APPENDIX A

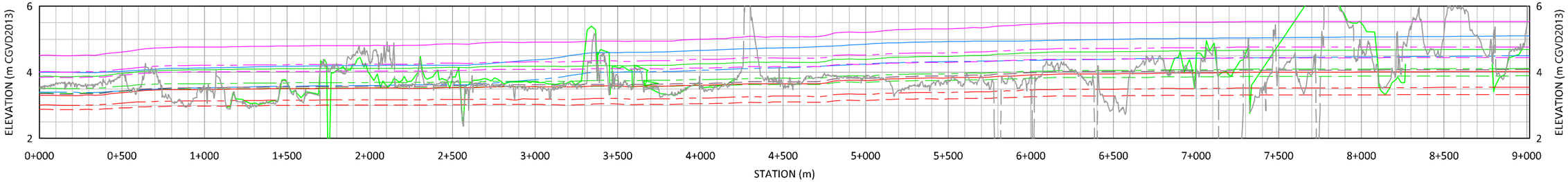
WATER LEVEL PROFILES AND FLOOD DEPTH MAPS

Appendix A1 Water Level Profiles
Appendix A2 Flood Depth Maps
Appendix A3 Flood Hazard Maps
Appendix A4 Velocity Diagrams

APPENDIX A1

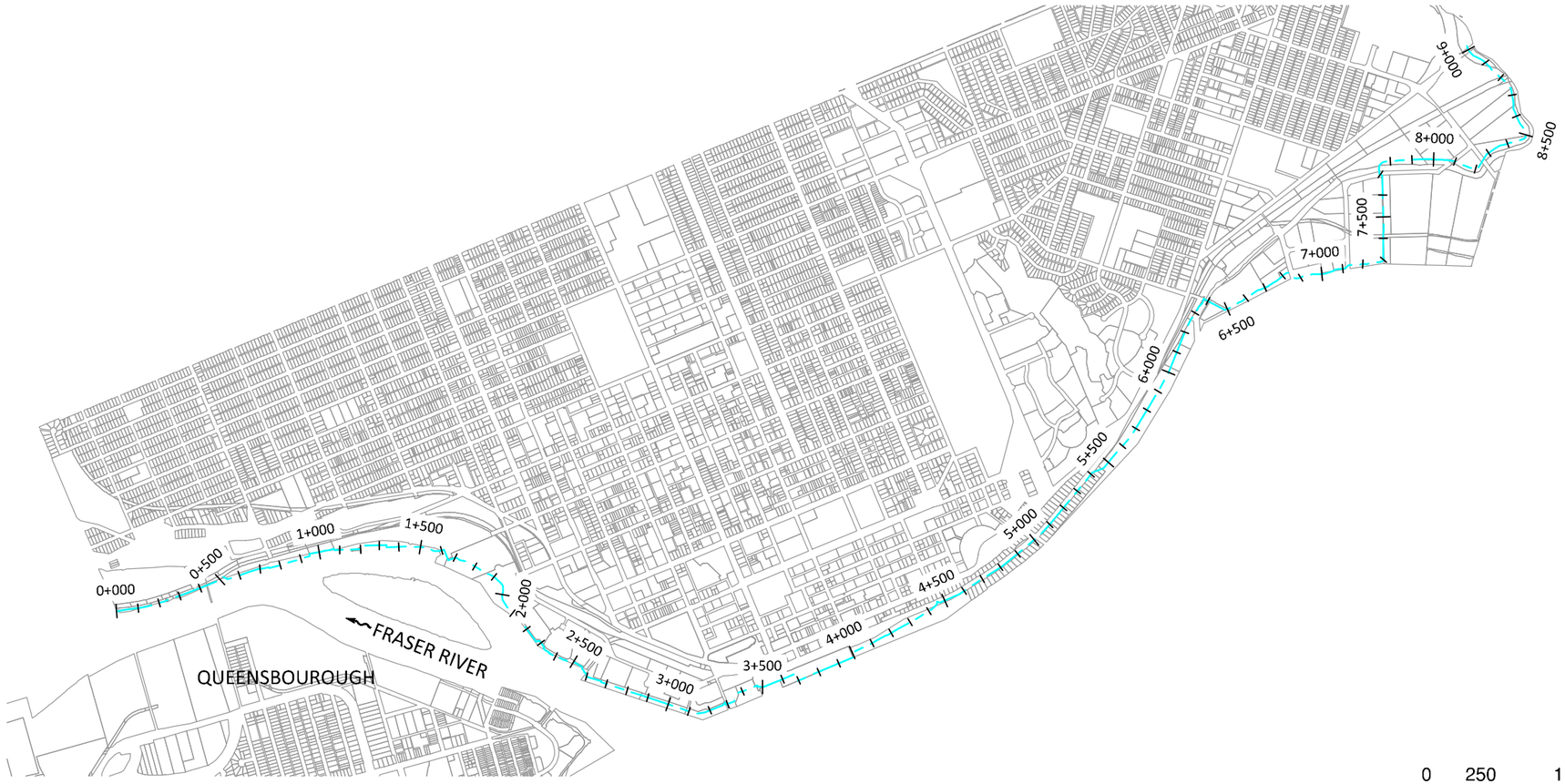
WATER LEVEL PROFILES

Figure 1 Mainland Area
Figure 2 Queensborough



PROFILE VIEW - MAINLAND

1:25000 250X V.EX.



PLAN VIEW

1:25000

LEGEND

- DESIGN WATER LEVEL PROFILE (2008) WITHOUT FREEBOARD
- DESIGN WATER LEVEL PROFILE (2008) WITH FREEBOARD
- HISTORIC 1894 WATER LEVEL
- PRESENT DAY 2% AEP WATER LEVEL
- PRESENT DAY 1% AEP WATER LEVEL
- PRESENT DAY 0.2% AEP WATER LEVEL
- YEAR 2050 2% AEP WATER LEVEL
- YEAR 2050 1% AEP WATER LEVEL
- YEAR 2050 0.2% AEP WATER LEVEL
- YEAR 2100 2% AEP WATER LEVEL
- YEAR 2100 1% AEP WATER LEVEL
- YEAR 2100 0.2% AEP WATER LEVEL
- 2007 DIKE SURVEY
- 2016 LIDAR

0 250 1:25,000 1250m

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REVISIONS		

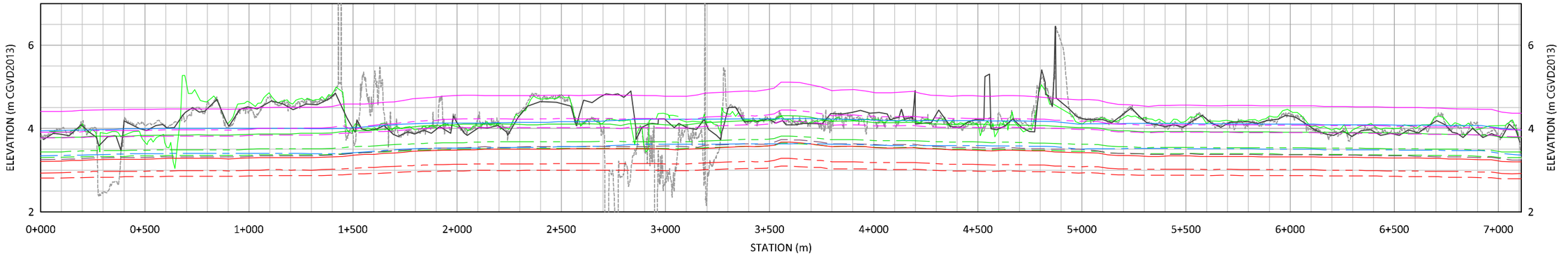
DRAWING INFORMATION	
DATE	4 Jun 2021
DESIGNED BY	NLB
DRAWN BY	CZZ
CHECKED BY	MCM
SHEET SIZE	B (11" x 17")

Flood Management Strategy Update

Figure 1 Mainland Profiles

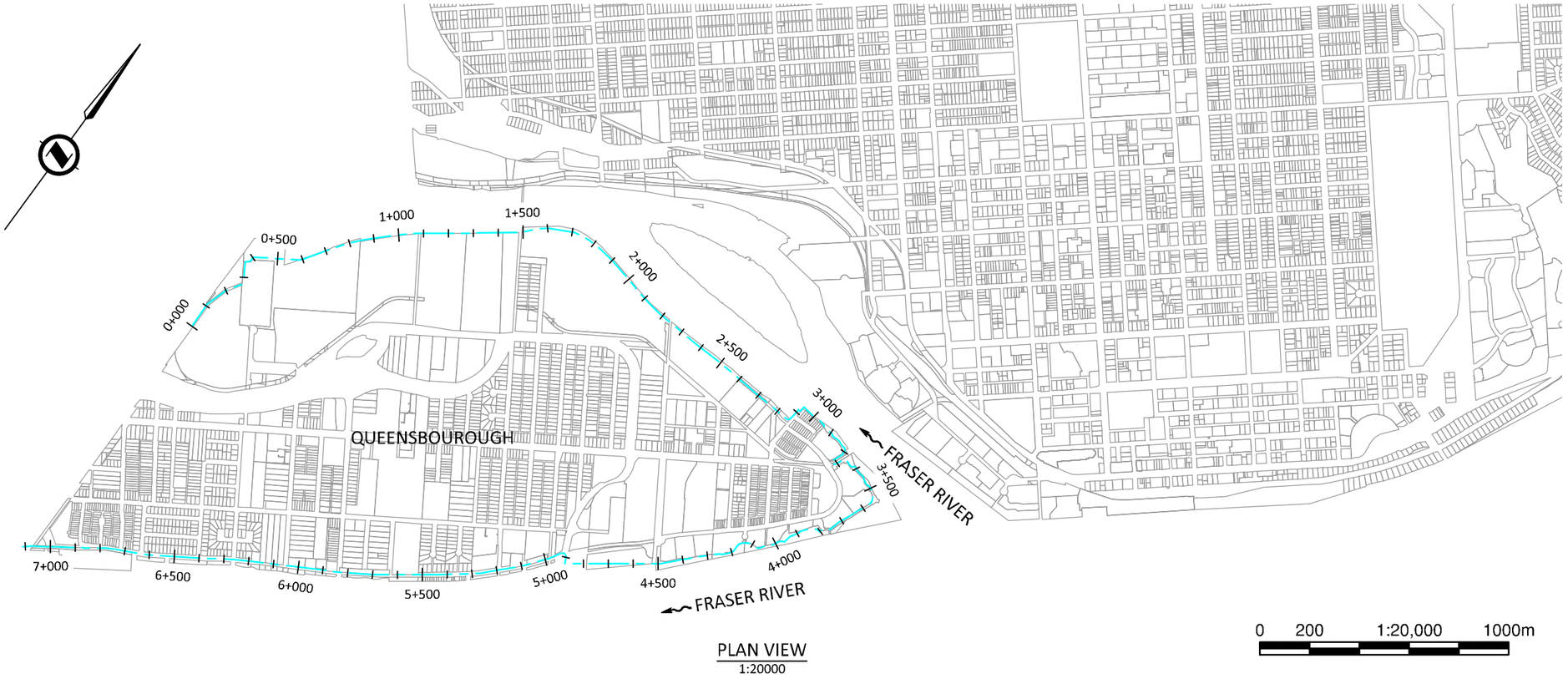
PROJECT NUMBER	3006287
DRAWING NUMBER	3006287-2-001
SHEET NUMBER	1
REVISION	

Filename: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\96 CAD\02_Production\000_Figures\3006287-02-IFR-FIG-NewWest-Mainland-R0c.dwg, 2021-06-04 4:56:55 PM



PROFILE VIEW - QUEENSBOUROUGH DYKE

1:20000 200X V.EX.



PLAN VIEW

1:20000

LEGEND

- DESIGN WATER LEVEL PROFILE (2008) WITHOUT FREEBOARD
- DESIGN WATER LEVEL PROFILE (2008) WITH FREEBOARD
- HISTORIC 1894 WATER LEVEL
- PRESENT DAY 2% AEP WATER LEVEL
- PRESENT DAY 1% AEP WATER LEVEL
- PRESENT DAY 0.2% AEP WATER LEVEL
- YEAR 2050 2% AEP WATER LEVEL
- YEAR 2050 1% AEP WATER LEVEL
- YEAR 2050 0.2% AEP WATER LEVEL
- YEAR 2100 2% AEP WATER LEVEL
- YEAR 2100 1% AEP WATER LEVEL
- YEAR 2100 0.2% AEP WATER LEVEL
- 2007 DIKE SURVEY
- 2016 LIDAR
- 2021 DIKE SURVEY

0 200 1:20,000 1000m

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www.nhcweb.com

REVISIONS		

DRAWING INFORMATION	
DATE	4 Jun 2021
DESIGNED BY	NLB
DRAWN BY	CZZ
CHECKED BY	MCM
SHEET SIZE	B (11" x 17")

Flood Management Strategy Update

Figure 2 Queensborough Dike Profile

PROJECT NUMBER	3006287
DRAWING NUMBER	3006287-2-002
SHEET NUMBER	2
REVISION	

Filename: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\96 CAD\02_Production\000_Figures\3006287-02-IFR-FIG-NewWest-Queensbourough-R0e.dwg, 2021-06-04 3:52:51 PM

APPENDIX A2

FLOOD DEPTH MAPS

Figure 1 Present Day 2% AEP Flood – Max. Depth
Figure 2 Present Day 1% AEP Flood – Max. Depth
Figure 3 Present Day 0.2% AEP Flood – Max. Depth
Figure 4 Year 2050 2% AEP Flood – Max. Depth
Figure 5 Year 2050 1% AEP Flood – Max. Depth
Figure 6 Year 2050 0.2% AEP Flood – Max. Depth
Figure 7 Year 2100 2% AEP Flood – Max. Depth
Figure 8 Year 2100 1% AEP Flood – Max. Depth
Figure 9 Year 2100 0.2% AEP Flood – Max. Depth
Figure 10 North Arm Breach 1894 Flood – Max. Depth
Figure 11 North Arm Breach Year 2050 0.2% AEP Flood – Max. Depth
Figure 12 Annacis Channel Breach 1894 Flood – Max Depth

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DIKE

ESTMINSTER MUNICIPAL BOUNDARY

MA DEPT m
0-0.1
0.1-0.3
0.3-0
0 -1.0
1.0-2.0
2.0-3.0
3.0

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

Job: 3006287 | Date: 09-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 2% AEP FLOOD MAX. DEPTH

FIGURE 1

S M mainfile- an Pro e ts A ti e 300 2 Ne est Flood Strategy GIS 300 2 S M Ne estFloodMap apr

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 08-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 1% AEP FLOOD MAX. DEPTH

FIGURE 2

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 08-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 0.2% AEP FLOOD MAX. DEPTH

FIGURE 3

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 08-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 2% AEP FLOOD MAX. DEPTH

FIGURE 4

SVM: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 1% AEP FLOOD MAX. DEPTH

FIGURE 5

SVM: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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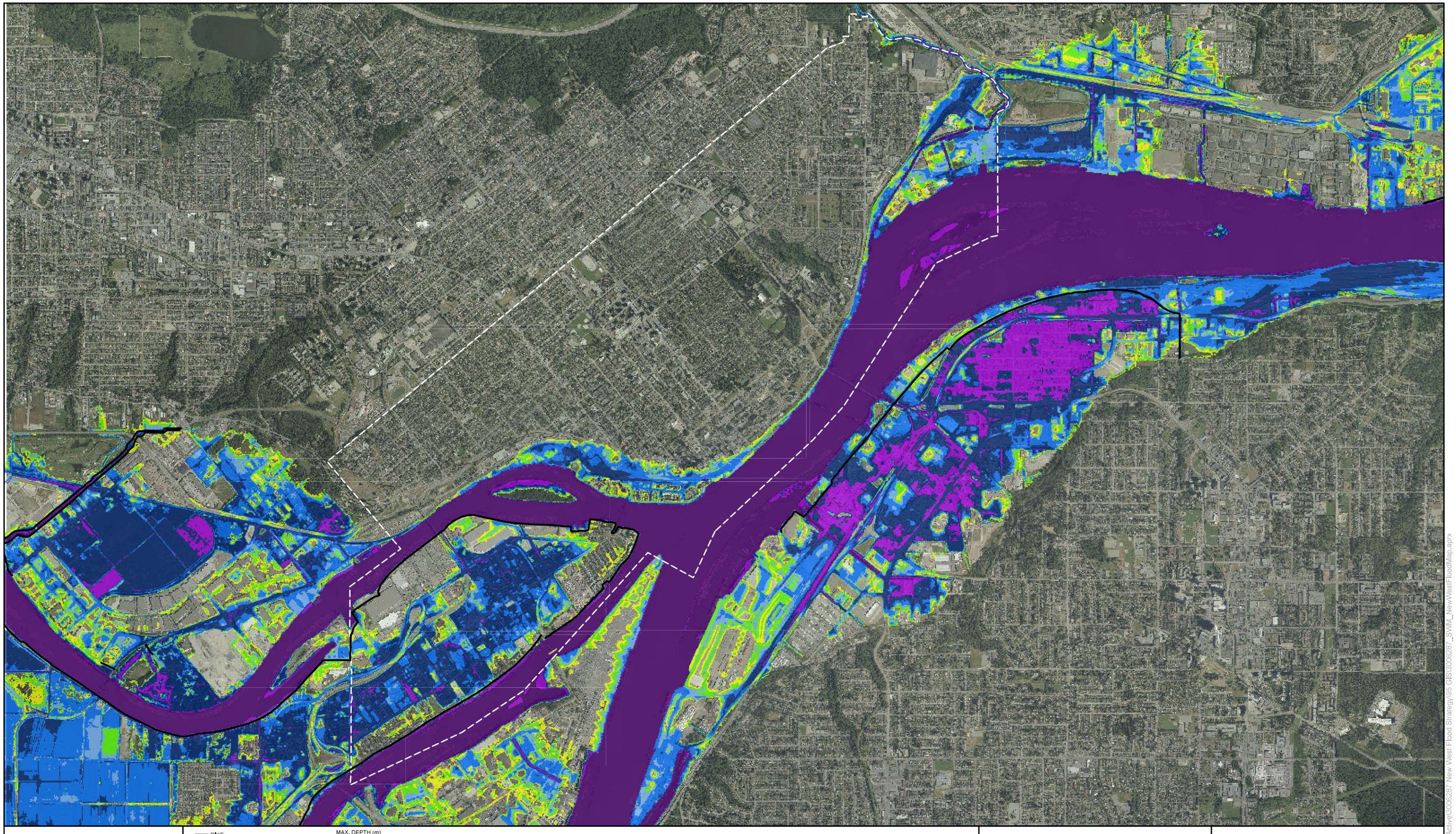
FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 0.2% AEP FLOOD MAX. DEPTH

FIGURE 6

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx



DIKE

NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)

- 0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 3.0
- > 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 2% AEP FLOOD MAX. DEPTH

FIGURE 7

SVM: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 08-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 1% AEP FLOOD MAX. DEPTH

FIGURE 8

SVM: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
- 0 - 0.1
- 0.1 - 0.3
- 0.3 - 0.5
- 0.5 - 1.0
- 1.0 - 2.0
- 2.0 - 3.0
- > 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 0.2% AEP FLOOD MAX. DEPTH

FIGURE 9

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
QUEENSBOURGH BREACH LOCATION
NEW WESTMINSTER MUNICIPAL BOUNDARY

MAX. DEPTH (m)
0 - 0.1
0.1 - 0.3
0.3 - 0.5
0.5 - 1.0
1.0 - 2.0
2.0 - 3.0
> 3.0

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

N

0 500 1,000 1,500 m

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE

NORTH ARM BREACH 1894 FLOOD MAX. DEPTH

FIGURE 10

SVM: \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
QUEENSBOURG BREAC LOCATION
NE ESTMINSTER MUNICIPAL BOUNDARY

MA DEPT m
0-01
01-03
03-0
0 -10
10-20
20-30
30

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE
NORTH ARM BREACH YEAR 2050 0.2% AEP FLOOD MAX. DEPTH

FIGURE 11

S M mainfile- an Pro e ts A ti e 300 2 Ne est Flood Strategy GIS 300 2 S M Ne estFloodMap apr

DIKE

UEENSBOURG BREAC LOCATION

NE ESTMINSTER MUNICIPAL BOUNDARY

MA DEPT m

0 - 0 1

0 1 - 0 3

0 3 - 0

0 - 1 0

1 0 - 2 0

2 0 - 3 0

3 0

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DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

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FLOOD MANAGEMENT STRATEGY UPDATE

ANNACIS CH. BREACH 1894 FLOOD MAX. DEPTH

FIGURE 12

S M mainfile- an Pro e ts A ti e 300 2 Ne est Flood Strategy GIS 300 2 S M Ne estFloodMap apr

APPENDIX A3

FLOOD HAZARD MAPS

Figure 1 Present Day 2% AEP Flood – Max. Hazard (vel. x depth)
Figure 2 Present Day 1% AEP Flood – Max. Hazard (vel. x depth)
Figure 3 Present Day 0.2% AEP Flood – Max. Hazard (vel. x depth)
Figure 4 Year 2050 2% AEP Flood – Max. Hazard (vel. x depth)
Figure 5 Year 2050 1% AEP Flood – Max. Hazard (vel. x depth)
Figure 6 Year 2050 0.2% AEP Flood – Max. Hazard (vel. x depth)
Figure 7 Year 2100 2% AEP Flood – Max. Hazard (vel. x depth)
Figure 8 Year 2100 1% AEP Flood – Max. Hazard (vel. x depth)
Figure 9 Year 2100 0.2% AEP Flood – Max. Hazard (vel. x depth)
Figure 10 North Arm Breach 1894 Flood – Max. Hazard (vel. x depth)
Figure 11 North Arm Breach Year 2050 0.2% AEP Flood – Max. Hazard (vel. x depth)
Figure 12 Annacis Channel Breach 1894 Flood – Max. Hazard (vel. x depth)

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 1

SVM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE

NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 1% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 2

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE

NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING

0 - 0.75

0.75 - 1.25

1.25 - 2.00

>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

N

0 500 1,000 1,500 m

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287

Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

PRESENT DAY 0.2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 3

SWM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 4

SWM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 1% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 5

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2050 0.2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 6

S:\VM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 7

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\05 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 1% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 8

SVM_\\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SVM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE

NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
- 0 - 0.75
- 0.75 - 1.25
- 1.25 - 2.00
- >3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

YEAR 2100 0.2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 9

SWM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
QUEENSBOURGH BREACH LOCATION
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

N

0 500 1,000 1,500 m

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

NORTH ARM BREACH 1894 FLOOD MAX. HAZARD (vel. x depth)

FIGURE 10

SWM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

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DIKE
QUEENSBOURGH BREACH LOCATION
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

SCALE - 1:32,000
0 500 1,000 1,500 m
N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE
NORTH ARM BREACH YEAR 2050 0.2% AEP FLOOD MAX. HAZARD (vel. x depth)

FIGURE 11

S:\WM_1\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

NEW WESTMINSTER

nhc
northwest hydraulic consultants

DIKE
QUEENSBOURGH BREACH LOCATION
NEW WESTMINSTER MUNICIPAL BOUNDARY

HAZARD RATING
0 - 0.75
0.75 - 1.25
1.25 - 2.00
>3.00

DATA SOURCES: BACKGROUND - ESRI WORLD IMAGERY; GIS LAYERS - GEOBC

SCALE - 1:32,000

0 500 1,000 1,500 m

N

Coordinate System: NAD 1983 UTM ZONE 10N
Units: METRES; Vertical Datum: CGVD2013

Job: 3006287 | Date: 15-JUN-2021

FLOOD MANAGEMENT STRATEGY UPDATE

ANNACIS CH. BREACH 1894 FLOOD MAX. HAZARD (vel. x depth)

FIGURE 12

SWM. \\mainfile-van\Projects\Active\3006287 New West Flood Strategy\95 GIS\3006287_SWM_NewWestFloodMap.aprx

APPENDIX A4

VELOCITY DIAGRAMS

Figure 1 Present Day 1% AEP Flood – Max. Velocity
Figure 2 Year 2100 0.2% AEP Flood – Max. Velocity
Figure 3 North Arm Breach 1894 Flood – Max. Velocity
Figure 4 North Arm Breach Year 2050 0.2% AEP Flood – Max. Velocity
Figure 5 Annacis Channel Breach 1894 Flood – Max. Velocity

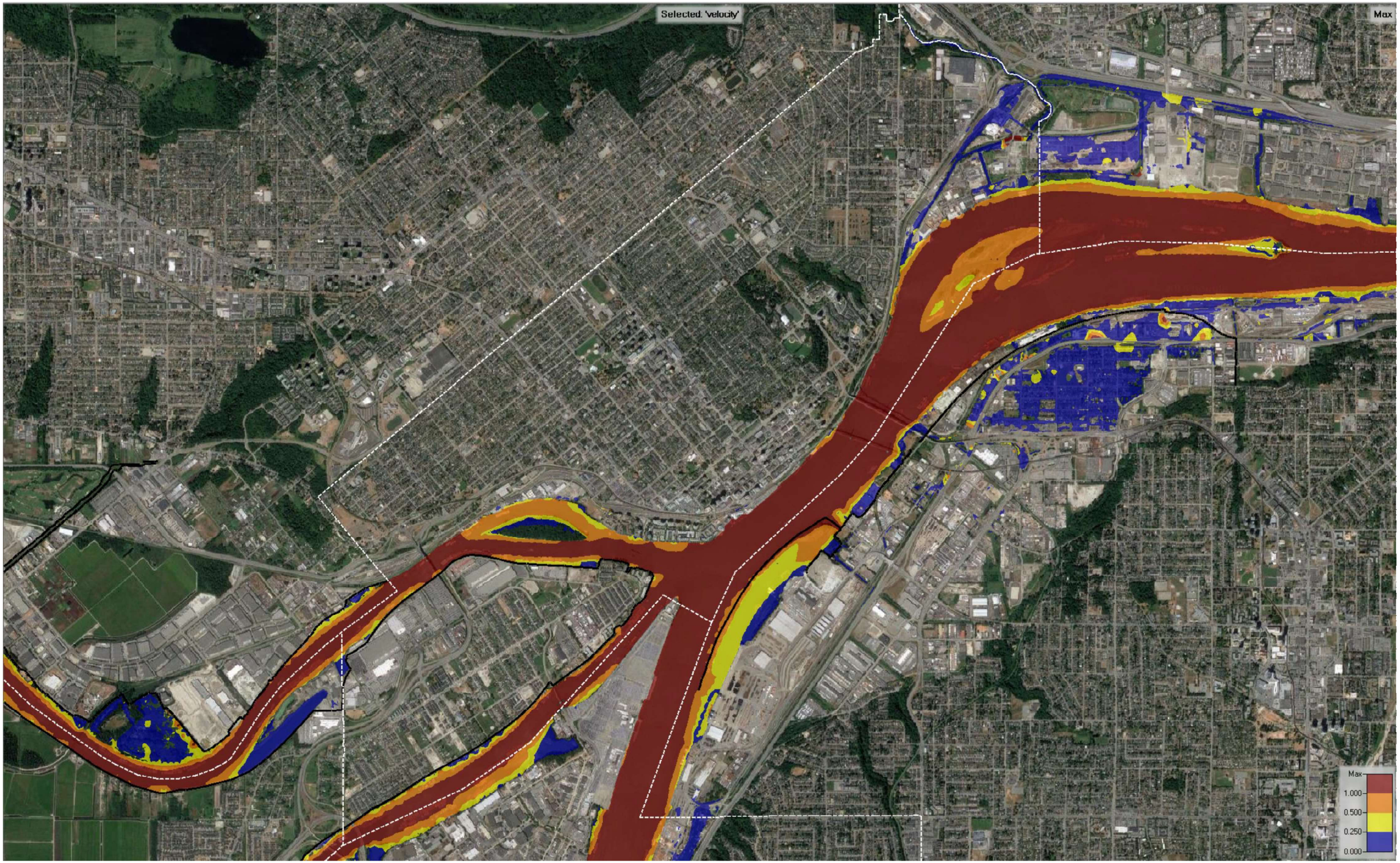

Figure 1 **Present Day 1% AEP Flood – Max. Velocity (m/s)**

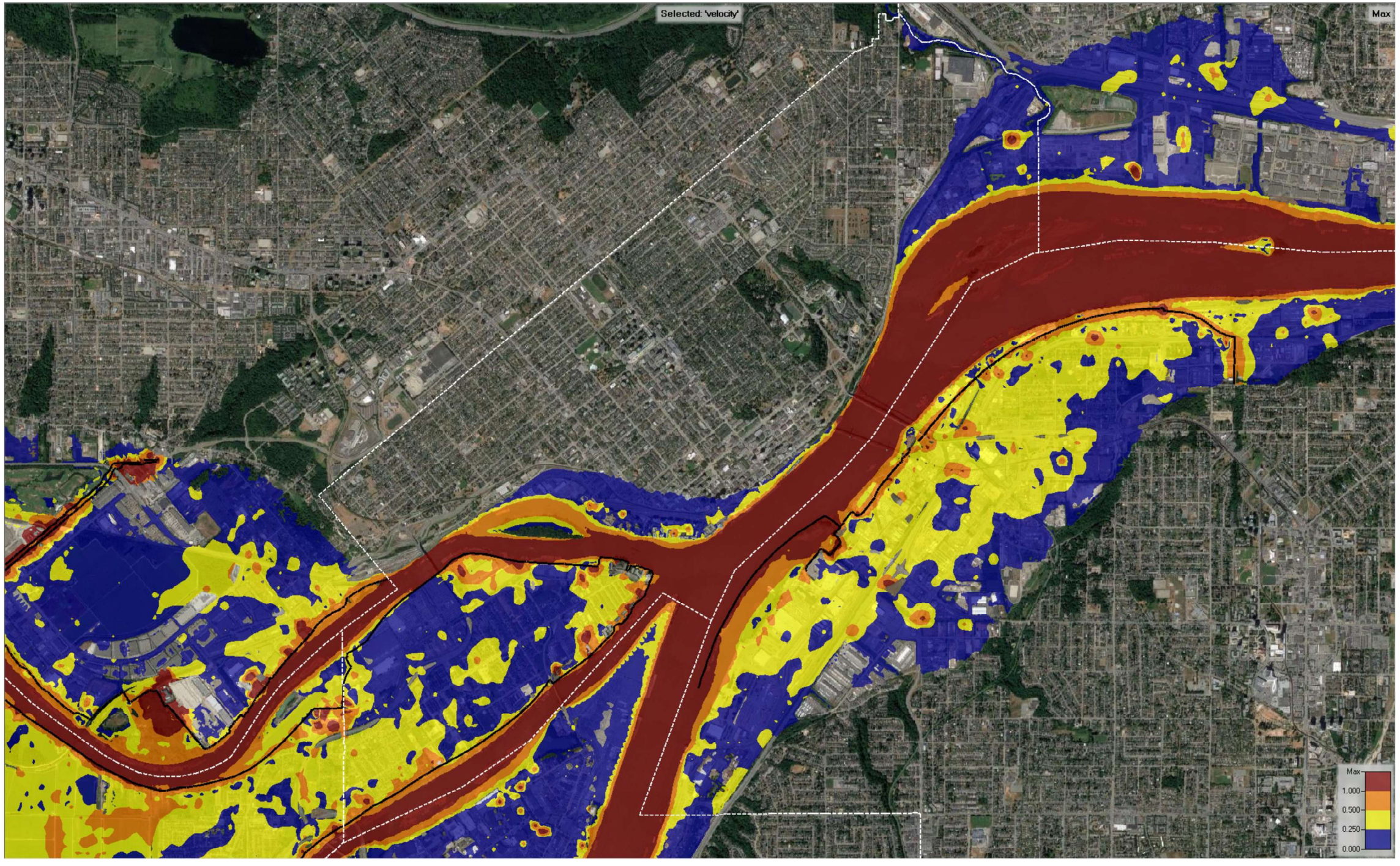

Figure 2 **Year 2100 0.2% AEP – Max. Velocity (m/s)**

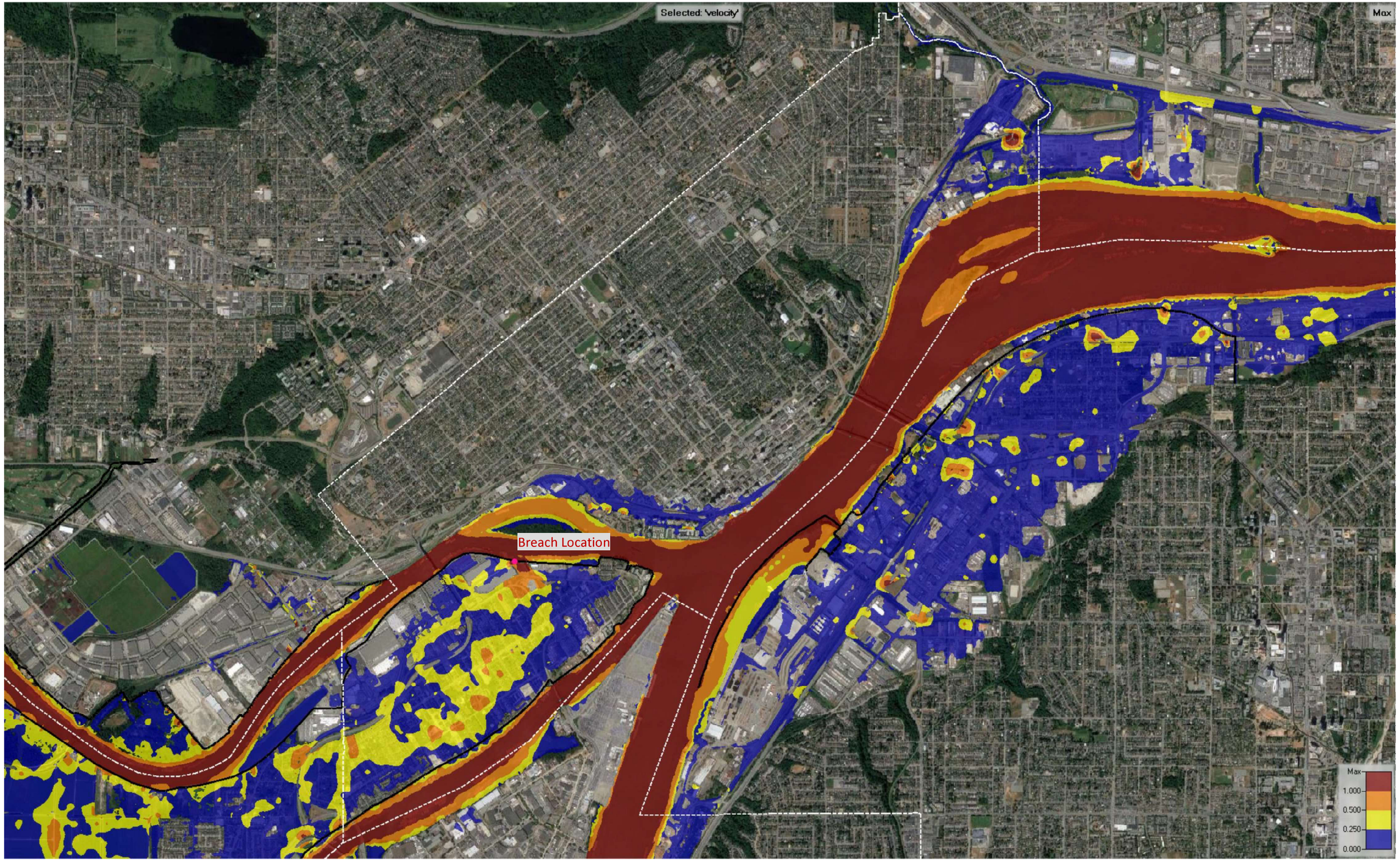

Figure 3 North Arm Breach 1894 Flood – Max. Velocity (m/s)

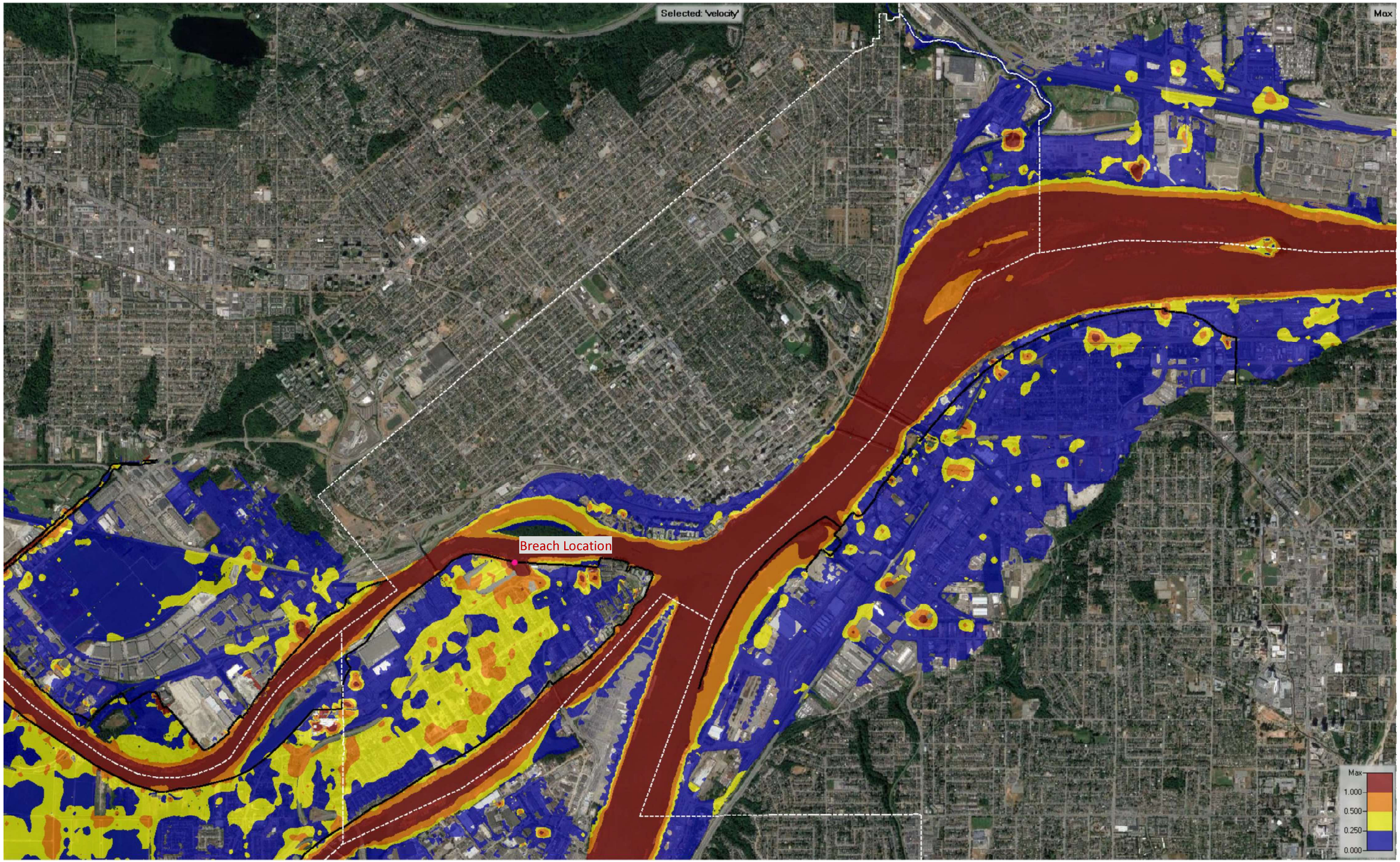

Figure 4 **North Arm Breach Year 2050 0.2% AEP – Max. Velocity (m/s)**

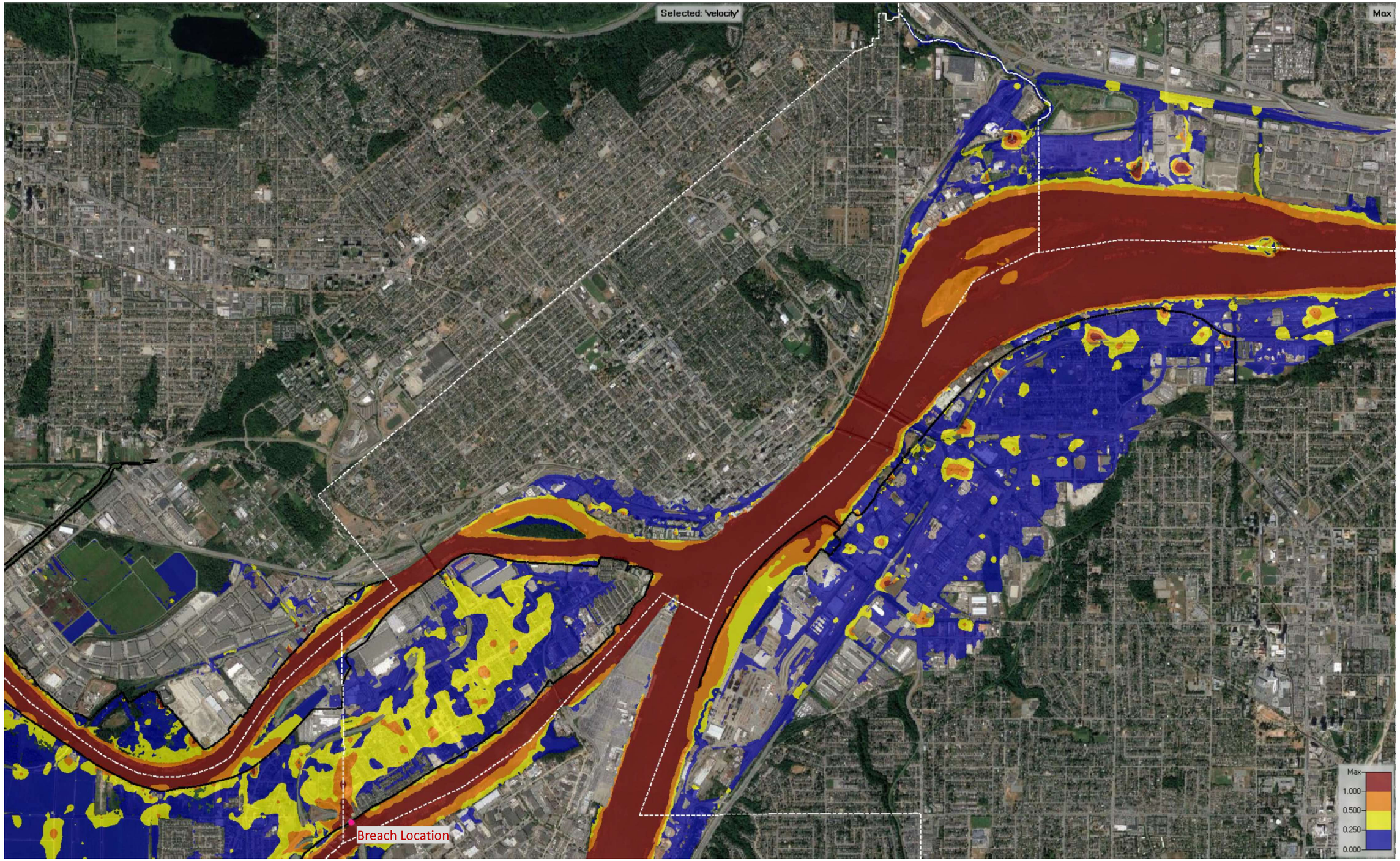

Figure 5 **Annacis Channel Breach 1894 Flood – Max. Velocity (m/s)**