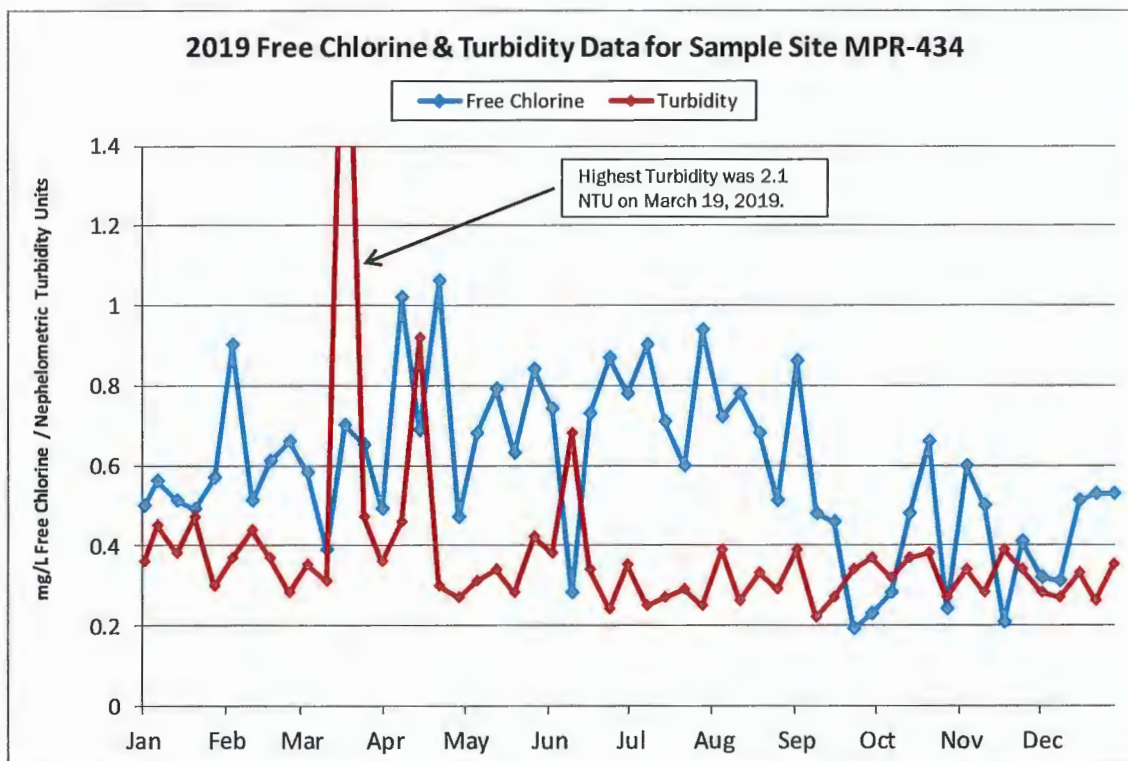
Vinyl Chloride Concentration

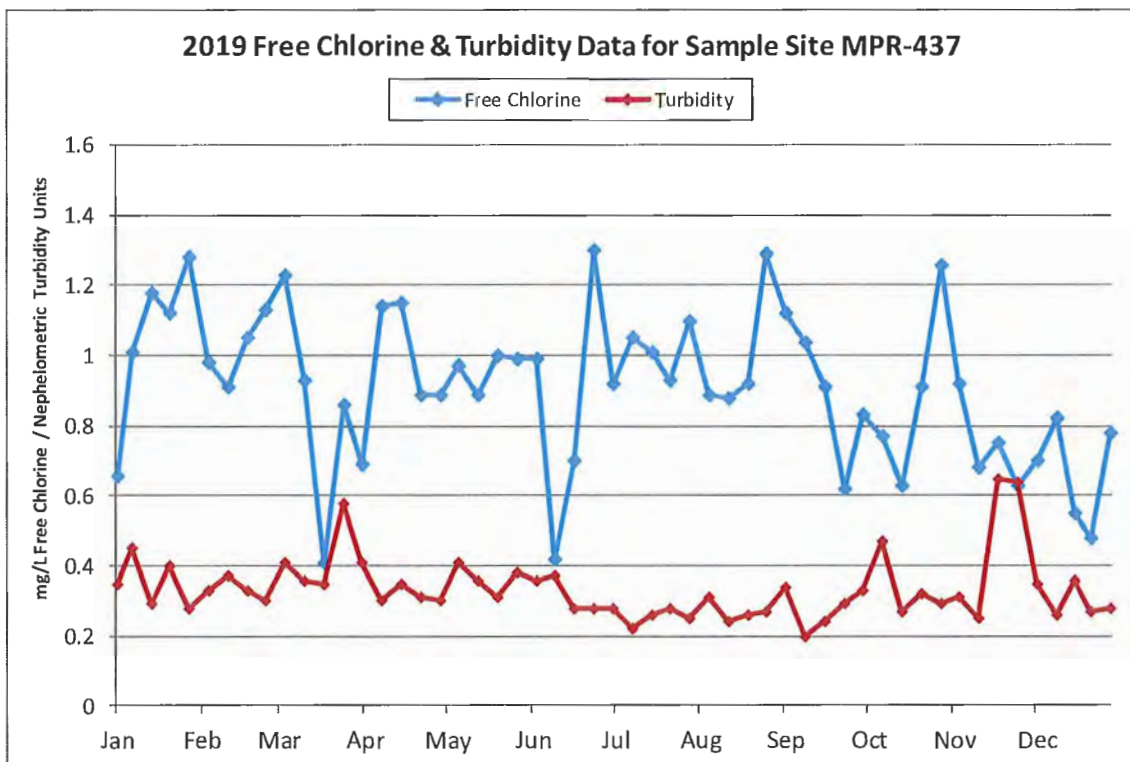
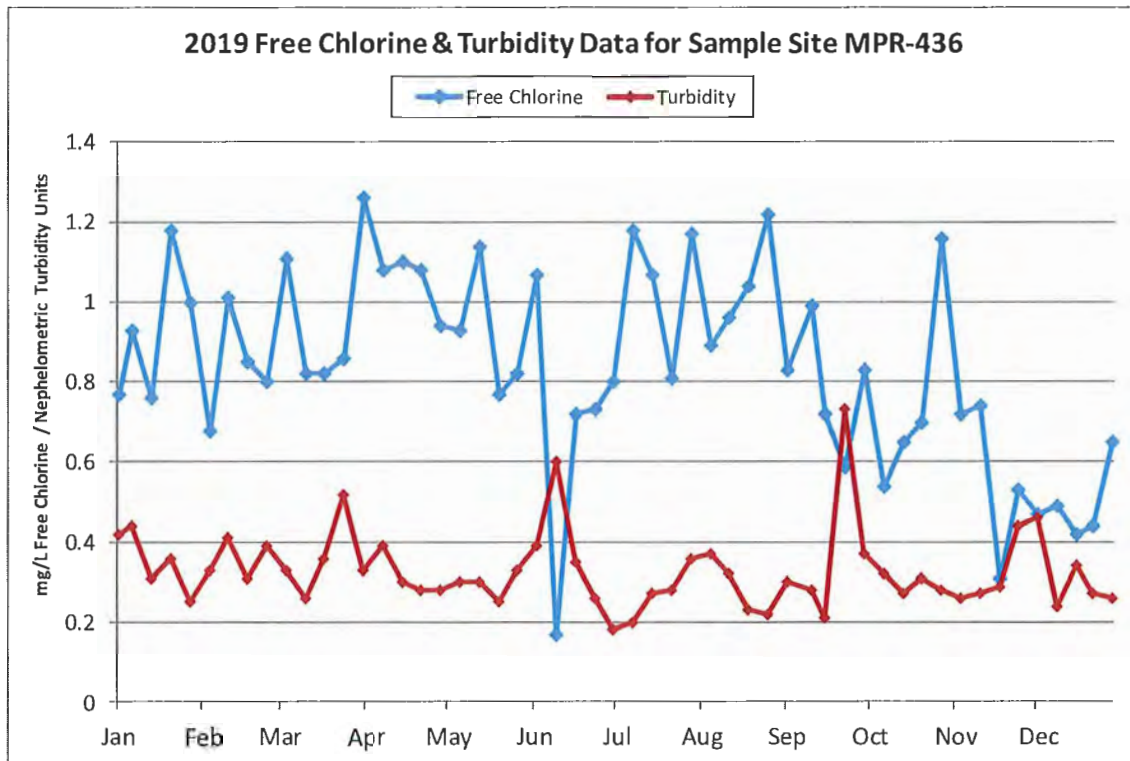
Sample Site Number	Sample Reported Name	Sampled date	Vinyl Chloride (mg/L)
MPR-431	Dewdney Trunk Rd. @ 201B St.	11-Jun-19	<0.00040
MPR-431	Dewdney Trunk Rd. @ 201B St.	19-Nov-19	<0.00040
MPR-435	240 St. South of Abernethy Way	11-Jun-19	<0.00040
MPR-435	240 St. South of Abernethy Way	19-Nov-19	<0.00040
MPR-446	128th Ave and Willow Place	11-Jun-19	<0.00040
MPR-446	128th Ave and Willow Place	19-Nov-19	<0.00040

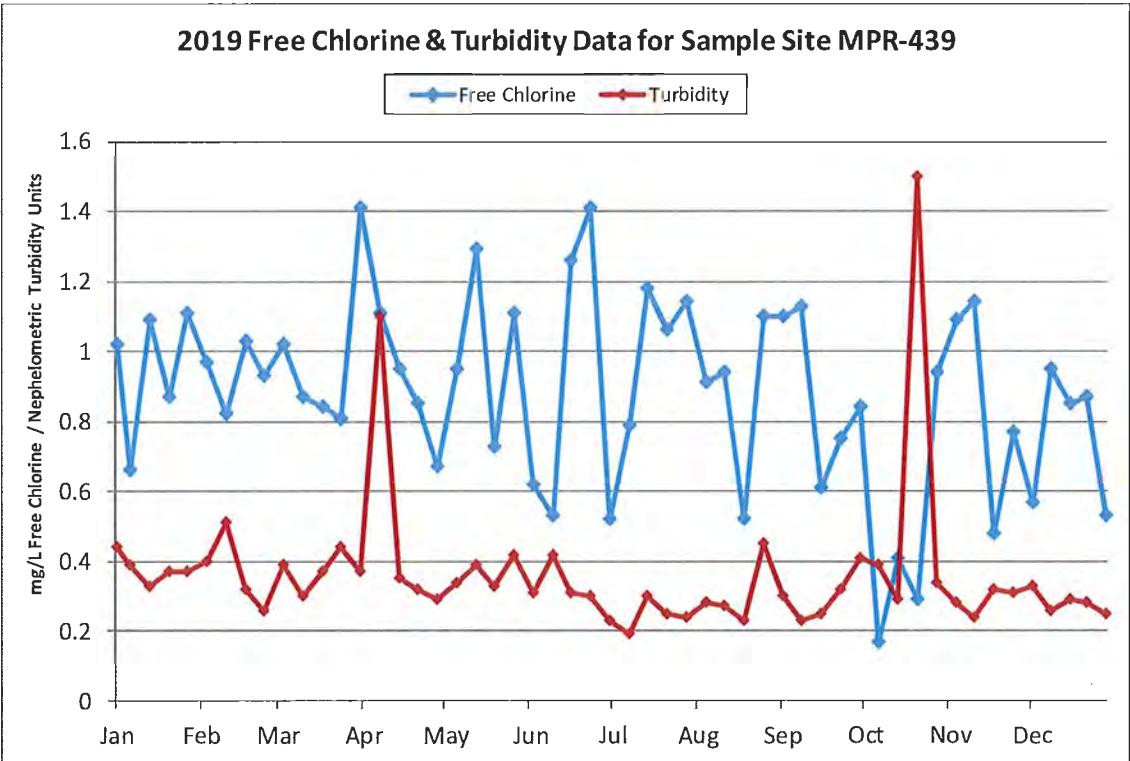
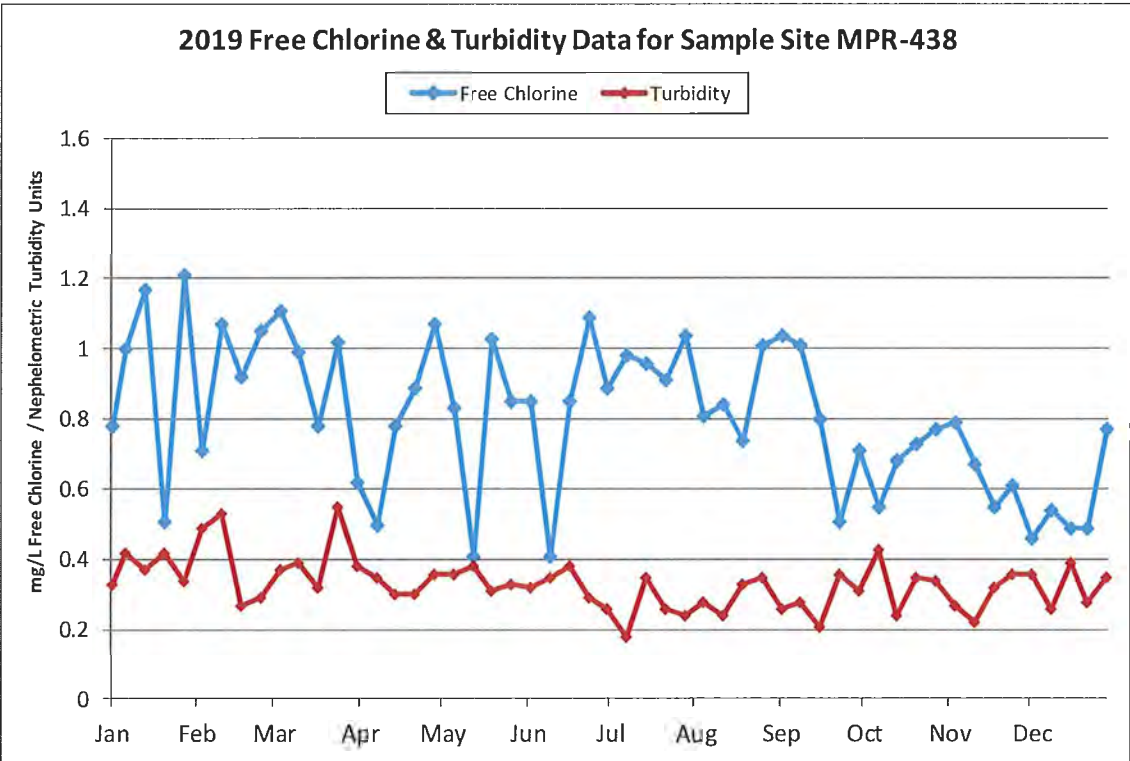
Appendix E: Free Chlorine and Turbidity Charts

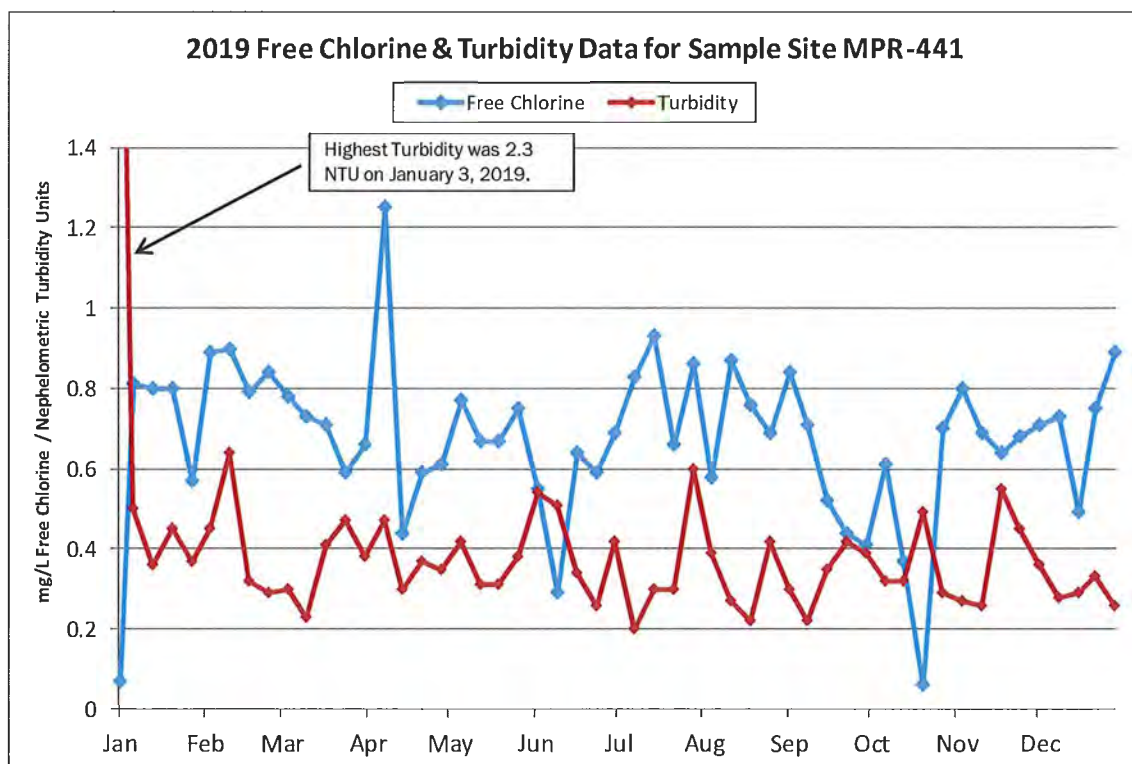
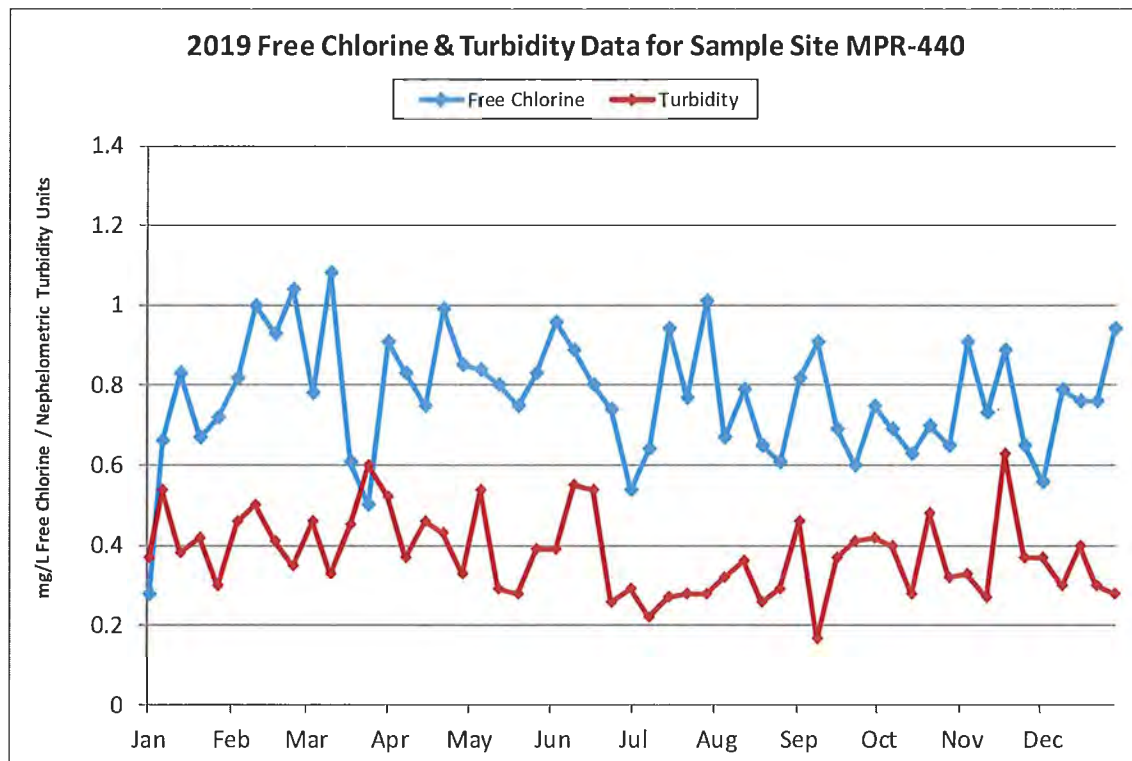


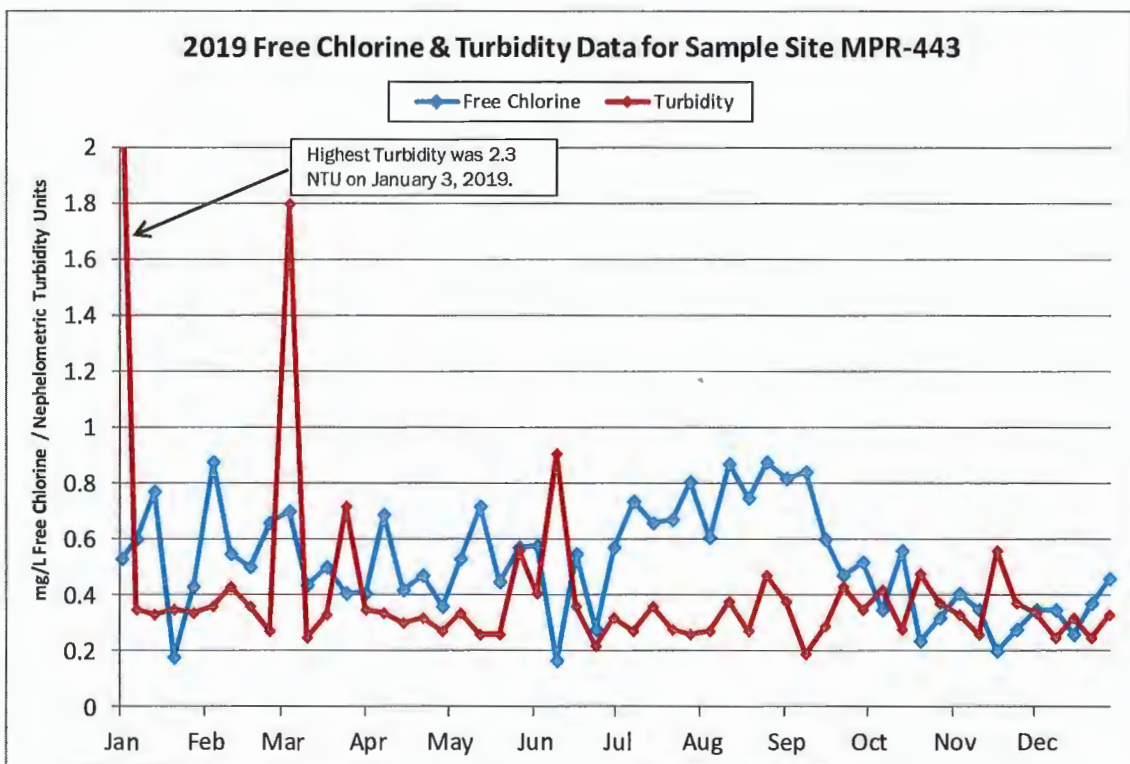
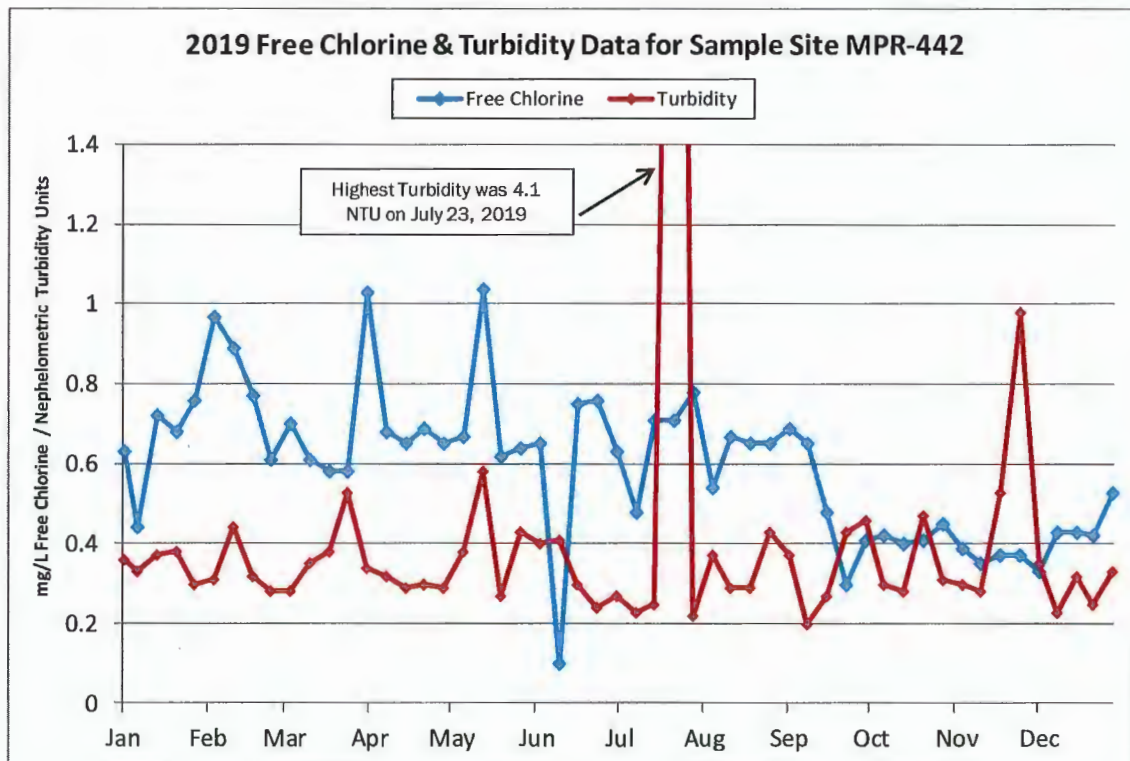


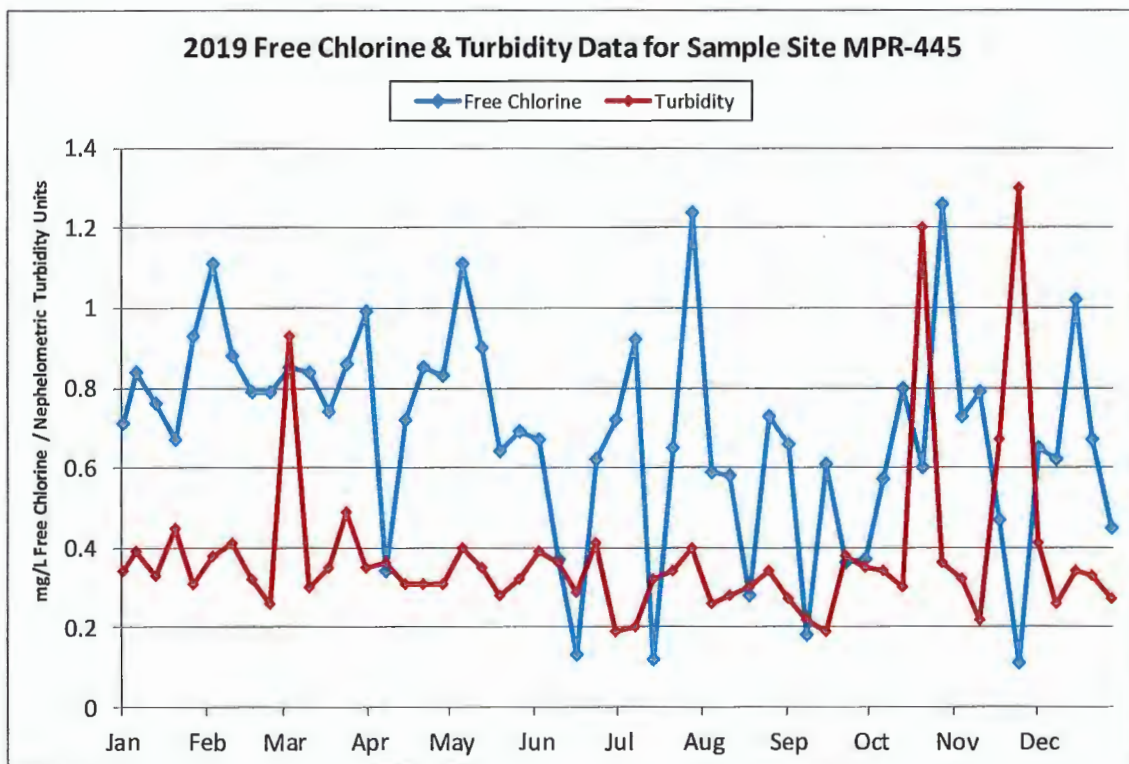
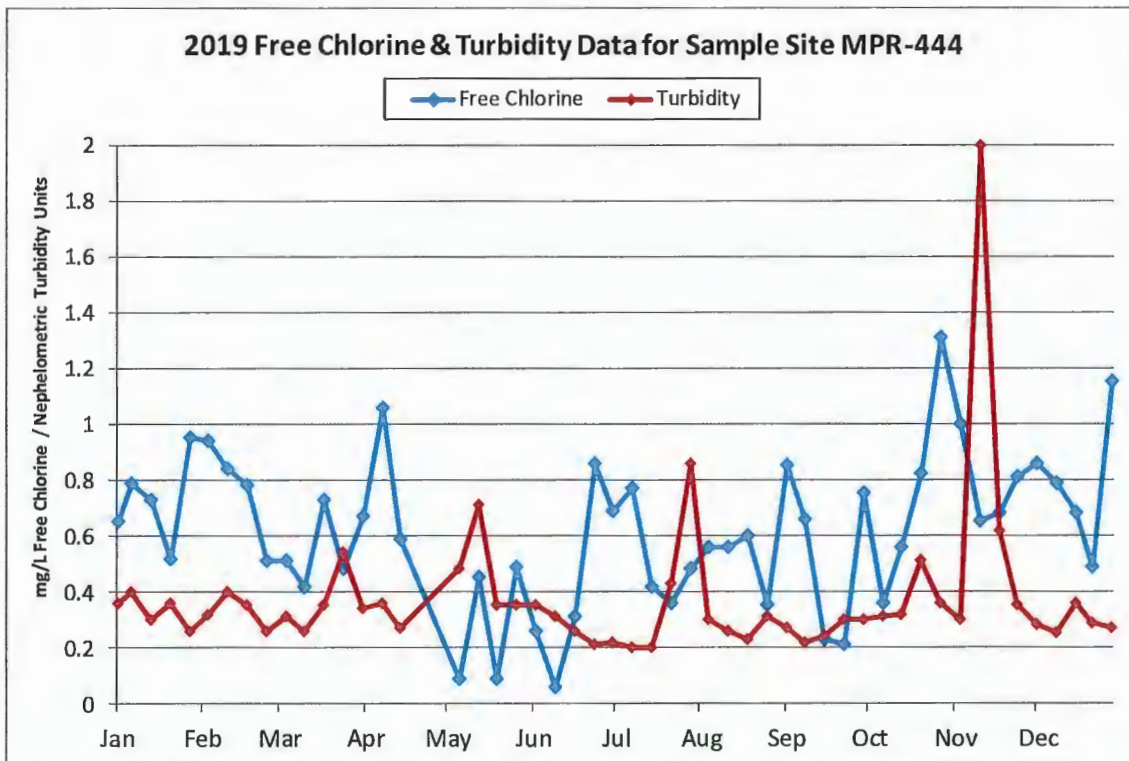


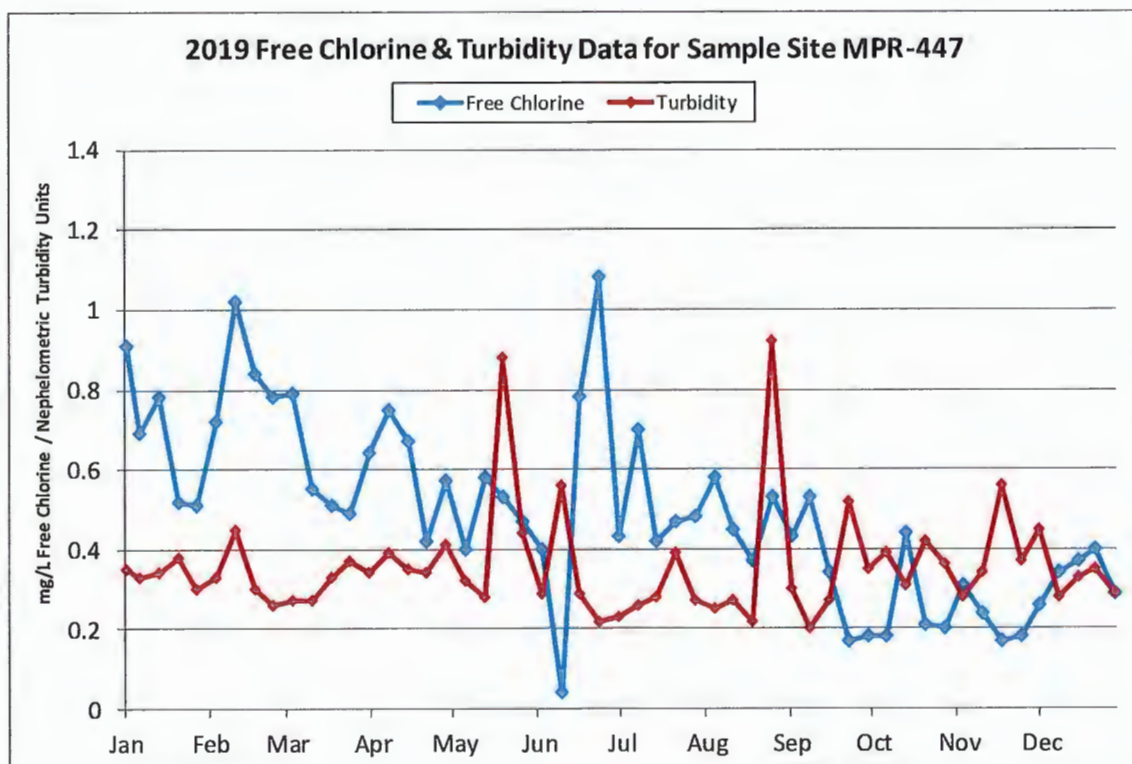
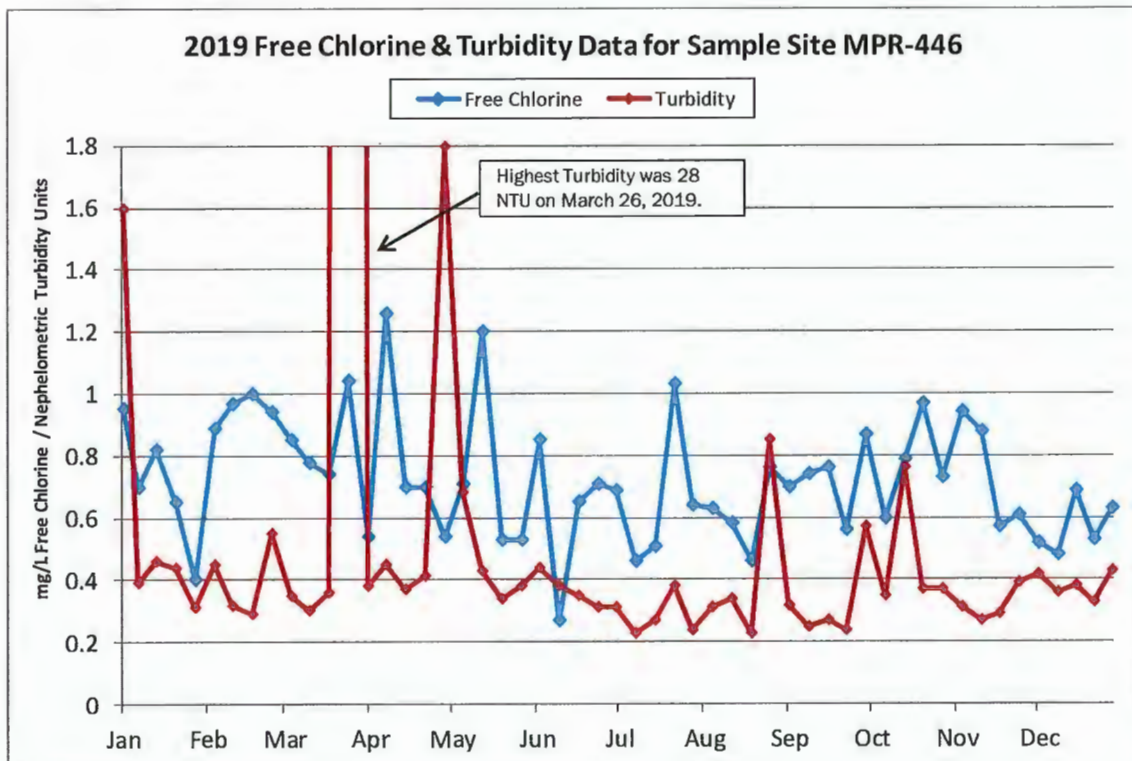


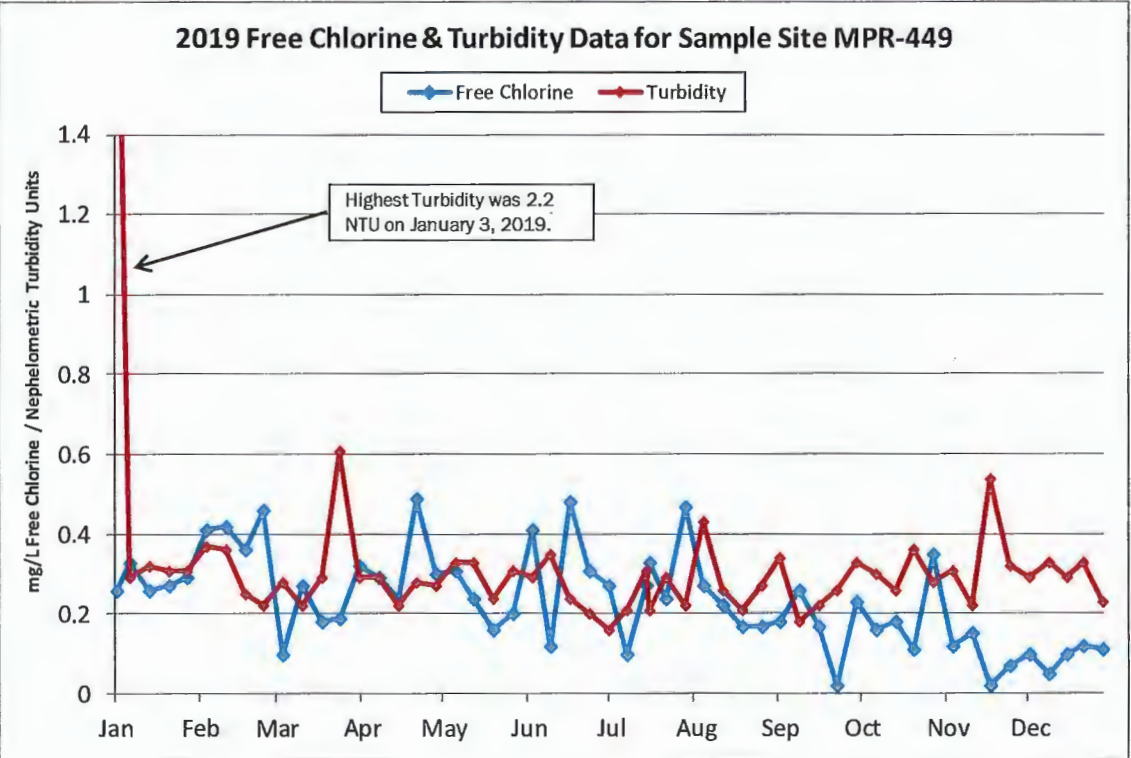
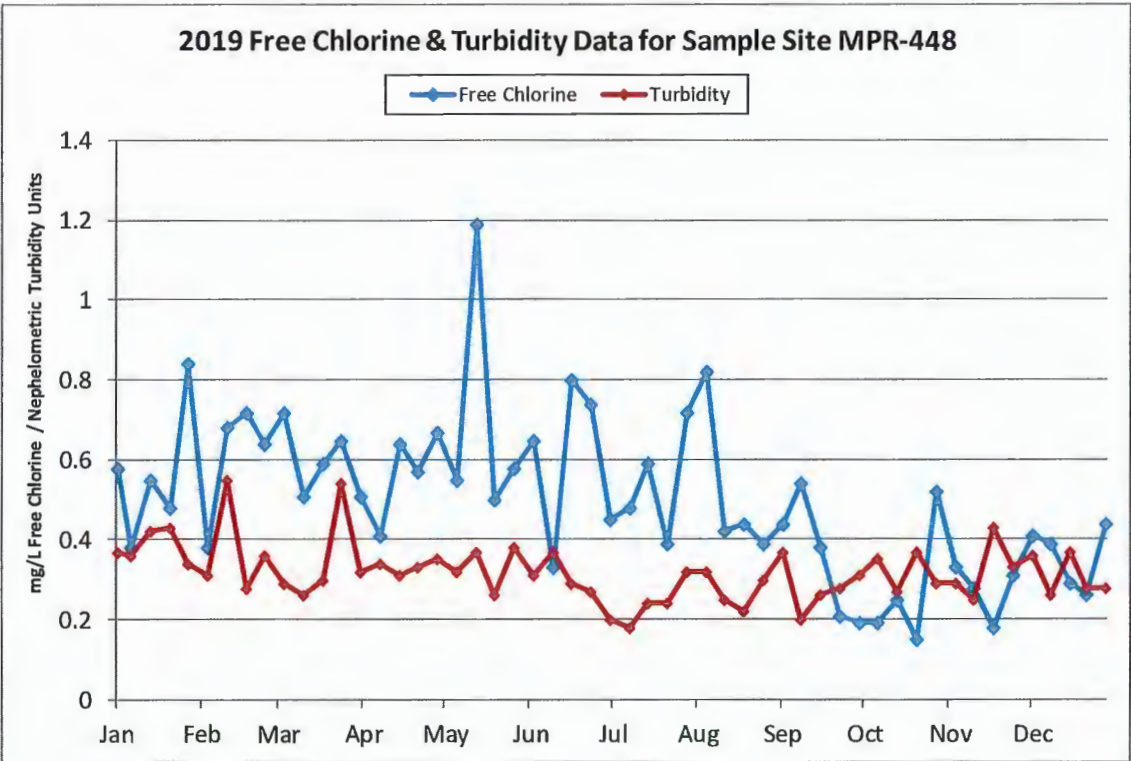












Appendix F: Weekly Sample Lab Results

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-400	Powell Ave. West of 203rd Street	03-Jan-19	0.29	<1	68	8	<1	0.32
MPR-400	Powell Ave. West of 203rd Street	08-Jan-19	0.66	<1	<2	6	<1	0.58
MPR-400	Powell Ave. West of 203rd Street	15-Jan-19	0.45	<1	26	8	<1	0.3
MPR-400	Powell Ave. West of 203rd Street	22-Jan-19	0.42	<1	26	8	<1	0.36
MPR-400	Powell Ave. West of 203rd Street	29-Jan-19	0.94	<1	12	7	<1	0.25
MPR-400	Powell Ave. West of 203rd Street	05-Feb-19	0.79	<1	12	6	<1	0.31
MPR-400	Powell Ave. West of 203rd Street	12-Feb-19	0.61	<1	10	7	<1	0.37
MPR-400	Powell Ave. West of 203rd Street	19-Feb-19	0.54	<1	4	6	<1	0.37
MPR-400	Powell Ave. West of 203rd Street	26-Feb-19	0.51	<1	2	7	<1	0.23
MPR-400	Powell Ave. West of 203rd Street	05-Mar-19	0.54	<1	<2	6	<1	0.28
MPR-400	Powell Ave. West of 203rd Street	12-Mar-19	0.56	<1	<2	5	<1	0.25
MPR-400	Powell Ave. West of 203rd Street	19-Mar-19	0.58	<1	<2	6	<1	0.34
MPR-400	Powell Ave. West of 203rd Street	26-Mar-19	0.66	<1	<2	7	<1	0.37
MPR-400	Powell Ave. West of 203rd Street	02-Apr-19	0.48	<1	<2	10	<1	0.3
MPR-400	Powell Ave. West of 203rd Street	09-Apr-19	0.97	<1	<2	8	<1	0.42
MPR-400	Powell Ave. West of 203rd Street	16-Apr-19	0.48	<1	6	9	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	23-Apr-19	0.53	<1	34	10	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	30-Apr-19	0.48	<1	22	10	<1	0.23
MPR-400	Powell Ave. West of 203rd Street	07-May-19	0.48	<1	14	10	<1	0.27
MPR-400	Powell Ave. West of 203rd Street	14-May-19	0.5	<1	96	12	<1	0.21
MPR-400	Powell Ave. West of 203rd Street	21-May-19	0.4	<1	52	12	<1	0.22
MPR-400	Powell Ave. West of 203rd Street	28-May-19	0.47	<1	82	12	<1	0.27
MPR-400	Powell Ave. West of 203rd Street	04-Jun-19	0.56	<1	88	12	<1	0.22
MPR-400	Powell Ave. West of 203rd Street	11-Jun-19	0.11	<1	94	13	<1	0.25
MPR-400	Powell Ave. West of 203rd Street	18-Jun-19	0.43	<1	280	15	<1	0.21
MPR-400	Powell Ave. West of 203rd Street	25-Jun-19	0.46	<1	280	16	<1	0.21
MPR-400	Powell Ave. West of 203rd Street	02-Jul-19	0.29	<1	480	15	<1	0.17
MPR-400	Powell Ave. West of 203rd Street	09-Jul-19	0.36	<1	710	16	<1	0.17
MPR-400	Powell Ave. West of 203rd Street	16-Jul-19	0.75	<1	240	15	<1	0.31
MPR-400	Powell Ave. West of 203rd Street	23-Jul-19	0.51	<1	28	15	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	30-Jul-19	0.62	<1	110	16	<1	0.22
MPR-400	Powell Ave. West of 203rd Street	06-Aug-19	0.36	<1	28	18	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	13-Aug-19	0.33	<1	390	17	<1	0.27
MPR-400	Powell Ave. West of 203rd Street	20-Aug-19	0.37	<1	470	17	<1	0.23
MPR-400	Powell Ave. West of 203rd Street	27-Aug-19	0.39	<1	180	16	<1	0.25
MPR-400	Powell Ave. West of 203rd Street	03-Sep-19	0.61	<1	420	17	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	10-Sep-19	0.48	<1	170	17	<1	0.18
MPR-400	Powell Ave. West of 203rd Street	17-Sep-19	0.18	<1	290	17	<1	0.19
MPR-400	Powell Ave. West of 203rd Street	24-Sep-19	0	<1	510	14	<1	0.31

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-400	Powell Ave. West of 203rd Street	01-Oct-19	0.33	<1	4	15	<1	0.5
MPR-400	Powell Ave. West of 203rd Street	08-Oct-19	0.3	<1	10	15	<1	0.27
MPR-400	Powell Ave. West of 203rd Street	15-Oct-19	0.28	<1	2	14	<1	0.24
MPR-400	Powell Ave. West of 203rd Street	22-Oct-19	0.29	<1	4	14	<1	0.33
MPR-400	Powell Ave. West of 203rd Street	29-Oct-19	0.65	<1	10	13	<1	0.35
MPR-400	Powell Ave. West of 203rd Street	05-Nov-19	0.41	<1	12	12	<1	0.23
MPR-400	Powell Ave. West of 203rd Street	12-Nov-19	0.36	<1	<2	12	<1	0.21
MPR-400	Powell Ave. West of 203rd Street	19-Nov-19	0.53	<1	4	11.5	<1	0.45
MPR-400	Powell Ave. West of 203rd Street	26-Nov-19	0.41	<1	<2	11	<1	0.31
MPR-400	Powell Ave. West of 203rd Street	03-Dec-19	0.44	<1	<2	10	<1	0.28
MPR-400	Powell Ave. West of 203rd Street	10-Dec-19	0.38	<1	<2	10	<1	0.19
MPR-400	Powell Ave. West of 203rd Street	17-Dec-19	0.43	<1	<2	10	<1	0.35
MPR-400	Powell Ave. West of 203rd Street	23-Dec-19	0.46	<1	NA	9	<1	0.26
MPR-400	Powell Ave. West of 203rd Street	30-Dec-19	0.53	<1	NA	9	<1	0.27
MPR-431	Dewdney Trunk Rd. @ 201B St.	03-Jan-19	1.09	<1 ¹	<2	6	<1 ¹	30
MPR-431	Dewdney Trunk Rd. @ 201B St.	08-Jan-19	0.95	<1	<2	5	<1	0.52
MPR-431	Dewdney Trunk Rd. @ 201B St.	15-Jan-19	1.07	<1	<2	5	<1	0.45
MPR-431	Dewdney Trunk Rd. @ 201B St.	22-Jan-19	0.95	<1	<2	5	<1	0.34
MPR-431	Dewdney Trunk Rd. @ 201B St.	29-Jan-19	1.05	<1	<2	6	<1	0.29
MPR-431	Dewdney Trunk Rd. @ 201B St.	05-Feb-19	0.68	<1	<2	5	<1	0.43
MPR-431	Dewdney Trunk Rd. @ 201B St.	12-Feb-19	1.05	<1	<2	5	<1	0.56
MPR-431	Dewdney Trunk Rd. @ 201B St.	19-Feb-19	0.9	<1	<2	4	<1	0.95
MPR-431	Dewdney Trunk Rd. @ 201B St.	26-Feb-19	0.95	<1	<2	4	<1	0.36
MPR-431	Dewdney Trunk Rd. @ 201B St.	05-Mar-19	0.82	<1	<2	5	<1	0.42
MPR-431	Dewdney Trunk Rd. @ 201B St.	12-Mar-19	0.72	<1	<2	5	<1	0.35
MPR-431	Dewdney Trunk Rd. @ 201B St.	19-Mar-19	0.87	<1	<2	6	<1	0.44
MPR-431	Dewdney Trunk Rd. @ 201B St.	26-Mar-19	0.87	<1	<2	7	<1	0.46
MPR-431	Dewdney Trunk Rd. @ 201B St.	02-Apr-19	0.58	<1	2	9	<1	0.38
MPR-431	Dewdney Trunk Rd. @ 201B St.	09-Apr-19	1.05	<1	<2	9	<1	0.35
MPR-431	Dewdney Trunk Rd. @ 201B St.	16-Apr-19	0.79	<1	<2	9	<1	0.43
MPR-431	Dewdney Trunk Rd. @ 201B St.	23-Apr-19	0.85	<1	<2	10	<1	0.39
MPR-431	Dewdney Trunk Rd. @ 201B St.	30-Apr-19	0.77	<1	<2	10	<1	0.35
MPR-431	Dewdney Trunk Rd. @ 201B St.	07-May-19	0.9	<1	<2	10	<1	0.36
MPR-431	Dewdney Trunk Rd. @ 201B St.	14-May-19	1.2	<1	4	12	<1	0.34
MPR-431	Dewdney Trunk Rd. @ 201B St.	21-May-19	0.76	<1	<2	13	<1	0.25
MPR-431	Dewdney Trunk Rd. @ 201B St.	28-May-19	0.85	<1	<2	13	<1	0.36
MPR-431	Dewdney Trunk Rd. @ 201B St.	04-Jun-19	0.58	<1	<2	13	<1	0.41
MPR-431	Dewdney Trunk Rd. @ 201B St.	11-Jun-19	0.17	<1	<2	14	<1	0.47
MPR-431	Dewdney Trunk Rd. @ 201B St.	18-Jun-19	0.74	<1	<2	15	<1	0.26

¹ MPN/100mL (Colilert test method)

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-431	Dewdney Trunk Rd. @ 201B St.	25-Jun-19	0.86	<1	<2	15	<1	0.27
MPR-431	Dewdney Trunk Rd. @ 201B St.	02-Jul-19	0.76	<1	<2	15	<1	0.21
MPR-431	Dewdney Trunk Rd. @ 201B St.	09-Jul-19	0.81	<1	<2	16	<1	0.2
MPR-431	Dewdney Trunk Rd. @ 201B St.	16-Jul-19	0.91	<1	2	16	<1	0.32
MPR-431	Dewdney Trunk Rd. @ 201B St.	23-Jul-19	0.83	<1	<2	16	<1	0.35
MPR-431	Dewdney Trunk Rd. @ 201B St.	30-Jul-19	1.04	<1	<2	17	<1	0.28
MPR-431	Dewdney Trunk Rd. @ 201B St.	06-Aug-19	0.78	<1	2	18	<1	0.32
MPR-431	Dewdney Trunk Rd. @ 201B St.	13-Aug-19	0.83	<1	<2	18	<1	0.26
MPR-431	Dewdney Trunk Rd. @ 201B St.	20-Aug-19	0.91	<1	<2	18	<1	0.29
MPR-431	Dewdney Trunk Rd. @ 201B St.	27-Aug-19	0.96	<1	<2	17	<1	0.23
MPR-431	Dewdney Trunk Rd. @ 201B St.	03-Sep-19	1.08	<1	<2	17	<1	0.32
MPR-431	Dewdney Trunk Rd. @ 201B St.	10-Sep-19	0.83	<1	<2	18	<1	0.37
MPR-431	Dewdney Trunk Rd. @ 201B St.	17-Sep-19	0.72	<1	<2	17	<1	0.32
MPR-431	Dewdney Trunk Rd. @ 201B St.	24-Sep-19	0.71	<1	<2	16	<1	0.57
MPR-431	Dewdney Trunk Rd. @ 201B St.	01-Oct-19	0.99	<1	<2	15	<1	0.39
MPR-431	Dewdney Trunk Rd. @ 201B St.	08-Oct-19	0.75	<1	<2	15	<1	0.41
MPR-431	Dewdney Trunk Rd. @ 201B St.	15-Oct-19	0.86	<1	<2	13	<1	0.33
MPR-431	Dewdney Trunk Rd. @ 201B St.	22-Oct-19	0.8	<1	<2	12	<1	0.38
MPR-431	Dewdney Trunk Rd. @ 201B St.	29-Oct-19	1.45	<1	4	12	<1	0.29
MPR-431	Dewdney Trunk Rd. @ 201B St.	05-Nov-19	0.83	<1	<2	10	<1	0.34
MPR-431	Dewdney Trunk Rd. @ 201B St.	12-Nov-19	0.76	<1	<2	10	<1	0.25
MPR-431	Dewdney Trunk Rd. @ 201B St.	19-Nov-19	0.82	<1	<2	10	<1	0.56
MPR-431	Dewdney Trunk Rd. @ 201B St.	26-Nov-19	0.68	<1	<2	9	<1	0.93
MPR-431	Dewdney Trunk Rd. @ 201B St.	03-Dec-19	0.72	<1	<2	8	<1	0.27
MPR-431	Dewdney Trunk Rd. @ 201B St.	10-Dec-19	0.68	<1	2	8	<1	0.41
MPR-431	Dewdney Trunk Rd. @ 201B St.	17-Dec-19	0.81	<1	<2	8	<1	0.4
MPR-431	Dewdney Trunk Rd. @ 201B St.	23-Dec-19	0.83	<1	NA	8	<1	0.31
MPR-431	Dewdney Trunk Rd. @ 201B St.	30-Dec-19	0.93	<1	NA	7	<1	0.29
MPR-432	224 St. @ 122 Ave.	03-Jan-19	0.58	<1	<2	5	<1	0.48
MPR-432	224 St. @ 122 Ave.	08-Jan-19	0.72	<1	<2	5	<1	0.42
MPR-432	224 St. @ 122 Ave.	15-Jan-19	0.82	<1	<2	6	<1	0.32
MPR-432	224 St. @ 122 Ave.	22-Jan-19	0.88	<1	<2	6	<1	0.46
MPR-432	224 St. @ 122 Ave.	29-Jan-19	0.76	<1	6	6	<1	0.26
MPR-432	224 St. @ 122 Ave.	05-Feb-19	1	<1	<2	5	<1	0.45
MPR-432	224 St. @ 122 Ave.	12-Feb-19	0.98	<1	<2	4	<1	0.52
MPR-432	224 St. @ 122 Ave.	19-Feb-19	0.87	<1	<2	4	<1	0.39
MPR-432	224 St. @ 122 Ave.	26-Feb-19	0.89	<1	<2	4	<1	0.37
MPR-432	224 St. @ 122 Ave.	05-Mar-19	0.88	<1	<2	4	<1	0.4
MPR-432	224 St. @ 122 Ave.	12-Mar-19	0.78	<1	100	4	<1	0.39

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-432	224 St. @ 122 Ave.	19-Mar-19	0.76	<1	<2	6	<1	0.44
MPR-432	224 St. @ 122 Ave.	26-Mar-19	0.8	<1	<2	7	<1	0.43
MPR-432	224 St. @ 122 Ave.	02-Apr-19	1.02	<1	<2	7	<1	0.44
MPR-432	224 St. @ 122 Ave.	09-Apr-19	0.69	<1	<2	8	<1	0.38
MPR-432	224 St. @ 122 Ave.	16-Apr-19	0.77	<1	<2	8	<1	0.43
MPR-432	224 St. @ 122 Ave.	23-Apr-19	0.76	<1	2	8	<1	0.39
MPR-432	224 St. @ 122 Ave.	30-Apr-19	0.77	<1	<2	8	<1	0.38
MPR-432	224 St. @ 122 Ave.	07-May-19	0.74	<1	<2	9	<1	0.44
MPR-432	224 St. @ 122 Ave.	14-May-19	0.84	<1	62	10	<1	0.3
MPR-432	224 St. @ 122 Ave.	21-May-19	0.76	<1	<2	11	<1	0.41
MPR-432	224 St. @ 122 Ave.	28-May-19	0.73	<1	<2	12	<1	0.49
MPR-432	224 St. @ 122 Ave.	04-Jun-19	0.57	<1	6	12	<1	0.4
MPR-432	224 St. @ 122 Ave.	11-Jun-19	0.14	<1	2	14	<1	0.59
MPR-432	224 St. @ 122 Ave.	18-Jun-19	0.97	<1	<2	13	<1	0.31
MPR-432	224 St. @ 122 Ave.	25-Jun-19	0.66	<1	16	13	<1	0.26
MPR-432	224 St. @ 122 Ave.	02-Jul-19	0.66	<1	<2	14	<1	0.22
MPR-432	224 St. @ 122 Ave.	09-Jul-19	0.66	<1	8	15	<1	0.23
MPR-432	224 St. @ 122 Ave.	16-Jul-19	0.85	<1	<2	15	<1	0.31
MPR-432	224 St. @ 122 Ave.	23-Jul-19	0.67	<1	<2	15	<1	0.3
MPR-432	224 St. @ 122 Ave.	30-Jul-19	0.82	<1	<2	15	<1	0.25
MPR-432	224 St. @ 122 Ave.	06-Aug-19	0.74	<1	2	16	<1	0.29
MPR-432	224 St. @ 122 Ave.	13-Aug-19	0.87	<1	2	16	<1	0.26
MPR-432	224 St. @ 122 Ave.	20-Aug-19	0.79	<1	<2	16	<1	0.27
MPR-432	224 St. @ 122 Ave.	27-Aug-19	1.01	<1	2	16	<1	0.27
MPR-432	224 St. @ 122 Ave.	03-Sep-19	0.94	<1	<2	16	<1	0.35
MPR-432	224 St. @ 122 Ave.	10-Sep-19	0.81	<1	<2	17	<1	0.23
MPR-432	224 St. @ 122 Ave.	17-Sep-19	0.58	<1	<2	16	<1	0.32
MPR-432	224 St. @ 122 Ave.	24-Sep-19	0.69	<1	2	14	<1	0.4
MPR-432	224 St. @ 122 Ave.	01-Oct-19	0.89	<1	4	13	<1	0.55
MPR-432	224 St. @ 122 Ave.	08-Oct-19	0.56	<1	8	14	<1	0.41
MPR-432	224 St. @ 122 Ave.	15-Oct-19	0.54	<1	<2	12	<1	0.28
MPR-432	224 St. @ 122 Ave.	22-Oct-19	0.5	<1	<2	11	<1	0.52
MPR-432	224 St. @ 122 Ave.	29-Oct-19	0.75	<1	<2	9	<1	0.35
MPR-432	224 St. @ 122 Ave.	05-Nov-19	0.69	<1	<2	9	<1	0.3
MPR-432	224 St. @ 122 Ave.	12-Nov-19	0.62	<1	2	9	<1	0.27
MPR-432	224 St. @ 122 Ave.	19-Nov-19	0.57	<1	<2	9.5	<1	0.54
MPR-432	224 St. @ 122 Ave.	26-Nov-19	0.64	<1	8	8	<1	0.35
MPR-432	224 St. @ 122 Ave.	03-Dec-19	0.52	<1	2	6	<1	0.35
MPR-432	224 St. @ 122 Ave.	10-Dec-19	0.72	<1	<2	7	<1	0.34

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-432	224 St. @ 122 Ave.	17-Dec-19	0.62	<1	<2	7	<1	0.34
MPR-432	224 St. @ 122 Ave.	23-Dec-19	0.78	<1	NA	6	<1	0.31
MPR-432	224 St. @ 122 Ave.	30-Dec-19	0.85	<1	NA	7	<1	0.29
MPR-433	232 St. North of 130 Ave.	03-Jan-19	0.82	<1	<2	6	<1	0.42
MPR-433	232 St. North of 130 Ave.	08-Jan-19	0.71	<1	<2	6	<1	0.42
MPR-433	232 St. North of 130 Ave.	15-Jan-19	0.58	<1	2	6	<1	0.38
MPR-433	232 St. North of 130 Ave.	22-Jan-19	0.57	<1	<2	6	<1	0.45
MPR-433	232 St. North of 130 Ave.	29-Jan-19	0.74	<1	<2	6	<1	0.25
MPR-433	232 St. North of 130 Ave.	05-Feb-19	1.1	<1	<2	5	<1	0.43
MPR-433	232 St. North of 130 Ave.	12-Feb-19	0.56	<1	<2	4	<1	0.49
MPR-433	232 St. North of 130 Ave.	19-Feb-19	0.69	<1	<2	4	<1	0.29
MPR-433	232 St. North of 130 Ave.	26-Feb-19	0.76	<1	2	4	<1	0.25
MPR-433	232 St. North of 130 Ave.	05-Mar-19	0.7	<1	<2	5	<1	0.4
MPR-433	232 St. North of 130 Ave.	12-Mar-19	0.56	<1	<2	4	<1	0.29
MPR-433	232 St. North of 130 Ave.	19-Mar-19	0.62	<1	<2	6	<1	0.37
MPR-433	232 St. North of 130 Ave.	26-Mar-19	0.58	<1	<2	7	<1	0.52
MPR-433	232 St. North of 130 Ave.	02-Apr-19	0.7	<1	2	7	<1	0.42
MPR-433	232 St. North of 130 Ave.	09-Apr-19	0.58	<1	<2	8	<1	0.35
MPR-433	232 St. North of 130 Ave.	16-Apr-19	0.4	<1	<2	7	<1	0.3
MPR-433	232 St. North of 130 Ave.	23-Apr-19	0.69	<1	<2	8	<1	0.3
MPR-433	232 St. North of 130 Ave.	30-Apr-19	0.67	<1	<2	8	<1	0.26
MPR-433	232 St. North of 130 Ave.	07-May-19	0.61	<1	<2	9	<1	0.37
MPR-433	232 St. North of 130 Ave.	14-May-19	0.43	<1	24	10	<1	0.42
MPR-433	232 St. North of 130 Ave.	21-May-19	0.65	<1	<2	11	<1	0.29
MPR-433	232 St. North of 130 Ave.	28-May-19	0.72	<1	6	12	<1	0.32
MPR-433	232 St. North of 130 Ave.	04-Jun-19	0.81	<1	<2	11	<1	0.37
MPR-433	232 St. North of 130 Ave.	11-Jun-19	0.2	<1	<2	12	<1	0.34
MPR-433	232 St. North of 130 Ave.	18-Jun-19	0.56	<1	2	13	<1	0.42
MPR-433	232 St. North of 130 Ave.	25-Jun-19	0.51	<1	<2	13	<1	0.23
MPR-433	232 St. North of 130 Ave.	02-Jul-19	0.51	<1	<2	14	<1	0.18
MPR-433	232 St. North of 130 Ave.	09-Jul-19	0.64	<1	10	14	<1	0.19
MPR-433	232 St. North of 130 Ave.	16-Jul-19	0.82	<1	<2	14	<1	0.27
MPR-433	232 St. North of 130 Ave.	23-Jul-19	0.86	<1	2	14	<1	0.3
MPR-433	232 St. North of 130 Ave.	30-Jul-19	0.59	<1	<2	15	<1	0.27
MPR-433	232 St. North of 130 Ave.	06-Aug-19	0.55	<1	<2	15	<1	0.31
MPR-433	232 St. North of 130 Ave.	13-Aug-19	0.67	<1	<2	16	<1	0.23
MPR-433	232 St. North of 130 Ave.	20-Aug-19	0.7	<1	<2	16	<1	0.22
MPR-433	232 St. North of 130 Ave.	27-Aug-19	0.58	<1	<2	15	<1	0.32
MPR-433	232 St. North of 130 Ave.	03-Sep-19	0.83	<1	<2	16	<1	0.38

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-433	232 St. North of 130 Ave.	10-Sep-19	0.52	<1	2	16	<1	0.17
MPR-433	232 St. North of 130 Ave.	17-Sep-19	0.56	<1	<2	15	<1	0.29
MPR-433	232 St. North of 130 Ave.	24-Sep-19	0.23	<1	<2	15	<1	0.29
MPR-433	232 St. North of 130 Ave.	01-Oct-19	0.6	<1	<2	14	<1	0.35
MPR-433	232 St. North of 130 Ave.	08-Oct-19	0.59	<1	<2	14	<1	0.4
MPR-433	232 St. North of 130 Ave.	15-Oct-19	0.58	<1	2	12	<1	0.31
MPR-433	232 St. North of 130 Ave.	22-Oct-19	0.01	<1	340	13	<1	0.34
MPR-433	232 St. North of 130 Ave.	29-Oct-19	0.92	<1	30	10	<1	0.31
MPR-433	232 St. North of 130 Ave.	05-Nov-19	0.8	<1	<2	9	<1	0.29
MPR-433	232 St. North of 130 Ave.	12-Nov-19	0.63	<1	<2	10	<1	0.26
MPR-433	232 St. North of 130 Ave.	19-Nov-19	0.53	<1	4	9.5	<1	0.54
MPR-433	232 St. North of 130 Ave.	26-Nov-19	0.57	<1	<2	9	<1	0.34
MPR-433	232 St. North of 130 Ave.	03-Dec-19	0.64	<1	<2	6	<1	0.38
MPR-433	232 St. North of 130 Ave.	10-Dec-19	0.58	<1	<2	8	<1	0.26
MPR-433	232 St. North of 130 Ave.	17-Dec-19	0.67	<1	<2	7	<1	0.46
MPR-433	232 St. North of 130 Ave.	23-Dec-19	0.13	<1	NA	7	<1	0.27
MPR-433	232 St. North of 130 Ave.	30-Dec-19	0.33	<1	NA	7	<1	0.37
MPR-434	102 Ave. East of 241A St.	03-Jan-19	0.5	<1	<2	7	<1	0.36
MPR-434	102 Ave. East of 241A St.	08-Jan-19	0.56	<1	2	6	<1	0.45
MPR-434	102 Ave. East of 241A St.	15-Jan-19	0.51	<1	2	5	<1	0.38
MPR-434	102 Ave. East of 241A St.	22-Jan-19	0.49	<1	<2	6	<1	0.47
MPR-434	102 Ave. East of 241A St.	29-Jan-19	0.57	<1	<2	5	<1	0.3
MPR-434	102 Ave. East of 241A St.	05-Feb-19	0.9	<1	<2	5	<1	0.37
MPR-434	102 Ave. East of 241A St.	12-Feb-19	0.51	<1	<2	5	<1	0.44
MPR-434	102 Ave. East of 241A St.	19-Feb-19	0.61	<1	<2	4	<1	0.37
MPR-434	102 Ave. East of 241A St.	26-Feb-19	0.66	<1	<2	4	<1	0.28
MPR-434	102 Ave. East of 241A St.	05-Mar-19	0.58	<1	<2	5	<1	0.35
MPR-434	102 Ave. East of 241A St.	12-Mar-19	0.39	<1	<2	5	<1	0.31
MPR-434	102 Ave. East of 241A St.	19-Mar-19	0.7	<1	<2	6	<1	2.1
MPR-434	102 Ave. East of 241A St.	26-Mar-19	0.65	<1	<2	7	<1	0.47
MPR-434	102 Ave. East of 241A St.	02-Apr-19	0.49	<1	2	8	<1	0.36
MPR-434	102 Ave. East of 241A St.	09-Apr-19	1.02	<1	<2	9	<1	0.46
MPR-434	102 Ave. East of 241A St.	16-Apr-19	0.69	<1	<2	8	<1	0.92
MPR-434	102 Ave. East of 241A St.	23-Apr-19	1.06	<1	2	9	<1	0.3
MPR-434	102 Ave. East of 241A St.	30-Apr-19	0.47	<1	<2	9	<1	0.27
MPR-434	102 Ave. East of 241A St.	07-May-19	0.68	<1	<2	10	<1	0.31
MPR-434	102 Ave. East of 241A St.	14-May-19	0.79	<1	<2	12	<1	0.34
MPR-434	102 Ave. East of 241A St.	21-May-19	0.63	<1	<2	12	<1	0.28
MPR-434	102 Ave. East of 241A St.	28-May-19	0.84	<1	26	12	<1	0.42

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-434	102 Ave. East of 241A St.	04-Jun-19	0.74	<1	<2	13	<1	0.38
MPR-434	102 Ave. East of 241A St.	11-Jun-19	0.28	<1	<2	13	<1	0.68
MPR-434	102 Ave. East of 241A St.	18-Jun-19	0.73	<1	<2	14	<1	0.34
MPR-434	102 Ave. East of 241A St.	25-Jun-19	0.87	<1	<2	15	<1	0.24
MPR-434	102 Ave. East of 241A St.	02-Jul-19	0.78	<1	6	16	<1	0.35
MPR-434	102 Ave. East of 241A St.	09-Jul-19	0.9	<1	60	15	<1	0.25
MPR-434	102 Ave. East of 241A St.	16-Jul-19	0.71	<1	<2	16	<1	0.27
MPR-434	102 Ave. East of 241A St.	23-Jul-19	0.6	<1	<2	15	<1	0.29
MPR-434	102 Ave. East of 241A St.	30-Jul-19	0.94	<1	2	15	<1	0.25
MPR-434	102 Ave. East of 241A St.	06-Aug-19	0.72	<1	<2	17	<1	0.39
MPR-434	102 Ave. East of 241A St.	13-Aug-19	0.78	<1	2	17	<1	0.26
MPR-434	102 Ave. East of 241A St.	20-Aug-19	0.68	<1	<2	17	<1	0.33
MPR-434	102 Ave. East of 241A St.	27-Aug-19	0.51	<1	<2	16	<1	0.29
MPR-434	102 Ave. East of 241A St.	03-Sep-19	0.86	<1	<2	17	<1	0.39
MPR-434	102 Ave. East of 241A St.	10-Sep-19	0.48	<1	4	17	<1	0.22
MPR-434	102 Ave. East of 241A St.	17-Sep-19	0.46	<1	10	17	<1	0.27
MPR-434	102 Ave. East of 241A St.	24-Sep-19	0.19	<1	2	16	<1	0.34
MPR-434	102 Ave. East of 241A St.	01-Oct-19	0.23	<1	<2	15	<1	0.37
MPR-434	102 Ave. East of 241A St.	08-Oct-19	0.28	<1	12	14	<1	0.32
MPR-434	102 Ave. East of 241A St.	15-Oct-19	0.48	<1	<2	13	<1	0.37
MPR-434	102 Ave. East of 241A St.	22-Oct-19	0.66	<1	<2	14	<1	0.38
MPR-434	102 Ave. East of 241A St.	29-Oct-19	0.24	<1	<2	12	<1	0.27
MPR-434	102 Ave. East of 241A St.	05-Nov-19	0.6	<1	<2	10	<1	0.34
MPR-434	102 Ave. East of 241A St.	12-Nov-19	0.5	<1	<2	10	<1	0.28
MPR-434	102 Ave. East of 241A St.	19-Nov-19	0.21	<1	<2	10	<1	0.39
MPR-434	102 Ave. East of 241A St.	26-Nov-19	0.41	<1	2	9	<1	0.34
MPR-434	102 Ave. East of 241A St.	03-Dec-19	0.32	<1	<2	7	<1	0.28
MPR-434	102 Ave. East of 241A St.	10-Dec-19	0.31	<1	<2	8	<1	0.27
MPR-434	102 Ave. East of 241A St.	17-Dec-19	0.51	<1	<2	8	<1	0.33
MPR-434	102 Ave. East of 241A St.	23-Dec-19	0.53	<1	NA	8	<1	0.26
MPR-434	102 Ave. East of 241A St.	30-Dec-19	0.53	<1	NA	7	<1	0.35
MPR-435	240 St. South of Abernethy Way	03-Jan-19	0.74	<1 ¹	<2	6	<1 ¹	5.8
MPR-435	240 St. South of Abernethy Way	08-Jan-19	0.6	<1	<2	6	<1	0.4
MPR-435	240 St. South of Abernethy Way	15-Jan-19	0.56	<1	<2	7	<1	0.35
MPR-435	240 St. South of Abernethy Way	22-Jan-19	0.71	<1	<2	6	<1	0.3
MPR-435	240 St. South of Abernethy Way	29-Jan-19	0.59	<1	<2	6	<1	0.33
MPR-435	240 St. South of Abernethy Way	05-Feb-19	1.13	<1	<2	5	<1	0.34
MPR-435	240 St. South of Abernethy Way	12-Feb-19	0.92	<1	<2	4	<1	0.45
MPR-435	240 St. South of Abernethy Way	19-Feb-19	0.97	<1	2	4	<1	0.47

¹ MPN/100mL (Colilert test method)

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/ 100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-435	240 St. South of Abernethy Way	26-Feb-19	0.8	<1	<2	4	<1	3
MPR-435	240 St. South of Abernethy Way	05-Mar-19	0.58	<1	<2	5	<1	0.33
MPR-435	240 St. South of Abernethy Way	12-Mar-19	0.62	<1	<2	5	<1	0.34
MPR-435	240 St. South of Abernethy Way	19-Mar-19	1.22	<1	<2	6	<1	0.39
MPR-435	240 St. South of Abernethy Way	26-Mar-19	0.64	<1	<2	8	<1	0.4
MPR-435	240 St. South of Abernethy Way	02-Apr-19	0.9	<1	8	9	<1	0.32
MPR-435	240 St. South of Abernethy Way	09-Apr-19	0.58	<1	<2	9	<1	0.32
MPR-435	240 St. South of Abernethy Way	16-Apr-19	0.63	<1	<2	9	<1	0.35
MPR-435	240 St. South of Abernethy Way	23-Apr-19	0.72	<1	6	10	<1	0.36
MPR-435	240 St. South of Abernethy Way	30-Apr-19	0.72	<1	<2	10	<1	0.34
MPR-435	240 St. South of Abernethy Way	07-May-19	0.58	<1	<2	10	<1	0.37
MPR-435	240 St. South of Abernethy Way	14-May-19	0.42	<1	18	11	<1	0.28
MPR-435	240 St. South of Abernethy Way	21-May-19	0.8	<1	<2	13	<1	0.38
MPR-435	240 St. South of Abernethy Way	28-May-19	0.68	<1	<2	12	<1	0.37
MPR-435	240 St. South of Abernethy Way	04-Jun-19	0.53	<1	<2	12	<1	0.32
MPR-435	240 St. South of Abernethy Way	11-Jun-19	0.31	<1	<2	14	<1	0.35
MPR-435	240 St. South of Abernethy Way	18-Jun-19	0.72	<1	<2	14	<1	0.4
MPR-435	240 St. South of Abernethy Way	25-Jun-19	1.06	<1	<2	15	<1	0.26
MPR-435	240 St. South of Abernethy Way	02-Jul-19	0.52	<1	2	16	<1	0.27
MPR-435	240 St. South of Abernethy Way	09-Jul-19	0.52	<1	<2	17	<1	0.21
MPR-435	240 St. South of Abernethy Way	16-Jul-19	0.79	<1	<2	14	<1	0.27
MPR-435	240 St. South of Abernethy Way	23-Jul-19	0.53	<1	2	16	1	0.42
MPR-435	240 St. South of Abernethy Way	25-Jul-19	0.78	<1	<2	15	<1	0.25
MPR-435	240 St. South of Abernethy Way	30-Jul-19	0.57	<1	<2	15	<1	0.32
MPR-435	240 St. South of Abernethy Way	06-Aug-19	0.5	<1	<2	23	<1	0.34
MPR-435	240 St. South of Abernethy Way	13-Aug-19	0.54	<1	<2	16	<1	0.35
MPR-435	240 St. South of Abernethy Way	20-Aug-19	0.56	<1	2	16	<1	0.28
MPR-435	240 St. South of Abernethy Way	27-Aug-19	0.63	<1	<2	17	<1	0.28
MPR-435	240 St. South of Abernethy Way	03-Sep-19	0.65	<1	4	18	<1	0.27
MPR-435	240 St. South of Abernethy Way	10-Sep-19	0.77	<1	2	18	<1	0.24
MPR-435	240 St. South of Abernethy Way	17-Sep-19	0.48	<1	12	17	<1	0.24
MPR-435	240 St. South of Abernethy Way	24-Sep-19	0.31	<1	68	17	<1	0.35
MPR-435	240 St. South of Abernethy Way	01-Oct-19	0.38	<1	32	16	<1	0.36
MPR-435	240 St. South of Abernethy Way	08-Oct-19	0.45	<1	20	15	<1	0.34
MPR-435	240 St. South of Abernethy Way	15-Oct-19	0.35	<1	6	13	<1	0.28
MPR-435	240 St. South of Abernethy Way	22-Oct-19	0.62	<1	2	14	<1	0.35
MPR-435	240 St. South of Abernethy Way	29-Oct-19	0.5	<1	6	12	<1	0.29
MPR-435	240 St. South of Abernethy Way	05-Nov-19	0.44	<1	2	10	<1	0.25
MPR-435	240 St. South of Abernethy Way	12-Nov-19	0.39	<1	6	11	<1	0.26

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-435	240 St. South of Abernethy Way	19-Nov-19	0.37	<1	<2	10.5	<1	0.51
MPR-435	240 St. South of Abernethy Way	26-Nov-19	0.49	<1	4	9	<1	0.34
MPR-435	240 St. South of Abernethy Way	03-Dec-19	0.27	<1	<2	8	<1	0.28
MPR-435	240 St. South of Abernethy Way	10-Dec-19	0.39	<1	<2	7	<1	0.22
MPR-435	240 St. South of Abernethy Way	17-Dec-19	0.7	<1	2	7	<1	0.33
MPR-435	240 St. South of Abernethy Way	23-Dec-19	0.48	<1	NA	8	<1	0.31
MPR-435	240 St. South of Abernethy Way	30-Dec-19	0.51	<1	NA	7	<1	0.4
MPR-436	125 Ave. West of Ansell St.	03-Jan-19	0.77	<1	4	7	<1	0.42
MPR-436	125 Ave. West of Ansell St.	08-Jan-19	0.93	<1	<2	6	<1	0.44
MPR-436	125 Ave. West of Ansell St.	15-Jan-19	0.76	<1	84	7	<1	0.31
MPR-436	125 Ave. West of Ansell St.	22-Jan-19	1.18	<1	<2	6	<1	0.36
MPR-436	125 Ave. West of Ansell St.	29-Jan-19	1	<1	<2	6	<1	0.25
MPR-436	125 Ave. West of Ansell St.	05-Feb-19	0.68	<1	<2	5	<1	0.33
MPR-436	125 Ave. West of Ansell St.	12-Feb-19	1.01	<1	<2	5	<1	0.41
MPR-436	125 Ave. West of Ansell St.	19-Feb-19	0.85	<1	2	4	<1	0.31
MPR-436	125 Ave. West of Ansell St.	26-Feb-19	0.8	<1	<2	4	<1	0.39
MPR-436	125 Ave. West of Ansell St.	05-Mar-19	1.11	<1	<2	4	<1	0.33
MPR-436	125 Ave. West of Ansell St.	12-Mar-19	0.82	<1	<2	4	<1	0.26
MPR-436	125 Ave. West of Ansell St.	19-Mar-19	0.82	<1	<2	5	<1	0.36
MPR-436	125 Ave. West of Ansell St.	26-Mar-19	0.86	<1	<2	7	<1	0.52
MPR-436	125 Ave. West of Ansell St.	02-Apr-19	1.26	<1	<2	8	<1	0.33
MPR-436	125 Ave. West of Ansell St.	09-Apr-19	1.08	<1	2	8	<1	0.39
MPR-436	125 Ave. West of Ansell St.	16-Apr-19	1.1	<1	2	9	<1	0.3
MPR-436	125 Ave. West of Ansell St.	23-Apr-19	1.08	<1	<2	9	<1	0.28
MPR-436	125 Ave. West of Ansell St.	30-Apr-19	0.94	<1	<2	9	<1	0.28
MPR-436	125 Ave. West of Ansell St.	07-May-19	0.93	<1	<2	10	<1	0.3
MPR-436	125 Ave. West of Ansell St.	14-May-19	1.14	<1	2	11	<1	0.3
MPR-436	125 Ave. West of Ansell St.	21-May-19	0.77	<1	<2	14	<1	0.25
MPR-436	125 Ave. West of Ansell St.	28-May-19	0.82	<1	4	13	<1	0.33
MPR-436	125 Ave. West of Ansell St.	04-Jun-19	1.07	<1	<2	12	<1	0.39
MPR-436	125 Ave. West of Ansell St.	11-Jun-19	0.17	<1	8	14	<1	0.6
MPR-436	125 Ave. West of Ansell St.	18-Jun-19	0.72	<1	<2	15	<1	0.35
MPR-436	125 Ave. West of Ansell St.	25-Jun-19	0.73	<1	<2	15	<1	0.26
MPR-436	125 Ave. West of Ansell St.	02-Jul-19	0.8	<1	8	15	<1	0.18
MPR-436	125 Ave. West of Ansell St.	09-Jul-19	1.18	<1	8	16	<1	0.2
MPR-436	125 Ave. West of Ansell St.	16-Jul-19	1.07	<1	18	16	<1	0.27
MPR-436	125 Ave. West of Ansell St.	23-Jul-19	0.81	<1	<2	15	<1	0.28
MPR-436	125 Ave. West of Ansell St.	30-Jul-19	1.17	<1	2	16	<1	0.36
MPR-436	125 Ave. West of Ansell St.	06-Aug-19	0.89	<1	<2	18	<1	0.37

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-436	125 Ave. West of Ansell St.	13-Aug-19	0.96	<1	400	16	<1	0.32
MPR-436	125 Ave. West of Ansell St.	20-Aug-19	1.04	<1	10	16	<1	0.23
MPR-436	125 Ave. West of Ansell St.	27-Aug-19	1.22	<1	<2	16	<1	0.22
MPR-436	125 Ave. West of Ansell St.	03-Sep-19	0.83	<1	6	17	<1	0.3
MPR-436	125 Ave. West of Ansell St.	12-Sep-19	0.99	<1 ¹	LA	17	<1 ¹	0.28
MPR-436	125 Ave. West of Ansell St.	17-Sep-19	0.72	<1	36	16	<1	0.21
MPR-436	125 Ave. West of Ansell St.	24-Sep-19	0.59	<1	16	16	<1	0.73
MPR-436	125 Ave. West of Ansell St.	01-Oct-19	0.83	<1	<2	14	<1	0.37
MPR-436	125 Ave. West of Ansell St.	08-Oct-19	0.54	<1	10	14	<1	0.32
MPR-436	125 Ave. West of Ansell St.	15-Oct-19	0.65	<1	4	13	<1	0.27
MPR-436	125 Ave. West of Ansell St.	22-Oct-19	0.7	<1	4	14	<1	0.31
MPR-436	125 Ave. West of Ansell St.	29-Oct-19	1.16	<1	<2	10	<1	0.28
MPR-436	125 Ave. West of Ansell St.	05-Nov-19	0.72	<1	<2	10	<1	0.26
MPR-436	125 Ave. West of Ansell St.	12-Nov-19	0.74	<1	<2	10	<1	0.27
MPR-436	125 Ave. West of Ansell St.	19-Nov-19	0.31	<1	<2	10	<1	0.29
MPR-436	125 Ave. West of Ansell St.	26-Nov-19	0.53	<1	<2	9	<1	0.44
MPR-436	125 Ave. West of Ansell St.	03-Dec-19	0.47	<1	<2	7	<1	0.46
MPR-436	125 Ave. West of Ansell St.	10-Dec-19	0.49	<1	2	8	<1	0.24
MPR-436	125 Ave. West of Ansell St.	17-Dec-19	0.42	<1	<2	7	<1	0.34
MPR-436	125 Ave. West of Ansell St.	23-Dec-19	0.44	<1	NA	7	<1	0.27
MPR-436	125 Ave. West of Ansell St.	30-Dec-19	0.65	<1	NA	7	<1	0.26
MPR-437	248 St. @ 116 Ave.	03-Jan-19	0.66	<1	2	6	<1	0.35
MPR-437	248 St. @ 116 Ave.	08-Jan-19	1.01	<1	<2	6	<1	0.45
MPR-437	248 St. @ 116 Ave.	15-Jan-19	1.18	<1	<2	6	<1	0.29
MPR-437	248 St. @ 116 Ave.	22-Jan-19	1.12	<1	<2	6	<1	0.4
MPR-437	248 St. @ 116 Ave.	29-Jan-19	1.28	<1	<2	6	<1	0.28
MPR-437	248 St. @ 116 Ave.	05-Feb-19	0.98	<1	2	5	<1	0.33
MPR-437	248 St. @ 116 Ave.	12-Feb-19	0.91	<1	<2	4	<1	0.37
MPR-437	248 St. @ 116 Ave.	19-Feb-19	1.05	<1	<2	4	<1	0.33
MPR-437	248 St. @ 116 Ave.	26-Feb-19	1.13	<1	<2	4	<1	0.3
MPR-437	248 St. @ 116 Ave.	05-Mar-19	1.23	<1	<2	5	<1	0.41
MPR-437	248 St. @ 116 Ave.	12-Mar-19	0.93	<1	<2	4	<1	0.36
MPR-437	248 St. @ 116 Ave.	19-Mar-19	0.41	<1	<2	5	<1	0.35
MPR-437	248 St. @ 116 Ave.	26-Mar-19	0.86	<1	2	7	<1	0.58
MPR-437	248 St. @ 116 Ave.	02-Apr-19	0.69	<1	<2	8	<1	0.41
MPR-437	248 St. @ 116 Ave.	09-Apr-19	1.14	<1	<2	9	<1	0.3
MPR-437	248 St. @ 116 Ave.	16-Apr-19	1.15	<1	2	9	<1	0.35
MPR-437	248 St. @ 116 Ave.	23-Apr-19	0.89	<1	<2	9	<1	0.31
MPR-437	248 St. @ 116 Ave.	30-Apr-19	0.89	<1	2	9	<1	0.3

¹ MPN/100mL (Colilert test method)

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-437	248 St. @ 116 Ave.	07-May-19	0.97	<1	4	9	<1	0.41
MPR-437	248 St. @ 116 Ave.	14-May-19	0.89	<1	<2	11	<1	0.36
MPR-437	248 St. @ 116 Ave.	21-May-19	1	<1	<2	12	<1	0.31
MPR-437	248 St. @ 116 Ave.	28-May-19	0.99	<1	<2	12	<1	0.38
MPR-437	248 St. @ 116 Ave.	04-Jun-19	0.99	<1	<2	12	<1	0.36
MPR-437	248 St. @ 116 Ave.	11-Jun-19	0.42	<1	<2	14	<1	0.37
MPR-437	248 St. @ 116 Ave.	18-Jun-19	0.7	<1	<2	15	<1	0.28
MPR-437	248 St. @ 116 Ave.	25-Jun-19	1.3	<1	<2	16	<1	0.28
MPR-437	248 St. @ 116 Ave.	02-Jul-19	0.92	<1	<2	15	<1	0.28
MPR-437	248 St. @ 116 Ave.	09-Jul-19	1.05	<1	<2	16	<1	0.22
MPR-437	248 St. @ 116 Ave.	16-Jul-19	1.01	<1	2	16	<1	0.26
MPR-437	248 St. @ 116 Ave.	23-Jul-19	0.93	<1	<2	14	<1	0.28
MPR-437	248 St. @ 116 Ave.	30-Jul-19	1.1	<1	<2	14	<1	0.25
MPR-437	248 St. @ 116 Ave.	06-Aug-19	0.89	<1	2	20	<1	0.31
MPR-437	248 St. @ 116 Ave.	13-Aug-19	0.88	<1	<2	16	<1	0.24
MPR-437	248 St. @ 116 Ave.	20-Aug-19	0.92	<1	<2	16	<1	0.26
MPR-437	248 St. @ 116 Ave.	27-Aug-19	1.29	<1	<2	15	<1	0.27
MPR-437	248 St. @ 116 Ave.	03-Sep-19	1.12	<1	<2	16	<1	0.34
MPR-437	248 St. @ 116 Ave.	10-Sep-19	1.04	<1	<2	18	<1	0.2
MPR-437	248 St. @ 116 Ave.	17-Sep-19	0.91	<1	<2	16	<1	0.24
MPR-437	248 St. @ 116 Ave.	24-Sep-19	0.62	<1	<2	16	<1	0.29
MPR-437	248 St. @ 116 Ave.	01-Oct-19	0.83	<1	<2	15	<1	0.33
MPR-437	248 St. @ 116 Ave.	08-Oct-19	0.77	<1	12	13	<1	0.47
MPR-437	248 St. @ 116 Ave.	15-Oct-19	0.63	<1	<2	13	<1	0.27
MPR-437	248 St. @ 116 Ave.	22-Oct-19	0.91	<1	<2	14	<1	0.32
MPR-437	248 St. @ 116 Ave.	29-Oct-19	1.26	<1	<2	11	<1	0.29
MPR-437	248 St. @ 116 Ave.	05-Nov-19	0.92	<1	<2	10	<1	0.31
MPR-437	248 St. @ 116 Ave.	12-Nov-19	0.68	<1	<2	10	<1	0.25
MPR-437	248 St. @ 116 Ave.	19-Nov-19	0.75	<1	<2	9.7	<1	0.65
MPR-437	248 St. @ 116 Ave.	26-Nov-19	0.63	<1	<2	9	<1	0.64
MPR-437	248 St. @ 116 Ave.	03-Dec-19	0.7	<1	<2	7	<1	0.35
MPR-437	248 St. @ 116 Ave.	10-Dec-19	0.82	<1	<2	8	<1	0.26
MPR-437	248 St. @ 116 Ave.	17-Dec-19	0.55	<1	<2	7	<1	0.36
MPR-437	248 St. @ 116 Ave.	23-Dec-19	0.48	<1	NA	7	<1	0.27
MPR-437	248 St. @ 116 Ave.	30-Dec-19	0.78	<1	NA	7	<1	0.28
MPR-438	125 Ave. West off 256 St.	03-Jan-19	0.78	<1	<2	6	<1	0.33
MPR-438	125 Ave. West off 256 St.	08-Jan-19	1	<1	<2	6	<1	0.42
MPR-438	125 Ave. West off 256 St.	15-Jan-19	1.17	<1	<2	6	<1	0.37
MPR-438	125 Ave. West off 256 St.	22-Jan-19	0.51	<1	<2	6	<1	0.42

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-438	125 Ave. West off 256 St.	29-Jan-19	1.21	<1	2	6	<1	0.34
MPR-438	125 Ave. West off 256 St.	05-Feb-19	0.71	<1	2	5	<1	0.49
MPR-438	125 Ave. West off 256 St.	12-Feb-19	1.07	<1	<2	4	<1	0.53
MPR-438	125 Ave. West off 256 St.	19-Feb-19	0.92	<1	<2	4	<1	0.27
MPR-438	125 Ave. West off 256 St.	26-Feb-19	1.05	<1	<2	4	<1	0.29
MPR-438	125 Ave. West off 256 St.	05-Mar-19	1.11	<1	<2	5	<1	0.37
MPR-438	125 Ave. West off 256 St.	12-Mar-19	0.99	<1	<2	4	<1	0.39
MPR-438	125 Ave. West off 256 St.	19-Mar-19	0.78	<1	<2	6	<1	0.32
MPR-438	125 Ave. West off 256 St.	26-Mar-19	1.02	<1	<2	7	<1	0.55
MPR-438	125 Ave. West off 256 St.	02-Apr-19	0.62	<1	<2	12	<1	0.38
MPR-438	125 Ave. West off 256 St.	09-Apr-19	0.5	<1	<2	8	<1	0.35
MPR-438	125 Ave. West off 256 St.	16-Apr-19	0.78	<1	<2	8	<1	0.3
MPR-438	125 Ave. West off 256 St.	23-Apr-19	0.89	<1	<2	9	<1	0.3
MPR-438	125 Ave. West off 256 St.	30-Apr-19	1.07	<1	<2	9	<1	0.36
MPR-438	125 Ave. West off 256 St.	07-May-19	0.83	<1	<2	10	<1	0.36
MPR-438	125 Ave. West off 256 St.	14-May-19	0.41	<1	<2	12	<1	0.38
MPR-438	125 Ave. West off 256 St.	21-May-19	1.03	<1	<2	13	<1	0.31
MPR-438	125 Ave. West off 256 St.	28-May-19	0.85	<1	<2	12	<1	0.33
MPR-438	125 Ave. West off 256 St.	04-Jun-19	0.85	<1	<2	13	<1	0.32
MPR-438	125 Ave. West off 256 St.	11-Jun-19	0.41	<1	<2	13	<1	0.35
MPR-438	125 Ave. West off 256 St.	18-Jun-19	0.85	<1	<2	15	<1	0.38
MPR-438	125 Ave. West off 256 St.	25-Jun-19	1.09	<1	<2	15	<1	0.29
MPR-438	125 Ave. West off 256 St.	02-Jul-19	0.89	<1	8	15	<1	0.26
MPR-438	125 Ave. West off 256 St.	09-Jul-19	0.98	<1	<2	16	<1	0.18
MPR-438	125 Ave. West off 256 St.	16-Jul-19	0.96	<1	<2	17	<1	0.35
MPR-438	125 Ave. West off 256 St.	23-Jul-19	0.91	<1	<2	15	<1	0.26
MPR-438	125 Ave. West off 256 St.	30-Jul-19	1.04	<1	<2	15	<1	0.24
MPR-438	125 Ave. West off 256 St.	06-Aug-19	0.81	<1	<2	16	<1	0.28
MPR-438	125 Ave. West off 256 St.	13-Aug-19	0.84	<1	<2	17	<1	0.24
MPR-438	125 Ave. West off 256 St.	20-Aug-19	0.74	<1	<2	16	<1	0.33
MPR-438	125 Ave. West off 256 St.	27-Aug-19	1.01	<1	2	16	<1	0.35
MPR-438	125 Ave. West off 256 St.	03-Sep-19	1.04	<1	<2	16	<1	0.26
MPR-438	125 Ave. West off 256 St.	10-Sep-19	1.01	<1	<2	18	<1	0.28
MPR-438	125 Ave. West off 256 St.	17-Sep-19	0.8	<1	<2	17	<1	0.21
MPR-438	125 Ave. West off 256 St.	24-Sep-19	0.51	<1	2	16	<1	0.36
MPR-438	125 Ave. West off 256 St.	01-Oct-19	0.71	<1	2	15	<1	0.31
MPR-438	125 Ave. West off 256 St.	08-Oct-19	0.55	<1	<2	14	<1	0.43
MPR-438	125 Ave. West off 256 St.	15-Oct-19	0.68	<1	<2	13	<1	0.24
MPR-438	125 Ave. West off 256 St.	22-Oct-19	0.73	<1	<2	14	<1	0.35

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-438	125 Ave. West off 256 St.	29-Oct-19	0.77	<1	2	11	<1	0.34
MPR-438	125 Ave. West off 256 St.	05-Nov-19	0.79	<1	<2	9	<1	0.27
MPR-438	125 Ave. West off 256 St.	12-Nov-19	0.67	<1	<2	10	<1	0.22
MPR-438	125 Ave. West off 256 St.	19-Nov-19	0.55	<1	<2	10	<1	0.32
MPR-438	125 Ave. West off 256 St.	26-Nov-19	0.61	<1	<2	9	<1	0.36
MPR-438	125 Ave. West off 256 St.	03-Dec-19	0.46	<1	<2	8	<1	0.36
MPR-438	125 Ave. West off 256 St.	10-Dec-19	0.54	<1	<2	8	<1	0.26
MPR-438	125 Ave. West off 256 St.	17-Dec-19	0.49	<1	<2	7	<1	0.39
MPR-438	125 Ave. West off 256 St.	23-Dec-19	0.49	<1	NA	7	<1	0.28
MPR-438	125 Ave. West off 256 St.	30-Dec-19	0.77	<1	NA	7	<1	0.35
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	03-Jan-19	1.02	<1	<2	6	<1	0.44
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	08-Jan-19	0.66	<1	<2	6	<1	0.39
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	15-Jan-19	1.09	<1	2	6	<1	0.33
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	22-Jan-19	0.87	<1	<2	6	<1	0.37
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	29-Jan-19	1.11	<1	<2	6	<1	0.37
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	05-Feb-19	0.97	<1	<2	5	<1	0.4
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	12-Feb-19	0.82	<1	<2	4	<1	0.51
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	19-Feb-19	1.03	<1	LA	4	<1	0.32
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	26-Feb-19	0.93	<1	<2	3	<1	0.26
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	05-Mar-19	1.02	<1	<2	5	<1	0.39
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	12-Mar-19	0.87	<1	<2	3	<1	0.3
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	19-Mar-19	0.84	<1	2	5	<1	0.37
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	26-Mar-19	0.81	<1	<2	7	<1	0.44
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	02-Apr-19	1.41	<1	<2	8	<1	0.37
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	09-Apr-19	1.11	<1	<2	8	<1	1.1
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	16-Apr-19	0.95	<1	<2	10	<1	0.35
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	23-Apr-19	0.85	<1	<2	10	<1	0.32
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	30-Apr-19	0.67	<1	<2	10	<1	0.29
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	07-May-19	0.95	<1	<2	10	<1	0.34
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	14-May-19	1.29	<1	<2	12	<1	0.39
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	21-May-19	0.73	<1	4	14	<1	0.33
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	28-May-19	1.11	<1	<2	14	<1	0.42
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	04-Jun-19	0.62	<1	<2	12	<1	0.31
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	11-Jun-19	0.53	<1	<2	15	<1	0.42
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	18-Jun-19	1.26	<1	<2	15	<1	0.31
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	25-Jun-19	1.41	<1	<2	15	<1	0.3
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	02-Jul-19	0.52	<1	<2	15	<1	0.23
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	09-Jul-19	0.79	<1	6	16	<1	0.19
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	16-Jul-19	1.18	<1	8	16	<1	0.3

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	23-Jul-19	1.06	<1	<2	17	<1	0.25
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	30-Jul-19	1.14	<1	2	17	<1	0.24
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	06-Aug-19	0.91	<1	<2	20	<1	0.28
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	13-Aug-19	0.94	<1	<2	18	<1	0.27
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	20-Aug-19	0.52	<1	2	18	<1	0.23
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	27-Aug-19	1.1	<1	<2	16	<1	0.45
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	03-Sep-19	1.1	<1	<2	16	<1	0.3
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	10-Sep-19	1.13	<1	2	18	<1	0.23
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	17-Sep-19	0.61	<1	2	16	<1	0.25
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	24-Sep-19	0.75	<1	<2	16	<1	0.32
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	01-Oct-19	0.84	<1	2	15	<1	0.41
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	08-Oct-19	0.17	<1	<2	14	<1	0.39
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	15-Oct-19	0.41	<1	6	13	<1	0.29
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	22-Oct-19	0.29	<1	2	14	<1	1.5
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	29-Oct-19	0.94	<1	<2	11	<1	0.34
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	05-Nov-19	1.09	<1	<2	10	<1	0.28
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	12-Nov-19	1.14	<1	<2	10	<1	0.24
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	19-Nov-19	0.48	<1	4	10	<1	0.32
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	26-Nov-19	0.77	<1	<2	9	<1	0.31
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	03-Dec-19	0.57	<1	<2	7	<1	0.33
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	10-Dec-19	0.95	<1	<2	7	<1	0.26
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	17-Dec-19	0.85	<1	<2	7	<1	0.29
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	23-Dec-19	0.87	<1	NA	7	<1	0.28
MPR-439	130 Ave. @ 251A St. (W. of 256 St.)	30-Dec-19	0.53	<1	NA	7	<1	0.25
MPR-440	232 St. @ 117 Ave.	03-Jan-19	0.28	<1	<2	6	<1	0.37
MPR-440	232 St. @ 117 Ave.	08-Jan-19	0.66	<1	<2	5	<1	0.54
MPR-440	232 St. @ 117 Ave.	15-Jan-19	0.83	<1	<2	5	<1	0.38
MPR-440	232 St. @ 117 Ave.	22-Jan-19	0.67	<1	<2	6	<1	0.42
MPR-440	232 St. @ 117 Ave.	29-Jan-19	0.72	<1	<2	5	<1	0.3
MPR-440	232 St. @ 117 Ave.	05-Feb-19	0.82	<1	<2	5	<1	0.46
MPR-440	232 St. @ 117 Ave.	12-Feb-19	1	<1	<2	4	<1	0.5
MPR-440	232 St. @ 117 Ave.	19-Feb-19	0.93	<1	2	4	<1	0.41
MPR-440	232 St. @ 117 Ave.	26-Feb-19	1.04	<1	<2	4	<1	0.35
MPR-440	232 St. @ 117 Ave.	05-Mar-19	0.78	<1	<2	4	<1	0.46
MPR-440	232 St. @ 117 Ave.	12-Mar-19	1.08	<1	<2	5	<1	0.33
MPR-440	232 St. @ 117 Ave.	19-Mar-19	0.61	<1	<2	6	<1	0.45
MPR-440	232 St. @ 117 Ave.	26-Mar-19	0.5	<1	<2	6	<1	0.6
MPR-440	232 St. @ 117 Ave.	02-Apr-19	0.91	<1	<2	7	<1	0.52
MPR-440	232 St. @ 117 Ave.	09-Apr-19	0.83	<1	<2	8	<1	0.37

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-440	232 St. @ 117 Ave.	16-Apr-19	0.75	<1	2	7	<1	0.46
MPR-440	232 St. @ 117 Ave.	23-Apr-19	0.99	<1	<2	8	<1	0.43
MPR-440	232 St. @ 117 Ave.	30-Apr-19	0.85	<1	<2	8	<1	0.33
MPR-440	232 St. @ 117 Ave.	07-May-19	0.84	<1	<2	9	<1	0.54
MPR-440	232 St. @ 117 Ave.	14-May-19	0.8	<1	<2	10	<1	0.29
MPR-440	232 St. @ 117 Ave.	21-May-19	0.75	<1	<2	11	<1	0.28
MPR-440	232 St. @ 117 Ave.	28-May-19	0.83	<1	<2	10	<1	0.39
MPR-440	232 St. @ 117 Ave.	04-Jun-19	0.96	<1	<2	11	<1	0.39
MPR-440	232 St. @ 117 Ave.	11-Jun-19	0.89	<1	<2	11	<1	0.55
MPR-440	232 St. @ 117 Ave.	18-Jun-19	0.8	<1	<2	12	<1	0.54
MPR-440	232 St. @ 117 Ave.	25-Jun-19	0.74	<1	<2	13	<1	0.26
MPR-440	232 St. @ 117 Ave.	02-Jul-19	0.54	<1	<2	13	<1	0.29
MPR-440	232 St. @ 117 Ave.	09-Jul-19	0.64	<1	2	13	<1	0.22
MPR-440	232 St. @ 117 Ave.	16-Jul-19	0.94	<1	12	13	<1	0.27
MPR-440	232 St. @ 117 Ave.	23-Jul-19	0.77	<1	<2	14	<1	0.28
MPR-440	232 St. @ 117 Ave.	30-Jul-19	1.01	<1	4	14	<1	0.28
MPR-440	232 St. @ 117 Ave.	06-Aug-19	0.67	<1	<2	16	<1	0.32
MPR-440	232 St. @ 117 Ave.	13-Aug-19	0.79	<1	2	15	<1	0.36
MPR-440	232 St. @ 117 Ave.	20-Aug-19	0.65	<1	<2	15	<1	0.26
MPR-440	232 St. @ 117 Ave.	27-Aug-19	0.61	<1	<2	15	<1	0.29
MPR-440	232 St. @ 117 Ave.	03-Sep-19	0.82	<1	<2	16	<1	0.46
MPR-440	232 St. @ 117 Ave.	10-Sep-19	0.91	<1	<2	16	<1	0.17
MPR-440	232 St. @ 117 Ave.	17-Sep-19	0.69	<1	<2	15	<1	0.37
MPR-440	232 St. @ 117 Ave.	24-Sep-19	0.6	<1	2	14	<1	0.41
MPR-440	232 St. @ 117 Ave.	01-Oct-19	0.75	<1	<2	13	<1	0.42
MPR-440	232 St. @ 117 Ave.	08-Oct-19	0.69	<1	<2	13	<1	0.4
MPR-440	232 St. @ 117 Ave.	15-Oct-19	0.63	<1	6	12	<1	0.28
MPR-440	232 St. @ 117 Ave.	22-Oct-19	0.7	<1	<2	12	<1	0.48
MPR-440	232 St. @ 117 Ave.	29-Oct-19	0.65	<1	<2	9	<1	0.32
MPR-440	232 St. @ 117 Ave.	05-Nov-19	0.91	<1	<2	9	<1	0.33
MPR-440	232 St. @ 117 Ave.	12-Nov-19	0.73	<1	<2	9	<1	0.27
MPR-440	232 St. @ 117 Ave.	19-Nov-19	0.89	<1	<2	9.5	<1	0.63
MPR-440	232 St. @ 117 Ave.	26-Nov-19	0.65	<1	<2	8	<1	0.37
MPR-440	232 St. @ 117 Ave.	03-Dec-19	0.56	<1	<2	7	<1	0.37
MPR-440	232 St. @ 117 Ave.	10-Dec-19	0.79	<1	<2	7	<1	0.3
MPR-440	232 St. @ 117 Ave.	17-Dec-19	0.76	<1	<2	7	<1	0.4
MPR-440	232 St. @ 117 Ave.	23-Dec-19	0.76	<1	NA	7	<1	0.3
MPR-440	232 St. @ 117 Ave.	30-Dec-19	0.94	<1	NA	6	<1	0.28
MPR-441	132 Ave. @ Cedar Way	03-Jan-19	0.07	<1	22	6	<1	2.3

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-441	132 Ave. @ Cedar Way	08-Jan-19	0.81	<1	<2	6	<1	0.5
MPR-441	132 Ave. @ Cedar Way	15-Jan-19	0.8	<1	6	6	<1	0.36
MPR-441	132 Ave. @ Cedar Way	22-Jan-19	0.8	<1	<2	6	<1	0.45
MPR-441	132 Ave. @ Cedar Way	29-Jan-19	0.57	<1	<2	6	<1	0.37
MPR-441	132 Ave. @ Cedar Way	05-Feb-19	0.89	<1	<2	5	<1	0.45
MPR-441	132 Ave. @ Cedar Way	12-Feb-19	0.9	<1	<2	4	<1	0.64
MPR-441	132 Ave. @ Cedar Way	19-Feb-19	0.79	<1	2	4	<1	0.32
MPR-441	132 Ave. @ Cedar Way	26-Feb-19	0.84	<1	<2	4	<1	0.29
MPR-441	132 Ave. @ Cedar Way	05-Mar-19	0.78	<1	<2	4	<1	0.3
MPR-441	132 Ave. @ Cedar Way	12-Mar-19	0.73	<1	4	4	<1	0.23
MPR-441	132 Ave. @ Cedar Way	19-Mar-19	0.71	<1	<2	5	<1	0.41
MPR-441	132 Ave. @ Cedar Way	26-Mar-19	0.59	<1	<2	7	<1	0.47
MPR-441	132 Ave. @ Cedar Way	02-Apr-19	0.66	<1	<2	7	<1	0.38
MPR-441	132 Ave. @ Cedar Way	09-Apr-19	1.25	<1	2	8	<1	0.47
MPR-441	132 Ave. @ Cedar Way	16-Apr-19	0.44	<1	<2	8	<1	0.3
MPR-441	132 Ave. @ Cedar Way	23-Apr-19	0.59	<1	<2	9	<1	0.37
MPR-441	132 Ave. @ Cedar Way	30-Apr-19	0.61	<1	<2	8	<1	0.35
MPR-441	132 Ave. @ Cedar Way	07-May-19	0.77	<1	<2	10	<1	0.42
MPR-441	132 Ave. @ Cedar Way	14-May-19	0.67	<1	<2	11	<1	0.31
MPR-441	132 Ave. @ Cedar Way	21-May-19	0.67	<1	<2	11	<1	0.31
MPR-441	132 Ave. @ Cedar Way	28-May-19	0.75	<1	<2	11	<1	0.38
MPR-441	132 Ave. @ Cedar Way	04-Jun-19	0.55	<1	<2	12	<1	0.54
MPR-441	132 Ave. @ Cedar Way	11-Jun-19	0.29	<1	<2	12	<1	0.51
MPR-441	132 Ave. @ Cedar Way	18-Jun-19	0.64	<1	2	15	<1	0.34
MPR-441	132 Ave. @ Cedar Way	25-Jun-19	0.59	<1	6	14	<1	0.26
MPR-441	132 Ave. @ Cedar Way	02-Jul-19	0.69	<1	<2	14	<1	0.42
MPR-441	132 Ave. @ Cedar Way	09-Jul-19	0.83	<1	<2	14	<1	0.2
MPR-441	132 Ave. @ Cedar Way	16-Jul-19	0.93	<1	<2	15	<1	0.3
MPR-441	132 Ave. @ Cedar Way	23-Jul-19	0.66	<1	<2	15	<1	0.3
MPR-441	132 Ave. @ Cedar Way	30-Jul-19	0.86	<1	<2	16	<1	0.6
MPR-441	132 Ave. @ Cedar Way	06-Aug-19	0.58	<1	6	17	<1	0.39
MPR-441	132 Ave. @ Cedar Way	13-Aug-19	0.87	<1	<2	16	<1	0.27
MPR-441	132 Ave. @ Cedar Way	20-Aug-19	0.76	<1	<2	16	<1	0.22
MPR-441	132 Ave. @ Cedar Way	27-Aug-19	0.69	<1	<2	16	<1	0.42
MPR-441	132 Ave. @ Cedar Way	03-Sep-19	0.84	<1	2	16	<1	0.3
MPR-441	132 Ave. @ Cedar Way	10-Sep-19	0.71	<1	<2	17	<1	0.22
MPR-441	132 Ave. @ Cedar Way	17-Sep-19	0.52	<1	<2	15	<1	0.35
MPR-441	132 Ave. @ Cedar Way	24-Sep-19	0.44	<1	<2	15	<1	0.42
MPR-441	132 Ave. @ Cedar Way	01-Oct-19	0.41	<1	<2	14	<1	0.39

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-441	132 Ave. @ Cedar Way	08-Oct-19	0.61	<1	<2	14	<1	0.32
MPR-441	132 Ave. @ Cedar Way	15-Oct-19	0.37	<1	<2	12	<1	0.32
MPR-441	132 Ave. @ Cedar Way	22-Oct-19	0.06	<1	4	11	<1	0.49
MPR-441	132 Ave. @ Cedar Way	29-Oct-19	0.7	<1	<2	10	<1	0.29
MPR-441	132 Ave. @ Cedar Way	05-Nov-19	0.8	<1	<2	9	<1	0.27
MPR-441	132 Ave. @ Cedar Way	12-Nov-19	0.69	<1	<2	9	<1	0.26
MPR-441	132 Ave. @ Cedar Way	19-Nov-19	0.64	<1	2	9.7	<1	0.55
MPR-441	132 Ave. @ Cedar Way	26-Nov-19	0.68	<1	<2	8	<1	0.45
MPR-441	132 Ave. @ Cedar Way	03-Dec-19	0.71	<1	<2	7	<1	0.36
MPR-441	132 Ave. @ Cedar Way	10-Dec-19	0.73	<1	<2	8	<1	0.28
MPR-441	132 Ave. @ Cedar Way	17-Dec-19	0.49	<1	2	7	<1	0.29
MPR-441	132 Ave. @ Cedar Way	23-Dec-19	0.75	<1	NA	6	<1	0.33
MPR-441	132 Ave. @ Cedar Way	30-Dec-19	0.89	<1	NA	7	<1	0.26
MPR-442	Princess St. @ Ditton St.	03-Jan-19	0.63	<1	<2	6	<1	0.36
MPR-442	Princess St. @ Ditton St.	08-Jan-19	0.44	<1	26	9	<1	0.33
MPR-442	Princess St. @ Ditton St.	15-Jan-19	0.72	<1	2	6	<1	0.37
MPR-442	Princess St. @ Ditton St.	22-Jan-19	0.68	<1	<2	6	<1	0.38
MPR-442	Princess St. @ Ditton St.	29-Jan-19	0.76	<1	<2	6	<1	0.3
MPR-442	Princess St. @ Ditton St.	05-Feb-19	0.97	<1	<2	4	<1	0.31
MPR-442	Princess St. @ Ditton St.	12-Feb-19	0.89	<1	<2	4	<1	0.44
MPR-442	Princess St. @ Ditton St.	19-Feb-19	0.77	<1	<2	4	<1	0.32
MPR-442	Princess St. @ Ditton St.	26-Feb-19	0.61	<1	<2	4	<1	0.28
MPR-442	Princess St. @ Ditton St.	05-Mar-19	0.7	<1	<2	5	<1	0.28
MPR-442	Princess St. @ Ditton St.	12-Mar-19	0.61	<1	<2	6	<1	0.35
MPR-442	Princess St. @ Ditton St.	19-Mar-19	0.58	<1	<2	6	<1	0.38
MPR-442	Princess St. @ Ditton St.	26-Mar-19	0.58	<1	<2	7	<1	0.53
MPR-442	Princess St. @ Ditton St.	02-Apr-19	1.03	<1	<2	8	<1	0.34
MPR-442	Princess St. @ Ditton St.	09-Apr-19	0.68	<1	<2	8	<1	0.32
MPR-442	Princess St. @ Ditton St.	16-Apr-19	0.65	<1	<2	9	<1	0.29
MPR-442	Princess St. @ Ditton St.	23-Apr-19	0.69	<1	<2	9	<1	0.3
MPR-442	Princess St. @ Ditton St.	30-Apr-19	0.65	<1	<2	9	<1	0.29
MPR-442	Princess St. @ Ditton St.	07-May-19	0.67	<1	<2	10	<1	0.38
MPR-442	Princess St. @ Ditton St.	14-May-19	1.04	<1	24	12	<1	0.58
MPR-442	Princess St. @ Ditton St.	21-May-19	0.62	<1	<2	12	<1	0.27
MPR-442	Princess St. @ Ditton St.	28-May-19	0.64	<1	<2	12	<1	0.43
MPR-442	Princess St. @ Ditton St.	04-Jun-19	0.65	<1	<2	13	<1	0.4
MPR-442	Princess St. @ Ditton St.	11-Jun-19	0.1	<1	6	12	<1	0.41
MPR-442	Princess St. @ Ditton St.	18-Jun-19	0.75	<1	2	14	<1	0.3
MPR-442	Princess St. @ Ditton St.	25-Jun-19	0.76	<1	<2	15	<1	0.24

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-442	Princess St. @ Ditton St.	02-Jul-19	0.63	<1	32	15	<1	0.27
MPR-442	Princess St. @ Ditton St.	09-Jul-19	0.48	<1	8	15	<1	0.23
MPR-442	Princess St. @ Ditton St.	16-Jul-19	0.71	<1	6	16	<1	0.25
MPR-442	Princess St. @ Ditton St.	23-Jul-19	0.71	<1	140	15	<1	4.1
MPR-442	Princess St. @ Ditton St.	30-Jul-19	0.78	<1	4	15	<1	0.22
MPR-442	Princess St. @ Ditton St.	06-Aug-19	0.54	<1	<2	17	<1	0.37
MPR-442	Princess St. @ Ditton St.	13-Aug-19	0.67	<1	6	17	<1	0.29
MPR-442	Princess St. @ Ditton St.	20-Aug-19	0.65	<1	<2	17	<1	0.29
MPR-442	Princess St. @ Ditton St.	27-Aug-19	0.65	<1	2	17	<1	0.43
MPR-442	Princess St. @ Ditton St.	03-Sep-19	0.69	<1	10	17	<1	0.37
MPR-442	Princess St. @ Ditton St.	10-Sep-19	0.65	<1	6	17	<1	0.2
MPR-442	Princess St. @ Ditton St.	17-Sep-19	0.48	<1	4	16	<1	0.27
MPR-442	Princess St. @ Ditton St.	24-Sep-19	0.3	<1	12	16	<1	0.43
MPR-442	Princess St. @ Ditton St.	01-Oct-19	0.41	<1	6	15	<1	0.46
MPR-442	Princess St. @ Ditton St.	08-Oct-19	0.42	<1	<2	14	<1	0.3
MPR-442	Princess St. @ Ditton St.	15-Oct-19	0.4	<1	<2	13	<1	0.28
MPR-442	Princess St. @ Ditton St.	22-Oct-19	0.41	<1	2	13	<1	0.47
MPR-442	Princess St. @ Ditton St.	29-Oct-19	0.45	<1	<2	12	<1	0.31
MPR-442	Princess St. @ Ditton St.	05-Nov-19	0.39	<1	<2	10	<1	0.3
MPR-442	Princess St. @ Ditton St.	12-Nov-19	0.35	<1	<2	11	<1	0.28
MPR-442	Princess St. @ Ditton St.	19-Nov-19	0.37	<1	<2	10.5	<1	0.53
MPR-442	Princess St. @ Ditton St.	26-Nov-19	0.37	<1	<2	9	<1	0.98
MPR-442	Princess St. @ Ditton St.	03-Dec-19	0.33	<1	1700	8	<1	0.35
MPR-442	Princess St. @ Ditton St.	10-Dec-19	0.43	<1	<2	9	<1	0.23
MPR-442	Princess St. @ Ditton St.	17-Dec-19	0.43	<1	<2	8	<1	0.32
MPR-442	Princess St. @ Ditton St.	23-Dec-19	0.42	<1	NA	8	<1	0.25
MPR-442	Princess St. @ Ditton St.	30-Dec-19	0.53	<1	NA	8	<1	0.33
MPR-443	216 St. @ Donovan	03-Jan-19	0.53	<1	<2	7	<1	2.3
MPR-443	216 St. @ Donovan	08-Jan-19	0.6	<1	<2	7	<1	0.35
MPR-443	216 St. @ Donovan	15-Jan-19	0.77	<1	<2	6	<1	0.33
MPR-443	216 St. @ Donovan	22-Jan-19	0.18	<1	4	7	<1	0.35
MPR-443	216 St. @ Donovan	29-Jan-19	0.43	<1	2	7	<1	0.34
MPR-443	216 St. @ Donovan	05-Feb-19	0.88	<1	<2	5	<1	0.36
MPR-443	216 St. @ Donovan	12-Feb-19	0.55	<1	<2	5	<1	0.43
MPR-443	216 St. @ Donovan	19-Feb-19	0.5	<1	<2	4	<1	0.36
MPR-443	216 St. @ Donovan	26-Feb-19	0.66	<1	<2	4	<1	0.27
MPR-443	216 St. @ Donovan	05-Mar-19	0.7	<1	<2	5	<1	1.8
MPR-443	216 St. @ Donovan	12-Mar-19	0.44	<1	<2	5	<1	0.25
MPR-443	216 St. @ Donovan	19-Mar-19	0.5	<1	<2	6	<1	0.33

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-443	216 St. @ Donovan	26-Mar-19	0.41	<1	<2	7	<1	0.72
MPR-443	216 St. @ Donovan	02-Apr-19	0.41	<1	<2	9	<1	0.35
MPR-443	216 St. @ Donovan	09-Apr-19	0.69	<1	<2	8	<1	0.34
MPR-443	216 St. @ Donovan	16-Apr-19	0.42	<1	<2	9	<1	0.3
MPR-443	216 St. @ Donovan	23-Apr-19	0.47	<1	<2	10	<1	0.32
MPR-443	216 St. @ Donovan	30-Apr-19	0.36	<1	<2	10	<1	0.27
MPR-443	216 St. @ Donovan	07-May-19	0.53	<1	<2	11	<1	0.34
MPR-443	216 St. @ Donovan	14-May-19	0.72	<1	<2	13	<1	0.26
MPR-443	216 St. @ Donovan	21-May-19	0.45	<1	<2	12	<1	0.26
MPR-443	216 St. @ Donovan	28-May-19	0.57	<1	<2	13	<1	0.56
MPR-443	216 St. @ Donovan	04-Jun-19	0.58	<1	<2	12	<1	0.41
MPR-443	216 St. @ Donovan	11-Jun-19	0.17	<1	4	13	<1	0.91
MPR-443	216 St. @ Donovan	18-Jun-19	0.55	<1	4	13	<1	0.36
MPR-443	216 St. @ Donovan	25-Jun-19	0.28	<1	<2	14	<1	0.22
MPR-443	216 St. @ Donovan	02-Jul-19	0.57	<1	10	14	<1	0.32
MPR-443	216 St. @ Donovan	09-Jul-19	0.74	<1	<2	15	<1	0.27
MPR-443	216 St. @ Donovan	16-Jul-19	0.66	<1	<2	15	<1	0.36
MPR-443	216 St. @ Donovan	23-Jul-19	0.67	<1	<2	15	<1	0.28
MPR-443	216 St. @ Donovan	30-Jul-19	0.81	<1	<2	16	<1	0.26
MPR-443	216 St. @ Donovan	06-Aug-19	0.61	<1	8	16	<1	0.27
MPR-443	216 St. @ Donovan	13-Aug-19	0.87	<1	6	16	<1	0.38
MPR-443	216 St. @ Donovan	20-Aug-19	0.75	<1	<2	16	<1	0.27
MPR-443	216 St. @ Donovan	27-Aug-19	0.88	<1	<2	16	<1	0.47
MPR-443	216 St. @ Donovan	03-Sep-19	0.82	<1	2	17	<1	0.38
MPR-443	216 St. @ Donovan	10-Sep-19	0.84	<1	<2	17	<1	0.19
MPR-443	216 St. @ Donovan	17-Sep-19	0.6	<1	2	15	<1	0.29
MPR-443	216 St. @ Donovan	24-Sep-19	0.47	<1	<2	15	<1	0.43
MPR-443	216 St. @ Donovan	01-Oct-19	0.52	<1	<2	15	<1	0.35
MPR-443	216 St. @ Donovan	08-Oct-19	0.35	<1	<2	14	<1	0.42
MPR-443	216 St. @ Donovan	15-Oct-19	0.56	<1	<2	13	<1	0.28
MPR-443	216 St. @ Donovan	22-Oct-19	0.24	<1	<2	13	<1	0.48
MPR-443	216 St. @ Donovan	29-Oct-19	0.32	<1	2	12	<1	0.37
MPR-443	216 St. @ Donovan	05-Nov-19	0.41	<1	<2	10	<1	0.33
MPR-443	216 St. @ Donovan	12-Nov-19	0.35	<1	<2	10	<1	0.26
MPR-443	216 St. @ Donovan	19-Nov-19	0.2	<1	<2	10	<1	0.56
MPR-443	216 St. @ Donovan	26-Nov-19	0.28	<1	2	9	<1	0.37
MPR-443	216 St. @ Donovan	03-Dec-19	0.35	<1	<2	7	<1	0.34
MPR-443	216 St. @ Donovan	10-Dec-19	0.35	<1	2	8	<1	0.25
MPR-443	216 St. @ Donovan	17-Dec-19	0.26	<1	<2	8	<1	0.32

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/ 100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-443	216 St. @ Donovan	23-Dec-19	0.37	<1	NA	7	<1	0.25
MPR-443	216 St. @ Donovan	30-Dec-19	0.46	<1	NA	7	<1	0.33
MPR-444	Foreman Drive @ 232nd St.	03-Jan-19	0.65	<1	<2	6	<1	0.36
MPR-444	Foreman Drive @ 232nd St.	08-Jan-19	0.79	<1	<2	6	<1	0.4
MPR-444	Foreman Drive @ 232nd St.	15-Jan-19	0.73	<1	<2	6	<1	0.3
MPR-444	Foreman Drive @ 232nd St.	22-Jan-19	0.52	<1	<2	7	<1	0.36
MPR-444	Foreman Drive @ 232nd St.	29-Jan-19	0.95	<1	<2	5	<1	0.26
MPR-444	Foreman Drive @ 232nd St.	05-Feb-19	0.94	<1	<2	5	<1	0.32
MPR-444	Foreman Drive @ 232nd St.	12-Feb-19	0.84	<1	<2	4	<1	0.4
MPR-444	Foreman Drive @ 232nd St.	19-Feb-19	0.78	<1	<2	4	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	26-Feb-19	0.51	<1	<2	4	<1	0.26
MPR-444	Foreman Drive @ 232nd St.	05-Mar-19	0.51	<1	<2	4	<1	0.31
MPR-444	Foreman Drive @ 232nd St.	12-Mar-19	0.42	<1	<2	4	<1	0.26
MPR-444	Foreman Drive @ 232nd St.	19-Mar-19	0.73	<1	<2	6	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	26-Mar-19	0.48	<1	<2	8	<1	0.54
MPR-444	Foreman Drive @ 232nd St.	02-Apr-19	0.67	<1	<2	8	<1	0.34
MPR-444	Foreman Drive @ 232nd St.	09-Apr-19	1.06	<1	<2	9	<1	0.36
MPR-444	Foreman Drive @ 232nd St.	16-Apr-19	0.59	<1	<2	8	<1	0.27
MPR-444	Foreman Drive @ 232nd St.	07-May-19	0.09	<1	2800	13	<1	0.48
MPR-444	Foreman Drive @ 232nd St.	14-May-19	0.45	<1	160	14	<1	0.71
MPR-444	Foreman Drive @ 232nd St.	21-May-19	0.09	<1	46	12	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	28-May-19	0.49	<1	<2	12	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	04-Jun-19	0.26	<1	<2	14	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	11-Jun-19	0.06	<1	<2	14	<1	0.31
MPR-444	Foreman Drive @ 232nd St.	18-Jun-19	0.31	<1	<2	15	<1	0.26
MPR-444	Foreman Drive @ 232nd St.	25-Jun-19	0.86	<1	<2	14	<1	0.21
MPR-444	Foreman Drive @ 232nd St.	02-Jul-19	0.69	<1	<2	14	<1	0.22
MPR-444	Foreman Drive @ 232nd St.	09-Jul-19	0.77	<1	<2	15	<1	0.2
MPR-444	Foreman Drive @ 232nd St.	16-Jul-19	0.42	<1	<2	16	<1	0.2
MPR-444	Foreman Drive @ 232nd St.	23-Jul-19	0.36	<1	2	17	<1	0.43
MPR-444	Foreman Drive @ 232nd St.	30-Jul-19	0.48	<1	<2	17	<1	0.86
MPR-444	Foreman Drive @ 232nd St.	06-Aug-19	0.56	<1	<2	18	<1	0.3
MPR-444	Foreman Drive @ 232nd St.	13-Aug-19	0.56	<1	<2	17	<1	0.26
MPR-444	Foreman Drive @ 232nd St.	20-Aug-19	0.6	<1	<2	17	<1	0.23
MPR-444	Foreman Drive @ 232nd St.	27-Aug-19	0.35	<1	<2	16	<1	0.31
MPR-444	Foreman Drive @ 232nd St.	03-Sep-19	0.85	<1	<2	17	<1	0.27
MPR-444	Foreman Drive @ 232nd St.	10-Sep-19	0.66	<1	<2	17	<1	0.22
MPR-444	Foreman Drive @ 232nd St.	17-Sep-19	0.23	<1	10	16	<1	0.24
MPR-444	Foreman Drive @ 232nd St.	24-Sep-19	0.21	<1	16	15	<1	0.3

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-444	Foreman Drive @ 232nd St.	01-Oct-19	0.75	<1	<2	13	<1	0.3
MPR-444	Foreman Drive @ 232nd St.	08-Oct-19	0.36	<1	2	14	<1	0.31
MPR-444	Foreman Drive @ 232nd St.	15-Oct-19	0.56	<1	<2	12	<1	0.32
MPR-444	Foreman Drive @ 232nd St.	22-Oct-19	0.82	<1	<2	12	<1	0.51
MPR-444	Foreman Drive @ 232nd St.	29-Oct-19	1.31	<1	2	9	<1	0.36
MPR-444	Foreman Drive @ 232nd St.	05-Nov-19	1	<1	<2	9	<1	0.3
MPR-444	Foreman Drive @ 232nd St.	12-Nov-19	0.65	<1	<2	10	<1	2
MPR-444	Foreman Drive @ 232nd St.	19-Nov-19	0.68	<1	<2	10	<1	0.62
MPR-444	Foreman Drive @ 232nd St.	26-Nov-19	0.81	<1	<2	9	<1	0.35
MPR-444	Foreman Drive @ 232nd St.	03-Dec-19	0.86	<1	<2	7	<1	0.28
MPR-444	Foreman Drive @ 232nd St.	10-Dec-19	0.79	<1	<2	8	<1	0.25
MPR-444	Foreman Drive @ 232nd St.	17-Dec-19	0.68	<1	<2	7	<1	0.36
MPR-444	Foreman Drive @ 232nd St.	23-Dec-19	0.49	<1	NA	7	<1	0.29
MPR-444	Foreman Drive @ 232nd St.	30-Dec-19	1.15	<1	NA	7	<1	0.27
MPR-445	127th Ave. and 266 St.	03-Jan-19	0.71	<1	2	6	<1	0.34
MPR-445	127th Ave. and 266 St.	08-Jan-19	0.84	<1	<2	6	<1	0.39
MPR-445	127th Ave. and 266 St.	15-Jan-19	0.76	<1	<2	7	<1	0.33
MPR-445	127th Ave. and 266 St.	22-Jan-19	0.67	<1	<2	6	<1	0.45
MPR-445	127th Ave. and 266 St.	29-Jan-19	0.93	<1	2	6	<1	0.31
MPR-445	127th Ave. and 266 St.	05-Feb-19	1.11	<1	8	4	<1	0.38
MPR-445	127th Ave. and 266 St.	12-Feb-19	0.88	<1	<2	5	<1	0.41
MPR-445	127th Ave. and 266 St.	19-Feb-19	0.79	<1	<2	4	<1	0.32
MPR-445	127th Ave. and 266 St.	26-Feb-19	0.79	<1	<2	4	<1	0.26
MPR-445	127th Ave. and 266 St.	05-Mar-19	0.85	<1	<2	5	<1	0.93
MPR-445	127th Ave. and 266 St.	12-Mar-19	0.84	<1	<2	4	<1	0.3
MPR-445	127th Ave. and 266 St.	19-Mar-19	0.74	<1	2	5	<1	0.35
MPR-445	127th Ave. and 266 St.	26-Mar-19	0.86	<1	<2	7	<1	0.49
MPR-445	127th Ave. and 266 St.	02-Apr-19	0.99	<1	<2	8	<1	0.35
MPR-445	127th Ave. and 266 St.	09-Apr-19	0.34	<1	38	9	<1	0.36
MPR-445	127th Ave. and 266 St.	16-Apr-19	0.72	<1	<2	9	<1	0.31
MPR-445	127th Ave. and 266 St.	23-Apr-19	0.85	<1	<2	9	<1	0.31
MPR-445	127th Ave. and 266 St.	30-Apr-19	0.83	<1	<2	10	<1	0.31
MPR-445	127th Ave. and 266 St.	07-May-19	1.11	<1	<2	10	<1	0.4
MPR-445	127th Ave. and 266 St.	14-May-19	0.9	<1	<2	12	<1	0.35
MPR-445	127th Ave. and 266 St.	21-May-19	0.64	<1	6	12	<1	0.28
MPR-445	127th Ave. and 266 St.	28-May-19	0.69	<1	<2	13	<1	0.32
MPR-445	127th Ave. and 266 St.	04-Jun-19	0.67	<1	<2	13	<1	0.39
MPR-445	127th Ave. and 266 St.	11-Jun-19	0.37	<1	<2	14	<1	0.36
MPR-445	127th Ave. and 266 St.	18-Jun-19	0.13	<1	760	14	<1	0.29

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-445	127th Ave. and 266 St.	25-Jun-19	0.62	<1	4	15	<1	0.41
MPR-445	127th Ave. and 266 St.	02-Jul-19	0.72	<1	<2	14	<1	0.19
MPR-445	127th Ave. and 266 St.	09-Jul-19	0.92	<1	<2	15	<1	0.2
MPR-445	127th Ave. and 266 St.	16-Jul-19	0.12	<1	570	15	<1	0.32
MPR-445	127th Ave. and 266 St.	23-Jul-19	0.65	<1	<2	16	<1	0.34
MPR-445	127th Ave. and 266 St.	30-Jul-19	1.24	<1	<2	16	<1	0.4
MPR-445	127th Ave. and 266 St.	06-Aug-19	0.59	<1	<2	18	<1	0.26
MPR-445	127th Ave. and 266 St.	13-Aug-19	0.58	<1	<2	17	<1	0.28
MPR-445	127th Ave. and 266 St.	20-Aug-19	0.28	<1	830	19	<1	0.3
MPR-445	127th Ave. and 266 St.	27-Aug-19	0.73	<1	<2	17	<1	0.34
MPR-445	127th Ave. and 266 St.	03-Sep-19	0.66	<1	<2	18	<1	0.27
MPR-445	127th Ave. and 266 St.	10-Sep-19	0.18	<1	610	18	<1	0.22
MPR-445	127th Ave. and 266 St.	17-Sep-19	0.61	<1	10	17	<1	0.19
MPR-445	127th Ave. and 266 St.	24-Sep-19	0.36	<1	<2	16	<1	0.38
MPR-445	127th Ave. and 266 St.	01-Oct-19	0.37	<1	<2	15	<1	0.35
MPR-445	127th Ave. and 266 St.	08-Oct-19	0.57	<1	<2	15	<1	0.34
MPR-445	127th Ave. and 266 St.	15-Oct-19	0.8	<1	<2	13	<1	0.3
MPR-445	127th Ave. and 266 St.	22-Oct-19	0.6	<1	<2	14	<1	1.2
MPR-445	127th Ave. and 266 St.	29-Oct-19	1.26	<1	2	11	<1	0.36
MPR-445	127th Ave. and 266 St.	05-Nov-19	0.73	<1	<2	13	<1	0.32
MPR-445	127th Ave. and 266 St.	12-Nov-19	0.79	<1	<2	10	<1	0.22
MPR-445	127th Ave. and 266 St.	19-Nov-19	0.47	<1	<2	10.5	<1	0.67
MPR-445	127th Ave. and 266 St.	26-Nov-19	0.11	<1	170	10	<1	1.3
MPR-445	127th Ave. and 266 St.	03-Dec-19	0.65	<1	<2	8	<1	0.41
MPR-445	127th Ave. and 266 St.	10-Dec-19	0.62	<1	<2	8	<1	0.26
MPR-445	127th Ave. and 266 St.	17-Dec-19	1.02	<1	<2	8	<1	0.34
MPR-445	127th Ave. and 266 St.	23-Dec-19	0.67	<1	NA	8	<1	0.33
MPR-445	127th Ave. and 266 St.	30-Dec-19	0.45	<1	NA	7	<1	0.27
MPR-446	128th Ave and Willow Place	03-Jan-19	0.95	<1	<2	6	<1	1.6
MPR-446	128th Ave and Willow Place	08-Jan-19	0.7	<1	<2	6	<1	0.39
MPR-446	128th Ave and Willow Place	15-Jan-19	0.82	<1	<2	7	<1	0.46
MPR-446	128th Ave and Willow Place	22-Jan-19	0.65	<1	LA	6	<1	0.44
MPR-446	128th Ave and Willow Place	29-Jan-19	0.4	<1	<2	6	<1	0.31
MPR-446	128th Ave and Willow Place	05-Feb-19	0.89	<1	2	4	<1	0.45
MPR-446	128th Ave and Willow Place	12-Feb-19	0.97	<1	12	5	<1	0.32
MPR-446	128th Ave and Willow Place	19-Feb-19	1	<1	<2	4	<1	0.29
MPR-446	128th Ave and Willow Place	26-Feb-19	0.94	<1	<2	4	<1	0.55
MPR-446	128th Ave and Willow Place	05-Mar-19	0.85	<1	<2	4	<1	0.35
MPR-446	128th Ave and Willow Place	12-Mar-19	0.78	<1	<2	4	<1	0.3

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-446	128th Ave and Willow Place	19-Mar-19	0.74	<1	<2	4	<1	0.36
MPR-446	128th Ave and Willow Place	26-Mar-19	1.04	<1 ¹	<2	6	<1 ¹	28
MPR-446	128th Ave and Willow Place	02-Apr-19	0.54	<1	<2	9	<1	0.38
MPR-446	128th Ave and Willow Place	09-Apr-19	1.26	<1	<2	9	<1	0.45
MPR-446	128th Ave and Willow Place	16-Apr-19	0.7	<1	<2	8	<1	0.37
MPR-446	128th Ave and Willow Place	23-Apr-19	0.7	<1	<2	8	<1	0.41
MPR-446	128th Ave and Willow Place	30-Apr-19	0.54	<1	<2	8	<1	1.8
MPR-446	128th Ave and Willow Place	07-May-19	0.71	<1	<2	10	<1	0.68
MPR-446	128th Ave and Willow Place	14-May-19	1.2	<1	<2	11	<1	0.43
MPR-446	128th Ave and Willow Place	21-May-19	0.53	<1	<2	11	<1	0.34
MPR-446	128th Ave and Willow Place	28-May-19	0.53	<1	<2	12	<1	0.38
MPR-446	128th Ave and Willow Place	04-Jun-19	0.85	<1	<2	13	<1	0.44
MPR-446	128th Ave and Willow Place	11-Jun-19	0.27	<1	<2	13	<1	0.38
MPR-446	128th Ave and Willow Place	18-Jun-19	0.65	<1	2	13	<1	0.35
MPR-446	128th Ave and Willow Place	25-Jun-19	0.71	<1	<2	15	<1	0.31
MPR-446	128th Ave and Willow Place	02-Jul-19	0.69	<1	<2	14	<1	0.31
MPR-446	128th Ave and Willow Place	09-Jul-19	0.46	<1	<2	16	<1	0.23
MPR-446	128th Ave and Willow Place	16-Jul-19	0.51	<1	6	15	<1	0.27
MPR-446	128th Ave and Willow Place	23-Jul-19	1.03	<1	<2	15	<1	0.38
MPR-446	128th Ave and Willow Place	30-Jul-19	0.64	<1	<2	15	<1	0.24
MPR-446	128th Ave and Willow Place	06-Aug-19	0.63	<1	<2	17	<1	0.31
MPR-446	128th Ave and Willow Place	13-Aug-19	0.58	<1	<2	16	<1	0.34
MPR-446	128th Ave and Willow Place	20-Aug-19	0.46	<1	<2	16	<1	0.23
MPR-446	128th Ave and Willow Place	27-Aug-19	0.76	<1	<2	15	<1	0.85
MPR-446	128th Ave and Willow Place	03-Sep-19	0.7	<1	<2	16	<1	0.32
MPR-446	128th Ave and Willow Place	10-Sep-19	0.74	<1	<2	16	<1	0.25
MPR-446	128th Ave and Willow Place	17-Sep-19	0.76	<1	<2	16	<1	0.27
MPR-446	128th Ave and Willow Place	24-Sep-19	0.56	<1	<2	14	<1	0.24
MPR-446	128th Ave and Willow Place	01-Oct-19	0.87	<1	<2	14	<1	0.57
MPR-446	128th Ave and Willow Place	08-Oct-19	0.6	<1	2	12	<1	0.35
MPR-446	128th Ave and Willow Place	15-Oct-19	0.79	<1	<2	12	<1	0.76
MPR-446	128th Ave and Willow Place	22-Oct-19	0.97	<1	<2	13	<1	0.37
MPR-446	128th Ave and Willow Place	29-Oct-19	0.73	<1	<2	9	<1	0.37
MPR-446	128th Ave and Willow Place	05-Nov-19	0.94	<1	<2	9	<1	0.31
MPR-446	128th Ave and Willow Place	12-Nov-19	0.88	<1	<2	10	<1	0.27
MPR-446	128th Ave and Willow Place	19-Nov-19	0.57	<1	2	9.2	<1	0.29
MPR-446	128th Ave and Willow Place	26-Nov-19	0.61	<1	<2	8	<1	0.39
MPR-446	128th Ave and Willow Place	03-Dec-19	0.52	<1	2	7	<1	0.42
MPR-446	128th Ave and Willow Place	10-Dec-19	0.48	<1	<2	8	<1	0.36

¹ MPN/100mL (Colilert test method)

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-446	128th Ave and Willow Place	17-Dec-19	0.69	<1	<2	7	<1	0.38
MPR-446	128th Ave and Willow Place	23-Dec-19	0.53	<1	NA	7	<1	0.33
MPR-446	128th Ave and Willow Place	30-Dec-19	0.63	<1	NA	6	<1	0.43
MPR-447	117 Ave. @ 210 St.	03-Jan-19	0.91	<1	8	6	<1	0.35
MPR-447	117 Ave. @ 210 St.	08-Jan-19	0.69	<1	<2	7	<1	0.33
MPR-447	117 Ave. @ 210 St.	15-Jan-19	0.78	<1	<2	5	<1	0.34
MPR-447	117 Ave. @ 210 St.	22-Jan-19	0.52	<1	<2	6	<1	0.38
MPR-447	117 Ave. @ 210 St.	29-Jan-19	0.51	<1	<2	6	<1	0.3
MPR-447	117 Ave. @ 210 St.	05-Feb-19	0.72	<1	2	5	<1	0.33
MPR-447	117 Ave. @ 210 St.	12-Feb-19	1.02	<1	2	4	<1	0.45
MPR-447	117 Ave. @ 210 St.	19-Feb-19	0.84	<1	<2	4	<1	0.3
MPR-447	117 Ave. @ 210 St.	26-Feb-19	0.78	<1	<2	4	<1	0.26
MPR-447	117 Ave. @ 210 St.	05-Mar-19	0.79	<1	<2	5	<1	0.27
MPR-447	117 Ave. @ 210 St.	12-Mar-19	0.55	<1	200	5	<1	0.27
MPR-447	117 Ave. @ 210 St.	19-Mar-19	0.51	<1	<2	6	<1	0.33
MPR-447	117 Ave. @ 210 St.	26-Mar-19	0.49	<1	<2	7	<1	0.37
MPR-447	117 Ave. @ 210 St.	02-Apr-19	0.64	<1	2	9	<1	0.34
MPR-447	117 Ave. @ 210 St.	09-Apr-19	0.75	<1	<2	9	<1	0.39
MPR-447	117 Ave. @ 210 St.	16-Apr-19	0.67	<1	<2	9	<1	0.35
MPR-447	117 Ave. @ 210 St.	23-Apr-19	0.42	<1	<2	10	<1	0.34
MPR-447	117 Ave. @ 210 St.	30-Apr-19	0.57	<1	<2	10	<1	0.41
MPR-447	117 Ave. @ 210 St.	07-May-19	0.4	<1	2	11	<1	0.32
MPR-447	117 Ave. @ 210 St.	14-May-19	0.58	<1	8	13	<1	0.28
MPR-447	117 Ave. @ 210 St.	21-May-19	0.53	<1	28	13	<1	0.88
MPR-447	117 Ave. @ 210 St.	28-May-19	0.47	<1	6	13	<1	0.44
MPR-447	117 Ave. @ 210 St.	04-Jun-19	0.4	<1	4	13	<1	0.29
MPR-447	117 Ave. @ 210 St.	11-Jun-19	0.04	<1	2	14	<1	0.56
MPR-447	117 Ave. @ 210 St.	18-Jun-19	0.78	<1	2	15	<1	0.29
MPR-447	117 Ave. @ 210 St.	25-Jun-19	1.08	<1	6	15	<1	0.22
MPR-447	117 Ave. @ 210 St.	02-Jul-19	0.43	<1	8	15	<1	0.23
MPR-447	117 Ave. @ 210 St.	09-Jul-19	0.7	<1	<2	15	<1	0.26
MPR-447	117 Ave. @ 210 St.	16-Jul-19	0.42	<1	26	15	<1	0.28
MPR-447	117 Ave. @ 210 St.	23-Jul-19	0.47	<1	4	16	<1	0.39
MPR-447	117 Ave. @ 210 St.	30-Jul-19	0.48	<1	<2	17	<1	0.27
MPR-447	117 Ave. @ 210 St.	06-Aug-19	0.58	<1	<2	19	<1	0.25
MPR-447	117 Ave. @ 210 St.	13-Aug-19	0.45	<1	6	17	<1	0.27
MPR-447	117 Ave. @ 210 St.	20-Aug-19	0.37	<1	12	17	<1	0.22
MPR-447	117 Ave. @ 210 St.	27-Aug-19	0.53	<1	10	17	<1	0.92
MPR-447	117 Ave. @ 210 St.	03-Sep-19	0.43	<1	6	17	<1	0.3

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-447	117 Ave. @ 210 St.	10-Sep-19	0.53	<1	<2	18	<1	0.2
MPR-447	117 Ave. @ 210 St.	17-Sep-19	0.34	<1	10	17	<1	0.27
MPR-447	117 Ave. @ 210 St.	24-Sep-19	0.17	<1	56	17	<1	0.52
MPR-447	117 Ave. @ 210 St.	01-Oct-19	0.18	<1	28	15	<1	0.35
MPR-447	117 Ave. @ 210 St.	08-Oct-19	0.18	<1	10	14	<1	0.39
MPR-447	117 Ave. @ 210 St.	15-Oct-19	0.44	<1	4	13	<1	0.31
MPR-447	117 Ave. @ 210 St.	22-Oct-19	0.21	<1	10	13	<1	0.42
MPR-447	117 Ave. @ 210 St.	29-Oct-19	0.2	<1	6	11	<1	0.36
MPR-447	117 Ave. @ 210 St.	05-Nov-19	0.31	<1	6	10	<1	0.28
MPR-447	117 Ave. @ 210 St.	12-Nov-19	0.24	<1	4	10	<1	0.34
MPR-447	117 Ave. @ 210 St.	19-Nov-19	0.17	<1	4	10.5	<1	0.56
MPR-447	117 Ave. @ 210 St.	26-Nov-19	0.18	<1	4	9	<1	0.37
MPR-447	117 Ave. @ 210 St.	03-Dec-19	0.26	<1	2	7	<1	0.45
MPR-447	117 Ave. @ 210 St.	10-Dec-19	0.34	<1	<2	8	<1	0.28
MPR-447	117 Ave. @ 210 St.	17-Dec-19	0.37	<1	<2	8	<1	0.33
MPR-447	117 Ave. @ 210 St.	23-Dec-19	0.4	<1	NA	7	<1	0.35
MPR-447	117 Ave. @ 210 St.	30-Dec-19	0.29	<1	NA	7	<1	0.29
MPR-448	248th St. & McClure	03-Jan-19	0.58	<1	<2	6	<1	0.37
MPR-448	248th St. & McClure	08-Jan-19	0.38	<1	<2	7	<1	0.36
MPR-448	248th St. & McClure	15-Jan-19	0.55	<1	<2	6	<1	0.42
MPR-448	248th St. & McClure	22-Jan-19	0.48	<1	<2	6	<1	0.43
MPR-448	248th St. & McClure	29-Jan-19	0.84	<1	<2	7	<1	0.34
MPR-448	248th St. & McClure	05-Feb-19	0.38	<1	<2	4	<1	0.31
MPR-448	248th St. & McClure	12-Feb-19	0.68	<1	<2	4	<1	0.55
MPR-448	248th St. & McClure	19-Feb-19	0.72	<1	2	4	<1	0.28
MPR-448	248th St. & McClure	26-Feb-19	0.64	<1	<2	4	<1	0.36
MPR-448	248th St. & McClure	05-Mar-19	0.72	<1	<2	5	<1	0.29
MPR-448	248th St. & McClure	12-Mar-19	0.51	<1	<2	5	<1	0.26
MPR-448	248th St. & McClure	19-Mar-19	0.59	<1	<2	6	<1	0.3
MPR-448	248th St. & McClure	26-Mar-19	0.65	<1	<2	7	<1	0.54
MPR-448	248th St. & McClure	02-Apr-19	0.51	<1	<2	10	<1	0.32
MPR-448	248th St. & McClure	09-Apr-19	0.41	<1	<2	9	<1	0.34
MPR-448	248th St. & McClure	16-Apr-19	0.64	<1	LA	8	<1	0.31
MPR-448	248th St. & McClure	23-Apr-19	0.57	<1	<2	10	<1	0.33
MPR-448	248th St. & McClure	30-Apr-19	0.67	<1	<2	9	<1	0.35
MPR-448	248th St. & McClure	07-May-19	0.55	<1	<2	12	<1	0.32
MPR-448	248th St. & McClure	14-May-19	1.19	<1	<2	12	<1	0.37
MPR-448	248th St. & McClure	21-May-19	0.5	<1	<2	14	<1	0.26
MPR-448	248th St. & McClure	28-May-19	0.58	<1	<2	13	<1	0.38

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-448	248th St. & McClure	04-Jun-19	0.65	<1	<2	13	<1	0.31
MPR-448	248th St. & McClure	11-Jun-19	0.33	<1	<2	15	<1	0.37
MPR-448	248th St. & McClure	18-Jun-19	0.8	<1	<2	14	<1	0.29
MPR-448	248th St. & McClure	25-Jun-19	0.74	<1	<2	16	<1	0.27
MPR-448	248th St. & McClure	02-Jul-19	0.45	<1	2600	15	<1	0.2
MPR-448	248th St. & McClure	09-Jul-19	0.48	<1	1700	17	<1	0.18
MPR-448	248th St. & McClure	16-Jul-19	0.59	<1	4200	16	<1	0.24
MPR-448	248th St. & McClure	23-Jul-19	0.39	<1	2100	17	<1	0.24
MPR-448	248th St. & McClure	30-Jul-19	0.72	<1	<2	17	<1	0.32
MPR-448	248th St. & McClure	06-Aug-19	0.82	<1	<2	20	<1	0.32
MPR-448	248th St. & McClure	13-Aug-19	0.42	<1	2	19	<1	0.25
MPR-448	248th St. & McClure	20-Aug-19	0.44	<1	2	19	<1	0.22
MPR-448	248th St. & McClure	27-Aug-19	0.39	<1	2	17	<1	0.3
MPR-448	248th St. & McClure	03-Sep-19	0.44	<1	2	18	<1	0.37
MPR-448	248th St. & McClure	10-Sep-19	0.54	<1	<2	19	<1	0.2
MPR-448	248th St. & McClure	17-Sep-19	0.38	<1	<2	18	<1	0.26
MPR-448	248th St. & McClure	24-Sep-19	0.21	<1	<2	17	<1	0.28
MPR-448	248th St. & McClure	01-Oct-19	0.19	<1	6	15	<1	0.31
MPR-448	248th St. & McClure	08-Oct-19	0.19	<1	2	14	<1	0.35
MPR-448	248th St. & McClure	15-Oct-19	0.25	<1	<2	13	<1	0.27
MPR-448	248th St. & McClure	22-Oct-19	0.15	<1	<2	14	<1	0.37
MPR-448	248th St. & McClure	29-Oct-19	0.52	<1	<2	12	<1	0.29
MPR-448	248th St. & McClure	05-Nov-19	0.33	<1	<2	13	<1	0.29
MPR-448	248th St. & McClure	12-Nov-19	0.28	<1	<2	10	<1	0.25
MPR-448	248th St. & McClure	19-Nov-19	0.18	<1	2	10.5	<1	0.43
MPR-448	248th St. & McClure	26-Nov-19	0.31	<1	<2	9	<1	0.33
MPR-448	248th St. & McClure	03-Dec-19	0.41	<1	<2	8	<1	0.36
MPR-448	248th St. & McClure	10-Dec-19	0.39	<1	<2	8	<1	0.26
MPR-448	248th St. & McClure	17-Dec-19	0.29	<1	4	8	<1	0.37
MPR-448	248th St. & McClure	23-Dec-19	0.26	<1	NA	8	<1	0.28
MPR-448	248th St. & McClure	30-Dec-19	0.44	<1	NA	7	<1	0.28
MPR-449	Meadow Brook North of Douglas	03-Jan-19	0.26	<1	14	8	<1	2.2
MPR-449	Meadow Brook North of Douglas	08-Jan-19	0.33	<1	2	8	<1	0.29
MPR-449	Meadow Brook North of Douglas	15-Jan-19	0.26	<1	<2	7	<1	0.32
MPR-449	Meadow Brook North of Douglas	22-Jan-19	0.27	<1	<2	7	<1	0.31
MPR-449	Meadow Brook North of Douglas	29-Jan-19	0.29	<1	2	6	<1	0.31
MPR-449	Meadow Brook North of Douglas	05-Feb-19	0.41	<1	<2	5	<1	0.37
MPR-449	Meadow Brook North of Douglas	12-Feb-19	0.42	<1	<2	6	<1	0.36
MPR-449	Meadow Brook North of Douglas	19-Feb-19	0.36	<1	<2	6	<1	0.25

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-449	Meadow Brook North of Douglas	26-Feb-19	0.46	<1	<2	6	<1	0.22
MPR-449	Meadow Brook North of Douglas	05-Mar-19	0.1	<1	<2	6	<1	0.28
MPR-449	Meadow Brook North of Douglas	12-Mar-19	0.27	<1	<2	6	<1	0.22
MPR-449	Meadow Brook North of Douglas	19-Mar-19	0.18	<1	<2	7	<1	0.29
MPR-449	Meadow Brook North of Douglas	26-Mar-19	0.19	<1	<2	8	<1	0.61
MPR-449	Meadow Brook North of Douglas	02-Apr-19	0.32	<1	<2	8	<1	0.29
MPR-449	Meadow Brook North of Douglas	09-Apr-19	0.29	<1	<2	10	<1	0.29
MPR-449	Meadow Brook North of Douglas	16-Apr-19	0.24	<1	<2	10	<1	0.22
MPR-449	Meadow Brook North of Douglas	23-Apr-19	0.49	<1	<2	11	<1	0.28
MPR-449	Meadow Brook North of Douglas	30-Apr-19	0.3	<1	<2	11	<1	0.27
MPR-449	Meadow Brook North of Douglas	07-May-19	0.31	<1	<2	11	<1	0.33
MPR-449	Meadow Brook North of Douglas	14-May-19	0.24	<1	4	13	<1	0.33
MPR-449	Meadow Brook North of Douglas	21-May-19	0.16	<1	4	13	<1	0.24
MPR-449	Meadow Brook North of Douglas	28-May-19	0.2	<1	<2	15	<1	0.31
MPR-449	Meadow Brook North of Douglas	04-Jun-19	0.41	<1	<2	15	<1	0.29
MPR-449	Meadow Brook North of Douglas	11-Jun-19	0.12	<1	2	16	<1	0.35
MPR-449	Meadow Brook North of Douglas	18-Jun-19	0.48	<1	4	13	<1	0.24
MPR-449	Meadow Brook North of Douglas	25-Jun-19	0.31	<1	<2	17	<1	0.2
MPR-449	Meadow Brook North of Douglas	02-Jul-19	0.27	<1	4	15	<1	0.16
MPR-449	Meadow Brook North of Douglas	09-Jul-19	0.1	<1	16	17	<1	0.21
MPR-449	Meadow Brook North of Douglas	16-Jul-19	0.27	<1	6	15	1	0.31
MPR-449	Meadow Brook North of Douglas	17-Jul-19	0.33	<1	<2	18	<1	0.21
MPR-449	Meadow Brook North of Douglas	23-Jul-19	0.24	<1	<2	17	<1	0.29
MPR-449	Meadow Brook North of Douglas	30-Jul-19	0.47	<1	2	17	<1	0.22
MPR-449	Meadow Brook North of Douglas	06-Aug-19	0.27	<1	2	19	<1	0.43
MPR-449	Meadow Brook North of Douglas	13-Aug-19	0.22	<1	4	20	<1	0.26
MPR-449	Meadow Brook North of Douglas	20-Aug-19	0.17	<1	8	20	<1	0.21
MPR-449	Meadow Brook North of Douglas	27-Aug-19	0.17	<1	2	19	<1	0.27
MPR-449	Meadow Brook North of Douglas	03-Sep-19	0.18	<1	<2	19	<1	0.34
MPR-449	Meadow Brook North of Douglas	10-Sep-19	0.26	<1	4	20	<1	0.18
MPR-449	Meadow Brook North of Douglas	17-Sep-19	0.17	<1	4	19	<1	0.22
MPR-449	Meadow Brook North of Douglas	24-Sep-19	0.02	<1	48	18	<1	0.26
MPR-449	Meadow Brook North of Douglas	01-Oct-19	0.23	<1	6	17	<1	0.33
MPR-449	Meadow Brook North of Douglas	08-Oct-19	0.16	<1	4	16	<1	0.3
MPR-449	Meadow Brook North of Douglas	15-Oct-19	0.18	<1	<2	15	<1	0.26
MPR-449	Meadow Brook North of Douglas	22-Oct-19	0.11	<1	4	14	<1	0.36
MPR-449	Meadow Brook North of Douglas	29-Oct-19	0.35	<1	2	13	<1	0.28
MPR-449	Meadow Brook North of Douglas	05-Nov-19	0.12	<1	<2	12	<1	0.31
MPR-449	Meadow Brook North of Douglas	12-Nov-19	0.15	<1	2	12	<1	0.22

Sample name	Sample reported name	Sampled Date	Cl ₂ Free mg/L	E. coli MF/ 100mLs	HPC CFU/mls	Temp °C	Total Coliform MF/100 mLs	Turb. NTU
MPR-449	Meadow Brook North of Douglas	19-Nov-19	0.02	<1	4	12	<1	0.54
MPR-449	Meadow Brook North of Douglas	26-Nov-19	0.07	<1	<2	10	<1	0.32
MPR-449	Meadow Brook North of Douglas	03-Dec-19	0.1	<1	<2	10	<1	0.29
MPR-449	Meadow Brook North of Douglas	10-Dec-19	0.05	<1	<2	10	<1	0.33
MPR-449	Meadow Brook North of Douglas	17-Dec-19	0.1	<1	<2	9	<1	0.29
MPR-449	Meadow Brook North of Douglas	23-Dec-19	0.12	<1	NA	9	<1	0.33
MPR-449	Meadow Brook North of Douglas	30-Dec-19	0.11	<1	NA	9	<1	0.23

Appendix G: Preventing Water-Borne Infections for People with Weakened Immune Systems



Number 56
June 2013

Preventing Water-Borne Infections For People with Weakened Immune Systems

Who is at higher risk from water-borne infections?

People with very weak immune systems who are at higher risk of certain water-borne diseases include those with:

- HIV infection who have a CD4+ count of less than 100 cells/mm³;
- lymphoma or leukemia (hematological malignancies) who are being actively treated or have been in remission and off treatment for less than 1 year;
- hematopoietic stem cell transplant recipients; and
- people born with diseases that severely affect their immune systems.

Some people with weakened immune systems, such as those with certain types of cancers or taking certain medications, may not be at higher risk of severe water-borne diseases. These people do not need to take extra precautions with their drinking water.

Ask your health care provider how weak your immune system is, and whether you need to take extra precautions.

How can drinking water become contaminated?

Drinking water can contain different organisms, including bacteria, viruses and parasites, which can cause disease. These organisms can exist in the source water such as lake water and survive through treatment, or they can enter the water supply in the distribution system. Well water can be contaminated if the well is not built properly or if it draws on water from the surface of the ground, such as shallow wells or wells drilled in fractured rock. Surface water, such as

rivers, lakes and streams, can also contain disease-causing organisms from animal feces. If you have a weak immune system, you should not drink water from surface sources or wells potentially contaminated by surface water such as dug wells, unless the water has been treated to remove or inactivate at least 99.9 per cent of parasites (protozoa), 99.99 per cent of viruses and all harmful bacteria.

Most community water systems in B.C. have effective treatment, such as disinfection or chlorination, against bacteria and viruses. However, in many cases, treatment may not provide a 99.9 per cent reduction in infectious parasites. Some water systems and many private supplies have no treatment at all. If the water you drink has not been disinfected, please refer to HealthLinkBC File [#49b How to Disinfect Drinking Water](#).

How can I further treat disinfected water?

People with very weak immune systems need to take extra precautions with their drinking water.

Boiling: If your water supply has already been disinfected, bring the water to a full boil to inactivate any *Cryptosporidium* parasites - a major concern for people with weakened immune systems. For more information, see HealthLinkBC File [#48 Cryptosporidium Infection](#).

If the water has not already been disinfected, bring the water to a full boil for at least 1 minute. This will kill or inactivate bacteria, viruses and parasites. At elevations over 2,000 meters (6,500 feet), boil water for at least 2 minutes to disinfect it.

Do not drink or use tap water to brush your teeth, rinse your mouth, mix drinks or make ice cubes without boiling it first.

Please note that boiling water will get rid of viruses, bacteria and parasites but not chemicals which may be found in the water.

Reverse Osmosis (RO): RO is effective against all disease-causing organisms and many chemical contaminants. Unless it has a high capacity, it will only produce small amounts of water and waste a large volume. Speak to a water treatment specialist to see if this is the best option for you.

Ultraviolet (UV) Treatment: UV light will kill many disease-causing organisms, and is effective against almost all parasites. UV will not kill some bacterial spores and some viruses, so it should not be used unless the water supply is at least disinfected. UV treatment units should meet NSF Standard #55A.

Filters: Filters do not remove bacteria and viruses and should not be used unless the water supply is disinfected first.

If you plan to install a drinking water filter in your home, you will need a system labeled as Absolute 1 micron or smaller, and labeled as meeting ANSI/NSF International Standard #53 for removal of parasites.

Jug-type filters, such as a Brita®, which sit in a jug and allow water to trickle through, and some tap-mounted and built-in devices are not an appropriate solution. The jug filter models are not effective in removing many disease-causing organisms.

Can I drink bottled water?

Bottled water in B.C. may or may not have been treated. If you have a very weak immune system, check with the bottling company to find out what treatment, if any, it has had. Bottled water that has been properly treated using one of the methods list above can be used for drinking, brushing teeth,

making ice cubes and for recipes where water is used but not boiled, such as cold soups.

For More Information

For more information, including the level of treatment in your local water system, please contact:

- your drinking water purveyor or supplier; or
- the local environmental health officer or drinking water officer; or
- visit www.health.gov.bc.ca/protect/dw_ha_contacts.html.

Please also see the following HealthLinkBC Files:

- [#49a Water-borne Diseases in British Columbia](#)
- [#49b How to Disinfect Drinking Water](#)
- [#69b Formula Feeding Your Baby: Safely Preparing and Storing Formula.](#)

For more HealthLinkBC File topics, visit www.HealthLinkBC.ca/healthfiles or your local public health unit.

Click on www.HealthLinkBC.ca or call 8-1-1 for non-emergency health information and services in B.C.

For deaf and hearing-impaired assistance, call 7-1-1 in B.C.

Translation services are available in more than 130 languages on request.



ImmunizeBC



BC Centre for Disease Control
An agency of the Provincial Health Services Authority

TO: His Worship Mayor Michael Morden
and Members of Council

MEETING DATE: 16-June-2020
FILE NO:

FROM: Chief Administrative Officer

MEETING: CoW

SUBJECT: Quarter 1, 2020 Financial Update

EXECUTIVE SUMMARY:

The purpose of this report is to provide a financial update for the first quarter of 2020, focusing on operating results for the City, and to provide information regarding certain development related reserves. While there is great interest in assessing the impact of COVID-19 on the City's financial situation, it is noted that only 2 weeks of the first quarter were impacted by the current health crisis.

While operating results to the end of the first quarter are in line with what we would expect to see for the end of March, this is far from a typical year. As such, we continue to monitor the City's revenues and expenses to assess the impact of COVID-19 on our operations and will provide additional information following the end of the 2nd quarter.

The City relies on certain revenues collected as part of the development process to support the provision of infrastructure and other amenities. In particular, Development Cost Charges, Albion Amenity Charges and Community Amenity Charges are key funding sources in the City's capital program. All of these funding sources are currently dependent on future collections to support planned capital projects.

RECOMMENDATION:

For information only

DISCUSSION:

a) Background Context:

The purpose of this report is to provide a financial update for the first quarter of 2020, focusing on operating results for the City and to provide information regarding certain development related reserves. While there is great interest in assessing the impact of COVID-19 on the City's financial situation, it is noted that only 2 weeks of the first quarter were impacted by the current health crisis.

Operating Results

The first three months of a fiscal year do not typically provide enough information to forecast results to the end of the year or to identify any significant variances to planned results. Results to the end of March are shown on Schedule "A" attached to this report with very preliminary forecast estimates for 2020.

A public health emergency was declared on March 17 as a result of the COVID-19 pandemic and while we know it will have an impact on the City's financial results for the year, the extent of that impact cannot be predicted with any certainty at this time. In some instances we can make preliminary assumptions about certain revenues and expenses which will be refined as the year progresses. For example, with the closure of the local Chances facility in mid March and reopening currently scheduled for Phase 4 of the BC Restart Plan, we can expect to receive less revenue than in previous years.

Similarly, with City facilities, the impact to revenues and expenses will depend on a number of factors, such as the timing of facility re-openings, capacity constraints, training of staff, additional cleaning costs and other expenses needed to ensure the safety of our staff and customers.

Staff continue to monitor the current situation for emerging trends and assess the impact of the pandemic on both the City's revenues and expenses. Updated information will be provided to Council following the end of the second quarter.

Development Related Reserves

The City relies heavily on certain revenues collected as part of the development process to fund the construction of infrastructure and other amenities included in the capital program. In particular the collection of Development Cost Charges (DCC's), Community Amenity Charges (CAC's), and Albion Amenity Charges (AAC's).

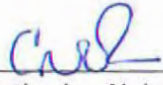
The rates in place for DCC's are outlined in Bylaw No. 7320-2017 and must be approved by the Inspector of Municipalities. Use of DCC funds are guided by legislation and municipalities are not able to use DCC's to fund certain infrastructure required as a result of growth, such as new fire halls or community centres. To ease the burden on taxpayers for the provision of this type of infrastructure, Council introduced AAC's in 2013 and CAC's in 2016. The following shows the balances in each of these reserves at the end of 2019, collections to March 31, 2020 and the planned capital expenditures for this year.

	DCC's	AAC's	CAC's	CAC's (Housing)
Opening Balance	25,663,429	-	655,791	257,903
Collections	2,337,871	-	46,229	4,141
Balance at Mar 31	28,001,300	-	702,020	262,044
Planned expenditures (2020)	34,452,796	164,598	3,588,070	-
Unencumbered Balances	(6,451,495)	(164,598)	(2,886,050)	262,044

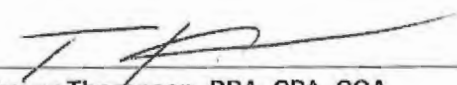
Of note is the dependence on future collections to support the planned capital projects and internal financing for projects with authorized debt that we have not yet entered into. At the end of 2019 \$2.6 million in costs associated with the Albion Community Centre were internally financed using CAC's that had already been collected, further increasing the reliance on future collections. While projects are budgeted for in full in the intended start year, it is not unusual for them to span two or three years from the start of construction through to completion. This, combined with future collections, allows us to manage the balances in these reserves although we will likely need to consider external financing in the near future.

CONCLUSION:


In summary, results to the end of the first quarter are what we would expect to see. The impacts of COVID-19 are being monitored and the extent of that impact will depend on a number of factors, such as the timing of facilities reopening, capacity constraints, changes in peoples' behaviours and additional expenses that may be needed to ensure the safety of staff and customers. An updated report will be provided following June 30, 2020.





Prepared by: Catherine Nolan, CPA, CGA
Corporate Controller



Reviewed by: Trevor Thompson, BBA, CPA, CGA
Chief Financial Officer



Approved by: Christina Crabtree
Acting GM, Corporate Services

Concurrence: Al Horsman
Chief Administrative Officer

Attachments:
(A) Schedule "A"

City of Maple Ridge
Quarter 1 Statement of Operations
For the period ended March 31, 2020

	Ytd Actual	Annual Budget	Forecast	Comments
Revenues				
Taxes for municipal purposes	- 71,440	94,680,030	94,680,030	
User fees and other revenue	4,990,856	47,142,875	45,000,000	Facility closures & reduction in some building permit activity
Government transfers	1,087,926	3,446,265	3,446,265	
Development revenue	20,690	1,356,621	1,356,621	
Interest and investment income	1,051,735	1,867,988	1,867,988	
Gaming revenues	-	1,500,000	550,000	Facility closed mid March; reopening date unknown
Total Revenue	7,079,767	149,993,779	146,900,904	
Expenses (excluding amortization)				
General Government	4,913,876	18,149,774	18,149,774	
Protective Services	9,992,514	43,499,397	43,499,397	
Transportation	2,172,426	13,988,777	13,988,777	
Planning, Public Health & Other	1,723,330	7,304,274	7,304,274	
Recreation	4,238,343	22,071,087	22,071,087	
Sewer	645,471	12,329,795	12,329,795	
Water	1,392,835	14,740,619	14,740,619	
Total Expenses	25,078,796	132,083,723	132,083,723	
Internal Transfers & Principal Payments				
Principal Payments	1,504,588	3,218,773	2,606,273	Planned borrowing currently being internally financed
Transfers to(from) reserves	- 769,548	5,313,949	5,313,949	
Transfers to capital	-	14,152,027	14,152,027	
Total Internal transfers & principal payments	735,040	22,684,749	22,072,249	
Surplus (Deficit) as at March 31, 2020	- 18,734,069	- 4,774,693	- 7,255,068	
Accumulated Surplus - beginning of year	30,357,265	30,357,265	30,357,265	
Accumulated Surplus as at March 31, 2020	11,623,196	25,582,572	23,102,197	

800 *Unfinished Business*

TO:	His Worship Mayor Michael Morden and Members of Council	MEETING DATE:	June 23, 2020
FROM:	Chief Administrative Officer	FILE NO:	09-3900-02
SUBJECT:	Maple Ridge Fees & Charges Bylaw	MEETING:	Council

EXECUTIVE SUMMARY:

Council identified a consolidated fees and charges bylaw as a key deliverable related to Growth in its Council Work Plan Matrix. Currently, the dollar values for services and products provided by the City are embedded in separate bylaws that regulate processes supported by or administered in partnership with the City. Aggregating this information in a single bylaw serves to increase the efficiency of implementing annual rate updates.

The Maple Ridge Fees and Charges Bylaw establishes a framework to which existing fees can be attached as schedules are reviewed and updated. As the scheduled update of the Recreation Facility Fees and Charges Bylaw aligns with the timing of this report, it is attached as the first schedule in the new bylaw.

The most recent increase of recreation facility fees came as a phased approach with fees implemented in 2016 and a subsequent report in 2019 on the Synthetic Field Sport User Annual Contribution fee and the dry floor rate. Staff are recommending a modest increase of most recreation fees, effective the beginning of September 2020, to offset the rise in operating costs.

RECOMMENDATION:

That Bylaw No. 7575-2019 be given first, second, and third reading.

DISCUSSION:

a) Background Context:

The services provided by the City are governed by numerous individual bylaws that establish regulations and fees related to the service processes. In most cases, the fees are listed in schedules attached to the bylaw. However, in some instances rates are embedded within the text of the bylaw.

Consolidating fees and charges into a single bylaw will permit the update of rates in a timely manner. Additionally, a single source increases municipal transparency.

In total, fees and charges from 21 separate bylaws will be reviewed, updated, and amalgamated into the Maple Ridge Fees and Charges Bylaw. The fees included in the scope of this project do not include policy-based bylaws, such as Development Cost Charges or Community Amenity Contributions, and charges that are established by external partners and administered by the City.

Staff are taking a phased approach to populating the new consolidated bylaw; therefore, as departments review and update their fees, new schedules will be added. The first schedule to be included, a requirement to establish the new bylaw, is for recreation facility fees.

Recreation Fees and Charges

On an annual basis, staff review the rental and admission rates of several Lower Mainland recreation facilities including but not limited to Mission, Pitt Meadows, Langley, Coquitlam and Port Coquitlam. The data gathered is used to determine current market rental and admission rates compared to operating costs to ensure we are in line with our neighbours.

The last increase was implemented in 2016 for facility fees. A review of fees and charges was conducted annually, but since then no bylaw amendments were brought forward until the Leisure Centre re-opened.

Based on the analysis of neighbouring municipalities, staff are recommending the following changes to the Recreation Fees & Charges Bylaw:

- A 2% increase (e.g. Adult Swim \$5.70 to \$5.81) for 2020 and 2021 effective September 1 of each year for all fees excluding specifics below:
 - **Where the City of Maple Ridge was above market average:**
 - No increase to the 10 Pass Membership and a 5% reduction in 1 Year Memberships.
 - No increase to Gymnasium fees.
 - No increase to CLASS A fields for Adult Non Profits in Special Events & Regular Use.
 - **Where City of Maple Ridge will adjust to meet current needs and best practices:**
 - Removal of the 6-Month Membership Pass.
 - Consistent admission fee for users accessing the Outdoor Pool.
 - Amalgamating the Fundraising category into Special Events for Sport Fields.
 - Separation of CLASS A fields and Artificial Field fees and a 5% increase for the Artificial Field Fees (no increase for youth/senior non-profit regular use).
 - Introduction of the Swim Club rate for Hammond Pool with the increase in operations and use of outdoor amenities.
 - No increase to the Sport Field User Annual Contribution and Miscellaneous Fees based on Council Report June 4, 2019.
 - No increase to Swim Club rates for 2020 and 2% increase in 2021 to support clubs rebuilding after retrofit closure.

The City has a number of programs that will continue to support our residents by offering low-cost options, including:

- Access Pass - 75% admission subsidy; 50% subsidy, up to \$200, for recreation programs
- Rental Rebate Subsidy - Rental rates are subsidized based on program participants (Adult vs Youth, Non-profit vs For-profit)
- Grade 5 & 6 Active Pass - No charge drop-in and skating activities
- Low Cost Admission - e.g. Loonie/Toonie Swim
- Facility Fee Rental Waiver - Portion of rental fees waived to non-profits that reduce registration fees for residents, who are otherwise unable to participate

Residents also have access to Canadian Tire Jumpstart and KidSport subsidy programming, which are offered in partnership with the City of Maple Ridge.

b) Desired Outcome:

That the Maple Ridge Fees and Charges Bylaw be adopted with amended rates for recreation facility fees, effective September 1, 2020.

c) Strategic Alignment

Council identified updating and consolidating existing fees and charges as a deliverable within the "Growth" strategic priority. As fees and charges are reviewed and updated by departments, they will be attached to the new bylaw.

d) Citizen/Customer Implications


A modest fee increase will assist in offsetting the increasing facility operating costs, such as utilities and staffing, while balancing the need to ensure City Parks, Recreation & Culture services and programs remain accessible to all residents.

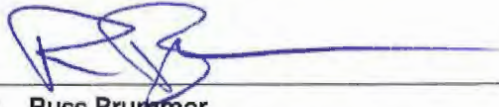
e) Business Plan/Financial Implications

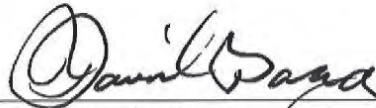
When rates remain stagnant for an extended period, inflationary pressures accumulate and greater increases to user-fees are required to remain within the operating budget. It is proposed that the updated recreation fees come into effect on September 1, 2020.

CONCLUSION:

The Maple Ridge Fees and Charges Bylaw consolidates existing municipally levied fees from 21 bylaws into a single, easy to navigate document.


Prepared by: **Dan Olivieri**
Corporate Support Coordinator

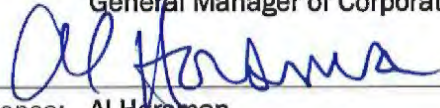

Reviewed by: **Russ Brummer**
Manager of Business Operations



Approved by: David Boag
General Manager of Parks Recreation & Culture



Approved by: Christina Crabtree
General Manager of Corporate Services



Concurrence: Al Horsman
Chief Administrative Officer

Attachments:

- (A) Maple Ridge Fees and Charges Bylaw - 2019-7575
- (B) Maple Ridge Recreation Facility Fees Bylaw - 4117-1988



City of Maple Ridge

**Maple Ridge
Fees and Charges Bylaw
Bylaw No. 7575-2019**

Effective Date:

TABLE OF CONTENTS

FEES	DESCRIPTION
Schedule A PARKS, RECREATION & CULTURE	Recreation Admission & Facility Fees

City of Maple Ridge

Fees & Charges Bylaw No. 7575-2019

A Bylaw to establish fees and charges for City services and information

WHEREAS the Council of the City of Maple Ridge deems it expedient to provide for fees and charges for services and information;

AND WHEREAS Section 194 of the *Community Charter* authorizes municipalities by bylaw to impose fees in respect of a service of the municipality or provision of information;

AND WHEREAS Council deems it necessary and desirable to exercise the authority provided by the *Community Charter* to cover costs of providing services and information where appropriate;

NOW THEREFORE, the Council of the City of Maple Ridge enacts as follows:

Part 1 Citation

- 1.1 This bylaw may be cited as Maple Ridge Fees & Charges Bylaw No. 7575-2019.

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, subsequent paragraph, subparagraph, clause or phrase.

Part 3 Previous Bylaw Repeal

- 3.1 Bylaw No. 4117-1988 as amended is hereby repealed in its entirety.

Part 4 Fees and Charges

- 4.1 The City hereby imposes the fees for the provision of services and information as specified in Schedule "A" which is attached hereto and forms part of this bylaw.

- 4.2 Fees or charges imposed under this Bylaw for the provision of services or information shall apply instead of any fees or charges imposed under other bylaws for the same services or information in the event of any conflict between this Bylaw and any other bylaw. A reference to a more specific matter in this Bylaw supersedes a reference to a more general matter.

Part 5 Schedules

Schedule "A" – Parks, Recreation & Culture Fees

READ for the first time the day of , 2020.

READ for the second time the day of , 2020.

READ for the third time the day of , 2020.

ADOPTED, the day of , 2020.

PRESIDING MEMBER

CORPORATE OFFICER

Schedule "A" – Parks, Recreation & Culture Fees

Note:

1. All fees are exclusive of tax, which will be added, if applicable.
2. Non-Prime time rates will be a 50% reduction of the regular rates and applied to all hours outside of the prime time windows listed below:

Days	Hours
Monday – Friday	5:00 pm – 9:00 pm
Saturday/Sunday (Year Round)	8:00 am – 9:00 pm

Admissions

Children	
Single	\$ 2.90
10 Pass	\$ 26.10
20 Pass	\$ 46.40
1 Month	\$ 26.10
3 Months	\$ 69.60
6 Months	\$ 130.50
1 Year	\$ 261.00

Youth/Senior	
Single	\$ 3.90
10 Pass	\$ 35.10
20 Pass	\$ 62.40
1 Month	\$ 35.10
3 Months	\$ 93.60
6 Months	\$ 175.50
1 Year	\$ 351.00

Maple Ridge Fees & Charges Bylaw No. 7575-2019

Adult	
Single	\$ 5.70
10 Pass	\$ 51.30
20 Pass	\$ 91.20
1 Month	\$ 51.30
3 Months	\$ 136.80
6 Months	\$ 256.50
1 Year	\$ 513.00

Family	
Single	\$ 10.44
10 Pass	\$ 98.46
20 Pass	\$ 167.04
1 Month	\$ 98.46
3 Months	\$ 262.56
6 Months	\$ 492.30
1 Year	\$ 984.60

Drop-In Skating - Single	Single
Child	\$ 2.60
Youth/Senior	\$ 3.50
Adult/Parent & Tot	\$ 4.73
Family	\$ 8.33

Outdoor Pool Admission	Single	Season Pass
Child	\$ 1.76	\$ 31.68
Youth/Senior	\$ 2.37	\$ 42.66
Adult	\$ 3.03	\$ 54.54
Family	\$ 6.68	\$ 120.24

Arenas (Hourly)

Ice - Prime Time	
Youth/Senior Non-Profit	\$ 110.34
Adult Non-Profit	\$ 165.50
Private	\$ 275.84
Commercial	\$ 304.99
Non-Resident	\$ 295.04

Ice - Non-Prime Time	
Youth/Senior Non-Profit	\$ 82.76
Adult Non-Profit	\$ 124.13
Private	\$ 206.88
Commercial	\$ 228.74
Non-Resident	\$ 221.28

Dry Floor - Prime Time	
Youth/Senior Non-Profit	\$ 44.03
Adult Non-Profit	\$ 66.05
Private	\$ 110.08
Commercial	\$ 139.61
Non-Resident	\$ 131.85

Fairgrounds (Hourly)

Stage included at no-charge when booking grounds
--

Barns Beef, Exhibition, Commercial	
Youth/Senior Non-Profit	\$ 8.16
Adult Non-Profit	\$ 12.24
Private	\$ 20.40
Commercial	\$ 22.44
Non-Resident	\$ 24.48

Youth/Senior Non-Profit	\$ 8.16
Adult Non-Profit	\$ 12.24
Private	\$ 20.40
Commercial	\$ 22.44
Non-Resident	\$ 24.48

Grounds & Show Rings	
Youth/Senior Non-Profit	\$ 7.14
Adult Non-Profit	\$ 10.71
Private	\$ 17.85
Commercial	\$ 19.64
Non-Resident	\$ 21.42

Youth/Senior Non-Profit	\$ 7.14
Adult Non-Profit	\$ 10.71
Private	\$ 17.85
Commercial	\$ 19.64
Non-Resident	\$ 21.42

Sports Fields (Hourly)			
	CLASS A	CLASS B	CLASS C
Youth/ Senior Non-Profit			
Commercial Use	\$ 22.07	\$ 16.44	\$ 5.49
Fundraising	\$ 11.04	\$ 8.22	\$ 2.75
Special Event	\$ 5.52	\$ 4.11	\$ 1.37
Regular Use	\$ 0.00	\$ 0.00	\$ 0.00
Adult Non Profit			
Commercial Use	\$ 22.07	\$ 16.44	\$ 5.49
Fundraising	\$ 22.07	\$ 16.44	\$ 5.49
Special Event	\$ 17.07	\$ 11.44	\$ 2.75
Regular Use	\$ 12.70	\$ 6.65	\$ 0.00
Local, Private or Political Groups			
Fundraising	\$ 33.11	\$ 24.66	\$ 8.24
Special Event	\$ 27.59	\$ 20.55	\$ 6.86
Regular Use	\$ 22.07	\$ 16.44	\$ 5.49
Local Commercial			
Fundraising	\$ 35.31	\$ 26.30	\$ 8.78
Special Event	\$ 29.79	\$ 22.19	\$ 7.41
Regular Use	\$ 24.28	\$ 18.08	\$ 6.04
Non Resident Group			
Fundraising	\$ 37.52	\$ 27.95	\$ 9.33
Special Event	\$ 32.00	\$ 23.84	\$ 7.96
Regular Use	\$ 26.48	\$ 19.73	\$ 6.59
Sports Field User Annual Contribution			
Fall/Winter Clubs	\$30 per registration		
Spring/Summer Clubs	\$15 per registration		

Class A
Synthetic Fields at Samuel Robertson Secondary, Westview Secondary, Golden Ears, Karina LeBlanc, Telosky; Hammond Stadium; Merkley Grass Throw Area; Albion Sports Complex (grass); Cliff Park, Upper Albion

Class B
Jordan Park; Selvey Park; Tolmie Park

Class C
Ruskin; All weather fields at Albion Sports Complex

Halls

Non-Prime time rates will be a 50% reduction of the regular rates.

Hammond Hall (Hourly)

Youth/Senior Non-Profit	\$ 25.46
Adult Non-Profit	\$ 38.20
Private	\$ 63.66
Commercial	\$ 83.17
Non-Resident	\$ 78.12

Whonnock Lake Centre (Hourly)

Youth/Senior Non-Profit	\$ 83.18
Adult Non-Profit	\$ 124.77
Private	\$ 207.95
Commercial	\$ 232.68
Non-Resident	\$ 232.68

Kitchen (Daily)

Youth/Senior Non-Profit	\$ 34.16
Adult Non-Profit	\$ 51.25
Private	\$ 85.41
Commercial	\$ 120.30
Non-Resident	\$ 120.30
<ul style="list-style-type: none"> • Fairgrounds • Hammond Hall • Whonnock Lake Centre • Greg Moore Youth Centre 	

Pools (Hourly)

Competition and Teach Pool (Per Lane)

Swim Club	Competition Pool	\$ 5.96
	Teach Pool	\$ 5.07
Youth/Senior Non-Profit		\$ 9.88
Adult Non-Profit		\$ 14.82
Private		\$ 24.70
Commercial		\$ 31.38
Non-Resident		\$ 29.28

Hammond Pool (Whole Pool)

Youth/Senior Non-Profit		\$ 26.75
Adult Non-Profit		\$ 40.13
Private		\$ 66.88
Commercial		\$ 70.54
Non-Resident		\$ 68.14

Rooms (Hourly)

Non-Prime time rates will be a 50% reduction of the regular rates.

Multi-Purpose Room (capacity 1-15)

Youth/Senior Non-Profit	\$ 4.51
Adult Non-Profit	\$ 6.76
Private	\$ 11.27
Commercial	\$ 13.84
Non-Resident	\$ 13.84
<ul style="list-style-type: none"> • Whonnock Lake Centre – Meeting Room 	

Multi-Purpose Room (capacity 15-30)

Youth/Senior Non-Profit	\$ 9.01
Adult Non-Profit	\$ 13.52
Private	\$ 22.53
Commercial	\$ 27.67
Non-Resident	\$ 27.67
<ul style="list-style-type: none"> • Leisure Centre - Training Studio • Hammond Hall – Preschool • Library - Alouette Room • Planet Ice - Meeting Room • Whonnock Lake Centre – Preschool 	

Multi-Purpose Room (capacity 40-60)

Youth/Senior Non-Profit	\$ 11.83
Adult Non-Profit	\$ 17.75
Private	\$ 29.58
Commercial	\$ 35.57
Non-Resident	\$ 32.62
<ul style="list-style-type: none"> • Leisure Centre - Preschool. 	

Multi-Purpose Room (capacity 60-80)	
Youth/Senior Non-Profit	\$ 13.94
Adult Non-Profit	\$ 20.91
Private	\$ 34.85
Commercial	\$ 48.36
Non-Resident	\$ 45.36
<ul style="list-style-type: none"> • Leisure Centre - Multipurpose Room • Greg Moore Youth Centre - Lounge & Multipurpose Room • Library - Fraser Room 	

Gymnasium	
Youth/Senior Non-Profit	\$ 49.35
Adult Non-Profit	\$ 74.02
Private	\$ 123.37
Commercial	\$ 154.31
Non-Resident	\$ 132.64
<ul style="list-style-type: none"> • Leisure Centre - Gymnasium • Greg Moore Youth Centre - Active Area 	

Miscellaneous

Miscellaneous Fees	
Park Shelter (up to a full day)	\$ 70.00
Event Trailer (day rate)	\$ 147.31
Tennis/Sport Court (Commercial use only)	\$ 15.00

THE FOLLOWING DOCUMENT HAS BEEN REPRODUCED FOR CONVENIENCE ONLY AND IS A CONSOLIDATION OF THE FOLLOWING:

1. Maple Ridge Recreation Facility Fees By-law No. 4117-1988
2. Maple Ridge Recreation Facility Fees Amending By-law No. 4265-1989
3. Maple Ridge Recreation Facility Fees Amending By-law No. 4322-1990
4. Maple Ridge Recreation Facility Fees Amending By-law No. 4470-1990
5. Maple Ridge Recreation Facility Fees Amending By-law No. 4528-1991
6. Maple Ridge Recreation Facility Fees Amending By-law No. 4575-1991
7. Maple Ridge Recreation Facility Fees Amending By-law No. 4609-1991
8. Maple Ridge Recreation Facility Fees Amending By-law No. 4772-1992
9. Maple Ridge Recreation Facility Fees Amending By-law No. 5015-1994
10. Maple Ridge Recreation Facility Fees Amending By-law No. 5313-1995
11. Maple Ridge Recreation Facility Fees Amending By-law No. 5471-1996
12. Ridge Meadows Parks and Leisure Services Facility Fees Amending By-law No. 5501-1996
13. Maple Ridge Recreation Facility Fees Amending By-law No. 5822-1999
14. Maple Ridge Recreation Facility Fees Amending By-law No. 6198-2004
15. Maple Ridge Recreation Facility Fees Amending By-law No. 6254-2004
16. Maple Ridge Recreation Facility Fees Amending By-law No. 6385-2006
17. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6470-2007
18. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6476-2007
19. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6571-2008
20. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6588-2008
21. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6664-2009
22. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6727-2010
23. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6799-2011
24. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6826-2011
25. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6932-2012
26. Maple Ridge Recreation Facility Fees Amending Bylaw No. 6999-2013
27. Maple Ridge Recreation Facility Fees Amending Bylaw No. 7032-2013
28. Maple Ridge Recreation Facility Fees Amending Bylaw No. 7553-2019

Individual copies of any of the above by-laws can be obtained by contacting the Clerk's Department.

CORPORATION OF THE DISTRICT OF MAPLE RIDGE

BYLAW NO. 4117-1988

A By-law to fix fees to be charged for the
use of sports and recreation facilities.

WHEREAS, pursuant to provisions contained in the Municipal Act being Section 679, Chapter 290, R.S.B.C., 1979 and amendments thereto, the Council may, by by-law, establish and regulate the fixing of fees for admission to or for the use of sports and recreation facilities.

NOW THEREFORE, the Council of the Corporation of the District of Maple Ridge, in open meeting assembled, ENACTS AS FOLLOWS:

1. This By-law may be cited for all purposes as "Maple Ridge Recreation Facility Fees By-law No. 4117-1988".
2. The rental and admission rates for use of Parks and Recreation facilities shall be as per the fees specified in Schedule "A" attached hereto.

By-law 4575-1991

3. Notwithstanding any rate contained in this by-law or the Schedules attached thereto, the Facility Rental Fee be waived to local non-profit emergency response agencies for a special event which has the primary goal of educating the residents of Maple Ridge about current safety, first aid or emergency response issues. Emergency response agencies would include any local non-profit group whose primary purpose is to respond in an emergency situation with a goal of saving or protecting human life and property. Examples of emergency agencies include the Maple Ridge Fire Department, R.C.M.P. Detachment, Maple Ridge Search & Rescue, St. John's Ambulance Society and the Royal Life-Saving Society.

The Special Event must provide free access to the general public and free display opportunities to other participating local non-profit emergency response groups.

No commercial agency may participate in the event for profit or promotional benefit.

READ a first time the 17th day of October, 1988 A.D.

READ a second time the 17th day of October, 1988 A.D.

READ a third time the 17th day of October, 1988 A.D.

RECONSIDERED AND FINALLY ADOPTED the 31st day of October, 1988 A.D.

W.J. Hartley

MAYOR

J.R. McBride

CLERK

7032-2013
7553-2019

Corporation of the City of Maple Ridge
Bylaw No. 4117 - 1988

SCHEDULE "A"

Arenas					
Per Hour Rate (taxes not included)	Youth/Senior Non-Profit	Adult Non- Profit	Private	Commercial	Non- Resident
Ice - Prime Time	\$ 110.34	\$ 165.50	\$ 275.84	\$ 304.99	\$ 295.04
Ice - Non-Prime Time	\$ 82.76	\$ 124.13	\$ 206.88	\$ 228.74	\$ 221.28
Dry Floor* Prime Time	\$ 44.03	\$ 66.05	\$ 110.08	\$ 139.61	\$ 131.85

**Dry Floor Prime Time rates will take affect April 1, 2019*

Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988

SCHEDULE "B"

Fairgrounds Effective January 1, 2014					
<i>(taxes not included)</i>	Youth/Senior Non-Profit	Adult Non-Profit	Private	Commercial	Non-Resident
Barns Beef, Exhibition, Commercial	\$8.16	\$12.24	\$20.40	\$22.44	\$24.48
Grounds & Showrings	\$7.14	\$10.71	\$17.85	\$19.64	\$21.42
Stage is included at no-charge when booking the grounds.					

Corporation of the District of Maple Ridge
Bylaw No. 4117 - 1988

SCHEDULE "C"

Pools Effective January 1, 2014						
<i>(taxes not included)</i>	Swim Club	Youth/Senior Non-Profit	Adult Non-Profit	Private	Commercial	Non-Resident
Competition Pool	\$5.96	\$9.88	\$14.82	\$24.70	\$31.38	\$29.28
Leisure Pool	-					
Teach Pool (per lane)	\$5.07					
Hammond Pool	-	\$26.75	\$40.13	\$66.88	\$70.54	\$68.14
Harris Pool (whole pool)						

**Corporation of the District of Maple Ridge
Bylaw No. 4117 - 1988**

SCHEDULE "D"

Rooms Effective January 1, 2014					
(taxes not included)	Youth/Senior Non-Profit	Adult Non-Profit	Private	Commercial	Non-Resident
Multipurpose Room (capacity 1-15)	\$4.51	\$6.76	\$11.27	\$13.84	\$13.84
Pitt Meadows Family Recreation Centre - Youth Centre South Bonson Community Centre - Living Room, Upstairs Meeting Room, Boardroom Whonnock Lake Centre - Meeting Room					
Multipurpose Room (capacity 15-30)	\$9.01	\$13.52	\$22.53	\$27.67	\$27.67
Leisure Centre - Training Studio Hammond Community Centre - Preschool Maple Ridge Library - Alouette Room Pitt Meadows Family Recreation Centre - Preschool, Daycare Planet Ice - Meeting Room South Bonson Community Centre - Activity Room #2 Whonnock Lake Centre - Preschool					
Multipurpose Room (capacity 40-60)	\$11.83	\$17.75	\$29.58	\$35.57	\$32.62
Leisure Centre - Preschool Heritage Hall - Daycare Pitt Meadows Family Recreation Centre - Lobby					
Multipurpose Room (capacity 60-80)	\$13.94	\$20.91	\$34.85	\$48.36	\$45.36
Leisure Centre - Multipurpose Greg Moore Youth Centre - Lounge, Multipurpose Maple Ridge Library - Fraser Room Pitt Meadows Library - Meeting Room Pitt Meadows Family Recreation Centre - Multipurpose South Bonson Community Centre - Activity Room #1					
Gymnasiums	\$49.35	\$74.02	\$123.37	\$154.31	\$132.64
Leisure Centre Greg Moore Youth Centre Active Area Pitt Meadows Family Recreation Centre					

The non-prime time rates will be a 50% reduction of the regular rates in the Fees & Charges Schedule and will be applied to all hours outside of the prime time hours listed below:

Prime Time (Days of Week)
Monday - Friday
Saturday/Sunday (Year Round)

Prime Time (Times)
5:00pm - 9:00pm
8:00am - 9:00pm

Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988

SCHEDULE "E"

Halls Effective January 1, 2014					
<i>(taxes not included)</i>	Youth/Senior Non-Profit	Adult Non-Profit	Private	Commercial	Non-Resident
Medium (capacity 100-200)	\$25.46	\$38.20	\$63.66	\$83.17	\$78.12
Hammond Hall					
Heritage Hall - Lower floor					
Large (capacity 200-300)	\$37.98	\$56.97	\$94.95	\$111.04	\$106.78
Heritage Hall - Upper floor					
Specialty Hall (capacity 175-200)	\$83.18	\$124.77	\$207.95	\$232.68	\$232.68
South Bonson Community Centre – Banquet Room					
Whonnock Lake Centre – Main Hall					

The non-prime time rates will be a 50% reduction of the regular rates in the Fees & Charges Schedule and will be applied to all hours outside of the prime time hours listed below:

Monday – Friday
Saturday/Sunday (Year Round)

5:00pm – 9:00pm
8:00am – 9:00pm

Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988

SCHEDULE "F"

Kitchens Effective January 1, 2014					
Per Day Rate (taxes not included)	Youth/Senior Non-Profit	Adult Non-Profit	Private	Commercial	Non-Resident
	\$34.16	\$51.25	\$85.41	\$120.30	\$120.30
Fairgrounds Hammond Hall Heritage Hall Pitt Meadows Family Recreation Centre South Bonson Community Centre Whonnock Lake Centre					

Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988

SCHEDULE "G"

Maple Ridge Leisure Centre Admission Rates Effective January 1, 2014							
"Flexi" <i>(taxes not included)</i>	Single	10 Pass	20 Pass	1 month	3 months	6 months	1 year
Children	\$2.90	\$26.10	\$46.40	\$26.10	\$69.60	\$130.50	\$261.00
Youth	\$3.90	\$35.10	\$62.40	\$35.10	\$93.60	\$175.50	\$351.00
Senior	\$3.90	\$35.10	\$62.40	\$35.10	\$93.60	\$175.50	\$351.00
Adult	\$5.70	\$51.30	\$91.20	\$51.30	\$136.80	\$256.50	\$513.00
Family	\$10.44	\$98.46	\$167.04	\$98.46	\$262.56	\$492.30	\$984.60

**Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988**

SCHEDULE "H"

Pitt Meadows Family Recreation Centre Admission Rates Effective January 1, 2014							
<i>(taxes not included)</i>	Single	10 Pass	20 Pass	1 month	3 months	6 months	1 year
Children	\$2.61	\$23.49	\$41.76	\$23.49	\$62.64	\$117.45	\$234.90
Youth	\$3.52	\$31.68	\$56.32	\$31.68	\$84.48	\$158.40	\$316.80
Senior	\$3.52	\$31.68	\$56.32	\$31.68	\$84.48	\$158.40	\$316.80
Adult	\$5.02	\$45.18	\$80.32	\$45.18	\$120.48	\$225.90	\$451.80
Family	\$9.38	\$84.42	\$150.08	\$84.42	\$225.12	\$422.10	\$844.20

Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988

SCHEDULE "I"

Drop-In Skating Admission Rates Effective January 1, 2014			
<i>(taxes not included)</i>	Single	10 Pass	20 Pass
Children	\$2.60	\$23.40	\$41.60
Youth	\$3.50	\$31.50	\$56.00
Senior	\$3.50	\$31.50	\$56.00
Adult	\$4.73	\$42.57	\$75.68
Family	\$8.33	\$74.97	\$133.32
Parent & Tot	\$4.73	\$42.57	\$75.68

Corporation of the District of Maple Ridge
Bylaw No. 4117 - 1988

SCHEDULE "J"

Outdoor Pools Admission Rates Effective January 1, 2014		
<i>(taxes not included)</i>	Single	Season Pass
Children	\$1.76	\$31.68
Youth	\$2.37	\$42.66
Senior	\$2.37	\$42.66
Adult	\$3.03	\$54.54
Family	\$6.68	\$120.24

**Corporation of the District of Maple Ridge
Bylaw No. 4117 – 1988**

SCHEDULE "K"

Sports Fields			
Effective January 1, 2013			
<i>(taxes not included)</i>	CLASS A	CLASS B	CLASS C
Youth/Senior Non-Profit			
Commercial Use	\$22.07	\$16.44	\$5.49
Fundraising	\$11.04	\$8.22	\$2.75
Special Event	\$5.52	\$4.11	\$1.37
Regular Use	\$0.00	\$0.00	\$0.00
Adult Non Profit			
Commercial Use	\$22.07	\$16.44	\$5.49
Fundraising	\$22.07	\$16.44	\$5.49
Special Event	\$17.07	\$11.44	\$2.75
Regular Use	\$12.70	\$6.65	\$0.00
Local, Private or Political Groups			
Fundraising	\$33.11	\$24.66	\$8.24
Special Event	\$27.59	\$20.55	\$6.86
Regular Use	\$22.07	\$16.44	\$5.49
Local Commercial			
Fundraising	\$35.31	\$26.30	\$8.78
Special Event	\$29.79	\$22.19	\$7.41
Regular Use	\$24.28	\$18.08	\$6.04
Non Resident Groups			
Fundraising	\$37.52	\$27.95	\$9.33
Special Event	\$32.00	\$23.84	\$7.96
Regular Use	\$26.48	\$19.73	\$6.59
Sport Field User Annual Contribution			
Fall/Winter Clubs	\$30 per registration		
Spring/Summer Clubs	\$15 per registration		

Class A	Synthetic Fields at Samuel Robertson Secondary, Westview Secondary and Pitt Meadows Secondary; Hammond Stadium; Merkley Grass; Pitt Meadows Athletic Park; Thomas Haney Secondary; Albion Sports Complex (grass); Cliff Park; Harris North
Class B	Telosky; Albion; Jordan Park; Maple Ridge Park; Bonson; Ruskin Park; Selvey Park; Harris South; Tolmie Park; Edith McDermott Park
Class C	All weather fields at Merkley and Albion Sports Complex

Corporation of the District of Maple Ridge
Bylaw No. 4117 - 1988

SCHEDULE "L"

Miscellaneous Fees Effective January 1, 2014	
<i>(taxes not included)</i>	
Park Shelter	\$70.00 (up to a full day)
Event Trailer	\$147.31 (day rate)
Tennis/Sport Court	\$15.00 (applicable to commercial use only)



mapleridge.ca

CITY OF MAPLE RIDGE

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: UBCM Resolutions 2020

MEETING DATE: June 23, 2020
FILE NO: 01-0230-08
MEETING: Council

EXECUTIVE SUMMARY:

The Union of British Columbia Municipalities (UBCM) provides a common voice for local government throughout the Province. Staff have confirmed that in order for resolutions to be submitted to the 2020 UBCM Convention they must first be endorsed by Council. The deadline for submission to the UBCM is June 30, 2020.

There are five resolutions being proposed for submission to the UBCM Convention:

1. Mandatory Signage for Bear Traps
2. Banning Shock Collars
3. Criminal Record Checks for Local Government Elected Officials
4. Independent Office of Integrity for Local Government
5. Cannabis Enforcement and Regulation within the Agricultural Land Reserve

RECOMMENDATION:

That the following resolutions be forwarded to UBCM for consideration at the 2020 UBCM Convention:

1. Mandatory Signage for Bear Traps
2. Banning Shock Collars
3. Criminal Record Checks for Local Government Elected Officials
4. Independent Office of Integrity for Local Government
5. Cannabis Enforcement and Regulation within the Agricultural Land Reserve

DISCUSSION:

The following resolutions are proposed:

#1: Mandatory Signage for Bear Traps

WHEREAS Dogs are accidentally killed yearly across British Columbia when they are unintentionally lured into a baited bear trap often resulting in a gruesome death,

AND WHEREAS People are unable to avoid bear traps because there is no requirement for signage to be posted warning of said traps,

THEREFORE BE IT RESOLVED THAT The Province of British Columbia impose a mandatory requirement for trappers to post signage warning of active bear traps in the area to prevent accidental harm to those in the area.

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#2: Banning Shock Collars

WHEREAS Shock collars, also known as electronic collars or e-collars, are considered inhumane by the SPCA and other animal welfare organizations in BC for causing both physical and psychological pain for pets by delivering up to 6,000 volts of electricity or spraying noxious chemicals to control an animal's behavior,

AND WHEREAS Many countries around the world including countries in Europe as well as parts of Australia have banned the use shock collars because alternative positive training methods that do not cause an animal unnecessary harm, pain or suffering are readily available to everyone free of charge,

THEREFORE BE IT RESOLVED THAT The Province of British Columbia immediately ban the use of shock collars across the province as a tool for training and or punishment for pets.

#3: Criminal Record Checks for Local Government Elected Officials

WHEREAS Individuals holding office in a local government are elected into a position of trust and power where they have access to sensitive data and are expected to "conduct themselves in an open, transparent and accountable manner" according to the Candidate's Guide To Local Government Elections in B.C.;

AND WHEREAS There is no requirement for elected officials to submit criminal record checks despite being privy to highly sensitive information and allowed to participate in activities that other employers would require criminal record checks for, such as volunteering,;

THEREFORE BE IT RESOLVED THAT Section 87 of the Local Government Act be amended to include criminal record checks as part of the nomination documents submitted by candidates thereby creating a high standard of transparency that will improve public trust in locally elected officials.

The resolution above was submitted to the LMLGA in 2017 but was not endorsed to be forwarded to the UBCM Convention.

#4: Independent Office of Integrity for Local Government

WHEREAS the UBCM Working Group on Responsible Conduct (WGRC) has been working extensively to support local government initiatives to address less-than-responsible local government conduct by providing local government council and board members with a set of principles and general standards of conduct that can be used to develop their own Code of Conduct ;

AND WHEREAS the WGRC continues to work on potential legislative change that focuses on the importance of councils and boards turning their minds to Codes of Conduct in a standardized and consistent manner;

THEREFORE BE IT RESOLVED that UBCM request the Provincial Government to establish an Independent Office of Integrity to serve the public, elected officials and local government officials in an advisory, educational and investigative role in the development, application and enforcement of Codes of Conduct.

#5: Cannabis Enforcement and Regulation within the Agricultural Land Reserve

WHEREAS the Union of British Columbia Municipalities (UBCM) was not consulted on the legislative and regulatory changes that have changed the characterization of cannabis production on the Agricultural Land Reserve (ALR) to "farm use";

AND WHEREAS the *Farm Practices Protection (Right to Farm) Act* protects and exempts farm operation from liability in nuisance for any odour, noise, dust or other disturbance resulting from that farm operation;


THEREFORE BE IT RESOLVED that the Ministry of Agriculture continue to work with the UBCM and the Joint Provincial-Local Government Committee on Cannabis Regulation (JCCR) to address the concerns of local government in relation to the water usage, waste, light emission, and the lack of enforcement of cannabis rules within the Agricultural Land Reserve.

ALTERNATIVES:


Council may wish to support or amend all or some of the resolutions presented herein.

CONCLUSIONS:

Municipal Council resolutions presented for debate at the UBCM Convention can drive change in legislation and policy at the Federal and Provincial level.



Reviewed by: Stephanie Nichols
Corporate Officer



Concurrence: Al Horsman
Chief Administrative Officer



CITY OF MAPLE RIDGE

mapleridge.ca

TO:	His Worship Mayor Morden and Members of Council	MEETING DATE:	June 23, 2020
FROM:	Chief Administrative Officer	FILE NO:	01-0110-01
		MEETING:	Council
SUBJECT:	2019 Consolidated Financial Statements		

EXECUTIVE SUMMARY:

Financial reporting in local government serves to communicate the fiscal health and well being of a community. This report focuses on our Financial Statements for the 2019 fiscal year. Overall results for the year are positive. Our Net Financial Position decreased by \$2.64 million to \$112.3 million and our Accumulated Surplus increased by \$64.45 million to \$1.223 billion.

The 2019 Financial Statements have been prepared using the accounting standards and reporting model mandated by the Public Sector Accounting Board (PSAB). BDO Canada LLP has conducted an audit of the financial statements and they will form an integral part of the 2019 Annual Report. In order to satisfy current audit rules, Council must formally approve the financial statements before BDO can issue their final audit opinion. The audit report will be "unqualified". This is the highest form of assurance an auditor can provide and indicates the statements are free of material misstatements and that readers can rely on them for decision making purposes.

RECOMMENDATION:

That the 2019 Financial Statements be approved.

DISCUSSION:

Financial reporting in local government serves to communicate the fiscal health and well-being of a community and there are two main documents that accomplish this: the **Financial Plan** and the **Financial Statements**, each with very different objectives.

The **Financial Plan** is a forward looking document that sets out the City's planned expenditures and transfers to reserves for the next five years and identifies how those expenditures and transfers will be funded. The *Community Charter* requires that municipalities prepare a "balanced budget". This means that the total of any proposed expenditures or transfers to reserves must not exceed the total of proposed revenues or transfers from reserves. In simple terms, the Financial Plan answers the question: "What are we going to do and how are we going to pay for it?"

In contrast, the **Financial Statements** are a retrospective document that looks at the year just ended, comparing our actual financial performance in the year to the activities identified in the Financial Plan. The *Community Charter* requires municipalities to prepare the financial statements in accordance with generally accepted accounting principles for local governments. In Canada, those principles are set by the

Public Sector Accounting Board (PSAB). The objective of a municipality's Financial Statements is to report on its financial condition at a point in time and its financial performance for the year.

The differing objectives of the Financial Plan and the Financial Statements, combined with the different rules guiding their preparation, can easily result in confusion when trying to compare the two documents. For example, the Financial Plan treats transfers to and from reserves as transactions, while the Financial Statements, at the consolidated level, ignore transfers as they take place within the corporate entity. It is important to keep the different rules and objectives in mind as we look at financial results for 2019.

The 2019 Consolidated Financial Statements present the City's results of operations during the year and the financial position as at December 31, 2019. Financial performance is compared to the Financial Plan adopted in May of 2019 as this was the plan used to set property taxation rates, and to prior year results. The transactions included in the Financial Statements are those that took place between the City and outside parties. Internal transactions, such as transfers between reserves, which are important for financial planning purposes, have been eliminated.

The City's auditors, BDO Canada LLP, have conducted an audit of the Statements and, pending Council's acceptance of the statements, will finalize their audit report. The audit report will be "unqualified". This is the highest form of assurance an auditor can provide and indicates the statements are free of material misstatements and that readers can rely on them for decision making purposes.

There are a number of key terms in the Financial Statements that are important to be familiar with before drawing any conclusions about the 2019 results:

- **Net Financial Position:** provides a snapshot of where the City stands financially in terms of the resources it held and the debt it owed at December 31. It is the difference between our financial assets and our liabilities and provides an indication of financial flexibility. If Net Financial Position is negative it is referred to as Net Debt and indicates that revenues that will be collected in the future are needed to pay for liabilities that already exist. If it is positive, it is referred to as Net Financial Assets and indicates a greater degree of flexibility.
- **Accumulated Surplus:** is the total of all the City's assets, both financial and non-financial, less our liabilities. It represents the net economic resources available for service provision. The largest element of this number is the value of our tangible capital assets, the physical assets used in day-to-day service provision, meaning the accumulated surplus balance does not represent a source of cash available to finance our day-to-day operations.
- **Annual Surplus:** is the difference between annual revenues and expenses, as reported on the Statement of Operations. It is important to keep in mind that items included in revenue do not necessarily represent cash received during the year. For example, the value of contributed tangible capital assets is reported as a revenue, but does not represent cash the City received. On the expense side, only the annual cost of using those assets is recognized through amortization. The amounts expended for capital investment or renewal is not included, nor is the value of infrastructure contributed to the City through development. This accounting requirement results in a large reported annual surplus, but does not represent a cash surplus.

The City's Financial Statements are comprised of the following:

- Statement of Financial Position
- Statement of Operations
- Statement of Change in Net Financial Assets
- Statement of Cash Flow

- Significant Accounting Policies
- Notes to the Financial Statements
- Segment Report
- Supporting Schedules 1-6

The Notes to the Financial Statements provide additional information for the items found on the Statement of Financial Position and the Statement of Operations and are referenced on each of these statements.

A discussion of the Financial Statements follows:

Statement of Financial Position

The Statement of Financial Position is the public sector version of a balance sheet. One of the key indicators on this statement is the Net Financial Position. As noted above, it is calculated by subtracting our liabilities from our financial assets and is one piece of information available to assess the City's financial flexibility. At the end of 2019 the City had Net Financial Assets of \$112.33 million, a decrease of \$2.64 million from 2018.

The other key indicator that appears on this statement is Accumulated Surplus. As noted above, this is the total of all our assets, both financial and non-financial, less our liabilities. This number represents the net economic resources available for service provision. The bulk of this number comes from the value of our tangible capital assets, meaning it does not represent cash that can be spent to support our operations. At the end of 2019, the City's accumulated surplus was \$1.223 billion compared to \$1.158 billion in 2018. Of this amount, \$1.094 billion is the book value of the City's tangible capital assets, compared to \$1.027 billion in 2018.

Key items to note on the Statement of Financial Position:

- Combined cash and cash equivalents, and portfolio investments increased by \$4.48 million. This is the result of increased amounts available to invest due to timing differences between planned and actual expenditures, and increases in accounts payable and accrued liabilities at year-end.
- Inventory available for sale has decreased by \$2.4 million following the sale of the town centre lands.
- Debt decreased by \$2.53 million due to the scheduled repayment of debt, most of which relates to our Town Centre facilities.
- Accounts payable and accrued liabilities increased by \$6.26 million

Statement of Operations

The Statement of Operations is the public sector version of an income statement, reporting revenues and expenses for the year. The difference between revenues and expenses is referred to as the annual surplus if positive, or the annual deficit if negative. It is important to note that accounting rules require us to include in revenues items such as the value of infrastructure contributed to the city through development, but on the expense side we include only the cost of using those assets through amortization, not the value of the assets received. This results in a reported annual surplus that does not represent a cash surplus. In 2019, the City recorded contributed infrastructure with a value of \$34.16 million. This amount was recorded as revenue. On the expense side, the amortization recorded for these assets was \$358K. The City's Annual Surplus was \$64.45 million and over half of this amount comes from the transactions associated with contributed assets received during the year and, as noted previously, there is no cash received by the City related to these assets.

As noted earlier in the report, when the Financial Plan is prepared, we ensure that all planned sources of funding are equal to all planned uses of funding. This is referred to as a "balanced budget". Not all of the elements that result in a balanced budget are included in the Statement of Operations. Some Financial

Plan transactions, such as transfers to and from reserves, are eliminated from the summary financial statements as they are internal transactions; other items are not included as they do not meet the definition of an expense. For example, our planned investment in tangible capital assets will result in an expenditure of resources, but not an expense. The annual cost of using our tangible capital assets, recorded as amortization, is an expense and is included on this statement. A reconciliation between the Financial Plan and the Financial Statements is shown in Note 18 to the Financial Statements.

The following discusses the Statement of Operations:

Consolidated Revenues: Actual \$197.6 million; Budget \$224.8 million

Not all monies the City receives are recorded as revenues at the time of receipt. Monies, such as Development Cost Charges, that are collected for specific capital works are recorded as a liability when received. When we budget for the capital expenditures that are funded from these sources we also budget to record the revenue, which results in a draw down of the liability. If capital expenditures do not occur, no revenue is recognized and the funds remain on hand, recorded as a liability.

In 2019, consolidated revenues were below budget by \$27 million. This is comprised of variances in a number of categories, particularly those related to capital. The following highlights some of the key variances:

- User fees and other revenues exceeded budget estimates by \$1.5 million with fees related to development such as building permits, inspection and connection fees exceeding expectations, offset by shortfalls related to the extended closure of the Leisure Centre.
- Government Transfers (grants) revenues below budget estimates by \$9.8 million, due to timing differences between budget and actual expenditures as well as project start times being deferred pending outcomes of grant applications.
- Development revenues below budget estimates by \$35 million, due in large part to factors such as DCC liabilities not being drawn down to fund the related work.
- Interest income greater than budget estimates by \$3.4 million.
- Developer contributed assets greater than budget estimates by \$14 million.

As noted above, revenues below budget estimates for development revenues do not represent a cash shortfall as the related expenditures did not occur. Similarly, the revenue amount recorded for contributed assets does not represent a cash windfall as this number represents the value of assets received, not a payment received by the City.

Consolidated Expenses – Actual \$133.2 million; Budget \$144.8 million

Expenses are comprised of general operating expenses for goods and services, labour, interest on debt and amortization of our tangible capital assets. The actual cash expended to invest in the replacement or acquisition of assets is not reflected on this statement.

In 2019, consolidated expenses were below budget by \$11.6 million. Some key items contributing to this result include:

- Approximately \$1.3 million in interest costs related to authorized borrowing that has not yet been entered into.
- \$1.8 million from the RCMP contract.
- Approximately \$6.5 million in projects scheduled for 2019 that will proceed in 2020
- Savings of approximately \$3.9 million on labour costs, due in part to recruitment challenges experienced in 2019
- Approximately \$3 million in savings from Parks Recreation & Culture.
- An accounting entry to revalue the remaining remediation work required at the Cottonwood Landfill of \$3.6 million.

- Costs associated with the St. Anne's camp of approximately \$1.3 million

Statement of Change in Net Financial Assets

The change in Net Financial Position in a year is explained by the difference between revenues and expenditures. If we recognize more revenue than we expend, then the net financial position will increase; if less then it will decrease. In 2019, the City's financial position decreased by \$2.64 million to \$112.3 million. It is important to keep in mind that as part of the City's long-term financial planning processes, we may collect revenues over time to build capacity for future expenditures. This practice will increase the City's financial assets, and the net financial position, until the related expenditures occur.

Statement of Cash Flow

The Statement of Cash Flow explains the change in the balance of cash and cash equivalents for the year, showing the impact of various types of transactions on the balance. For example the statement shows that \$44.4 million was generated from operating activities and that \$51.8 million was used for capital activities.

Segment Report

The Segment Report enhances the information found on the Consolidated Statement of Operations. The information is laid out in the same manner, but provides a greater level of detail. City services have been segmented by grouping activities by function, as directed by PSAB. For example, protection of the public is achieved by activities such as bylaw enforcement and inspection services in addition to police and fire fighting services, so all of these activities are reported as part of the Protective Services segment. Revenues that are directly related to the costs of a function have been reported in each segment, including revenues related to capital investment. Expenses are broken down into the categories of goods and services, labour, debt servicing, and amortization. The Segment Report allows us to see how much each segment contributes to the annual surplus before considering allocations of taxes and other municipal resources. As described earlier, annual surplus is the difference between annual revenues and expenses.

The following table shows the departments included in each segment:

Reporting Segments						
General Gov't	Protective Svc	Recreation & Cultural	Planning; Public Health & Other	Transportation	Water	Sewer
Human Resources	Police	Parks	Planning	Engineering	Water	Sewer
Clerks	Fire	Leisure Svc	Recycling	Operations		
Administration	Bylaws	Youth Svc	Cemetery	Drainage		
Finance	Inspection Svc	Arts	Social Planning	Roads		
Purchasing	Emergency Svc	Library				
Information Svc						
Legislative Svc						
Economic Dev						
Communications						

The above discussion focuses on the Consolidated Financial Statements, and, as noted, consists of transactions only with outside parties; internal transactions, such as transfers are not included. It is useful to look at some areas of our organization in isolation, particularly the General Revenue Fund and the Sewer and Water Utilities. While the Financial Statements do not show each of these elements in isolation, aggregated information is shown on Schedules 1 and 3 to the Consolidated Financial Statements.

General Revenue

The majority of the City's diverse day-to-day operations fall within the General Revenue fund and include activities ranging from the development of plans to guide the community's future, to maintaining infrastructure such as roads to all the activities integral to the delivery of Council's strategic plan.

The financial plan projected that the General Revenue Accumulated Surplus balance would be drawn down by \$1.19 million in 2019. Actual results saw the balance drawn down by \$3.49 million to \$7.62 million. The main driver of this reduction was accounting entry related to the former Cottonwood Landfill Site. As noted in the Financial Statements, the cash flows for this item will occur in the future.

Sewer and Water Utilities

The Sewer and Water Utilities are self-funded business units that manage the collection and distribution of water and liquid waste as well as the related infrastructure. A large portion of the costs in the utilities are driven by the Regional District and Council has used a rate stabilization policy for a number of years to manage fluctuations in these costs. Under this policy, accumulated surplus amounts are deliberately built in a systematic manner over a period of time in order to provide for our commitment towards larger regional projects as well as variations in our own annual infrastructure investment. This practice allows Council to smooth the impact of variations in annual spending levels on our rate payers.

As projected, the accumulated surplus balance in the Sewer Utility was drawn down in 2019 and the balance in the Water Utility increased. The Regional District has indicated that their projected rate increases for sewer and water will be higher than previously indicated which is likely to introduce pressures on the City's surplus balances. City rates for sewer were adjusted for 2019 and rates for both sewer and water will be revisited as needed to ensure adequate funding for the City's infrastructure replacement.

The following shows the accumulated surplus amounts in each of the utilities and can also be found in Note 14 to the Financial Statements:

	2019	2018
Sewer Utility	\$ 7,216,552	\$ 8,512,633
Water Utility	\$ 15,518,140	\$ 13,799,283

Reserves

The City's reserves are an important financial planning tool and provide a mechanism to build capacity over time to undertake strategic projects. They are reviewed on a regular basis to assess their adequacy, with adjustments made when capacity permits.


The term "reserve" is often applied to both our reserve funds and our reserve accounts and there are important distinctions between the two resources. Reserve funds are statutory, meaning they are established by bylaw for specific purposes. Once monies are transferred to a reserve fund, they can only be used for the purpose outlined in the establishing bylaw. Reserve accounts are appropriations of surplus, established to meet specific business needs. They can be established or dissolved as directed by Council, as long as identified business needs are met and risks are managed appropriately.

At the beginning of 2019, the City had \$104.2 million in total reserves, as shown in Schedule 6 to the Financial Statements. At the end of 2019 the City has \$105.8 million in reserves, an increase of \$1.6 million. This variance is the combined result of planned capital investment that will occur in the future and end of year provisions for various operating projects and initiatives.

CONCLUSIONS:

The 2019 Financial Statements have been prepared using the accounting standards and reporting model mandated by the Public Sector Accounting Board (PSAB). BDO Canada LLP has conducted an audit of the financial statements. In order to satisfy current audit rules, Council must formally approve the financial statements before BDO can issue their final audit opinion. The audit report will be "unqualified". This is the highest form of assurance an auditor can provide and indicates the statements are free of material misstatements and that readers can rely on them for decision making purposes.

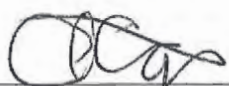
Overall results for 2019 are positive. We ended the year with an Annual Surplus amount of \$64.45 million, and an Accumulated Surplus balance of \$1.22 billion. The City's reserves are sound and the long-term financial plans reflect the ability of the City to meet its future obligations.



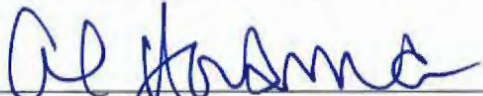
Prepared by: Catherine Nolan, CPA, CGA
Corporate Controller



Reviewed by: Trevor Thompson, BBA, CPA, CGA
Chief Financial Officer



Approved by: Christina Crabtree
Acting GM, Corporate Services



Concurrence: Al Horsman
Chief Administrative Officer

Attachments: 2019 Financial Statements
BDO Audit Results Letter

City of Maple Ridge

Financial Statements and Auditor's Report

For the Year Ended December 31, 2019



Management's Responsibility for Financial Reporting

The information in this report is the responsibility of management. The consolidated financial statements have been prepared in accordance with Canadian Public Sector accounting guidelines as outlined under "Significant Accounting Policies". These include some amounts based on management's best estimates and careful judgment.

Management maintains a system of internal accounting controls to provide reasonable assurance that assets are safeguarded and that transactions are authorized, recorded, and reported properly. Management also administers a program of proper business compliance.

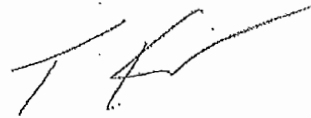
BDO Canada LLP, the Municipality's independent auditors have audited the accompanying financial statements. Their report accompanies this statement.

Council carries out its responsibility for the consolidated financial statements jointly with its Audit and Finance Committee. The Committee meets with management on a scheduled basis and at least semi-annually with BDO Canada LLP to review their activities and to discuss auditing, internal control, accounting policy, and financial reporting matters.

BDO Canada LLP has unrestricted access to the Municipality and Council. Council approves the consolidated financial statements and reviews the recommendations of the independent auditors for improvements to controls as well as the actions of management to implement such recommendations.



Al Horsman
Chief Administrative Officer



Trevor Thompson, BBA, CPA, CGA
Chief Financial Officer

Independent Auditor's Report

To the Mayor and Council of the City of Maple Ridge

Opinion

We have audited the consolidated financial statements of the City of Maple Ridge and its controlled entities (the "City"), which comprise the consolidated Statement of Financial Position as at December 31, 2019, and the consolidated Statements of Operations, Change in Net Financial Assets and Cash Flows for the year then ended, and notes and schedules to the consolidated financial statements, comprising a summary of significant accounting policies and other explanatory information.

In our opinion, the accompanying consolidated financial statements present fairly, in all material respects, the consolidated financial position of the City as at December 31, 2019 and its results of operations, changes in net financial assets, and cash flows for the year then ended in accordance with Canadian public sector accounting standards.

Basis for Opinion

We conducted our audit in accordance with Canadian generally accepted auditing standards. Our responsibilities under those standards are further described in the Auditor's Responsibilities for the Audit of the Consolidated Financial Statements section of our report. We are independent of the City in accordance with the ethical requirements that are relevant to our audit of the consolidated financial statements in Canada, and we have fulfilled our other ethical responsibilities in accordance with these requirements. We believe that the audit evidence we have obtained is sufficient and appropriate to provide a basis for our opinion.

Responsibilities of Management and Those Charged with Governance for the Consolidated Financial Statements

Management is responsible for the preparation and fair presentation of the consolidated financial statements in accordance with Canadian public sector accounting standards, and for such internal control as management determines is necessary to enable the preparation of consolidated financial statements that are free from material misstatement, whether due to fraud or error.

In preparing the consolidated financial statements, management is responsible for assessing the City's ability to continue as a going concern, disclosing, as applicable, matters related to going concern and using the going concern basis of accounting unless management either intends to liquidate the City or to cease operations, or has no realistic alternative but to do so.

Those charged with governance are responsible for overseeing the City's financial reporting process.

Auditor's Responsibilities for the Audit of the Consolidated Financial Statements

Our objectives are to obtain reasonable assurance about whether the consolidated financial statements as a whole are free from material misstatement, whether due to fraud or error, and to issue an auditor's report that includes our opinion. Reasonable assurance is a high level of assurance, but is not a guarantee that an audit conducted in accordance with Canadian generally accepted auditing standards will always detect a material misstatement when it exists. Misstatements can arise from fraud or error and are considered material if, individually or in the aggregate, they could reasonably be expected to influence the economic decisions of users taken on the basis of these consolidated financial statements.

As part of an audit in accordance with Canadian generally accepted auditing standards, we exercise professional judgment and maintain professional skepticism throughout the audit. We also:

- Identify and assess the risks of material misstatement of the consolidated financial statements, whether due to fraud or error, design and perform audit procedures responsive to those risks, and obtain audit evidence that is sufficient and appropriate to provide a basis for our opinion. The risk of not detecting a material misstatement resulting from fraud is higher than for one resulting from error, as fraud may involve collusion, forgery, intentional omissions, misrepresentations, or the override of internal control.
- Obtain an understanding of internal control relevant to the audit in order to design audit procedures that are appropriate in the circumstances, but not for the purpose of expressing an opinion on the effectiveness of the City's internal control.
- Evaluate the appropriateness of accounting policies used and the reasonableness of accounting estimates and related disclosures made by management.
- Conclude on the appropriateness of management's use of the going concern basis of accounting and, based on the audit evidence obtained, whether a material uncertainty exists related to events or conditions that may cast significant doubt on the City's ability to continue as a going concern. If we conclude that a material uncertainty exists, we are required to draw attention in our auditor's report to the related disclosures in the consolidated financial statements or, if such disclosures are inadequate, to modify our opinion. Our conclusions are based on the audit evidence obtained up to the date of our auditor's report. However, future events or conditions may cause the City to cease to continue as a going concern.
- Evaluate the overall presentation, structure and content of the consolidated financial statements, including the disclosures, and whether the consolidated financial statements represent the underlying transactions and events in a manner that achieves fair presentation.
- Obtain sufficient appropriate audit evidence regarding the financial information of the entities or business activities within the Group to express an opinion on the consolidated financial statements. We are responsible for the direction, supervision and performance of the group audit. We remain solely responsible for our audit opinion.

We communicate with those charged with governance regarding, among other matters, the planned scope and timing of the audit and significant audit findings, including any significant deficiencies in internal control that we identify during our audit.

Chartered Professional Accountants

Vancouver, British Columbia
Date of Council Approval

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Consolidated Statement of Financial Position
as at December 31, 2019

	2019	2018
Financial Assets		
Cash and cash equivalents (Note 1)	\$ 63,790,576	\$ 22,186,741
Portfolio investments (Note 2)	164,538,143	201,666,082
Accounts receivable (Note 3)	16,882,073	15,515,417
Recoverable local improvements (Note 4)	1,693,971	1,379,072
Other assets (Note 5)	797,977	779,813
Inventory available for resale	<u>56,169</u>	<u>2,459,585</u>
	<u>247,758,909</u>	<u>243,986,710</u>
 Liabilities		
Accounts payable and accrued liabilities (Note 6)	31,126,120	24,858,292
Deferred revenue (Note 8)	16,801,812	15,760,504
Restricted revenue (Note 9)	36,581,674	35,996,158
Refundable performance deposits and other	23,625,735	21,908,866
Employee future benefits (Note 10)	3,999,000	4,662,100
Debt (Note 11, Schedule 4)	<u>23,291,350</u>	<u>25,822,631</u>
	<u>135,425,691</u>	<u>129,008,551</u>
 Net Financial Assets	 <u><u>112,333,218</u></u>	 <u><u>114,978,159</u></u>
 Non Financial Assets		
Tangible capital assets (Note 12, Schedule 5)	1,094,315,052	1,027,400,677
Undeveloped land bank properties (Note 13)	15,526,529	15,526,529
Supplies inventory	317,502	326,363
Prepaid expenses	<u>665,550</u>	<u>471,486</u>
	<u>1,110,824,633</u>	<u>1,043,725,055</u>
 Accumulated Surplus (Note 14)	 <u><u>\$ 1,223,157,851</u></u>	 <u><u>\$ 1,158,703,214</u></u>

Al Horsman
Chief Administrative Officer

Trevor Thompson, BBA, CPA, CGA
Chief Financial Officer

The accompanying summary of significant accounting policies and notes to the Consolidated Financial Statements are an integral part of this statement.

Consolidated Statement of Operations
For the year ended December 31, 2019

	Actual 2019	Budget 2019 (Note 18)	Actual 2018
Revenue (Segment Report, Note 21)			
Taxes for municipal purposes (Note 15)	\$ 90,205,710	\$ 90,084,654	\$ 85,645,660
User fees and other revenue	45,678,005	44,172,582	42,266,363
Government transfers (Note 16)	5,427,368	15,256,425	4,862,137
Development revenue	15,026,277	50,015,589	15,787,623
Interest and investment income	5,636,251	2,247,988	4,581,311
Gaming revenues	1,703,170	1,500,000	1,781,613
Refinancing and asset disposal gains (losses)	(221,954)	1,500,000	(1,470,673)
Contributed tangible capital assets (Note 12)	<u>34,156,244</u>	<u>20,000,000</u>	<u>29,727,691</u>
	197,611,071	224,777,238	183,181,725
Expenses (Segment Report, Note 21)			
Protective services	39,230,587	42,909,582	37,458,755
Transportation services	20,748,185	23,899,352	19,445,582
Recreation and cultural	19,176,835	22,485,994	18,754,440
Water utility	13,952,992	16,056,086	13,787,153
Sewer utility	12,427,643	14,020,250	11,688,964
General government	16,477,245	18,475,279	15,252,598
Planning, public health and other	<u>11,142,947</u>	<u>6,916,183</u>	<u>6,030,684</u>
	133,156,434	144,762,726	122,418,176
 Annual Surplus	 <u>64,454,637</u>	 <u>80,014,512</u>	 <u>60,763,549</u>
 Accumulated Surplus - beginning of year	 <u>1,158,703,214</u>	 <u>1,158,703,214</u>	 <u>1,097,939,665</u>
 Accumulated Surplus - end of year (Note 14)	 <u>\$ 1,223,157,851</u>	 <u>\$1,238,717,726</u>	 <u>\$1,158,703,214</u>

The accompanying summary of significant accounting policies and notes to the Consolidated Financial Statements are an integral part of this statement.

Consolidated Statement of Change in Net Financial Assets
For the year ended December 31, 2019

	Actual 2019	Budget 2019 (Note 18)	Actual 2018
Annual Surplus	\$ 64,454,637	\$ 80,014,512	\$ 60,763,549
Add (Less):			
Change in Tangible Capital Assets			
Acquisition of tangible capital assets	(92,131,841)	(216,964,685)	(74,540,940)
Amortization	21,257,458	21,329,763	21,168,109
Proceeds from disposal of tangible capital assets	928,432	1,500,000	183,461
(Gain) loss on disposal of tangible capital assets	<u>3,031,576</u>	<u>(1,500,000)</u>	<u>1,933,914</u>
	(66,914,375)	(195,634,922)	(51,255,456)
Change in Other Non Financial Assets			
Decrease (increase) in supplies inventory	8,861	-	37,523
Decrease (Increase) in prepaid expenses	<u>(194,064)</u>	<u>-</u>	<u>823,140</u>
	(185,203)	-	860,663
Increase (decrease) in Net Financial Assets	(2,644,941)	\$ (115,620,410)	10,368,756
Net Financial Assets beginning of the year	<u>114,978,159</u>	<u>114,978,159</u>	<u>104,609,403</u>
Net Financial Assets (Net Debt) end of the year	<u>\$ 112,333,219</u>	<u>\$ (642,251)</u>	<u>\$ 114,978,159</u>

The accompanying summary of significant accounting policies and notes to the Consolidated Financial Statements are an integral part of this statement

Consolidated Statement of Cash Flow
For the year ended December 31, 2019

	Actual 2019	Actual 2018
Operating transactions		
Annual surplus	\$64,454,637	\$60,763,549
Items not utilizing cash		
Amortization	21,257,458	21,168,109
Loss on disposal of assets	221,954	1,470,673
Contributed tangible capital assets	(34,156,244)	(29,727,691)
Actuarial adjustment on debt	(359,245)	(321,333)
Restricted revenues recognized	<u>(13,852,584)</u>	<u>(14,711,412)</u>
	(26,888,661)	(22,121,654)
Change in non-cash operating items		
Increase in prepaid expenses	(194,064)	823,140
Decrease (increase) in supplies inventory	8,861	37,523
Decrease (increase) in accounts receivable	(1,366,656)	(851,984)
Decrease (increase) in recoverable local improvements	(314,899)	(252,825)
Decrease (increase) in other assets	(18,164)	(16,605)
Increase (decrease) in accounts payable and accrued liabilities	6,267,828	4,062,541
Increase (decrease) in deferred revenue	1,041,308	1,562,321
Increase (decrease) in refundable performance deposits	1,716,869	(1,494,848)
Increase (decrease) in employee future benefits	<u>(663,100)</u>	<u>94,800</u>
	6,477,983	3,964,063
 Cash provided by operating transactions	 <u>44,043,959</u>	 <u>42,605,958</u>
 Capital transactions		
Proceeds on disposal of tangible capital assets	928,432	183,461
Cash used to acquire tangible capital assets	<u>(57,975,597)</u>	<u>(44,813,249)</u>
	<u>(57,047,165)</u>	<u>(44,629,788)</u>
 Investing transactions		
Proceeds on disposal of land available for sale	5,213,038	1,582,750
Decrease (increase) in portfolio investments	<u>37,127,939</u>	<u>(13,948,231)</u>
	<u>42,340,977</u>	<u>(12,365,481)</u>
 Financing transactions		
Debt repayment	(2,172,036)	(2,129,743)
Collection of restricted revenues	<u>14,438,100</u>	<u>11,073,918</u>
	<u>12,266,064</u>	<u>8,944,175</u>
 Increase (decrease) in cash and cash equivalents	 41,603,835	 (5,445,136)
Cash and cash equivalents - beginning of year	<u>22,186,741</u>	<u>27,631,877</u>
Cash and cash equivalents - end of year	<u>\$63,790,576</u>	<u>\$22,186,741</u>

The accompanying summary of significant accounting policies and notes to the Consolidated Financial Statements are an integral part of this statement

Summary of Significant Accounting Policies
For the year ended December 31, 2019

The City of Maple Ridge (the "City") is a municipality in the province of British Columbia and operates under the provisions of the Community Charter. The City provides municipal services such as fire, public works, planning, parks, recreation and other general government services.

(a) Reporting Entity and Basis of Consolidation

These financial statements have been prepared in accordance with Canadian Public Sector Accounting Standards (PSAS) using guidelines developed by the Public Sector Accounting Board of the Chartered Professional Accountants of Canada.

They consolidate the activities of all of the funds of the City and the City's wholly owned subsidiaries C.D.M.R. Developments Ltd. and Maple Ridge Municipal Holdings Ltd. Transactions between the City's funds and wholly owned subsidiaries have been eliminated and only transactions with outside entities are reported.

(b) Basis of Accounting

The basis of accounting followed in these financial statements is the accrual method and includes revenues in the period in which the transactions or events occurred that gave rise to the revenues and expenses in the period the goods and services were acquired and a liability was incurred.

(c) Non-financial Assets

Non-financial assets are not available to discharge existing liabilities and are held for use in the provision of services. They have useful lives extending beyond the current year and are not intended for sale in the ordinary course of business.

(d) Tangible Capital Assets

Tangible capital assets are a special class of non-financial assets and are recorded at cost less accumulated amortization. Cost includes all costs directly attributable to acquisition or construction of the tangible capital asset including transportation and installation costs, design and engineering fees, legal fees and site preparation costs. Interest costs are not capitalized during construction. Amortization is recorded on a straight line basis over the estimated life of the tangible capital asset commencing once the asset is put into use. Assets under construction are not amortized. Contributed tangible capital assets are recorded at estimated fair value at the time of the contribution and are also recorded as revenue.

Estimated useful lives of tangible capital assets are as follows:

Buildings (including building components)	7 to 50 years
Transportation network	10 to 75 years
Storm sewer system	10 to 75 years
Fleet and equipment	8 to 20 years
Technology	3 to 25 years
Water system	10 to 85 years
Sanitary sewer system	30 to 75 years
Furniture and fixtures	3 to 20 years
Structures	15 to 75 years

Natural resources, works of art and historic assets are not recorded as assets in these consolidated financial statements.

(e) Liability for Contaminated Sites

Contaminated sites are a result of contamination being introduced into air, soil, water or sediment of a chemical, organic or radioactive material or live organism that exceeds an environmental standard.

A liability for remediation of a contaminated site is recognized when a site is not in productive use or an unexpected event occurs and the following criteria are met:

- i. an environmental standard exists;
- ii. contamination exceeds the environmental standards;
- iii. the City is directly responsible or accepts responsibility;
- iv. it is expected that future economic benefits will be given up; and
- v. a reasonable estimate of the amount can be made.

The liability is recognized as management's best estimate of the cost of remediation and post-remediation, including operation, maintenance and monitoring, that are an integral part of the remediation strategy for a contaminated site. Management has assessed its potential liabilities for contamination, including sites that are no longer in productive use and sites for which the City accepts responsibility. There were no such sites that had contamination in excess of an environmental standard requiring remediation at this time, therefore no liability was recognized at December 31, 2019 or December 31, 2018.

(f) Landfill Closure and Post Closure Costs

The Ministry of Environment establishes certain requirements for the closure and post closure monitoring of landfill sites. The obligation for closure and post closure costs associated with the City's former landfill is based on the present value of estimated future expenses. (Note 6)

(g) Expense Recognition

Expenses are recorded using the accrual basis of accounting whereby expenses are recognized as they are incurred and measurable based upon receipt of goods and services and/or the legal obligation to pay.

(h) Revenue Recognition

Taxation

Taxes are recorded at estimated amounts when they meet the definition of an asset, have been authorized and the taxable event occurs. Annual levies for non-optional municipal services and general administrative services are recorded as taxation for municipal purposes in the year they are levied. Taxes receivable are recognized net of an allowance for anticipated uncollectable amounts. Levies imposed by other taxing authorities are not included as taxes for municipal purposes.

Through the British Columbia Assessments' appeal process, taxes may be adjusted by way of supplementary roll adjustments. The effects of these adjustments on taxes are recognized at the time they are awarded.

User fees and other revenue

Charges for sewer and water usage are recorded as user fees and other revenue when the services are provided.

Government transfers

Government transfers are recognized as revenue in the financial statements when the transfer is authorized and any eligibility criteria are met, except to the extent that transfer stipulations give rise to an obligation that meets the definition of a liability. Government transfers are recorded as deferred revenue when transfer stipulations give rise to a liability and are recognized in the statement of operations as the stipulated liabilities are settled.

Development revenues

Receipts that are restricted by the legislation of senior governments or by agreement with external parties are a liability of the municipality and are reported as Restricted Revenues at the time they are received. When qualifying expenditures are incurred Restricted Revenues are brought into revenue as development revenue.

Investment income

Investment income is recorded on the accrual basis and recognized when earned. Investment income is allocated to various reserves and operating funds on a proportionate basis.

To the extent that financial instruments have no stated rate of return, investment income is recognized as it is received.

Contributed tangible capital assets

Subdivision developers are required to provide subdivision infrastructure such as streets, lighting, sidewalks, and drainage etc. Upon completion, these assets are turned over to the City. Tangible capital assets received as contributions are recorded at their estimated fair value at the date of receipt and are also recorded as revenue.

(i) **Use of estimates/measurement uncertainty**

The preparation of financial statements requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenues and expenses during the reporting period. Significant areas requiring use of management estimates relate to the useful lives of tangible capital assets, determination of employee future benefits, landfill closure and post closure obligations, the outcome of litigation and claims, and the percentage of completion of buildings and subdivision inspections. Actual results could differ from those estimates.

(j) **Budget figures**

The budget figures reported in the Consolidated Financial Statements represent the 2019 component of the Financial Plan Bylaw adopted by Council on May 14, 2019.

(k) **Financial instruments**

The City's financial instruments consist of cash and cash equivalents, portfolio investments, accounts receivable, recoverable local improvements, other assets, accounts payable and accrued liabilities, refundable performance deposits and debt. Unless otherwise indicated, it is management's opinion that the City is not exposed to any significant interest, credit or currency risks arising from these financial instruments.

(l) **Cash and cash equivalents**

Cash and cash equivalents are comprised of the amounts held in the City's bank accounts and investments with an original maturity date of three months or less.

(m) Portfolio Investments

Investments with an original maturity date of more than three months from the date of acquisition are reported as portfolio investments. Investments and pooled investments are reported using the cost method. Provisions for declines in the market value of investments are recorded when they are considered to be other than temporary. Declines in the market values of investments are considered to be other than temporary when the carrying value exceeds market value for more than three years.

(n) Basis of segmentation (Segment Report, Note 21)

Municipal services have been segmented by grouping services that have similar service objectives (by function). Revenues that are directly related to the costs of the function have been attributed to each segment. Interest expense is allocated to functions based on the purpose of specific borrowings.

(o) Employee future benefits

The City and its employees make contributions to the Municipal Pension Plan, and the employees accrue benefits under this plan based on service. The City's contributions are expensed as incurred. As this is a multi-employer plan, no liability is attributed to the City and no liability is recorded in the financial statements. (Note 20)

Sick leave benefits and retirement severance benefits are also available to the City's employees. The costs of these benefits are actuarially determined based on service and best estimates of retirement ages and expected future salary and wage increases. The liabilities under these benefit plans are accrued based on projected benefits prorated as the employees render services necessary to earn the future benefits. (Note 10)

Notes to the Consolidated Financial Statements
For the year ended December 31, 2019

1. Cash and cash equivalents

Cash and cash equivalents as at December 31, 2019 were comprised as follows:

	<u>Dec 31, 2019</u>	<u>Dec 31, 2018</u>
Cash	\$ 14,879,814	\$ 11,960,755
Cash equivalents	<u>48,910,762</u>	<u>10,225,986</u>
	<u>\$ 63,790,576</u>	<u>\$ 22,186,741</u>

Cash equivalents were comprised of high-interest savings accounts or term deposits held at Canadian banking institutions with effective interest rates of 2.46% to 2.56% (2.46% for 2018).

Additionally, the City holds cash and cash equivalents of \$5,101,141 (\$3,281,038 for 2018) and agreements and interest receivable of \$376,091 (\$193,474 for 2018) for trusts which are not reported elsewhere in the financial statements. They are held for the following trusts:

	Balance Dec 31, 2018	Interest Earned	Receipts	Disbursements	Balance Dec 31, 2019
Latecomer Fees	\$ 112,386	\$ -	\$ 749,326	\$ 443,712	\$ 418,000
Cemetery Perpetual Care	1,206,022	33,712	66,891	33,712	1,272,913
Election Surplus	7,187	168	1,095	-	8,450
Metro Vancouver Sewer & Drainage District	569,083	-	2,533,769	1,162,242	1,940,610
Albion Dyking District	<u>1,579,834</u>	<u>834</u>	<u>276,062</u>	<u>19,471</u>	<u>1,837,259</u>
	<u>\$ 3,474,512</u>	<u>\$ 34,714</u>	<u>\$ 3,627,143</u>	<u>\$ 1,659,137</u>	<u>\$ 5,477,232</u>

2. Portfolio Investments

Portfolio investments include Canadian bank notes and BC Credit Union term deposits with effective interest rates of 2.12% - 5.65%. A portion of the bank notes held have interest payments linked to the performance of a set of equities or a financial index without stated or certain interest rates. For these investments, income is recognized as it is received; in 2019 returns were positive and ranged to 4.0%. In 2019 gains were \$Nil (\$Nil for 2018). The City does not hold any asset backed commercial paper or hedge funds.

The carrying value of securities is based on the cost method whereby the cost of the security is adjusted to reflect investment income that is accruing and any permanent decline in market value. During the term of individual investments there will be fluctuations in market values. Such fluctuations are considered normal, and if held to maturity, market value will be equal to face value.

The carrying value of Portfolio Investments at December 31, 2019 was \$164,538,143 (\$201,666,082 for 2018). The market value at December 31, 2019 was \$165,918,543 (\$201,793,693 for 2018).

3. Accounts Receivable

	<u>2019</u>	<u>2018</u>
Property Taxes	\$ 5,377,516	\$ 5,035,959
Other Governments	2,375,904	2,447,778
General and Accrued Interest	3,816,092	4,467,405
Development Cost Charges	<u>5,564,102</u>	<u>3,645,582</u>
	17,133,614	15,596,724
Less: Allowance for Doubtful Accounts	<u>(251,541)</u>	<u>(81,307)</u>
	<u>\$ 16,882,073</u>	<u>\$ 15,515,417</u>

4. Recoverable Local Improvements

The City provides interim financing for certain geographically localized capital projects. It recovers these amounts from benefiting property owners. Interest rates are established at the outset of the process and are a function of borrowing rates at the time. Repayment is typically made over fifteen years.

5. Other Assets

Debt Reserve Fund:

The Municipal Finance Authority of British Columbia (MFA) provides capital financing for regional districts and their member municipalities. The MFA is required to establish a Debt Reserve Fund. Each regional district, through its member municipalities who share in the proceeds of a debt issue, is required to pay into the Debt Reserve Fund certain amounts set out in the debt agreements. The MFA pays into the Debt Reserve Fund these monies from which interest earned thereon less administrative expenses becomes an obligation to the regional districts. It must then use this fund, if at any time there are insufficient funds, to meet payments on its obligations. If this occurs, the regional districts may be called upon to restore the fund.

Upon the maturity of a debt issue the unused portion of the Debt Reserve Fund established for that issue will be discharged to the City. The City has estimated that there is only a remote possibility that these funds will not be recovered and therefore these funds have been included in Other Assets of \$797,977 (\$779,813 for 2018).

6. Accounts Payable and Accrued Liabilities

	<u>2019</u>	<u>2018</u>
Accounts Payable:		
General	\$ 11,368,913	\$ 9,663,468
Other Governments	12,029,889	11,372,311
Salaries and Wages	<u>2,071,496</u>	<u>1,860,221</u>
	25,470,298	22,896,000
Accrued Liabilities:		
Landfill Liability	4,078,820	519,227
Vacation Pay	547,507	484,008
Other Employment Benefits	<u>1,029,495</u>	<u>959,057</u>
	<u>5,655,822</u>	<u>1,962,292</u>
	<u>\$ 31,126,120</u>	<u>\$ 24,858,292</u>

The City's Landfill closed in 1989 and legislation requires closure and post closure care of solid waste landfill sites. Closure is estimated to be completed in 2030 and includes final covering, landscaping, erosion control, leachate and gas management. Post closure requirements extend for 30 years beyond completion of the closure plan and includes inspection and maintenance of the final covering, ground water monitoring, gas management systems operations, inspections and annual reports.

The liability recognized in the consolidated financial statements is the present value of the expected future cash flows for the closure and post closure care activities and is subject to measurement uncertainty. The inflation rate used is 2% and the discount rate is 2.43%. The recognized amounts are based on the City's best available information as at the financial statement reporting date and will be updated as new information becomes available. The unfunded liability for the landfill will be paid for per the annual approved Financial Plan.

7. Contingencies, Commitments and Unrecognized Liabilities:

(a) Third Party Claims

Where losses related to litigation are likely and can be reasonably estimated management accrues its best estimate of loss. These amounts are included in accounts payable and accrued liabilities.

There are various other claims by and against the City, the outcome of which cannot reasonably be estimated. Any ultimate settlements will be recorded in the year the settlements occur and are not expected to be material.

(b) Contractual Obligations

In 1998 the City entered into an agreement to purchase ice sheet time for five years commencing in 1999, with five five-year renewal options. In 2018, the agreement was renewed for an additional five-year period. The minimum annual payment due for the provision of ice time is \$638,000. Additional ice time is purchased separately. These payments are recorded as expenses when the ice time is provided.

(c) Unrecognized Liability

The City holds shares in a non-profit organization that provides protective services to its members. Should the organization dissolve or the City choose to withdraw from the organization the City would be liable for its proportionate share of any debt the organization held at that time. The liability is expected to be discharged over time through payments by the City and others for the provision of these services by the organization. Due to the ongoing operations of the organization the liability could only be quantified if the City chose to withdraw. Consequently no liability has been recognized in these financial statements.

8. Deferred Revenues

Deferred revenues held by the City were comprised as follows:

	Prepaid Taxes		Connection Revenues	
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Beginning balance	\$ 7,216,123	\$ 6,864,267	\$ 1,694,045	\$ 1,035,037
Deferred during the year	15,011,307	14,250,434	1,274,748	1,370,294
Revenue recognized	(14,625,327)	(13,898,578)	(1,504,482)	(711,286)
Ending balance	<u>\$ 7,602,103</u>	<u>\$ 7,216,123</u>	<u>\$ 1,464,311</u>	<u>\$ 1,694,045</u>

	Other		Total Deferred Revenues	
	<u>2019</u>	<u>2018</u>	<u>2019</u>	<u>2018</u>
Beginning balance	\$ 6,850,336	\$ 6,298,878	\$ 15,760,504	\$ 14,198,182
Deferred during the year	5,206,249	4,931,744	21,492,304	20,552,472
Revenue recognized	(4,321,187)	(4,380,286)	(20,450,996)	(18,990,150)
Ending balance	<u>\$ 7,735,398</u>	<u>\$ 6,850,336</u>	<u>\$ 16,801,812</u>	<u>\$ 15,760,504</u>

9. Restricted Revenues

Restricted revenues held by the City were comprised as follows:

	Development Cost Charges		Parkland Acquisition Charges	
	2019	2018	2019	2018
Beginning Balance	\$ 23,825,078	\$ 29,546,672	\$ 1,519,694	\$ 1,163,951
Collections and interest	10,732,980	6,275,172	226,755	355,745
Disbursements - operating	(387,753)	(398,474)	-	-
Disbursements - capital	(8,506,876)	(11,598,291)	(4,213)	-
Ending Balance	<u>\$ 25,663,429</u>	<u>\$ 23,825,079</u>	<u>\$ 1,742,236</u>	<u>\$ 1,519,696</u>

	Other Restricted Revenues		Total Restricted Revenues	
	2019	2018	2019	2018
Beginning Balance	\$ 10,651,386	\$ 8,923,031	\$ 35,996,158	\$ 39,633,654
Collections and interest	3,478,365	4,443,001	14,438,100	11,073,918
Disbursements - operating	(87,195)	(63,012)	(474,948)	(461,486)
Disbursements - capital	(4,866,547)	(2,651,637)	(13,377,636)	(14,249,928)
Ending Balance	<u>\$ 9,176,009</u>	<u>\$ 10,651,383</u>	<u>\$ 36,581,674</u>	<u>\$ 35,996,158</u>

10. Employee Future Benefits

The City provides employee future benefits in the form of severance benefits and vested and non-vested sick leave to qualifying employees. These benefits are not separately funded.

Severance benefits are cash settlements paid to employees who cease their employment with the City after a specified period of time. Employees hired before February 11, 1999 qualify for five days pay per year of employment, provided they either work a minimum of 20 years with the City or retire as defined by the Public Sector Pension Plan Act. Full time employees hired after February 11, 1999 qualify for 20 days pay provided they work a minimum of 10 years with the City and retire as defined by the Public Sector Pension Plan Act.

The City permits regular employees to accumulate up to 18 days per year of service for future illnesses up to a maximum of 250 days. For certain qualifying employees a portion of this benefit vests; for the balance, this benefit does not vest and cannot be converted to any other type of benefit.

An actuarial valuation of these benefits was performed to determine the City's liability and accrued benefit obligation as at December 31, 2018 and updated for December 31, 2019. The valuation resulted in a cumulative unamortized actuarial gain of \$669,600 at December 31, 2019, (cumulative unamortized gain of \$861,200 for 2018). Actuarial gains or losses are amortized over the expected average remaining service life of employees. The benefit liability at December 31, 2019 was \$3,999,000, (\$4,662,100 for 2018) comprised as follows:

	<u>2019</u>	<u>2018</u>
Accrued benefit obligation, beginning of year	\$ 3,800,900	\$ 4,932,200
Add: Current service costs	169,000	397,600
Interest on accrued benefit obligation	107,800	143,900
Actuarial (gain)/loss	116,500	(1,192,800)
Less: Benefits paid during the year	<u>(864,800)</u>	<u>(480,000)</u>
Accrued benefit obligation, end of year	3,329,400	3,800,900
 Add: Unamortized actuarial gain	 <u>669,600</u>	 <u>861,200</u>
Accrued Benefit liability	<u><u>3,999,000</u></u>	<u><u>4,662,100</u></u>

Actuarial assumptions used to determine the City's accrued benefit obligation are as follows:

	<u>2019</u>	<u>2018</u>
Discount rate (long-term borrowing rate)	3.00 %	3.00 %
Expected future inflation rate	2.00 %	2.00 %
Merit and inflationary wage and salary increases averaging	2.63 %	2.68 %
Estimated average remaining service life of employees (years)	11.0	11.0

11. Debt (Schedule 4)

The City obtains debt instruments through the Municipal Finance Authority (MFA), pursuant to security issuing bylaws under authority of the Community Charter, to finance certain capital expenditures. Debt is reported net of Sinking Fund balances and interest expense is reported net of Sinking Fund earnings.

The City carries no debt for others.

The following debenture debt amounts plus projected Sinking Fund earnings are payable over the next five years and thereafter are as follows:

	<u>Debt Payments</u>
2020	\$ 2,215,521
2021	2,260,235
2022	2,306,211
2023	2,353,485
2024	2,402,094
Thereafter	7,497,538
Sinking Fund earnings	<u>4,256,266</u>
	<u><u>\$ 23,291,350</u></u>

The City has the following authorized but un-issued financing available as at December 31, 2019:

<u>L/A Bylaw</u>		<u>L/A Amount</u>	<u>L/A Bylaw</u>		<u>L/A Amount</u>
#6558	\$	6,000,000	#6560	\$	275,000
#6679		1,100,000	#7370		3,500,000
#7371		7,000,000	#7372		8,500,000
#7373		1,000,000	#7374		2,500,000
#7375		1,000,000	#7376		<u>2,500,000</u>
#7377		23,500,000	Total		<u><u>56,875,000</u></u>

12. Tangible Capital Assets

		Net book value	
		2019	2018
Land	\$	262,677,920	\$ 234,687,064
Buildings		68,972,370	48,668,723
Transportation network		219,676,251	226,678,101
Storm sewer system		219,574,011	215,378,001
Fleet and equipment		16,931,360	16,476,349
Technology		5,418,867	4,891,574
Water system		131,621,388	125,869,323
Sanitary sewer system		136,838,710	130,908,256
Other		32,604,171	23,843,288
	\$	<u>1,094,315,050</u>	\$ <u>1,027,400,677</u>

For additional information, see the Schedule of Tangible Capital Assets (Schedule 5)

During the year there were no write-downs of assets (2018 - \$Nil). In addition, the fair value of roads and related infrastructure, underground networks and land contributed to the City totaled \$34,156,244 (\$29,727,691 for 2018) and was capitalized and recorded as revenue at the time of recognition.

Natural assets, works of art, artifacts, cultural and historic assets are not recorded as assets in these financial statements. The City controls various works of art and historical treasures including artifacts, paintings, sculptures and mosaics located at City sites and public display areas.

13. Undeveloped Land Bank

The City owns property in various areas identified for future growth in the Official Community Plan. These properties are not currently used in the provision of service to the citizens of Maple Ridge. The properties represent a strategic, non-renewable resource available for the advancement of Council's strategic plan.

14. Accumulated Surplus

Accumulated Surplus is comprised of operating surpluses and equity in tangible capital assets held in the general, sewer and water funds as well as reserves. Accumulated surplus for 2019 is \$1,223,157,851 (\$1,158,703,214 for 2018) and is distributed as follows:

		2019	2018
Operating surplus (Schedule 1)	General	\$ 7,622,573	\$ 11,111,456
	Sewer	7,216,552	8,512,633
	Water	<u>15,518,140</u>	<u>13,799,283</u>
		30,357,265	33,423,372
Equity in the capital funds (Schedule 2)	General	813,910,863	761,597,886
	Sewer	137,959,466	132,175,506
	Water	<u>135,053,573</u>	<u>127,272,400</u>
		1,086,923,902	1,021,045,792
Reserves (Schedule 3)	Funds	33,375,907	39,570,150
	Accounts	<u>72,500,777</u>	<u>64,663,900</u>
		105,876,684	104,234,050
Accumulated Surplus		<u>\$ 1,223,157,851</u>	<u>\$ 1,158,703,214</u>

15. Property Tax Levies

In addition to its own tax levies, the City is required to collect taxes on behalf of various other taxing authorities. These include the provincial government for local school taxes, incorporated dyking districts located within the City and organizations providing regional services in which the City has become a member. Taxes levied for other agencies are not included in City revenues. Total tax levies were comprised as follows:

	<u>2019</u>	<u>2019 Budget</u>	<u>2018</u>
Municipal Tax Levies	\$ 90,205,710	\$ 90,084,654	\$ 85,645,660
Levies for other authorities			
School taxes	38,718,718	38,726,439	36,281,590
Translink	6,929,231	6,928,774	6,139,075
British Columbia Assessment	1,142,457	1,142,361	1,074,697
Metro Vancouver Regional District	1,232,350	1,230,808	1,131,973
Dyking Districts	700,801	700,823	648,834
Municipal Finance Authority	5,671	5,670	5,052
Total Collections for Others	<u>48,729,228</u>	<u>48,734,875</u>	<u>45,281,221</u>
Total Tax Levies	<u>\$ 138,934,938</u>	<u>\$ 138,819,529</u>	<u>\$ 130,926,881</u>

16. Government Transfers

Government transfers recognized as revenues during the year were comprised of the following:

	<u>2019</u>		<u>2018</u>	
	Capital	Operating	Capital	Operating
Federal Gov't	\$ 269,954	\$ 653,340	\$ 252,368	\$ 300,941
Provincial Gov't	1,438,038	1,307,077	1,877,731	1,336,511
TransLink	714,413	994,798	176,370	790,717
Other	49,747	-	64,975	62,524
Total	<u>\$ 2,472,152</u>	<u>\$ 2,955,215</u>	<u>\$ 2,371,444</u>	<u>\$ 2,490,693</u>

17. Expenses and Expenditures by Object

	Operations	Capital Acquisitions	2019 Total	2019 Budget	2018 Total
Goods and services	\$ 67,039,401	\$ 56,999,405	\$ 124,038,806	\$ 270,417,771	\$ 101,240,006
Wages and salaries	43,397,280	976,192	44,373,472	47,227,625	43,210,372
Interest	<u>1,462,295</u>	-	<u>1,462,295</u>	<u>2,752,252</u>	<u>1,612,938</u>
Total	111,898,976	57,975,597	169,874,573	320,397,648	146,063,316
Amortization expenses	21,257,458	-	21,257,458	21,329,763	21,168,109
Contributed tangible capital assets	-	34,156,244	34,156,244	20,000,000	29,727,691
Total Expenses and Expenditures	<u>\$ 133,156,434</u>	<u>\$ 92,131,841</u>	<u>\$ 225,288,275</u>	<u>\$ 361,727,411</u>	<u>\$ 196,959,116</u>

18. Budget

Budget amounts represent the Financial Plan Bylaw adopted by Council on May 14, 2019. The Financial Plan anticipated use of surpluses accumulated in previous years to balance against current year expenditures in excess of current year revenues.

The following shows how these amounts were combined:

	Financial Plan Bylaw	Financial Statement Budget
Revenue		
Taxation	\$ 90,084,654	\$ 90,084,654
User fees and other revenue	44,172,582	44,172,582
Other	70,520,002	70,520,002
Contributed subdivision infrastructure	<u>20,000,000</u>	<u>20,000,000</u>
Total Revenue	<u>224,777,238</u>	<u>224,777,238</u>
Expenses		
Protective services	42,909,582	42,909,582
Transportation services	23,899,352	23,899,352
Recreation and cultural	22,485,994	22,485,994
Water utility	16,056,086	16,056,086
Sewer utility	14,020,250	14,020,250
General Government	18,475,279	18,475,279
Planning, public health and other	<u>6,916,183</u>	<u>6,916,183</u>
Total expenses	<u>144,762,726</u>	<u>144,762,726</u>
Annual Surplus	\$ <u>80,014,512</u>	\$ <u>80,014,512</u>
Less:		
Capital expenditures	216,964,685	
Debt repayment	3,785,954	
Add:		
Interfund transfers	62,869,502	
Amortization	21,329,763	
Borrowing proceeds	<u>56,536,862</u>	
	\$ <u>-</u>	

19. Contractual Rights

Contributed Tangible Capital Assets

There are a number of development projects in progress throughout the City where there is a requirement for the developer to provide infrastructure to the City, such as roads, sewers, sidewalks and street lighting. The estimated fair value of the infrastructure is recognized as "contributed tangible capital assets" revenue in these consolidated financial statements when the City accepts responsibility for the infrastructure. Estimated fair value is determined at the time the assets are recognized.

20. Municipal Pension Plan

The City of Maple Ridge and its employees contribute to the Municipal Pension Plan (a jointly trustee pension plan). The board of trustees, representing plan members and employers, is responsible for administering the plan, including investment of assets and administration of benefits. The plan is a multi-employer defined benefit pension plan. Basic pension benefits are based on a formula. As at December 31, 2018, the plan has about 205,000 active members and approximately 101,000 retired members. Active members include approximately 40,000 contributors from local governments.

Every three years, an actuarial valuation is performed to assess the financial position of the plan and adequacy of plan funding. The actuary determines an appropriate combined employer and member contribution rate to fund the plan. The actuary's calculated contribution rate is based on the entry-age normal cost method, which produces the long-term rate of member and employer contributions sufficient to provide benefits for average future entrants to the plan. This rate may be adjusted for the amortization of any actuarial funding surplus and will be adjusted for the amortization of any unfunded actuarial liability.

The most recent valuation for the Municipal Pension Plan as of December 31, 2018, indicated a \$2,866 million funding surplus for basic pension benefits on a going concern basis.

The City of Maple Ridge paid \$3,438,370 (2018 \$3,390,825) for employer contributions while employees contributed \$2,876,127 (2018 \$2,810,502) to the plan in fiscal 2019.

The next valuation will be as at December 31, 2021, with results available in 2022.

Employers participating in the plan record their pension expense as the amount of employer contributions made during the fiscal year (defined contribution plan accounting). This is because the plan records accrued liabilities and accrued assets for the plan in aggregate, resulting in no consistent and reliable basis for allocating the obligation, assets and cost to individual employers participating in the plan.

21. Segmented Information

The City is a diversified municipal government entity in the province of British Columbia that provides a wide range of services to its citizens. Municipal services have been segmented by grouping activities that have similar service objectives (by function) and separately disclosed in the segment report. Where certain activities cannot be attributed to a specific segment they have been reported as unallocated. The segments and the services they provide are as follows:

Protective Services

Protective Services is comprised of the Ridge Meadows RCMP detachment, the Maple Ridge Fire Department, bylaw enforcement, inspection services and emergency services. Services provided by the segment are focused on protecting the citizens of Maple Ridge.

Transportation Services

Transportation Services is comprised of Engineering, Operations, Drainage and Roads. Services provided by the segment include the construction and maintenance of transportation related infrastructure.

Recreation and Cultural

Recreation and cultural services provides library services, access to recreation facilities and maintains and operates City parks.

Water Utility

The Water Utility, in conjunction with Metro Vancouver, provides safe, clean, reliable water to the residents and businesses of the City of Maple Ridge.

Sewer Utility

The Sewer Utility collects waste water and transports it to treatment plants operated by Metro Vancouver in addition to maintaining the sanitary sewer infrastructure.

General Government

General Government provides administrative, legislative and support services for the City. Functions include financial planning and reporting, information technology, economic development and communications.

Planning, Public Health and Other

This segment is comprised of Planning, Recycling, Cemetery and Social Planning. Activities include land use guidelines, development of the City's official community plan, management of the recycling contract and improving the social well-being of the community.

Unallocated

Unallocated includes revenues that cannot be directly attributed to the activities of an identified functional segment.

22. Subsequent Events

Subsequent to year end, the impact of COVID-19 in Canada and on the global economy increased significantly. As the impacts of COVID-19 continue there could be specific impact on the City, its citizens, employees, suppliers and other third party business associates that could impact the timing and amounts realized on the City's assets and future ability to deliver services and projects. At this time, the full potential impact of COVID-19 on the City is not known. Although disruption from the virus is expected to be temporary, given the dynamic nature of the situation and the potential duration of disruption the related financial impact cannot be reasonably estimated at this time. The market value of the City's portfolio investments initially declined after the declaration of COVID-19 as a global pandemic and, as at April 30, 2020, had subsequently recovered. During the term of individual investments there are normally, and it is expected there will continue to be, fluctuations in the market values, which if held to maturity, are expected to equal face value. The City's ability to continue delivering non-essential services and employ related staff will depend on the legislative mandates from the various levels of government. The City will continue to focus on collecting receivables, managing expenditures, and if necessary, leveraging existing reserves and available credit facilities to ensure it is able to continue providing essential services to its citizens.

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Segment Report

Consolidated Report of Segmented Revenue and Expenses

For the year ended December 31, 2019

	Protective Services	Transportation Services	Recreation and Cultural	Water Utility	Sewer Utility
Revenue					
Tax revenue	\$ -	\$ -	\$ -	\$ 136,202	\$ 948,675
Other revenues	5,768,318	1,177,415	1,916,341	18,405,712	11,694,648
Government transfers	92,307	3,040,942	1,080,567	-	186,239
Development revenue	10,604	1,673,067	6,321,107	4,633,386	2,142,639
Interest and investment income	-	-	-	-	-
Gaming Revenues	-	-	-	-	-
Refinancing & asset disposal gain(loss)	(99,201)	(1,941,285)	285,394	(446,242)	(447,523)
Contributed infrastructure	-	19,076,502	9,013,059	1,727,202	4,260,602
Total Revenue	5,772,028	23,026,641	18,616,468	24,456,260	18,785,280
Expenses					
Operating:					
Goods and services	20,866,789	4,404,803	9,333,859	10,211,953	9,168,950
Labour	16,969,395	5,586,917	6,876,967	1,340,310	608,088
Debt Servicing	9,519	-	716,109	-	-
Sub total	37,845,703	9,991,720	16,926,935	11,552,263	9,777,038
Amortization	1,384,884	10,756,465	2,249,900	2,400,729	2,650,605
Total Expenses	39,230,587	20,748,185	19,176,835	13,952,992	12,427,643
Excess (deficiency) of revenue over expenses	\$ (33,458,559)	\$ 2,278,456	\$ (560,367)	\$ 10,503,268	\$ 6,357,637

General Government	Commercial Tower	Planning Public Health & Other	Unallocated	Total 2019 Actual	Total Budget	Total 2018 Actual
\$ -	\$ -	\$ 2,185,847	\$ 86,934,986	\$ 90,205,710	\$ 90,084,654	\$ 85,645,660
1,987,978	1,869,798	2,857,795	-	45,678,005	44,172,582	42,266,363
997,172	-	30,141	-	5,427,368	15,256,425	4,862,137
284,149	-	(38,675)	-	15,026,277	50,015,589	15,787,623
-	-	-	5,636,251	5,636,251	2,247,988	4,581,311
-	-	-	1,703,170	1,703,170	1,500,000	1,781,613
(330,664)	-	(52,054)	2,809,621	(221,954)	1,500,000	(1,470,673)
<u>73,279</u>	<u>-</u>	<u>5,600</u>	<u>-</u>	<u>34,156,244</u>	<u>20,000,000</u>	<u>29,727,691</u>
3,011,914	1,869,798	4,988,654	97,084,028	197,611,071	224,777,238	183,181,725
4,476,338	545,552	8,031,157	-	67,039,401	73,453,088	57,454,958
9,176,964	-	2,838,639	-	43,397,280	47,227,625	42,182,171
<u>207,101</u>	<u>479,792</u>	<u>49,774</u>	<u>-</u>	<u>1,462,295</u>	<u>2,752,252</u>	<u>1,612,938</u>
13,860,403	1,025,344	10,919,570	-	111,898,976	123,432,965	101,250,067
<u>1,591,498</u>	<u>-</u>	<u>223,377</u>	<u>-</u>	<u>21,257,458</u>	<u>21,329,763</u>	<u>21,168,109</u>
<u>15,451,901</u>	<u>1,025,344</u>	<u>11,142,947</u>	<u>-</u>	<u>133,156,434</u>	<u>144,762,728</u>	<u>122,418,176</u>
<u>\$ (12,439,987)</u>	<u>\$ 844,454</u>	<u>\$ (6,154,293)</u>	<u>\$ 97,084,028</u>	<u>\$ 64,454,637</u>	<u>\$ 80,014,510</u>	<u>\$ 60,763,549</u>

Schedule of Change in Operating Accumulated Surplus

For the year ended December 31, 2019

	Actual 2019	Budget 2019	Actual 2018
Revenue			
Taxes for municipal purposes	\$ 90,205,710	\$ 90,084,654	\$ 85,645,660
User fees and other revenues	45,678,005	44,172,582	42,266,363
Government transfers	2,955,216	3,475,093	2,490,693
Development Revenue	1,081,524	1,820,014	949,219
Interest and investment income	4,018,149	1,702,988	3,373,244
Gaming revenues	1,703,170	1,500,000	1,781,613
Refinancing and other gains	<u>6,141,470</u>	<u>1,500,000</u>	<u>1,766,211</u>
	151,783,244	144,255,331	138,273,003
Expenses			
Protective services	37,845,703	41,567,670	36,087,716
Transportation services	9,991,720	12,736,099	8,545,361
Recreation and cultural	16,926,935	20,376,452	16,562,565
Water utilities	11,552,263	13,761,971	11,567,117
Sewer utilities	9,777,038	11,378,834	9,070,009
General government	14,885,747	16,893,965	13,571,485
Public and environmental health	<u>10,919,570</u>	<u>6,717,974</u>	<u>5,845,814</u>
	111,898,976	123,432,965	101,250,067
Annual Surplus	39,884,268	20,822,366	37,022,936
Internal transfers			
Transfers to capital funds	(8,727,102)	(16,258,668)	(6,041,110)
Transfers to reserves	<u>(34,223,273)</u>	<u>(6,927,178)</u>	<u>(29,346,232)</u>
Increase (decrease) in operating accumulated surplus	(3,066,107)	(2,363,480)	1,635,595
Operating accumulated surplus-beginning of year	<u>33,423,372</u>	<u>33,423,372</u>	<u>31,787,778</u>
Operating accumulated surplus-end of year (Note 14)	<u>\$ 30,357,265</u>	<u>\$ 31,059,892</u>	<u>\$ 33,423,372</u>

Schedule 2

Schedule of Change in Capital Funds
For the year ended December 31, 2019

	Actual 2019	Budget 2019	Actual 2018
Revenue			
Subdivision infrastructure contributions	\$ 34,156,244	\$ 20,000,000	\$ 29,727,691
Government transfers	2,472,152	11,781,331	2,371,444
Development fees	13,374,516	46,170,150	13,680,732
Other capital contributions	570,237	2,025,426	1,157,672
Disposal of land available for sale	(2,403,416)	-	(1,119,509)
Disposal of tangible capital assets	<u>(3,960,008)</u>	<u>-</u>	<u>(2,117,375)</u>
Total Revenue	44,209,725	79,976,907	43,700,655
Expenses			
Amortization	<u>21,257,458</u>	<u>21,329,763</u>	<u>21,168,109</u>
Total Expenses	21,257,458	21,329,763	21,168,109
Annual Surplus	22,952,267	58,647,144	22,532,546
Internal Transfers			
Transfers from revenue funds	8,727,102	16,258,668	6,041,110
Transfers from reserves	<u>34,198,741</u>	<u>67,328,202</u>	<u>23,975,842</u>
Increase in capital funds	65,878,110	142,234,014	52,549,498
Capital funds - beginning of the year	<u>1,021,045,792</u>	<u>1,021,045,792</u>	<u>968,496,294</u>
Capital funds - end of the year (Note 14)	<u>\$ 1,086,923,902</u>	<u>\$ 1,163,279,806</u>	<u>\$ 1,021,045,792</u>

Schedule 3

Schedule of Change in Reserves

For the year ended December 31, 2019

	Actual 2019	Budget 2019	Actual 2018
Revenue and Transfers			
Revenue			
Interest and investment income	\$ 1,618,102	\$ 545,000	\$ 1,208,067
Add (less)			
Internal transfers			
Transfers from revenue funds	34,223,273	6,927,178	29,346,232
Transfers to capital funds	<u>(34,198,741)</u>	<u>(67,328,202)</u>	<u>(23,975,842)</u>
Increase (decrease) in Reserved Accumulated Surplus	1,642,634	(59,856,024)	6,578,457
Reserved Accumulated Surplus - Beginning of the Year	<u>104,234,050</u>	<u>104,234,050</u>	<u>97,655,593</u>
Reserved Accumulated Surplus - End of Year (Note 14)	<u>\$ 105,876,684</u>	<u>\$ 44,378,026</u>	<u>\$ 104,234,050</u>

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Schedule 4

Continuity Schedule of Debenture Debt

For the Year Ended December 31, 2019

	Date of Issue/Maturity	Bylaw/MFA	Function/Purpose	Interest Rate
Long Term Debts				
	Apr 2005/2027	6246/93	Recreation/Downtown Civic Properties	5.7 %
	Apr 2005/2027	6246/93	General Government/Downtown Office Complex	5.7 %
	Dec 2006/2026	6246/99	General Government/Downtown Office Complex	5.0 %
	Oct 2012/2027	6560/121	Protective Services/Animal Shelter	2.9 %
	Oct 2012/2037	6559/121	Public Health/Cemetery Expansion	2.9 %
	Oct 2012/2037	6679/121	Public Health/Cemetery Expansion	2.9 %
			Subtotal	
LESS:				
Sinking Funds				
	Dec 2006/2026	6246/99	General Government/Downtown Office Complex	5.0 %
	Oct 2012/2027	6560/121	Protective Services/Animal Shelter	2.9 %
	Oct 2012/2037	6559/121	Public Health/Cemetery Expansion	2.9 %
	Oct 2012/2037	6679/121	Public Health/Cemetery Expansion	2.9 %
			Subtotal	
Net Amount				

Dec 31, 2018 Balance Outstanding	New Debt Issued During the year	Principal/ Sinking Fund Payments	Sinking Fund Earnings	2019 Balance Outstanding	Interest Paid/ Earned For The Year
\$ 13,642,382	\$ -	\$ 1,352,575	\$ -	\$ 12,289,807	\$ 716,109
1,891,936	-	187,558	-	1,704,378	99,301
16,300,000	-	-	-	16,300,000	815,598
625,000	-	-	-	625,000	18,175
1,520,000	-	-	-	1,520,000	44,201
700,000	-	-	-	700,000	20,356
<u>34,679,318</u>	<u>-</u>	<u>1,540,133</u>	<u>-</u>	<u>33,139,185</u>	<u>1,713,740</u>
8,290,665	-	547,382	335,807	9,173,854	335,807
209,033	-	31,213	8,656	248,902	8,656
244,425	-	36,499	10,121	291,045	10,121
112,564	-	16,809	4,661	134,034	4,661
<u>8,856,687</u>	<u>-</u>	<u>631,903</u>	<u>359,245</u>	<u>9,847,835</u>	<u>359,245</u>
<u>\$ 25,822,631</u>	<u>\$ -</u>	<u>\$ 2,172,036</u>	<u>\$ 359,245</u>	<u>\$ 23,291,350</u>	<u>\$ 1,354,495</u>

Schedule of Tangible Capital Assets
For the year ended December 31, 2018

	Land ²	Building	Transportation Network	Storm System
Historical Cost ¹				
Opening cost	\$ 234,687,063	\$ 100,054,517	\$ 351,769,498	\$ 281,458,765
Additions	28,030,143	23,431,970	759,530	8,654,279
Disposals	<u>(39,283)</u>	<u>(1,752,238)</u>	<u>(3,479,219)</u>	<u>(788,582)</u>
	262,677,923	121,734,249	349,049,809	289,324,462
Accumulated Amortization				
Opening balance	-	51,385,794	125,091,397	66,080,764
Amortization expense	-	2,658,239	6,321,377	3,898,806
Effect of disposals	<u>-</u>	<u>(1,282,154)</u>	<u>(2,039,216)</u>	<u>(229,119)</u>
	-	52,761,879	129,373,558	69,750,451
Net Book Value as at December 31, 2019	<u>\$ 262,677,923</u>	<u>\$ 68,972,370</u>	<u>\$ 219,676,251</u>	<u>\$ 219,574,011</u>
Net Book Value as at December 31, 2018	\$ 234,687,064	\$ 48,668,722	\$ 226,678,101	\$ 215,378,001

¹ Historical cost includes work in progress at December 31, 2019 of \$36,971,312 (\$28,815,386 for 2018) comprised of: Land \$613,121 (\$49,572 for 2018); Buildings \$29,849,671 (\$7,420,131 for 2018); Transportation network \$777,851 (\$8,780,007 for 2018); Storm system \$163,785 (\$39,145 for 2018); Fleet and equipment \$527,388 (\$152,645 for 2018); Technology \$116,834 (\$72,607 for 2018); Water system \$1,587,256 (\$9,619,524 for 2018); Sanitary system \$3,021,387 (\$626,208 for 2018); and Other \$314,019 (\$2,055,548 for 2018). Work in progress is not amortized.

² Additions to land are net of \$-Nil (\$-Nil for 2018) of land reclassified to inventory available for sale.

³ "Other" at net book value includes Furniture and Fixtures at \$745,594 (\$574,211 for 2018) and Structures at \$31,858,580 (\$23,269,078 for 2018)

Fleet and Equipment	Technology	Water System	Sanitary System	Other ³	Total
\$ 31,800,937	\$ 12,058,862	\$ 163,017,754	\$ 179,781,905	\$ 40,340,527	\$ 1,394,969,827
2,288,325	1,403,614	8,676,926	9,028,164	9,858,890	92,131,841
<u>(2,665,298)</u>	<u>(344,171)</u>	<u>(1,159,631)</u>	<u>(790,919)</u>	<u>(693,829)</u>	<u>(11,713,170)</u>
31,423,964	13,118,305	170,535,049	188,019,150	49,505,588	1,475,388,498
15,324,588	7,167,288	37,148,431	48,873,649	16,497,239	367,569,150
1,436,338	873,239	2,412,002	2,616,083	1,041,374	21,257,458
<u>(2,268,322)</u>	<u>(341,089)</u>	<u>(646,772)</u>	<u>(309,293)</u>	<u>(637,197)</u>	<u>(7,753,162)</u>
<u>14,492,604</u>	<u>7,699,438</u>	<u>38,913,661</u>	<u>51,180,439</u>	<u>16,901,416</u>	<u>381,073,446</u>
<u>\$ 16,931,360</u>	<u>\$ 5,418,867</u>	<u>\$ 131,621,388</u>	<u>\$ 136,838,711</u>	<u>\$ 32,604,172</u>	<u>\$ 1,094,315,052</u>
\$ 16,476,349	\$ 4,891,574	\$ 125,869,323	\$ 130,908,256	\$ 23,843,290	\$ 1,027,400,678

Continuity Schedule of Reserves
For the year ended December 31, 2019

	<u>Balance</u> <u>Dec. 31, 2018</u>	<u>Interest</u> <u>Allocated</u>
Reserve Funds		
Local Improvements	\$ 2,609,053	\$ 24,948
Equipment Replacement	15,943,167	383,905
Capital Works	8,793,102	240,381
Fire Department Capital Acquisition	10,385,423	214,758
Sanitary Sewer	1,526,779	34,105
Land	<u>312,626</u>	<u>7,418</u>
Total Reserve Funds	39,570,150	905,515
Reserve Accounts		
Specific Projects - Capital	11,697,246	-
Specific Projects - Operating	6,017,409	-
Self Insurance	883,464	20,174
Police Services	9,544,606	203,597
Core Development	2,007,045	46,797
Recycling	2,961,575	72,835
Community Safety Initiatives	1,600,000	-
Building Inspections	3,393,078	77,775
Gravel Extraction	810,026	18,879
Community Works (Gas Tax)	401,522	18,681
Facility Maintenance	1,841,927	71,504
Snow Removal	850,061	-
Park & Recreation Improvements	1,943,482	-
Cemetery Maintenance	211,890	-
Infrastructure Sustainability (Town Centre Buildings)	493,820	-
Infrastructure Sustainability (Road Network)	2,961,695	84,769
Infrastructure Sustainability (Drainage)	1,644,023	45,683
Drainage Improvements	1,663,015	49,899
Critical Infrastructure	131,071	1,994
Infrastructure Grants Contribution	-	-
Gaming Revenues	2,135,048	-
Self Insurance (sewer utility)	154,385	-
Self Insurance (water utility)	132,740	-
Specific Projects (sewer utility)	5,187,320	-
Specific Projects (water utility)	<u>5,997,452</u>	<u>-</u>
Total Reserve Accounts	<u>64,663,900</u>	<u>712,587</u>
Total Reserves	\$ <u><u>104,234,050</u></u>	\$ <u><u>1,618,102</u></u>

<u>Transfers Revenue Funds</u>	<u>Transfers Capital Funds</u>	<u>Balance Dec 31, 2018</u>
\$ -	\$ -	\$ 2,634,001
3,439,063	(1,818,463)	17,947,672
5,914,024	(7,121,954)	7,825,553
1,660,670	(9,358,112)	2,902,739
-	(246,802)	1,314,082
<u>431,816</u>	<u>-</u>	<u>751,860</u>
11,445,573	(18,545,331)	33,375,907
4,014,915	(2,656,226)	13,055,935
1,424,306	-	7,441,715
(106,203)	-	797,435
422,232	(52,156)	10,118,279
573,444	(342,413)	2,284,873
471,501	-	3,505,911
(142,673)	(146)	1,457,181
-	-	3,470,853
10,720	-	839,625
595,205	(97,117)	918,291
618,553	(1,571,179)	960,805
-	-	850,061
1,716,385	(3,500,963)	158,904
89,853	(183,085)	118,658
(379,682)	(114,138)	-
3,620,970	(2,451,230)	4,216,204
818,802	(227,396)	2,281,112
1,301,317	(255,020)	2,759,211
(14,362)	(118,703)	-
-	-	-
716,240	(117,579)	2,733,709
6,504	-	160,889
6,504	-	139,244
3,822,322	(1,604,039)	7,405,603
<u>3,190,847</u>	<u>(2,362,020)</u>	<u>6,826,279</u>
<u>22,777,700</u>	<u>(15,653,410)</u>	<u>72,500,777</u>
<u>\$ 34,223,273</u>	<u>\$ (34,198,741)</u>	<u>\$ 105,876,684</u>



CITY OF MAPLE RIDGE

AUDIT FINAL REPORT TO MAYOR AND COUNCIL

June 1, 2020



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SUMMARY

We are pleased to provide this Audit Results Report to assist you in fulfilling your oversight responsibilities with respect to the audited financial statements of the City of Maple Ridge (the "City") for the year ended December 31, 2019. A summary of our report is as follows:

Our audit and therefore this report will not necessarily identify all matters that may be of interest to Council in fulfilling its responsibilities. This report has been prepared solely for the use of Council and should not be distributed without our prior consent. Consequently, we accept no responsibility to a third party that uses this communication.



Status of the Audit

As of the date of this report, we have substantially completed our audit of the 2019 consolidated financial statements, pending completion of the following items:

- ▶ Approval of consolidated financial statements by Council
- ▶ Subsequent events review through to financial statement approval date
- ▶ Receipt of signed management representation letter

We conducted our audit in accordance with Canadian generally accepted auditing standards. The objective of our audit was to obtain reasonable, not absolute, assurance about whether the consolidated financial statements are free from material misstatement.

Except as described in this report, the scope of the work performed was substantially the same as that described in our Planning Report to Council dated January 16, 2020.



Materiality

As indicated in our Planning Report dated January 16, 2020, our materiality was set at \$3.0 million.



Audit Findings

Our audit focused on the risks specific to your business and key accounts. Our discussion points below focus on areas of significant risks of material misstatement, or the following items:

- ▶ Management override of internal controls
- ▶ Grant and revenue recognition
- ▶ Contaminated sites
- ▶ Employee future benefits
- ▶ COVID-19 disclosures



Internal Control Matters

We are required to report to you in writing, any significant deficiencies in internal control that we have identified. The specifics of this communication are included in Appendix D.



Independence

Our annual letter confirming our independence is included in Appendix A.



Adjusted and Unadjusted Differences

For purposes of our discussion, a summary of adjusted and unadjusted differences and disclosure omissions has been presented in Appendix B. There were no misstatements identified during the course of our audit.



Management Representations

During the course of our audit, management made certain representations to us. These representations were verbal or written and therefore explicit, or they were implied through the consolidated financial statements. Management provided representations in response to specific queries from us, as well as unsolicited representations. Such representations were part of the evidence gathered by us to be able to draw reasonable conclusions on which to base our audit opinion. These representations were documented by including in the audit working papers memoranda of discussions with management and written representations received from management.

A summary of the representations we have requested from management is set out in the representation letter included in Appendix C to this report.



Fraud Discussion

Through our planning process, and current and prior years' audits, we have developed an understanding of your oversight processes. We are not currently aware of any fraud affecting the company.

If you are aware of changes to processes or are aware of any instances of actual, suspected or alleged fraud affecting the City since our discussions held at planning, we request that you provide us with this information.

Please refer to the Auditor's Responsibilities for Detecting Fraud in our Planning Report to Council.

AUDIT FINDINGS

As part of our ongoing communications with you, we are required to have a discussion on our views about significant qualitative aspects of the City's accounting practices, including accounting policies, accounting estimates and financial statement disclosures. In order to have a frank and open discussion, these matters will be discussed verbally with you. A summary of the key discussion points are as follows:

RISK OF MATERIAL MISSTATEMENT	RISKS NOTED	AUDIT FINDINGS
Management Override of Internal Controls <i>(Canadian Auditing Standards require this to be assessed as a significant risk)</i>	Because management is in a unique position to override internal controls, we are required to design procedures to address this risk.	We reviewed transactions recorded in the various ledgers for unusual or non-recurring adjustments not addressed by other audit procedures. We reviewed journal entries subject to risk. All audit testing was performed in this area as planned with no issues to report where controls were overridden.
Grant and Revenue Recognition	Canadian Auditing Standards require us to consider the risk of fraudulent revenue recognition. Due to the nature of the City's revenues, we have rebutted this risk. Nevertheless, because accounting standards are complex and subject to variability in practice. There is a risk that revenue may be incorrectly deferred into future periods.	Grant funding received was confirmed through a review of agreements, which ensures that the amounts recorded exist. We also ensured the revenue is recorded accurately in accordance with the settlement of any stipulations. We reviewed the deferred revenue balances by examining supporting documentation and validate the accounting treatment. Other revenues streams also contain revenue recognition issues which was reviewed in accordance with the relevant revenue recognition standards. All audit testing was performed in this area as planned with no issues to report.

RISK OF MATERIAL MISSTATEMENT	RISKS NOTED	AUDIT FINDINGS
Employee Future Benefits	Significant assumptions and estimation is used in determining employee future benefits.	<p>We performed a review of the assumptions used and calculations leading to the estimates in the actuarial report on post-employment benefits and compare the inputs to the employment agreements.</p> <p>We tested the data provided to the actuary and used in performing the calculations.</p> <p>All audit testing was performed in this area as planned with no issues to report.</p>
Contaminated Sites	This standard is complex and therefore there is a risk that liabilities may not be identified and appropriately accounted for.	<p>We reviewed management's process for identifying new potential contaminated sites, monitoring sites with known contamination, and assessment of whether a liability exists.</p> <p>All audit testing was performed in this area as planned with no issues to report.</p>
COVID-19 Disclosure	<p>Subsequent to the year end the impact of COVID-19 on the Canadian and international economy substantially increased. Significant uncertainty in revenue generation and cash flow has arisen for all local governments.</p> <p>Management has included a note to the financial statements discussing the potential impacts to the City.</p>	<p>We discussed with management the potential impacts on the future operations and financial budgets and results for the City.</p> <p>We also considered potential impacts in relation to other local governments in BC.</p> <p>We examined records subsequent to year end to determine if significant economic impacts have occurred to date.</p> <p>We considered and concur with the sufficiency of management's disclosure in the financial statements.</p>

INTERNAL CONTROL MATTERS

During the course of our audit, we performed the following procedures with respect to the City's internal control environment:

- ▶ Documented operating systems to assess the design and implementation of control activities that were relevant to the audit.
- ▶ Discussed and considered potential audit risks with management.

The results of these procedures were considered in determining the extent and nature of substantive audit testing required.

We are required to report to you in writing, significant deficiencies in internal control that we have identified during the audit. A significant deficiency is defined as a deficiency or combination of deficiencies in internal control that, in the auditor's professional judgment, is of sufficient importance to merit the attention of those charged with governance.

As the purpose of the audit is for us to express an opinion on the City's consolidated financial statements, our audit cannot be expected to disclose all matters that may be of interest to you. As part of our work, we considered internal control relevant to the preparation of the consolidated financial statements such that we were able to design appropriate audit procedures. This work was not for the purpose of expressing an opinion on the effectiveness of internal control. We did not note any significant deficiencies that require the attention of the Board. Our management letter outlining opportunities for improvement is included in Appendix D.

OTHER REQUIRED COMMUNICATIONS

Potential effect on the financial statements of any material risks and exposures, such as pending litigation, that are required to be disclosed in the financial statements.

•BDO Response: Disclosed as required

Material uncertainties related to events and conditions that may cast significant doubt on the entity's ability to continue as a going concern.

•BDO Response: None noted

Disagreements with management about matters that, individually or in the aggregate, could be significant to the entity's financial statements or our audit report.

•BDO Response: None noted

Matters involving non-compliance with laws and regulations.

•BDO Response: None noted

Significant related party transactions that are not in the normal course of operations and which involve significant judgments made by management concerning measurement or disclosure.

•BDO Response: None noted

Management consultation with other accountants about significant auditing and accounting matters.

•BDO Response: None noted

Other Matters

•BDO Response: No other matters to discuss

Professional standards require independent auditors to communicate with those charged with governance certain matters in relation to an audit. In addition to the points communicated within this letter, the attached table summarizes these additional required communications.

APPENDICES

Appendix A: Confirmation of Independence

Appendix B: Adjusted and Unadjusted Differences

Appendix C: Representation Letter

Appendix D: Management Letter

APPENDIX A: INDEPENDENCE UPDATE

June 1, 2020

To the Mayor and Council
City of Maple Ridge

Dear Mayor and Council:

We have been engaged to audit the consolidated financial statements of City of Maple Ridge (the "City") for the year ended December 31, 2019.

Canadian generally accepted auditing standards (GAAS) require that we communicate at least annually with you regarding all relationships between the City and our Firm that, in our professional judgment, may reasonably be thought to bear on our independence.

In determining which relationships to report, these standards require us to consider relevant rules and related interpretations prescribed by the appropriate provincial institute/order and applicable legislation, covering such matters as:

- Holding a financial interest, either directly or indirectly in a client;
- Holding a position, either directly or indirectly, that gives the right or responsibility to exert significant influence over the financial or accounting policies of a client;
- Personal or business relationships of immediate family, close relatives, partners or retired partners, either directly or indirectly, with a client;
- Economic dependence on a client; and
- Provision of services in addition to the audit engagement.

We have prepared the following comments to facilitate our discussion with you regarding independence matters arising since April 23, 2019, the date of our last letter.

We are not aware of any relationships between the City and our Firm that, in our professional judgment may reasonably be thought to bear on independence that have occurred from April 23, 2019 to the date of this letter.

We hereby confirm that we are independent with respect to the City within the meaning of the Code of Professional Conduct of the Chartered Professional Accountants of British Columbia as of the date of this letter.

This letter is intended solely for the use of Council, management and others within the City and should not be used for any other purposes.

Yours truly,

BDO Canada LLP

Chartered Professional Accountants

APPENDIX B: ADJUSTED AND UNADJUSTED DIFFERENCES

SUMMARY OF ADJUSTED DIFFERENCES, UNADJUSTED DIFFERENCES AND DISCLOSURE OMISSIONS

There were no adjusted differences, unadjusted differences or disclosure omissions noted during our audit.

APPENDIX C: REPRESENTATION LETTER

[date of approval]

BDO Canada LLP
Chartered Professional Accountants
600 Cathedral Place
925 West Georgia Street
Vancouver, BC, V6C 3L2

This representation letter is provided in connection with your audit of the consolidated financial statements of City of Maple Ridge for the year ended December 31, 2019, for the purpose of expressing an opinion as to whether the financial statements are presented fairly, in all material respects, in accordance with Canadian public sector accounting standards.

We confirm that to the best of our knowledge and belief, having made such inquiries as we considered necessary for the purpose of appropriately informing ourselves:

Financial Statements

We have fulfilled our responsibilities, as set out in the terms of the audit engagement dated November 14, 2019, for the preparation of the consolidated financial statements in accordance with Canadian public sector accounting standards; in particular, the financial statements are fairly presented in accordance therewith.

- Significant assumptions used by us in making accounting estimates, including those measured at fair value, are reasonable.
- Related party relationships and transactions have been appropriately accounted for and disclosed in accordance with the requirements of Canadian public sector accounting standards.
- All events subsequent to the date of the financial statements and for which Canadian public sector accounting standards require adjustment or disclosure have been adjusted or disclosed.
- The financial statements of the entity use appropriate accounting policies that have been properly disclosed and consistently applied.

Information Provided

- We have provided you with:
 - access to all information of which we are aware that is relevant to the preparation of the financial statements, such as records, documentation and other matters;
 - additional information that you have requested from us for the purpose of the audit; and
 - unrestricted access to persons within the entity from whom you determined it necessary to obtain audit evidence.

We are responsible for the design, implementation and maintenance of internal controls to prevent, detect and correct fraud and error, and have communicated to you all deficiencies in internal control of which we are aware.

- All transactions have been recorded in the accounting records and are reflected in the financial statements.
- We have disclosed to you all known instances of non-compliance or suspected non-compliance with laws and regulations whose effects should be considered when preparing the financial statements.

- We have disclosed to you the identity of the entity's related parties and all the related party relationships and transactions of which we are aware.

Fraud and Error

- We have disclosed to you the results of our assessment of the risk that the financial statements may be materially misstated as a result of fraud.
- We have disclosed to you all information in relation to fraud or suspected fraud that we are aware of and that affects the entity and involves:
 - management;
 - employees who have significant roles in internal control; or
 - others where the fraud could have a material effect on the financial statements.
- We have disclosed to you all information in relation to allegations of fraud, or suspected fraud, affecting the entity's financial statements communicated by employees, former employees, analysts, regulators, or others.

General Representations

Where the value of any asset has been impaired, an appropriate provision has been made in the financial statements or has otherwise been disclosed to you.

We have provided you with significant assumptions that in our opinion are reasonable and appropriately reflect our intent and ability to carry out specific courses of action on behalf of the entity when relevant to the use of fair value measurements or disclosures in the financial statements.

We confirm that there are no derivatives or off-balance sheet financial instruments held at year end that have not been properly recorded or disclosed in the financial statements.

Except as disclosed in the financial statements, there have been no changes to title, control over assets, liens or assets pledged as security for liabilities or collateral.

The entity has complied with all provisions in its agreements related to debt and there were no defaults in principal or interest, or in the covenants and conditions contained in such agreements.

There have been no plans or intentions that may materially affect the recognition, measurement, presentation or disclosure of assets and liabilities (actual and contingent).

The nature of all material uncertainties have been appropriately measured and disclosed in the financial statements, including all estimates where it is reasonably possible that the estimate will change in the near term and the effect of the change could be material to the financial statements.

- There were no direct contingencies or provisions (including those associated with guarantees or indemnification provisions), unusual contractual obligations nor any substantial commitments, whether oral or written, other than in the ordinary course of business, which would materially affect the financial statements or financial position of the entity, except as disclosed in the financial statements.
- We have determined the uncorrected misstatement as attached to this letter is not material to the consolidated financial statements.

Other Representations Where the Situation Exists

We have informed you of all known actual or possible litigation and claims, whether or not they have been discussed with legal counsel. Since there are no actual, outstanding or possible litigation and claims, no disclosure is required in the financial statements.

All tangible capital assets and inventory have been recorded and additions for the year are complete and accurate. Amortization based on the expected useful life of the tangible capital asset and residual value is

our best estimate for the consumption of a portion of the tangible capital asset for the year. Where the value of any tangible capital asset has been impaired, an appropriate provision has been made in the consolidated financial statements or has otherwise been disclosed to you. The City also reviewed and made changes to its estimate of useful lives of various classes of tangible capital assets, and any resultant changes have been disclosed to you.

We have considered, and disclosed to you, the known impact of COVID-19 on the amounts and disclosures in the financial statements. To the best of our knowledge and belief, we have disclosed all known impacts and risks to the City.

Yours truly,

Al Horsman

Position

Catherine Nolan

Position

APPENDIX D: MANAGEMENT LETTER

May 13, 2020

Mr. Al Horsman
Chief Administrative Officer
City of Maple Ridge
11995 Haney Place
Maple Ridge, BC V2X 6A9

Dear Mr. Horsman:

As your external auditors, we are engaged to provide an audit opinion on your yearend consolidated financial statements. An external audit requires testing of transactions and balances and review of those internal control systems upon which we may place reliance. An opinion without reservation on the consolidated financial statements does not necessarily mean that your internal control systems are all operating effectively. This is because we review only those internal control systems where we feel that failure in those systems could result in a material error on the consolidated financial statements. With those systems that we do review, our focus is on the assertions necessary to meet our audit objectives.

Our review of systems, transactions and balances as well as discussions with staff at various levels gives us a unique insight into your operations. While conducting this work we make note of items that come to our attention where we feel that improvement could be made or alternatives could be considered. We are fortunate in that we work with a great number of clients and observe a wide variety of processes. We see firsthand any procedures that are emerging as best practices.

As matters come to our attention, we make note of these for subsequent follow-up. For minor matters we discuss directly with the staff involved. More important opportunities are brought forward in our management letter as outlined below.

It is worth noting that we have management letter comments for virtually all audits of all clients. The existence of points does not mean that there are significant problems with your systems or staff. They are just recommendations to make good systems better.

Current Year Observations

1. Asset Retirement Obligation

Asset retirement obligations is a new Public Sector Accounting Standard that will be required to be applied in the financial statements for the year ended December 31, 2022, with optional retroactive application. While this standard has been discussed often since first introduced, the time frame for assessing and applying that standard is steadily decreasing.

Ensuring that the City has a detailed action plan to assess, calculate and record the asset retirement obligation will help ensure that the application of this standard will be reasonable. This action plan will also help ensure that the resources are available to meet the requirements of the standard.

We will continue to be a resource, and to work with management in the lead up to the implementation date of January 1, 2022.

Management Response

The City is a leading participant in a working group comprised of several municipalities and audit firms with a focus on providing a platform to share expertise, experience and knowledge around developing a consistent and practical approach for implementation.

2. Capital Project Reporting

Capital projects constitute significant cash outlays for the City and can span multiple years. Management creates the capital plan to include the best estimates at the time through the annual budget process and will look to assess how costs are changing over time.

This budgeting process only encompasses the ongoing and active projects that are expected to occur during the period of the capital plan. Adding in a retrospective analysis of how the costs and activities required to execute the capital projects changed from the capital plan can help the City better develop its capital plan and project management processes into the future.

We recommend that the City review its capital close out procedures and consider adding in a close out process for significant capital projects to capture information for use as a tool to refine the capital budgeting process.

Management Response

The City already has some processes in place to identify "lessons learned" from significant projects to help inform considerations for future projects. Opportunities to enhance this process will continue to be explored through venues such as best practices identified through participation in regional working groups.

This communication is prepared solely for the information of management and those charged with governance and is not intended for any other purposes. We accept no responsibility to a third party who uses this communication.

We would like to express our appreciation for the co-operation and assistance received from management and staff of the City during the course of the audit. Our experience is that the Finance Department is well-prepared for the annual audit, which is a significant contributor to keeping audit costs down.

We shall be pleased to discuss with you further any matters mentioned in this letter at your convenience.

Yours truly,



Brian Szabo, CPA, CA
Partner through a corporation
BDO Canada LLP
Chartered Professional Accountants

1000 **Bylaws**

1000

**CITY OF MAPLE RIDGE
BYLAW NO. 7636-2020**

A Bylaw to amend the Official Community Plan Bylaw No. 7060-2014

WHEREAS Section 477 of the Local Government Act provides that the Council may revise the Official Community Plan;

AND WHEREAS it is deemed expedient to amend Schedule "A" to the Official Community Plan;

NOW THEREFORE, the Municipal Council of the City of Maple Ridge, enacts as follows:

1. This Bylaw may be cited for all purposes as "Maple Ridge Official Community Plan Amending Bylaw No. 7636-2020."
2. Schedule "A", Chapter 10.3, Part VI, A – Silver Valley, Figure 2 - Land Use Plan, and Figure 3D - Horse Hamlet, are hereby amended for that parcel or tract of land and premises known and described as:

Lot 2 Section 27 Township 12 New Westminster District Plan 10713

and outlined in heavy black line on Map No. 1022, a copy of which is attached hereto and forms part of this bylaw, are hereby designated as shown.

3. Schedule "A" Chapter 10.3, Part VI, A – Silver Valley, Figure 4 - Trails / Open Space is hereby amended for the parcel or tract of land and premises known and described as:

Lot 2 Section 27 Township 12 New Westminster District Plan 10713

and outlined in heavy black line on Map No. 1023, a copy of which is attached hereto and forms part of this Bylaw, is hereby amended as shown.

4. Maple Ridge Official Community Plan Bylaw No.7060-2014 is hereby amended accordingly.

READ a first time the 12th day of May, 2020.

READ a second time the 12th day of May, 2020.

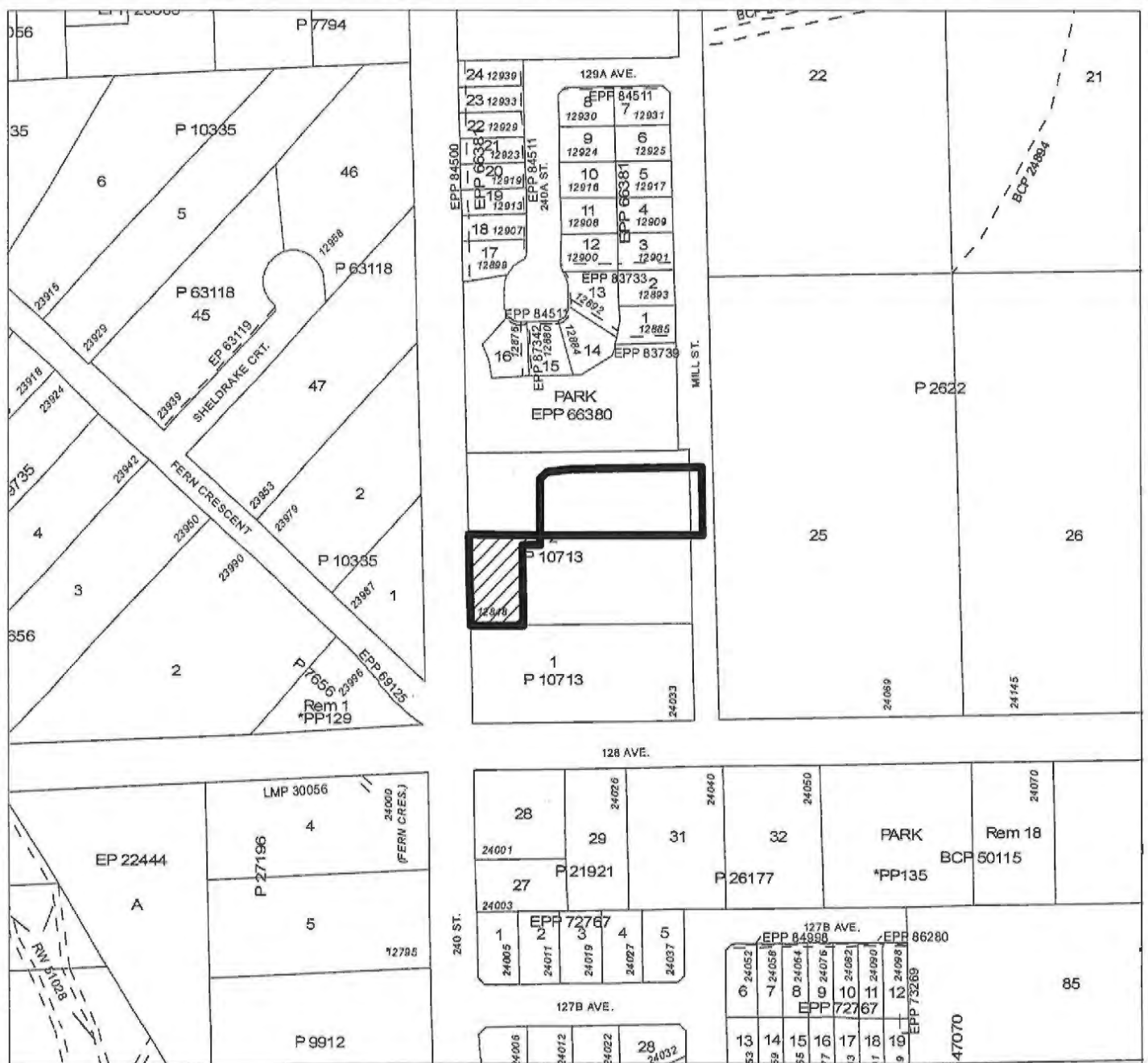
PUBLIC HEARING held the 16th day of June, 2020.

READ a third time the day of _____, 20__.

ADOPTED the day of , 20 .

PRESIDING MEMBER

CORPORATE OFFICER



MAPLE RIDGE OFFICIAL COMMUNITY PLAN AMENDING

Bylaw No. 7636-2020

Map No. 1023

Purpose: To Amend Silver Valley Area Plan Figure 4 As Shown

 To Add To Conservation
  To Remove From Conservation



**CITY OF MAPLE RIDGE
BYLAW NO. 7424-2018**

A Bylaw to amend Map "A" forming part of Zoning Bylaw No. 3510 - 1985 as amended

WHEREAS, it is deemed expedient to amend Maple Ridge Zoning Bylaw No. 3510 - 1985 as amended;

NOW THEREFORE, the Municipal Council of the City of Maple Ridge enacts as follows:

1. This Bylaw may be cited as "Maple Ridge Zone Amending Bylaw No. 7424-2018."
2. That parcel or tract of land and premises known and described as:

Lot 2 Section 27 Township 12 New Westminster District Plan 10713

and outlined in heavy black line on Map No. 1747 a copy of which is attached hereto and forms part of this Bylaw, is hereby rezoned to R-2 (Urban Residential District).
3. Maple Ridge Zoning Bylaw No. 3510 - 1985 as amended and Map "A" attached thereto are hereby amended accordingly.

READ a first time the 27th day of March, 2018.

READ a second time the 12th day of May, 2020.

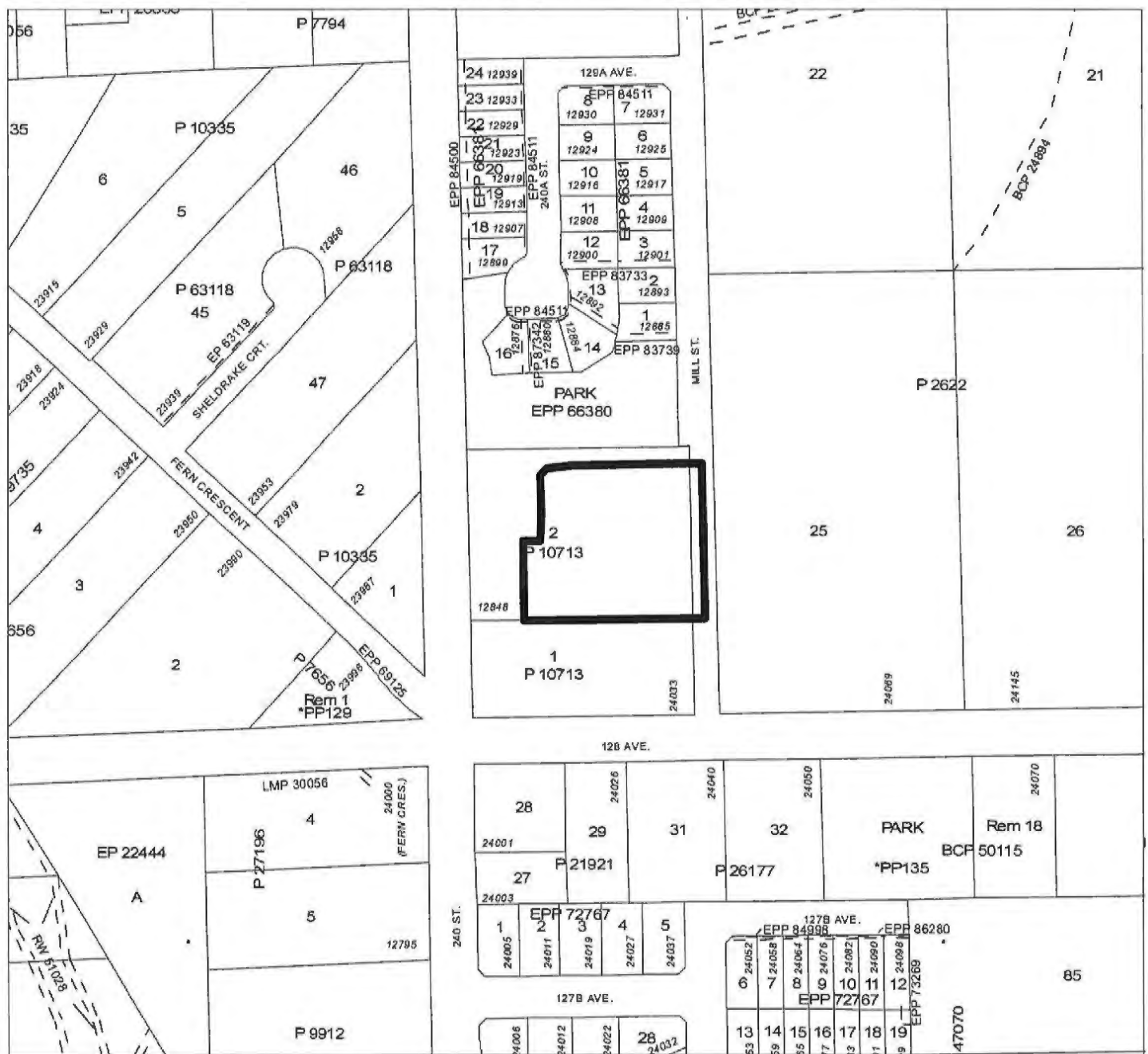
PUBLIC HEARING held the 16th day of June, 2020.

READ a third time the day of , 20

ADOPTED, the day of , 20

PRESIDING MEMBER

CORPORATE OFFICER



MAPLE RIDGE ZONE AMENDING

Bylaw No. 7424-2018

Map No. 1747

From: RS-3 (One Family Rural Residential)
RS-2 (One Family Suburban Residential)

To: R-2 (Urban Residential District)



SCALE 1:2,500

CITY OF MAPLE RIDGE

BYLAW NO. 7632-2020

A Bylaw to amend Maple Ridge Heritage Designation and Revitalization and Tax Exemption Agreement Bylaw No. 6913-2012

WHEREAS, the Owner of the land requests and consents to enter into an amendment of the heritage revitalization and tax exemption agreement attached to and forming part of Maple Ridge Heritage Designation and Revitalization and Tax Exemption Agreement Bylaw No. 6913-2012 ;

WHEREAS, it is deemed expedient to amend the heritage revitalization and tax exemption agreement attached to and forming part of Maple Ridge Heritage Designation and Revitalization and Tax Exemption Agreement Bylaw No. 6913-2012 as provided for in Appendix 1 to this amending bylaw (the "Amending Agreement"):

NOW THEREFORE, the Municipal Council of the City of Maple Ridge, enacts as follows:

1. This bylaw may be cited as "Maple Ridge Heritage Designation and Revitalization and Tax Exemption Agreement Amending Bylaw No. 7632-2020".
2. The City of Maple Ridge enters into the Heritage Revitalization and Tax Exemption Agreement (as amended by the "Amending Agreement") with the registered owners of the properties located at 22325 St. Anne Avenue, Maple Ridge and legally described as:

PID: 029-774-071

LOT A District Lot 398 New Westminster District Plan EPP52747

(the "Property").

3. The Mayor and Corporate Officer are authorized on behalf of the City of Maple Ridge to sign and seal the Amending Agreement in the form attached as Appendix "1" to this Bylaw.

READ a first time the 14th day of April, 2020.

READ a second time the 14th day of April, 2020.

READ a third time the 14th day of April, 2020.

APPROVED by the Ministry of Transportation and Infrastructure the 12th day of June, 2020.

ADOPTED, the day of , 20

PRESIDING MEMBER

CORPORATE OFFICER

APPENDIX "1"

DESIGNATION AND HERITAGE REVITALIZATION AND TAX EXEMPTION AMENDING AGREEMENT No. 2

THIS AGREEMENT dated for reference the day of , 2020 is

BETWEEN:

1034179 B.C. Ltd.
15245-18th Avenue
Surrey, BC V4V 1W9

(the "Owners")

AND:

THE CITY OF MAPLE RIDGE
11995 Haney Place
Maple Ridge, British Columbia
V2X 6A9

(the "City")

WHEREAS:

- A. The City and a previous owner entered into a Heritage Revitalization and Tax Exemption Agreement (the "Original Agreement") setting out the terms and conditions by which the heritage value of the Existing Heritage Building is to be preserved and protected, in return for specified supplements and variances to City bylaws and the exemption of the Existing Heritage Building from City property taxation for a specified term;
- B. This agreement applies to land and all improvements located at 22325 St. Anne Avenue, Maple Ridge, B.C. and legally described as:

PID: 029-774-071
Lot A DISTRICT LOT 398 GROUP 1 NEW WESTMINSTER DISTRICT PLAN EPP52747

("the Lands");
- C. The agreement has been approved by the Monitor, Owners or the Court, as required; and
- D. The City and the Court appointed Monitor for the Owners wish to amend the terms of the Original Agreement, as amended, to allow the completion date to be extended.

THIS AGREEMENT is evidence that in consideration of the sum of ten dollars (\$10.00) now paid by each party to the other and for other good and valuable consideration (the receipt of which each party hereby acknowledges) Owners or the Court appointed Monitor for the Owners as may be applicable and the City each covenant with the other as follows:

Amendment

1. The Agreement is hereby amended by deleting and replacing Section 8 by the following:

Section 8. The Owners shall commence and complete all actions required for the completion of the Work in accordance with this Agreement by December 31, 2020 (the "Completion Date"). The Completion Date may be extended by mutual written agreement of the Owners and the City, for up to an additional 6 months.

Statutory Authority Retained

2. Nothing in this Amendment Agreement shall limit, impair, fetter or derogate from the statutory powers of the City, all of which powers may be exercised by the City from time to time and at any time to the fullest extent that the City is enabled.

Full Force and Effect

3. The City and the Owners or the Court appointed Monitor for the Owners as may be applicable hereby agree that the Agreement shall hereinafter be read and construed in conjunction with this Amending Agreement and be regarded as being amended only to the extent herein provided, that all the terms, covenants, provisos, conditions and provisions of the Agreement, as amended hereby, shall continue to be in full force and effect and that nothing herein contained shall operate or be construed to modify or otherwise affect the rights and obligations created by the Agreement as amended hereby.

No Waiver

4. No restrictions, requirements or other provisions of this Amending Agreement shall be deemed to have been waived by the City unless a written waiver signed by an officer of the City has first been obtained, and without limiting the generality of the foregoing, no condoning, excusing or overlooking by the City on previous occasions of any default, nor any previous written waiver, shall be taken to operate as a waiver by the City of any subsequent default or in any way defeat or affect the rights and remedies of the City.

Headings

5. The headings in this Amending Agreement are inserted for convenience only and shall not affect the interpretation of this Agreement or any of its provisions.

Successors Bound

6. All restrictions, rights and liabilities herein imposed upon or given to the respective parties shall extend to and be binding upon their respective heirs, executors, administrators, successors and assigns.

IN WITNESS WHEREOF the Owners and the City have executed this Agreement on the dates set out below.

_____)	
Name _____)	1034179 B.C Ltd.
)	by its authorized signatory
_____)	
Address _____)	
)	"SIGNED COPY WITH ORIGINAL
_____)	BYLAW"
Occupation _____)	_____
)	Print Name _____
_____)	
Date _____)	
)	

The Corporate Seal of the CITY OF MAPLE)	
RIDGE was hereunto affixed in the presence of:)	
_____)	
Mayor: _____)	
)	C/S
_____)	
Corporate Officer: _____)	
)	
_____)	
Date _____)	

1100 *Reports and Recommendations*

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: First Reading
Zone Amending Bylaw No. 7649-2020;
22347 117 Avenue and 22349 North Avenue

MEETING DATE: June 16, 2020
FILE NO: 2020-062-RZ
MEETING: C o W

EXECUTIVE SUMMARY:

An application has been received to rezone the subject properties located at 22347 117 Avenue from RT-1 (Two Family Urban Residential) and 22349 North Avenue from RM-3 (High Density Apartment Residential) both to C-3 (Town Centre Commercial). This will allow the two subject properties to be consolidated with the vacant, unaddressed lot immediately to the west, already zoned C-3 (Town Centre Commercial), for the development of the subject proposed mixed-use commercial residential project. All three are proposed to be redesignated from Low-Rise Apartment to Town Centre Commercial to facilitate the rezoning for the overall project.

This project will consist of approximately 768 square meters (8,268 square feet) of ground-level retail or office storefront along North Avenue and approximately 68 apartment units within a proposed six (6) storey structure. All required commercial and residential parking will be underground or concealed.

To proceed further with this application, additional information is required to support the rezoning of the two subject properties with detailed plans for the development proposal of the overall three-lot site as outlined in this report.

Pursuant to Council policy, this application is subject to the Community Amenity Contribution Program at a rate of (\$3,100.00 per apartment dwelling unit), for an estimated amount of \$210,800.00.

RECOMMENDATIONS:

1. That Zone Amending Bylaw No. 7649—2020 be given first reading; and
2. That the applicant provide further information as described on Schedules C, D and E of the Development Procedures Bylaw No. 5879-1999, along with the additional information required in this report dated June 16, 2020.

DISCUSSION:

a) Background Context:

Applicant: Falcon Homes
Legal Description: Lot 48 Except: Part Dedicated Road on Plan BCP 14057 Block
5 District Lot 398 Group 1 NWD Plan 155; and Lot 49 Except:

Part Dedicated Road on Plan BCP 14057 Block 5 District Lot
398 Group 1 NWD Plan 155

OCP:

Existing:	APTL (Low-Rise Apartment)
Proposed:	TCOMM (Town Centre Commercial)

Zoning:

Existing:	RM-3 (High Density Apartment Residential) and RT-1 (Two Family Urban Residential)
Proposed:	C-3 (Town Centre Commercial)

Surrounding Uses:

North:	Use:	Commercial
	Zone:	C-3 (Town Centre Commercial)
	Designation:	Town Centre Commercial
South:	Use:	Mixed Use Commercial/Residential and Residential
	Zone:	C-3 (Town Centre Commercial) and RS-1 (One Family Urban Residential)
	Designation:	Port Haney Multi-Family, Commercial and Mixed-Use
East:	Use:	Vacant - recently rezoned for mixed-use building (2017-078-RZ)
	Zone:	C-3 (Town Centre Commercial)
	Designation:	Town Centre Commercial
West:	Use:	Institutional and Commercial
	Zone:	C-3 (Town Centre Commercial)
	Designation:	Low-Rise Apartment

Existing Use of Property:	Residential and Vacant
Proposed Use of Property:	Mixed use Commercial/Residential
Site Area:	1,436 sq. m. (15,457 sq. ft.) (Including Total of 3 Lots)
Access:	117 Avenue
Servicing requirement:	Urban Standard

b) Site Characteristics:

The subject site slopes very gently from north to south with a small cluster of deciduous trees along the southern lot line on 117 Avenue. The site fronts North Avenue to the north and 117 Avenue to the south. There is a boarded-up house and an informal gravel parking area on the two lots proposed to be rezoned. The third on the western part of the site is currently zoned C-3 (Town Centre Commercial). It has two clusters of more mature trees and provides graveled parking (which is a permitted use in the C-3 Zone) for several cars. According to the developer, this is informal parking, which is not required for the land owner's business on Lougheed Highway or for other surrounding uses on North or 117 Avenues.

c) Project Description:

The two lots subject to rezoning (see Appendices A and B), are part of a three lot site proposed to be developed with a mixed-use building containing approximately 768 square meters (8,268 square feet) of retail or office space on the ground floor with approximately 68 apartment units above in a building totalling six (6) storeys (See Appendix D). The main pedestrian entry will be from North Avenue, with a secondary staircase from 117 Avenue. Vehicle entry will be from 117 Avenue into a two-level of underground parking structure.

The unit mix being proposed is:

• Bachelor Units	8	(11.8%)
• One Bedroom Units	16	(23.5%)
• One Bedroom plus Den	40	(58.8%)
• Two Bedroom Units	4	(5.9%)

This provides a good mix of unit types and sizes. Although setting aside some units for aging in place has not occurred, the owner's preferred focus has been to arrive at the proposed mix to be an asset to the community as well as addressing family housing needs in the area.

The portion of the development along 117 Avenue, consisting of structured parking, will be designed to incorporate design features similar to the design of the project's storefront façade along North Avenue. The building elevations along North Avenue and 117 Avenue are shown in Appendix E. The pedestrian environment along 117 Avenue will be considered, in detail, as part of a future Development Permit to ensure a safe and attractive interface with the street. Building design details will be examined at the DP stage and will include additional building design elements, landscaping, lighting and public-art inspired screening / grating for the openings to the exposed underground parking area along the public realm.

The northern portion of the parking structure is fully contained underground and concealed by the mixed use commercial and residential building above it. A portion of the parking structure roof south of the building and toward 117 Avenue will be a landscaped passive and recreational space for residents. In addition to building access from North Avenue, there will be resident-only pedestrian access from grade along 117 Avenue. It will consist of an attractive design to further enhance the public realm and provide convenient and safe access for residents wishing to access this space from 117 Avenue.

At this time, the current application has been assessed to determine its compliance with the Official Community Plan (OCP) and provide a land use assessment only. Detailed review and comments will need to be made once full application packages have been received. A more detailed analysis and further reports will be required prior to second reading. Such an assessment may impact the proposed building floor area or number of dwelling units.

d) Planning Analysis:

Official Community Plan:

The development site is located within the Town Centre Area Plan and is currently designated Low-Rise Apartment. All three lots within the site are proposed to be re-designated to Town Centre Commercial to accommodate the proposal and the zoning.

This project will achieve a number of Town Centre Plan policies including:

- ***Policy 3-1 An increase in residential and commercial density is encouraged in the Town Centre, particularly within the Central Business District. Land use should include a mix of housing types catering to various demographics ...***

The ground level office or retail space will add to the commercial floor space within the Central Business District and will provide an appropriate mix of housing, with the intension of

delivering a product suitable for families. The project's uses and the density will bolster this Town Centre Area policy.

- **Policy 3-10** *Land assembly or lot configuration in conjunction with development ... should meet conditions (that) ... remaining land parcels are left in a configuration and lot area which are suitable for future development...*

The lot to the east of the site has been rezoned to allow for an independent project and the lands to the west may be consolidated for a developable site in the future. This project effectively fits in and does not adversely impact future land assembly for development encouraged by this policy.

- **Policy 3-15** *Concealed parking structures are encouraged in all commercial, mixed-uses ... in the Town Centre. Above-grade concealed parking structures should be designed in such a manner that the pedestrian realm, streetscape façade... is not impaired.*

The exposed parking structure along 117 Avenue will be designed to be sensitive to the streetscape incorporating appropriate architecture, finishing materials and details, lighting, public-art inspired elements and landscaping, and thus the objective of this policy is achieved.

Zoning Bylaw:

The current application proposes to rezone two of the subject properties, located at 22347 117 Avenue from RT-1 (Two Family Urban Residential) and 22349 North Avenue from RM-3 (High Density Apartment Residential) both to C-3 (Town Centre Commercial). This will allow these two subject properties to be consolidated with the third vacant lot immediately to the west, already zoned C-3 (Town Centre Commercial), for the development of the subject proposed mixed-use commercial residential project.

A preliminary review indicates variances in the setbacks are being incorporated to sculpt the building to fit the emerging neighbourhood context. In other respects, the project is generally compliant with the proposed C-3 (Town Centre Commercial) zone. Any variations from the requirements of the proposed zone will require a Development Variance Permit application.

Development Permits:

Pursuant to Section 8.11 of the OCP, a Town Centre Development Permit (South of Lougheed) application is required for all mixed use commercial multi family residential development located in the Town Centre Area.

Advisory Design Panel:

A Town Centre Development Permit (South of Lougheed) Development Permit is required and must be reviewed by the Advisory Design Panel prior to Second Reading.

Development Information Meeting:

A Development Information Meeting is required for this application. Prior to second reading the applicant is required to host a Development Information Meeting in accordance with Council Policy 6.20.

e) Interdepartmental Implications:

In order to advance the current application, after first reading, comments and input, will be sought from the various internal departments and external agencies listed below:

- a) Engineering Department;
- b) Operations Department;
- c) Fire Department;
- d) Building Department;
- e) School District;
- f) Utility companies;
- g) Ministry of Transportation and Infrastructure; and
- h) Canada Post.

The above list is intended to be indicative only and it may become necessary, as the application progresses, to liaise with agencies and/or departments not listed above.

This application has not been forwarded to the Engineering Department for comments at this time; therefore, an evaluation of servicing and site access requirements have not been undertaken. We anticipate that this evaluation will take place between first and second reading.

f) Development Applications:

In order for this application to proceed the following information must be provided, as required by *Development Procedures Bylaw No. 5879-1999* as amended:

1. A complete Rezoning Application (Schedule C);
2. A Town Centre Development Permit Application (Schedule D); and
3. A Development Variance Permit (Schedule E).

Additional information is also required with respect to: incorporating public art-inspired treatment of the parking structure wall and pedestrian staircase design on the 117 Avenue elevation, details about the proposed sustainability measures, and elaboration about any aging in place elements incorporated into dwelling unit design.

The above list is intended to be indicative only, other applications may be necessary as the assessment of the proposal progresses.

CONCLUSION:

The development proposal is in compliance with the OCP, therefore, it is recommended that Council grant first reading subject to additional information being provided and assessed prior to second reading.

"Original signed by Adrian Kopystynski"

Prepared by: **Adrian Kopystynski, M. Sc., MCIP, RPP, MCAHP
Planner**

"Original signed by Chuck Goddard"

Reviewed by: **Charles R. Goddard, BA, MA
Director of Planning**

"Original signed by Christine Carter"

Approved by: **Christine Carter, M.PL, MCIP, RPP
GM Planning & Development Services**

"Original signed by Al Horsman"

Concurrence: **Al Horsman
Chief Administrative Officer**

The following appendices are attached hereto:

Appendix A – Subject Map

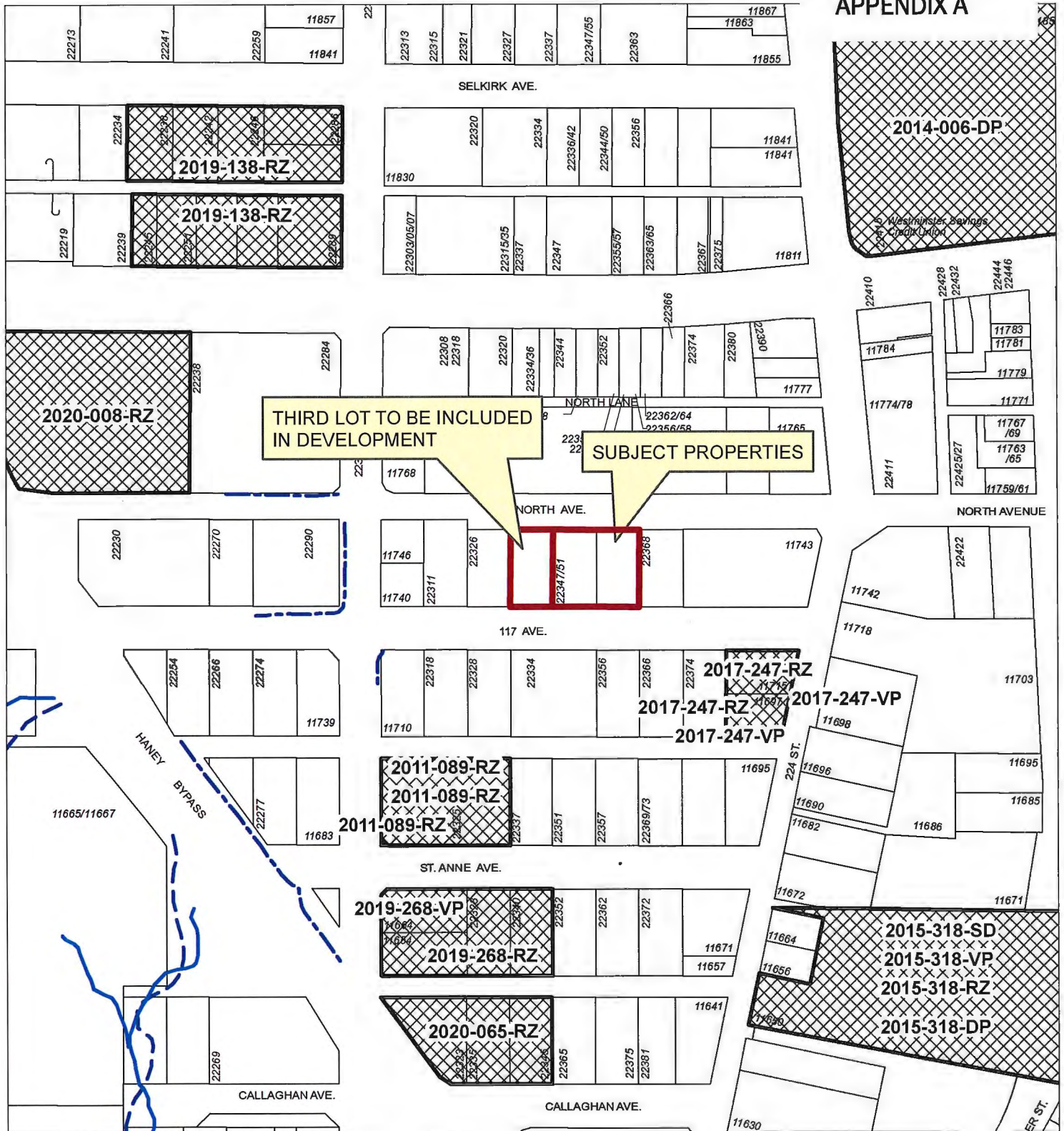
Appendix B – Ortho Map

Appendix C – Zone Amending Bylaw No. 7649–2020

Appendix D – Proposed Site Plan

Appendix E – Elevations

APPENDIX A



Legend

-  Stream
-  Ditch Centreline
-  Indefinite Creek
-  Active Applications (RZ/SD/DP/VP)

22347 117 AVENUE, 22349 NORTH AVENUE
PID'S 000-660-612, 011-539-534

PLANNING DEPARTMENT



MAPLE RIDGE

British Columbia

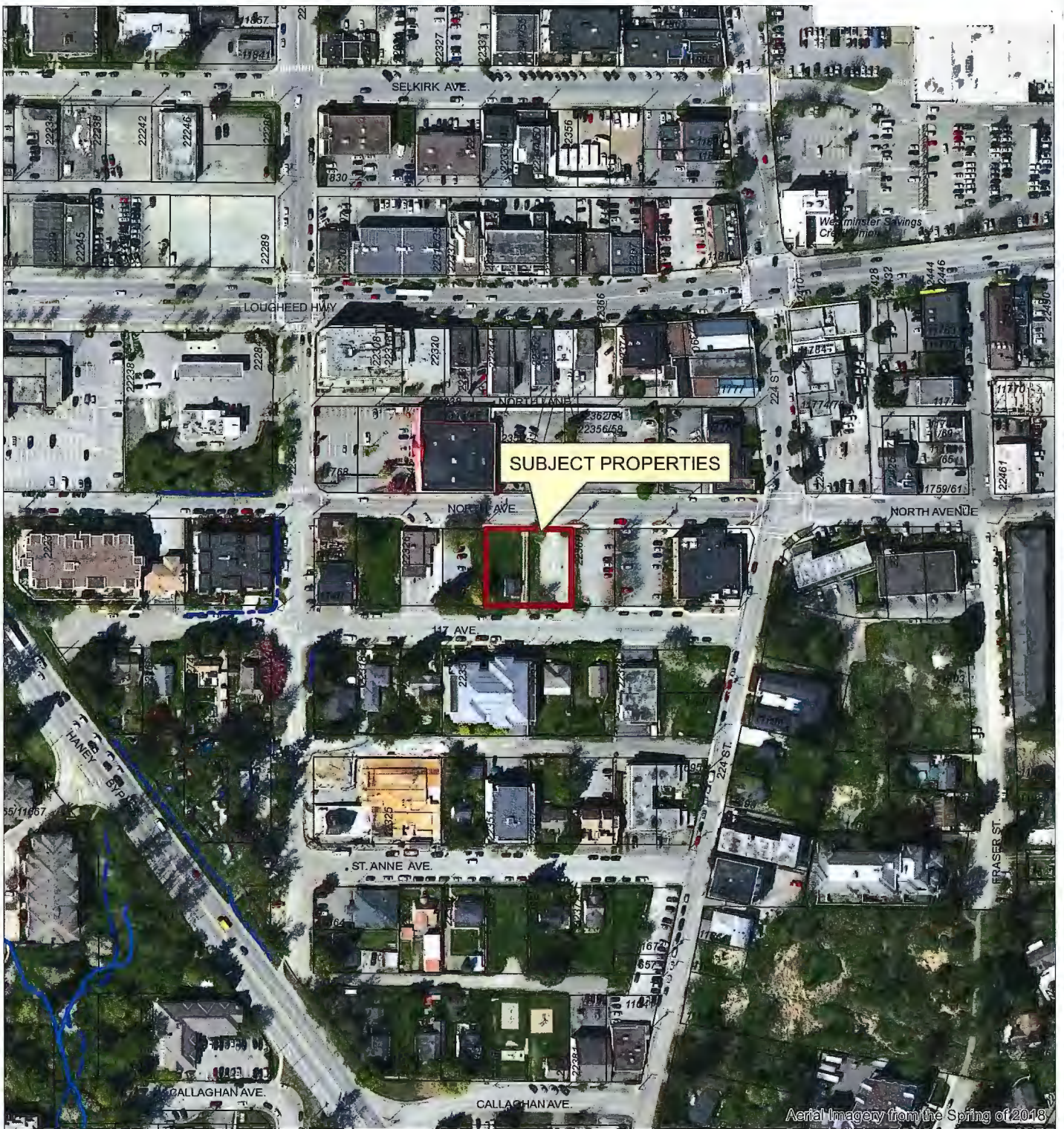
mapleridge.ca

FILE: 2020-062-RZ

DATE: Jun 1, 2020

BY: PC

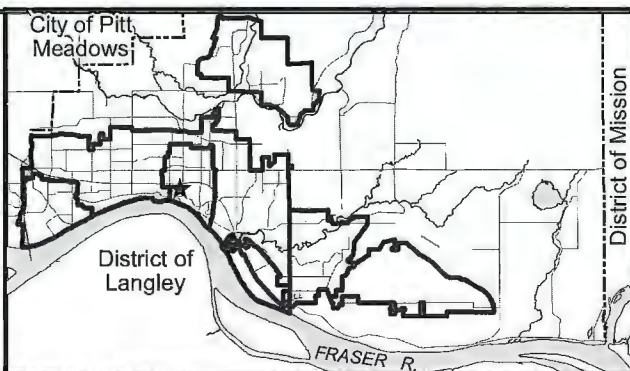
Scale: 1:2,500



Aerial Imagery from the Spring of 2018



Scale: 1:2,500



22347 117 AVENUE & 22349 NORTH AVENUE
PID'S: 000-660-612 & 011-539-534

PLANNING DEPARTMENT



MAPLE RIDGE

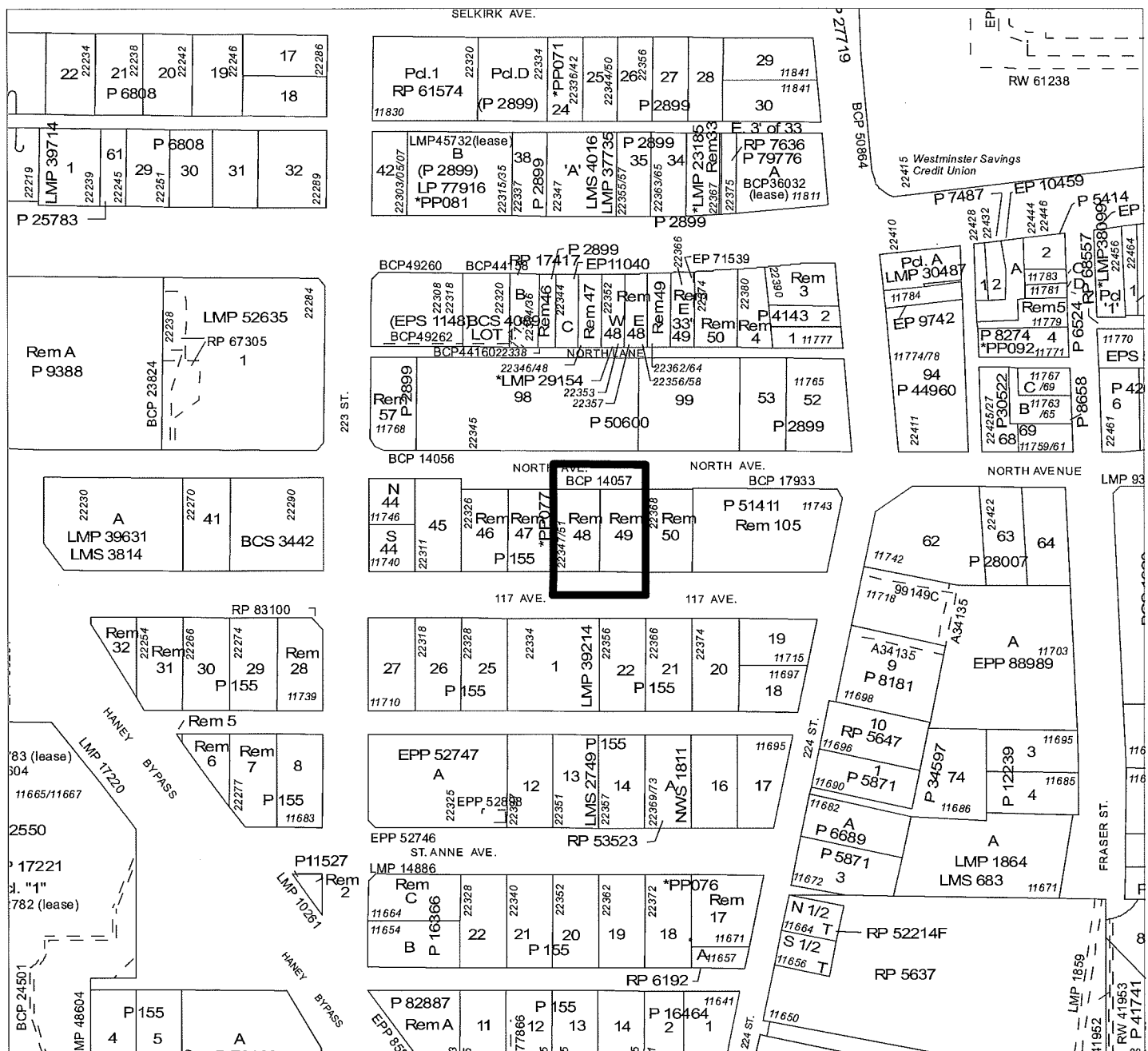
British Columbia

mapleridge.ca

FILE: 2020-062-RZ
DATE: May 27, 2020

BY: PC

CORPORATE OFFICER

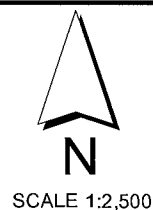


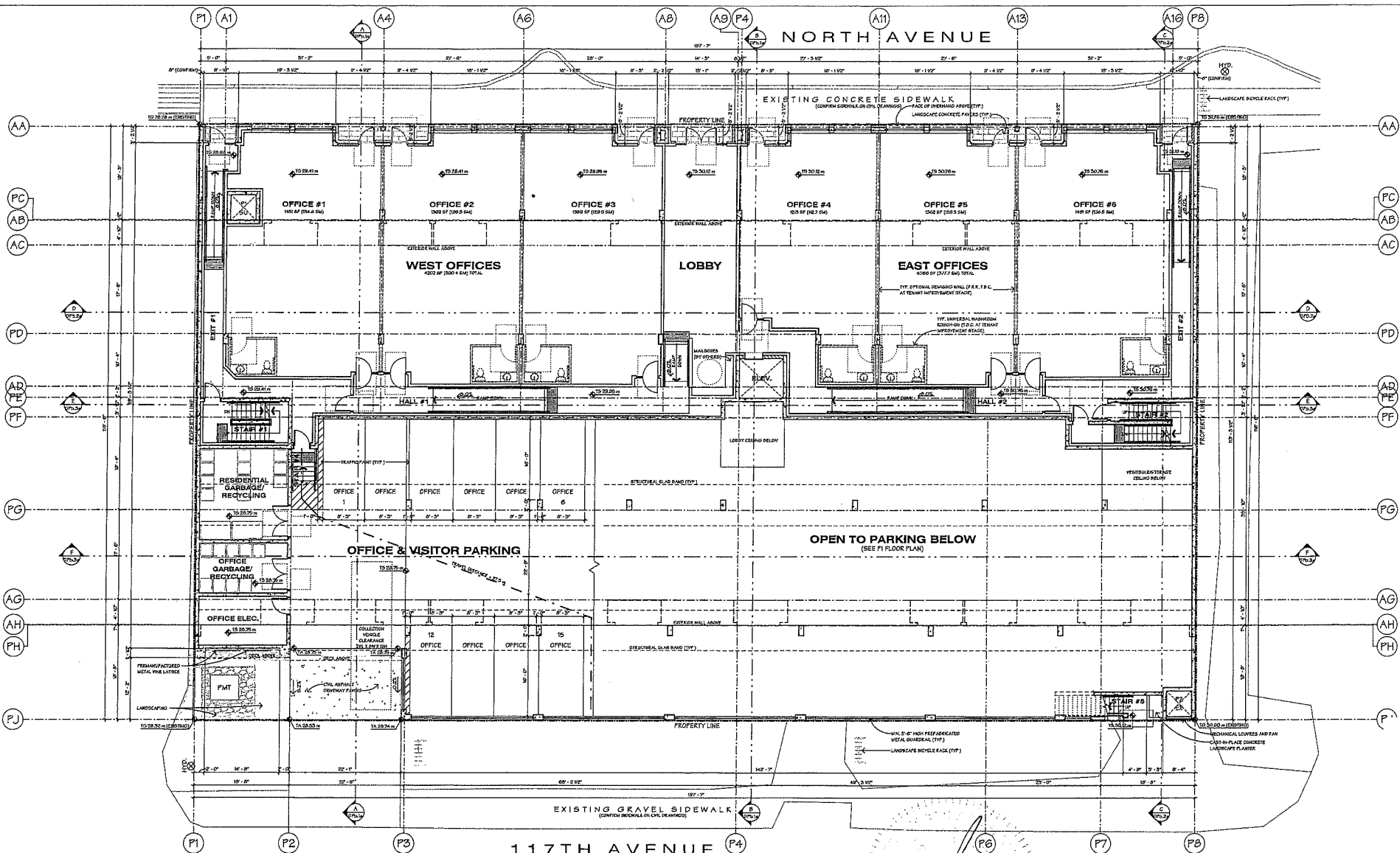
MAPLE RIDGE ZONE AMENDING

Bylaw No. 7649-2020

Map No. 1841

From: RT-1 (Two Family Urban Residential)
 RM-3 (High Density Apartment Residential)
 To: C-3 (Town Centre Commercial)





1ST FLOOR PLAN

LOUGHEED & NORTH AVENUE RESIDENCES

BLDG A: 22347 TO 22351 NORTH AVE.
MAPLE RIDGE, BC

SCALE 1/8" = 1'-0"
JOB NO. 1905

DP2.1a

ARCHITECTURE & LANDSCAPE ARCHITECTURE

8255 YOUNG ROAD
CHILLIWACK, B.C. CANADA
V2P 4K3

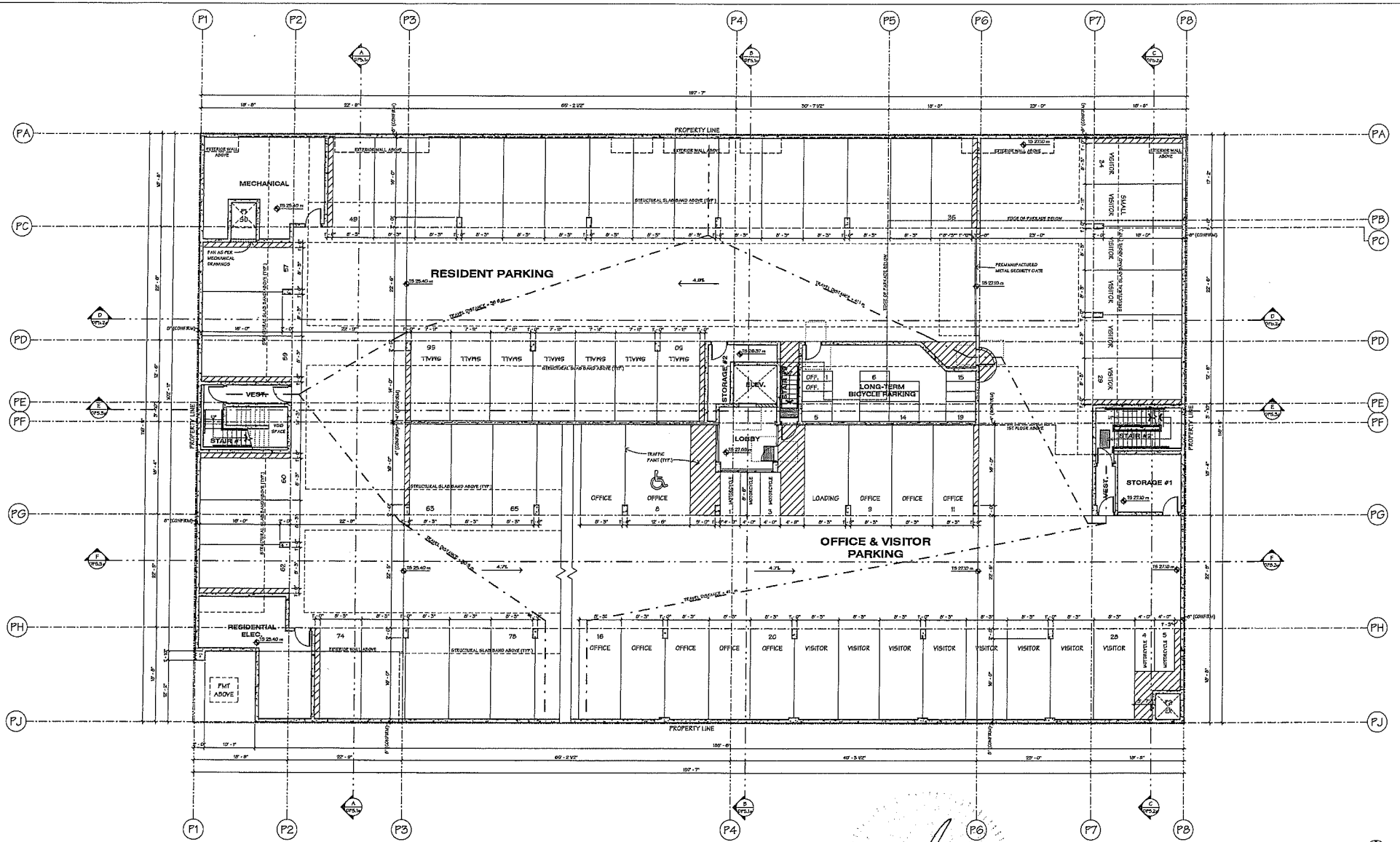
TEL: 604 | 705 | 9445
FAX: 604 | 705 | 9445
EMAIL: cdp@cravonhuston.com

Cravon|Huston|Powell|Architects

CHP

ISSUED FOR REZONING & DEVELOPMENT PERMIT

FEB 21 2020



UNDERGROUND PARKING A - LEVEL P1

LOUGHEED & NORTH AVENUE RESIDENCES
 BLDG A: 22347 TO 22351 NORTH AVE.
 MAPLE RIDGE, BC

SCALE: 1/8" = 1'-0"
 JOB NO. 1905

DP1.3a

ARCHITECTURE & LANDSCAPE ARCHITECTURE

8355 YOUNG ROAD
 CHILLIWACK, B.C. CANADA
 V2P 4S3

TEL: 804 | 700 | 9445
 FAX: 804 | 700 | 9445
 EMAIL: cpa@newclients.com

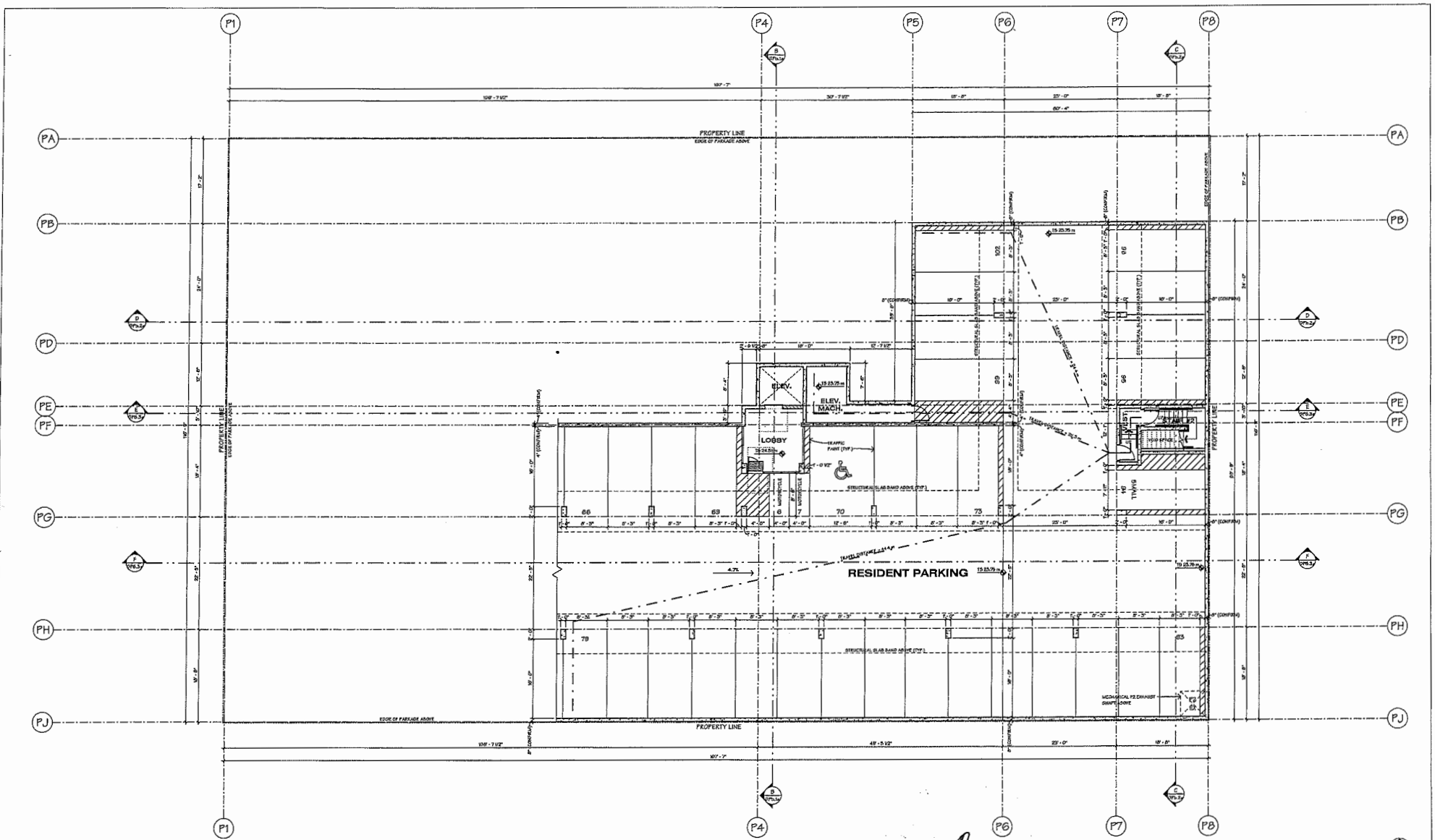
Craven | Huston | Powers | Architects

CHPA

ISSUED FOR REZONING & DEVELOPMENT PERMIT

FEB 21 2020





UNDERGROUND PARKING A - LEVEL P2

LOUGHEED & NORTH AVENUE RESIDENCES
 BLDG A: 22347 TO 22351 NORTH AVE.
 MAPLE RIDGE, BC

SCALE: 1/8" = 1'-0"
 JOB NO. 1905

DP1.2a

3RD REVISION: 1.1.2020 (P2) 2020.01.20

9335 YOUNG ROAD
 ONE LINNACK, B.C. CANADA
 V2P 4B3

TEL: 604 | 763 | 9445
 FAX: 604 | 763 | 9445
 EMAIL: info@gravenhustow.com

Graven|Hustow|Powers|Architects

CHPA

ISSUED FOR REZONING & DEVELOPMENT PERMIT

FEB 21 2020





VIEW FROM NORTH AVENUE
N.T.S.



VIEW FROM EXISTING CONDOS ON 117TH AVE.
N.T.S.

PERSPECTIVES

LOUGHEED & NORTH AVENUE RESIDENCES
BLDG A: 22347 TO 22351 NORTH AVE.
MAPLE RIDGE, BC

SCALE
JOB NO. 1905

DP0.2a

ISSUED FOR REZONING & DEVELOPMENT PERMIT

FEB 21 2020

9255 YOUNG ROAD
CHILLIWACK, B.C. CANADA
V2P 4G3
TEL: 604 | 793 | 9445 Craven | Hutton | Powars Architects
FAX: 604 | 793 | 9446
EMAIL: cfp@chparchitects.com

CH



mapleridge.ca

City of Maple Ridge

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
MEETING DATE: June 16, 2020
FILE NO: 2019-310-RZ
MEETING: C o W
SUBJECT: Second Reading
Zone Amending Bylaw No. 7603-2019;
11232 Dartford Street

EXECUTIVE SUMMARY:

An application has been received to rezone the subject property, located at 11232 Dartford Street (Appendix A), from C-4 (Neighbourhood Public House Commercial) to H-1 (Heritage Commercial). Currently, the site is licensed for a Neighbourhood Pub and a licensee retail store as an accessory use. The zone being sought would allow the licensee retail store to operate as an independent principle use and the pub would be discontinued as a use. There are no physical changes being proposed to the existing building and associated accessory parking. A development variance permit will be required to permit the building as-built.

Council granted first reading to Zone Amending Bylaw No. 7603-2019 on February 11, 2020. This application is in compliance with the Hammond Area Plan.

RECOMMENDATIONS:

- 1) That Zone Amending Bylaw No. 7603-2019 be given second reading, and be forwarded to Public Hearing;
- 2) That the following terms and conditions be met prior to final reading:
 - i) Registration of a Restrictive Covenant to for future road widening.

DISCUSSION:

1) Background Context:

Applicant:	Sel Engineering Ltd (Lee Her)
Legal Description:	Parcel 5 District Lot 278 Group 1 NWD Reference Plan 64192
OCP:	
Existing:	Hammond Village Commercial
Proposed:	Hammond Village Commercial
Zoning:	
Existing:	C-4 (Neighbourhood Public House Commercial)
Proposed:	H-1 (Heritage Commercial)

1102

Surrounding Uses:

North:	Use:	Residential
	Zone:	RS-1 (One Family Urban Residential)
	Designation:	Hammond Village Commercial
South:	Use:	Commercial
	Zone:	H-1 (Heritage Commercial)
	Designation:	Hammond Village Commercial
East:	Use:	Residential
	Zone:	One Family Urban Residential
	Designation:	Medium Density Multi-Family and Hammond Village Commercial
West:	Use:	Commercial
	Zone:	H-1 (Heritage Commercial)
	Designation:	Hammond Village Commercial

Existing Use of Property:	Commercial
Proposed Use of Property:	Commercial
Site Area:	0.12 HA. (0.3 acres)
Access:	Dartford Street
Servicing requirement:	Urban Standard

2) Background:

The subject site (Appendix A and B) is a fully developed flat parcel of land, with a commercial building in the northern end of the site and the associated accessory parking for the business in the southern half of the lot. There is a hedge partially along the southern and eastern edges of the parking area, buffering of garbage bin storage area to the residential lot to the east. There is a tree that straddles the lot line in the southeast corner of the parking lot.

When first presented to Committee of the Whole on January 28, 2020, a decision on the application was deferred to the February 11, 2020 Council meeting with the request for staff to contact the applicant and to report back on the termination of the pub operation. Staff confirmed with the applicant their decision had already been made to close the pub and operate only the Licensee Retail Store as a business decision. Council granted first reading on February 11, 2020.

3) Project Description:

The proposal is to rezone the subject site from C-4 (Neighbourhood Public House Commercial) to H-1 (Heritage Commercial), to permit the existing licensee retail store in the building as a principal use. There are no physical changes being proposed to the existing building and associated accessory parking (Appendix D, E and F). Therefore, no development permit for form and character is required as part of this application. A development variance permit will be required to permit the building as built.

4) Planning Analysis:

i) Official Community Plan:

The development site is located within the Hammond Village Area Plan and is currently designated Hammond Village Commercial. The proposed rezoning from C-4 (Neighbourhood Public House

Commercial) to H-1 (Heritage Commercial) is consistent with the Hammond Village Commercial designation.

ii) Zoning Bylaw:

The current application proposes to rezone the property located at 11232 Dartford Street (see Appendix C) from C-4 (Neighbourhood Public House Commercial) to H-1 (Heritage Commercial) to permit the existing licensee retail store in the building as a principal use. A development variance permit will be required to permit the building as built.

iii) Off-Street Parking And Loading Bylaw:

There are 17 parking spaces which meet the bylaw requirements based on the plans provided by the applicant's architect.

iv) Proposed Variances:

A Development Variance Permit application has been received for this project and involves variances to accommodate the existing siting of the building. The following relaxations to Section 713 Heritage Commercial: H-1, 7) Sitting a) commercial use of the Maple Ridge Zoning Bylaw No. 3510 -1985 are necessary to accommodate the building as built:

- Rear lot line setback is to be reduced from 6.0 metres to approximately 0.78 metres.

The requested setback variances will be the subject of a future Council report.

v) Development Permits:

The subject property is subject to Section 8.13 of the OCP, which is the Hammond Development Permit Area application for all Low Density Multi-family, Medium Density Multi-family, Infill General Employment and Hammond Village Commercial located in the Hammond Area. As described earlier, no development permit for form and character is required as part of this rezoning application.

vi) Advisory Design Panel:

A submission to the ADP was not required because there will be no change to the building and thus a form and character development permit is not associated with this rezoning application.

vii) Development Information Meeting:

A Development Information Meeting was not required for this application under Council Policy 6.20.

5) Interdepartmental Implications:

i) Engineering Department:

Should the existing building be demolished and replaced in the future, 1.0 metre of road widening will be required along Dartford Street. A restrictive covenant preventing the future construction of a new building or for parking area within this 1.0 metre wide strip of land is proposed to be registered on title.

ii) **License, Permits and Bylaws Department:**

Building advised a building permit would be required to alter the exterior appearance of the building and to reconfigure the interior of the building. The signage would need to comply with City requirements.

iii) **Fire Department:**

If no changes are taking place to the structure the Fire Department would have no issues with this project moving forward based on its use prior to this rezoning.

CONCLUSION:

It is recommended that that second reading be given to Zone Amending Bylaw No. 7603-2019, and that application 2017-310-RZ be forwarded to Public Hearing.

"Original signed by Adrian Kopystynski"

Prepared by: **Adrian Kopystynski, M.Sc., MCIP, RPP, MCAHP
Planner**

"Original signed by Chuck Goddard"

Reviewed by: **Charles R. Goddard, BA, MA
Director of Planning**

"Original signed by Christine Carter"

Approved by: **Christine Carter, M.PL, MCIP, RPP
GM Planning & Development Services**

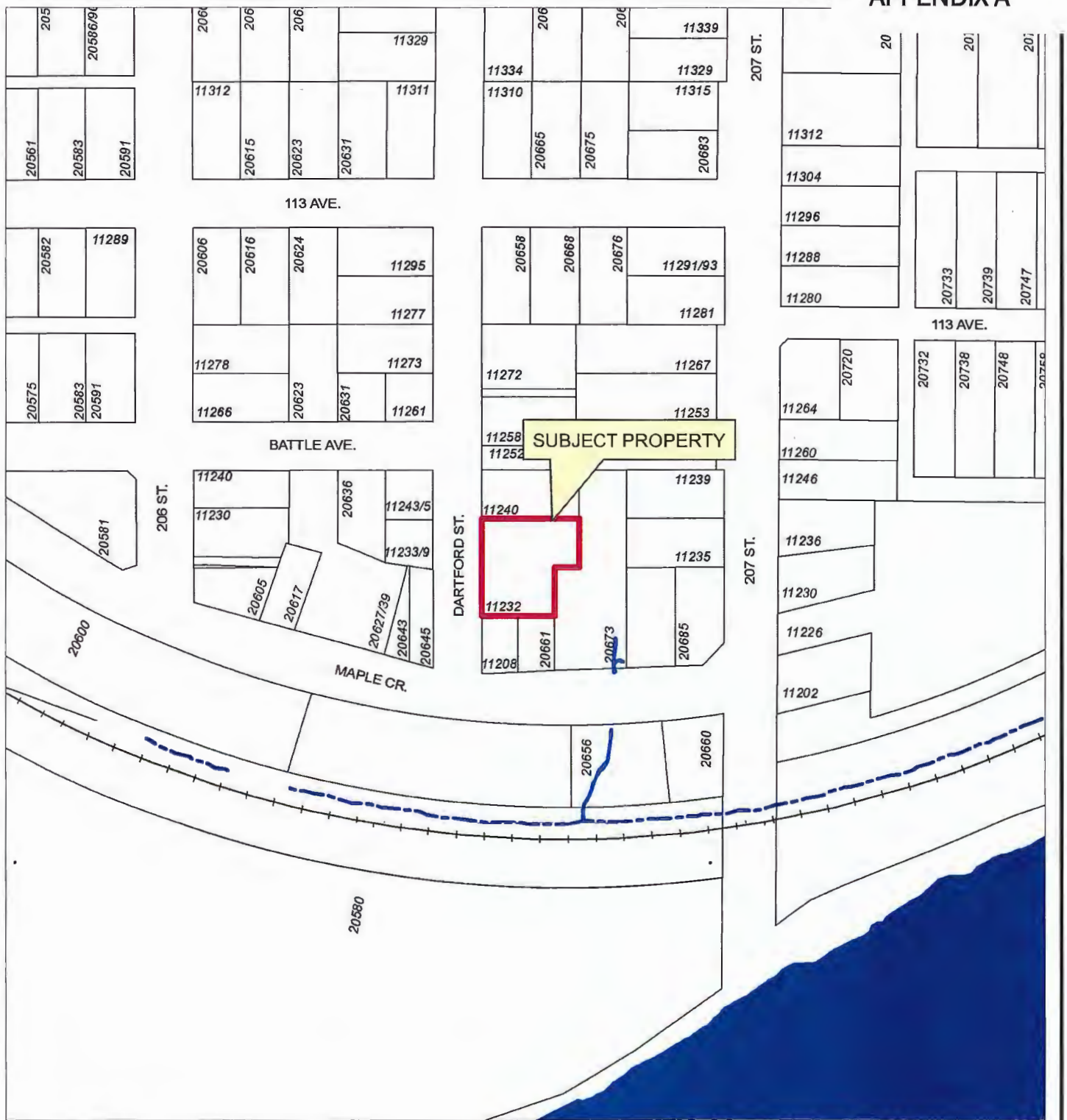
"Original signed by Al Horsman"

Concurrence: **Al Horsman
Chief Administrative Officer**

The following appendices are attached hereto:

- Appendix A – Subject Map
- Appendix B – Ortho Map
- Appendix C – Zone Amending Bylaw No. 7603-2019
- Appendix D – Site Plan
- Appendix E – Landscape Plan
- Appendix F – Building Plans and Elevation

APPENDIX A



Scale: 1:2,000

Legend

- Stream
- - - Ditch Centreline
- Edge of River
- - - Indefinite Creek
- River
- Major Rivers & Lakes

11232 DARTFORD STREET
PID: 000-566-098

PLANNING DEPARTMENT



MAPLE RIDGE

British Columbia

mapleridge.ca

FILE: 2019-310-RZ
DATE: Aug 29, 2019

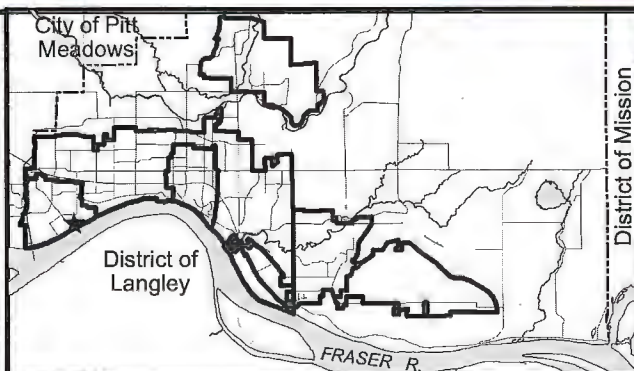
BY: PC



Aerial Imagery from the Spring of 2018



Scale: 1:2,000



11232 DARTFORD STREET
PID: 000-566-098

PLANNING DEPARTMENT



MAPLE RIDGE

British Columbia

mapleridge.ca

FILE: 2019-310-RZ
DATE: Aug 29, 2019

BY: PC

**CITY OF MAPLE RIDGE
BYLAW NO. 7603-2019**

WHEREAS, it is deemed expedient to amend Maple Ridge Zoning Bylaw No. 3510 - 1985 as amended;

1. This Bylaw may be cited as "Maple Ridge Zone Amending Bylaw No. 7603-2019."

Parcel 5 District Lot 278 Group 1 New Wetsminster District Reference Plan 64192

3. Maple Ridge Zoning Bylaw No. 3510 - 1985 as amended and Map "A" attached thereto are hereby amended accordingly.

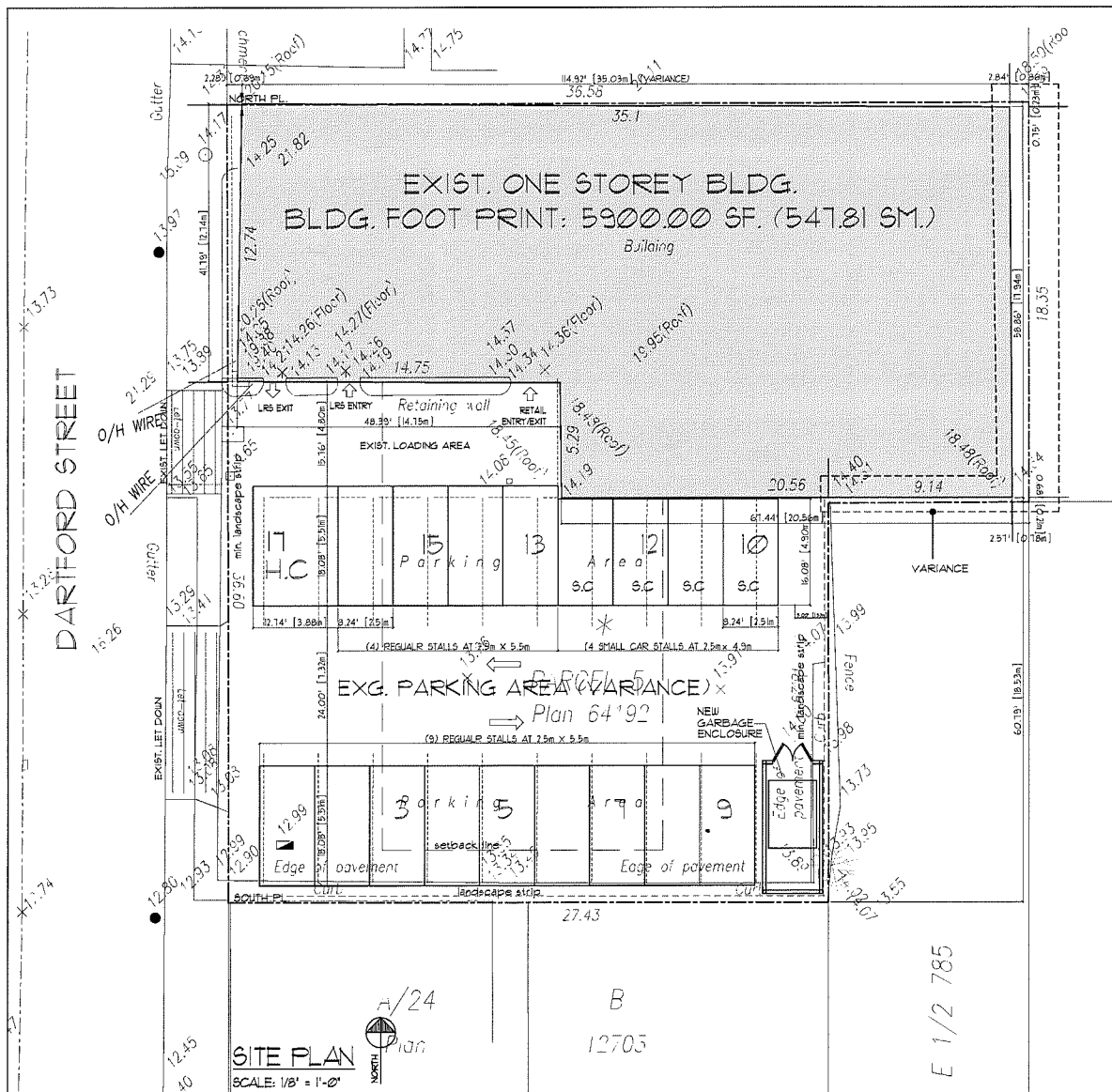
READ a second time the _____ day of _____, 20_____

PUBLIC HEARING held the day of , 20

READ a third time the _____ day of _____, 20_____

ADOPTED, the day of , 20

CORPORATE OFFICER



BUILDING STATISTICS

CIVIC ADDRESS
 1232 DARTFORD STREET
 MAPLE RIDGE, BC

LEGAL DESCRIPTION
 PARCEL 5, DL 278, GROUP 1, NUD, REF. PL. 64192

EXISTING ZONING: C-4
 PROPOSED ZONING: H-3

MIN. NET LOT AREA: 2,251.07 SF. (194.0 SF)

ACTUAL LOT AREA: 5,673.3 SF. (1,713.6 SF)

LOT COVERAGE: 30% = 1,356.15 SF. (1,054.42 SF)
 EXISTING: 5,900.00 SF. (547.81 SF)

MIN. HEIGHT: 11.0M (36.09')

EXISTING HT.: 5.23M (16.50')

SETBACK:
 FRONT SIDE YARD: 0.2M / EXIST. 0.2M

INTERIOR SIDE: 0.2M / EXIST. 0.2M

REAR SIDE YARD: 1.0M / EXIST. 0.75M

EXTERIOR SIDE YARD: 4.5M / NA

MIN. LANDSCAPE STRIP OF 1.0M (SEE LANDSCAPE DIAGS.)

OFF STREET PARKING

COMMERCIAL RETAIL (EXIST. LRS): 1 PER 30 SM. OF GROSS FLR. AREA
 16.28/30 = 234 (3 STALLS)

STORAGE: 1 PER 40 SM. OF GROSS FLR. AREA
 309.15/40 = 7.62 (8 STALLS)

OFFICE: 1 PER 40 SM. OF GROSS FLR. AREA
 323.5/40 = 8.08 (8 STALLS)

TOTAL = 10.56 (11 STALLS)

REQUIRED EXISTING = 10.56 (11 STALLS)

LWC = 2 STANDARD STALLS
 = 4 SMALL CARS

TOTAL = 11 STALLS

OFF STREET PARKING
 REQUIRED = 1

PROVIDED = 1 OFF DARTFORD STREET

REVISIONS:

1	PRELIMINARY	12/3/2017
---	-------------	-----------



507, 5083 ST. JOHN STREET
 FORT HOOD, BC V0N 1C4
 TEL: 250.464.5173
 FAX: 250.464.5171
 E-MAIL: sel@seleng.com

SEAL:

1. EXISTING DRAWING HAS BEEN REVIEWED AND CONFIRMED THAT ALL STRUCTURAL DETAILS AND CONNECTIONS OF THIS BUILDING, INCLUDING BRACING TO RESIST SEISMIC LOADS ARE DRAWN IN ACCORDANCE WITH PART 4 OF B.C.S. 191

2. COPYRIGHT RESERVED: THIS PLAN AND DESIGN ARE, AND AT ALL TIMES, THE EXCLUSIVE PROPERTY OF SEL ENGINEERING LIMITED. REPRODUCTION OR USE WITHOUT WRITTEN CONSENT IS PROHIBITED. CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS ON PROJECT, AND THIS OFFICE SHALL BE INFORMED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWING OR NOT SHOWN THEREIN.

PROJECT TITLE:

TENANT IMPROVEMENT AT:
 1232 DARTFORD STREET
 MAPLE RIDGE, BC

DRAWING TITLE:

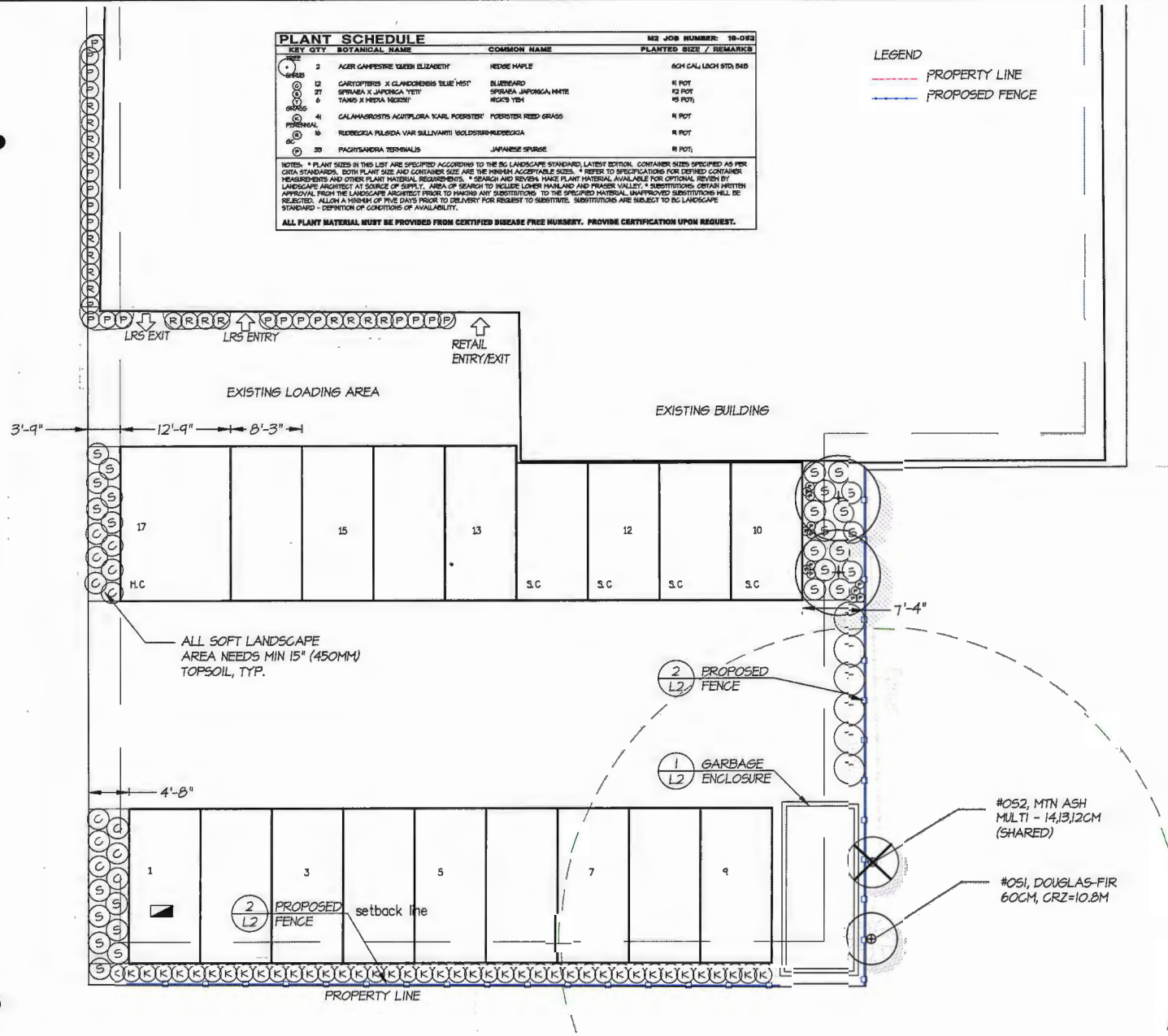
SITE PLAN & GENERAL NOTES

DESIGNED BY:	CMC
CHECKED BY:	CMC
DRAWN BY:	SHS
PROJECT NO.:	C13074
DATE:	02.19.22
SCALE:	AS SHC
DRAWING NO.:	

A-

APPENDIX D

DARTFORD STREET



PLANT SCHEDULE				102 JOB NUMBER: 10-0102
KEY	QTY	BOTANICAL NAME	COMMON NAME	PLANTED SIZE / REMARKS
1	2	ACER CAMPESTRE 'GREEN ELIZABETH'	REDDE MAPLE	60CM GAL, LOCH STD, B&S
2	12	CARYOPTERIS X GLANDERESS 'BLUE HEST'	BLUEBERRY	11 POT
3	27	SPINARIA X JAPONICA 'YETI'	SPINARIA JAPONICA WHITE	12 POT
4	4	TAMUS X NEDRA 'NEDRA'	HEATH YEM	12 POT
5	41	CALAMAGROSTIS ACUTIFLORA 'KARL POERSTEN'	POERSTEN REED GRASS	11 POT
6	10	RUBROGLA PULSADA VAR SULLIVANTII 'GOLDSTARR-RUBROGLA'		11 POT
7	20	PACHYSANDRA TERMINALIS	JAPANESE SPURGE	11 POT

NOTES: * PLANT SIZES IN THIS LIST ARE SPECIFIED ACCORDING TO THE BC LANDSCAPE STANDARDS, LATEST EDITION. CONTAINER SIZES SPECIFIED AS PER CREA STANDARDS. BOTH PLANT SIZE AND CONTAINER SIZE ARE THE MINIMUM ACCEPTABLE SIZES. * REFER TO SPECIFICATIONS FOR DEFINED CONTAINER MEASUREMENTS AND OTHER PLANT MATERIAL REQUIREMENTS. * CHECK AND VERIFY PLANT MATERIAL AVAILABLE FOR OPTIMAL SEASON BY LANDSCAPE ARCHITECT AT SOURCE OF SUPPLY. AREA OF SEARCH TO INCLUDE LOWER MAINLAND AND FRASER VALLEY. * SUBSTITUTIONS CERTAIN WRITTEN APPROVAL FROM THE LANDSCAPE ARCHITECT PRIOR TO MAKING ANY SUBSTITUTIONS TO THE SPECIFIED MATERIAL. UNAPPROVED SUBSTITUTIONS WILL BE SELECTED. ALLOW A MINIMUM OF FIVE DAYS PRIOR TO DELIVERY FOR REQUEST TO SUBSTITUTE. SUBSTITUTIONS ARE SUBJECT TO BC LANDSCAPE STANDARD - DEFINITION OF CONDITIONS OF AVAILABILITY.

ALL PLANT MATERIAL MUST BE PROVIDED FROM CERTIFIED DISEASE FREE NURSERY. PROVIDE CERTIFICATION UPON REQUEST.

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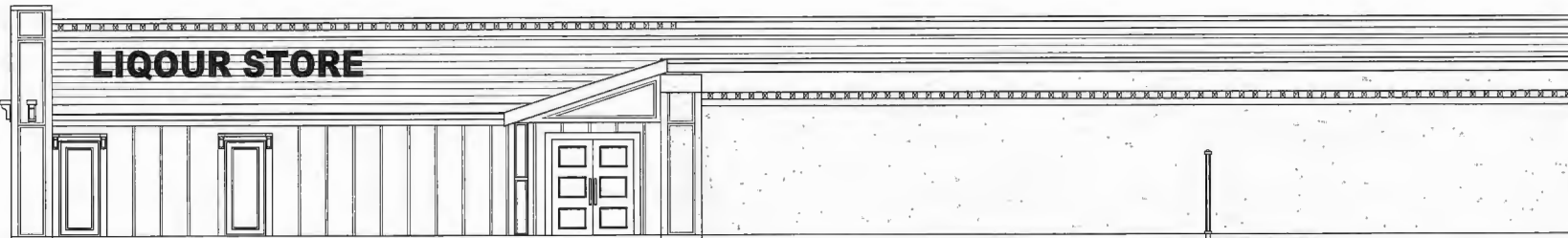


NO.	DATE	REVISION DESCRIPTION	DR.
1	2010-01-01	ISSUE FOR REVISION APP.	JH

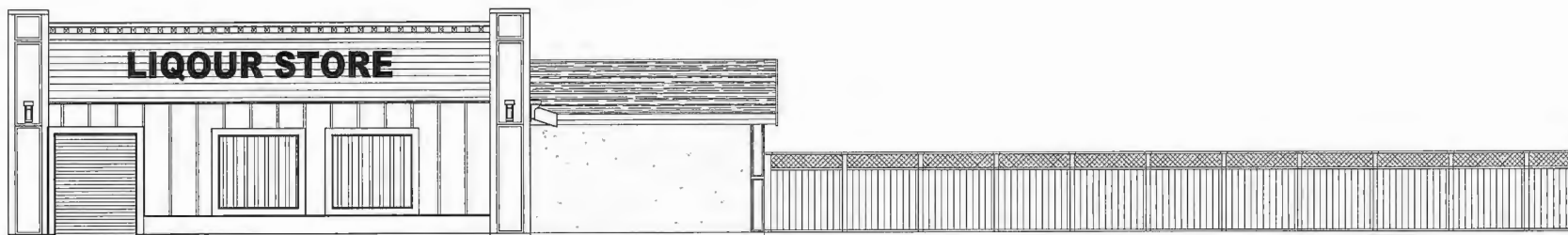
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PROJECT:	
TENANT IMPROVEMENT 1032 DARTFORD ST MAPLE RIDGE, BC	
DRAWING TITLE:	
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DESIGN: JH	
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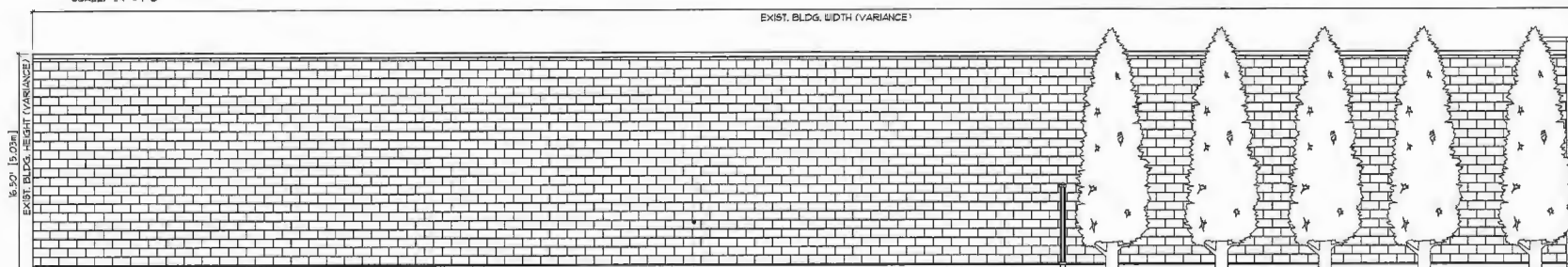
APPENDIX E



EXISTING SOUTH ELEVATION
SCALE: 1/4" = 1'-0"



EXISTING WEST ELEVATION
SCALE: 1/4" = 1'-0"



EXISTING NORTH ELEVATION
SCALE: 1/4" = 1'-0"



EXISTING NORTH ELEVATION



EXISTING WEST ELEVATION



EXISTING SOUTH ELEVATION

REVISIONS:	
1	PRELIMINARY
2	
3	
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SEL Engineering Limited
Consulting Engineers

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TELEPHONE: 604-463-1373
FACSIMILE: 604-463-1371
E-MAIL: SEL@SELBC.COM

SCALE:

LOANED GREEN PLANS HAVE PROVIDED AND CONFIRMED THAT ALL STRUCTURAL MEMBERS AND CONNECTIONS OF THE BUILDING WILL BE REINFORCED TO MEET SEISMIC LOADS AS OBTAINED IN ASSOCIATED CITY PART 4 OF 2006 199

100 SUPPLEMENTARY REVISIONS: PREPARED FOR DESIGN AND AT ALL TIMES THE EXCLUSIVE PROPERTY OF SEL ENGINEERING LIMITED. REPRODUCTION OR USE WITHOUT WRITTEN CONSENT OF PROJECTED CONTRACTOR SHALL BE PROHIBITED. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS OF PROJECT AND THIS OFFICE SHALL BE INFORMED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN ON THE DRAWING, DO NOT SCALE DRAWING.

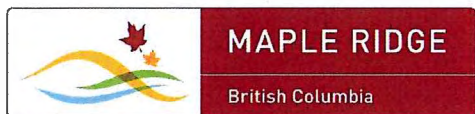
PROJECT TITLE:
TENANT IMPROVEMENT AT:
1033 DARTFORD STREET
MAPLE RIDGE, BC

DRAWING TITLE:
EXISTING ELEVATIONS

DESIGNED BY: CMC
CHECKED BY: CMC
DRAWN BY: SHS
PROJECT NO: C13074
DATE: 03/23/2013
SCALE: AS SHOWN
DRAWING NO:

A-3

APPENDIX F



mapleridge.ca

CITY OF MAPLE RIDGE

TO: His Worship Mayor Michael Morden
and Members of Council
FROM: Chief Administrative Officer
SUBJECT: Award of Contract ITT-EN20-18: 225 Street Sanitary Pump Station Upgrades

MEETING DATE: June 16, 2020
FILE NO: 11-5255-50-096
MEETING: CoW

EXECUTIVE SUMMARY:

The purpose of this report is to obtain Council approval to award the 225 Street Sanitary Pump Station Upgrades contract to Drake Excavating (2016) Ltd., in the amount of \$2,802,879.00 excluding taxes.

The 225 Street Pump Station and South Slope Forcemain Project is a multi-phased project that includes pump station upgrades and expansion and the installation of a larger forcemain to convey the sewage to the Greater Vancouver Sewerage and Drainage District (GVS&DD) trunk sewer that in turn connects to a wastewater treatment plant that treats the sewage.

Phase 1 of the 225 Street Pump Station and South Slope Forcemain Project, the installation of forcemain under the new Haney Bypass to Cliff Avenue east of 221 Street, is nearing construction completion. Phase 2 of the project, the 225 Street Sanitary Pump Station Upgrades, is at construction tender award stage and is the subject of this report. Phase 3, the forcemain from 221 Street along Lougheed Highway to Steeves Street and River Road where it connects to the existing trunk sewer (see attachment), is currently in design.

The pump station is located at the intersection of 225 Street and the Haney Bypass. It receives approximately 40% of the City's sewage flows. The Phase 2 work is a major refurbishment of the pump station that was built in 1979 as well as an increase in pumping capacity.

The 225 Street Pump Station and South Slope Forcemain have been upsized to accommodate future growth as set out in the Official Community Plan (OCP). The pump station upgrades include the replacement of all four pumps, which were pre-purchased using grant funding. When the project is complete, the flow capacity will be doubled.

The current budget for all phases is \$13,034,448.00 based on consultant estimates. The current estimate to complete Phase 2 is \$4,673,979.00. This includes design and the extension of Associated Engineering Ltd.'s (AE) contract for additional design as well as construction and field services for a total of \$258,000.00. The overall consulting fees for the project align with industry standards. A higher than typical 25% contingency has been carried due to the complexity of construction and criticality of the pump station (\$700,700.00). The tender pricing is higher than the original budget estimate. Funding of Phase 3 construction will be addressed as part of the annual Financial Plan deliberations.

RECOMMENDATION:

That Contract ITT-EN20-18, 225 Street Sanitary Pump Station Upgrades, be awarded to Drake Excavating (2016) Ltd. in the amount of \$2,802,879.00 excluding taxes; and

That the existing Associated Engineering (B.C.) Ltd. contract for Engineering Design Services for South Slope Forcemain Upsizing and Pump Station Modifications be extended by \$258,000.00 for engineering and field services; and

That a project contingency of 25% or \$700,700.00 be approved to address potential variations in field conditions; and further

That the Corporate Officer be authorized to execute the contract.

DISCUSSION:

a) Background Context:

The 225 Street Sanitary Pump Station, built in 1979, is located at the intersection of 225 Street and the Haney Bypass. It receives approximately 40% of the City's sewage flows, serving the areas east of 222 Street and south of Dewdney Trunk Road, including the entire Downtown and Albion areas. The pump station conveys sewage via the existing South Slope Forcemain west along River Road to Best Street where it discharges into a GVS&DD trunk sewer.

The pump station is at a point in its lifecycle where capital renewal is required and, to meet growth demands and the long-term needs of the City, both the pump station and forcemain need to be upgraded to reliably convey increasing sewerage flows. The upgrades will double the capacity of the pump station and forcemain to convey sewage.

It is noted that the GVS&DD is also undertaking improvements to the regional sewer system: expanding the Langley Wastewater Treatment Plant and constructing a storage tank to increase sewage handling capacity. This work further improves the system and facilitates further growth in Maple Ridge and the Region.

In 2016, the City engaged Stantec Consulting Ltd. to develop a plan and conceptual design for the 225 Street Pump Station and South Slope Forcemain upgrades. The conceptual estimate for construction was \$10,906,000.00. Since this estimate, the scope of the project for Phase 1 has grown to include construction of a watermain, construction of a multi-use path and installation of fibre optic cable. These additional items were not contemplated in the original budget estimate.

In March of 2017, the City received provincial grant funding in the amount of \$998,905.00 that was used to pre-purchase the new pumps. In April 2017, AE was awarded the contract to complete the design of the pump station and forcemain.

The construction schedule is divided into three phases: Phase 1 includes forcemain installation from the 225 Street Pump Station to Cliff Avenue east of 221 Street, Phase 2 is the 225 Street Pump Station upgrades, and Phase 3 is the forcemain upgrades on Lougheed Highway east of 221 Street on Cliff Avenue to River Road. Phase 1 works are currently underway and are included in the Ministry of Transportation and Infrastructure's Haney Bypass Improvements project.

The pump station upgrades include the replacement and upgrade of four pumps with additional pumping capacity and improved efficiency, upgrades to process mechanical equipment, upgrades to the wet well and dry well, installation of a temporary bypass main

during process piping replacement and other pertinent appurtenances to complete the upgrades while the pump station is in operation. The upgrades will increase capacity, allowing the station to handle growth as set out in the OCP.

An Invitation to Tender for Phase 2 was issued on March 17, 2020 and closed on April 28, 2020. The lowest tender price was submitted by Drake Excavating (2016) Ltd. in the amount of \$2,802,879.00, excluding taxes. Design of Phase 3 is expected to be complete in the third quarter of 2020 with construction anticipated in 2021.

Tender Evaluation

An Invitation to Tender for Phase 2 was issued on March 17, 2020 and closed on April 28, 2020 with nine bids received, listed below from lowest to highest price.

	<u>Tender Price (excluding taxes)</u>
1. Drake Excavating (2016) Ltd.	\$2,802,879.00
2. Industra Construction Corp.	\$2,854,493.47
3. Kenaidan Contracting Ltd.	\$3,097,170.00
4. Deramore Construction Services Inc.	\$3,177,146.79
5. Tybo Constructors Ltd.	\$3,189,000.00
6. PCL Constructors Westcoast Inc.	\$3,258,562.00
7. Trittech Group Ltd.	\$3,519,557.18
8. Kingston Construction Ltd.	\$3,738,520.80
9. Hanna Infrastructure Ltd.	\$4,882,665.00

The number of bids and the range of prices indicate a competitive environment and a fair market price.

There were several bid submissions that contained minor irregularities. The Invitation to Tender document permits the City to waive these irregularities and to accept these bids. A legal opinion was obtained that indicated these irregularities would not impact the award to the low bidder. Procurement has reviewed the tenders and is in agreement with the recommendation.

The recommendation is to award to the lowest bidder, Drake Excavating (2016) Ltd., in the amount of \$2,802,879.00 excluding taxes.

b) Desired Outcome:

The upgrades to the existing 225 Street Pump Station will provide the sanitary sewer system the pumping capacity and reliability to meet the demands of the land use within the respective tributary areas in accordance with the City's OCP.

c) Strategic Alignment:

Council's Strategic Plan provides direction to manage municipal infrastructure under various initiatives such as the Master Sewer Plan and the Development Cost Charge (DCC) Bylaw. The 225 Street Pump Station upgrades will meet the increasing sewer flow and future demand set out in the Master Sewer Plan and OCP.

d) Citizen/Customer Implications:

The construction duration is estimated at 12 months, commencing promptly after the contract is awarded and expected to be completed by June 2021. The impact to traffic and area residents will be minimal as most of the work is inside the pump station building and compound. There will be a slight disruption to traffic on 225 Street when the driveway access culvert is replaced and re-paved.

Sanitary service will not be impacted, since the pump station is to remain in service and operational during construction.

Notifications will be delivered to area residents informing them of the project. The general public will be informed of the construction project, progress and updates through the City's website and social media sources.

e) Interdepartmental Implications:

The Engineering Operations Department has provided input during the design stage and will assist and provide support during construction, since the pump station needs to remain in operation throughout construction.

f) Business Plan/Financial Implications:

The project budget is based on estimates provided by the consultant. The project is largely funded through DCCs and the Sanitary Sewer Reserve Fund. In March 2017, the City received a grant of \$998,905.00 from the Province under the Clean Water and Wastewater Fund.

Existing Funding

Clean Water and Wastewater Fund Grant	\$	998,905.00
Development Cost Charges (DCCs)	\$	3,350,555.00
Sanitary Sewer Reserve Fund	\$	6,659,261.00
Other Sources	\$	1,025,727.00
2021 Funding	\$	1,000,000.00
Total Existing Project Funding (3 Phases)	\$	13,034,448.00

The construction costs for Phase 1 and 2 are higher than the original consultant budget estimates. There is adequate funding to complete the current phases and funding for Phase 3 will be addressed when a pre-tender estimate is obtained and through the annual Financial Plan deliberations.

The Phase 2 budget estimate is as follows:

Design	\$	310,800.00
Consulting and Field Services	\$	258,000.00
Pre-Purchased Pumps	\$	601,600.00
Construction	\$	2,802,879.00
Contingency	\$	700,700.00
Total	\$	4,673,979.00

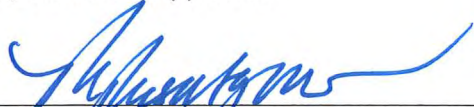
Award of the construction contract for Phase 2 is recommended. Approval to extend AE's contract for additional services completed during design phase and for construction and field service during the construction phase in the amount of \$258,000.00 is also required.

Rebuilding an operational pump station is a complex undertaking with many unknowns. Because of the higher degree of variation and risk associated with a project of this nature, a higher than typical contingency for Phase 2 is required. This contingency will only be used if necessary.

CONCLUSIONS:

This project is an extensive upgrade of a major trunk and pump station that serves 40% of the city; it also renews this critical piece of infrastructure that is at the end of its service life. The upgrades address capacity, allowing for the future growth of the city.

It is recommended that Council approve the award of the contract to Drake Excavating (2016) Ltd. In the amount of \$2,802,879.00, that AE's contract be extended by \$258,000.00 and a contingency of \$700,700.00 be approved.



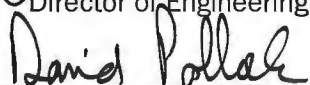
Submitted by: Maria Guerra, PEng., PMP
Acting Manager of Design & Construction



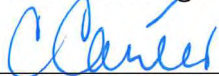
Financial Trevor Thompson, BBA, CPA, CGA
Concurrence: Chief Financial Officer



Reviewed by: Josh Mickleborough, PEng.
Director of Engineering



Approved by: David Pollock, PEng.
General Manager Engineering Services



Concurrence: Al Horsman
Chief Administrative Officer

Attachments:
(A) Map

