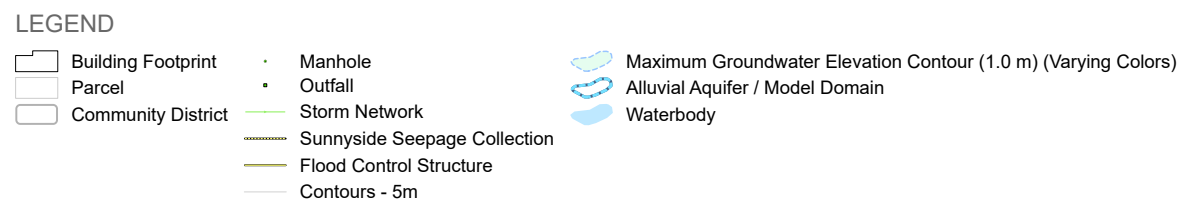


Groundwater Elevation Simulation (Calibrated Model)

Annual High River Flow

- | | | | |
|-----|----------------------------|-----|------------------------|
| 1. | Valley Ridge | 11. | Lower Elbow |
| 2. | Bowness | 12. | Inglewood – Bonnybrook |
| 3. | Montgomery | 13. | Bonnybrook |
| 4. | Point McKay | 14. | Deerfoot Meadows |
| 5. | Hillhurst / West Hillhurst | 15. | Riverbend/Quarry Park |
| 6. | Sunnyside | 16. | Douglasdale |
| 7. | East Village / Bridgeland | 17. | Fish Creek |
| 8. | Inglewood | 18. | South Stoney Trail |
| 9. | Downtown | 19. | Pine Creek/Cranston |
| 10. | Beltline | | |



DATA SOURCES

- Groundwater and bedrock data compiled from various sources and reports.
- Elevation data from the City wide 2022 LIDAR data and 2020 bathymetry data.
- Property assessment, building footprint, storm network, hydrology, flood control structures and other base data were sourced from the City of Calgary geospatial data.
- Ortho Imagery from the City of Calgary (2024)

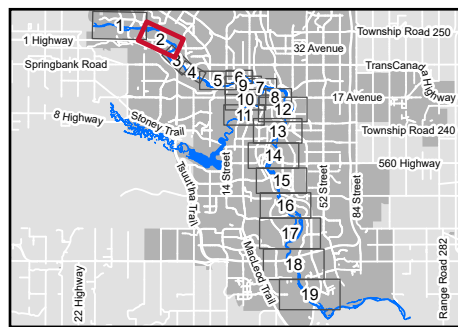
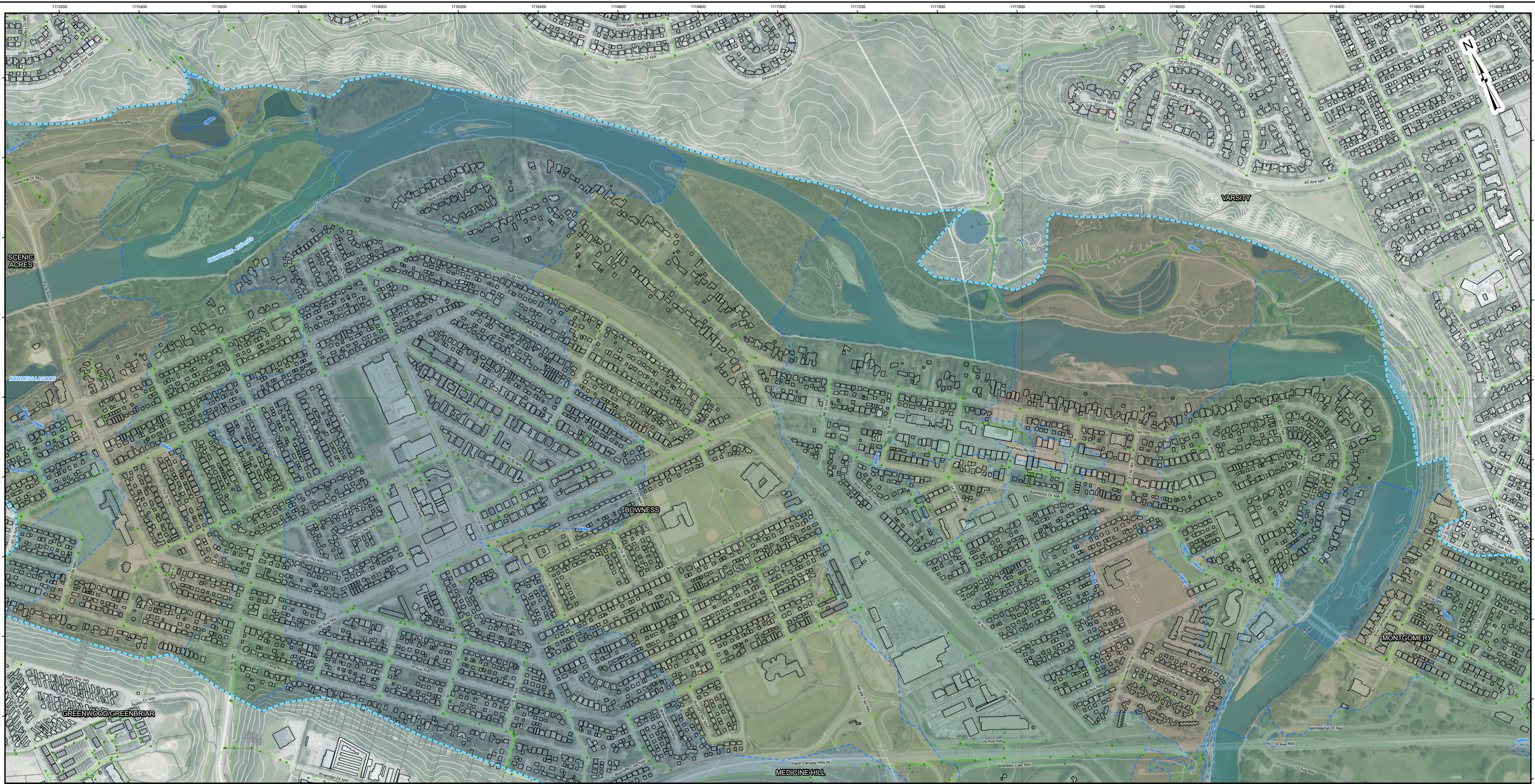
PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
 NAD 1983 CSRS 3TM 114

0 80 160
 Meters

SCALE 1:13,500 DATE 8/14/2026 AUTHOR TdaSilva





LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors)

Alluvial Aquifer / Model Domain

Waterbody

NOTES

1. Modelled flood conditions assume the flood conditions are modeled based on a flow rate of 200 m³/s in the Bow River and 20 m³/s in the Elbow River. With a combined flow rate of 220 m³/s.

2. Groundwater depth is compared between the modelled water elevations and the LIDAR data elevation.

DATA SOURCES

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- Elevation data from the City wide 2022 LIDAR data and 2020 bathymetry data.

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- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1

GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)

ANNUAL HIGH RIVER FLOW

2 - BOWNESS

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

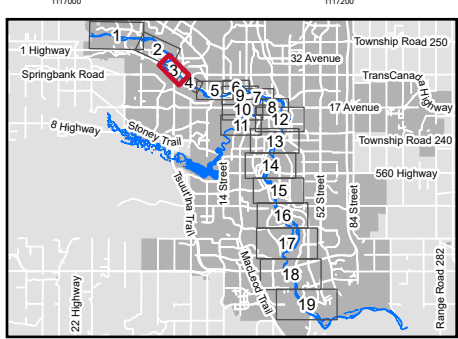
NAD 1983 CSRS 3TM 114

0 60 120 Meters

SCALE 1:10,000

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

-  Building Footprint
  Manhole
  Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors)
-  Parcel
  Outfall
  Alluvial Aquifer / Model Domain
-  Community District
  Storm Network
  Waterbody
-  Sunnyside Seepage Collection
-  Flood Control Structure
-  Contours - 5m

NOTES

- NOTES**
1. Modelled flood conditions assume the flood conditions are modeled based on a flow rate of 200 m³/s in the Bow River and 20 m³/s in the Elbow River. With a combined flow rate of 220 m³/s.
 2. Groundwater depth is compared between the modelled water elevations and the LiDAR data elevation.

DATA SOURCES

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 - Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
3 - MONTGOMERY

PROJECT

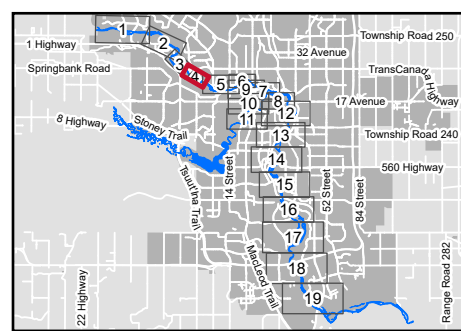
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

40 80 Meters

SCALE 1:7,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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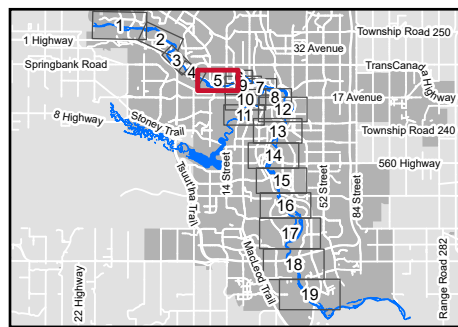
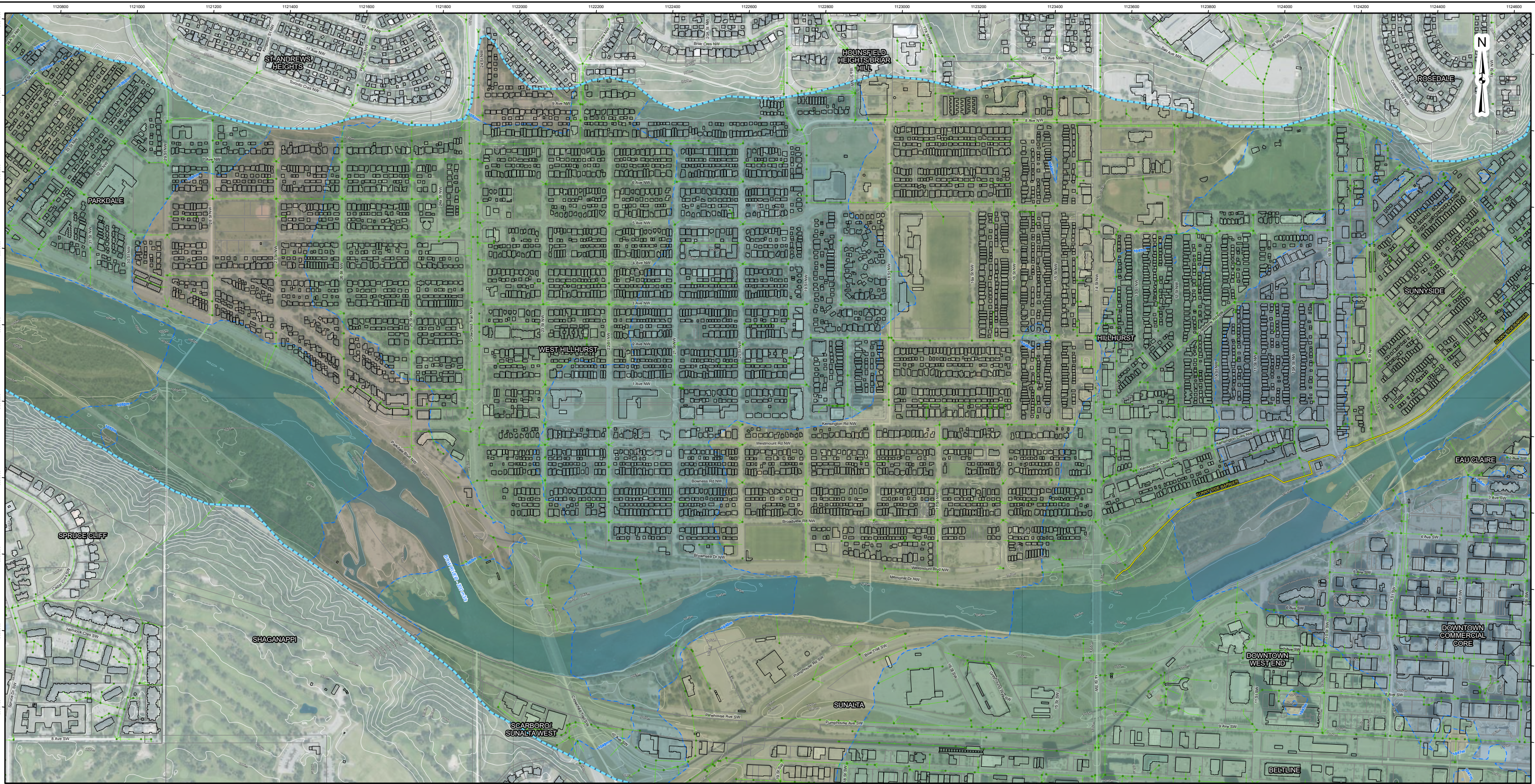
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
4 - POINT MCKAY

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:6,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

1. Modelled flood conditions assume the flood conditions are modeled based on a flow rate of 200 m³/s in the Bow River and 20 m³/s in the Elbow River. With a combined flow rate of 220 m³/s.
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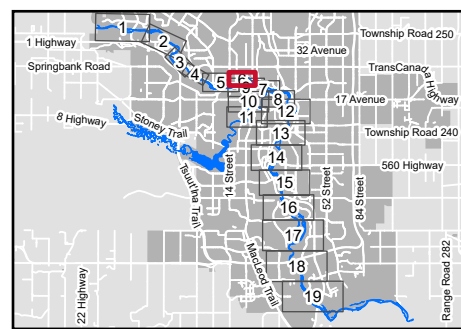
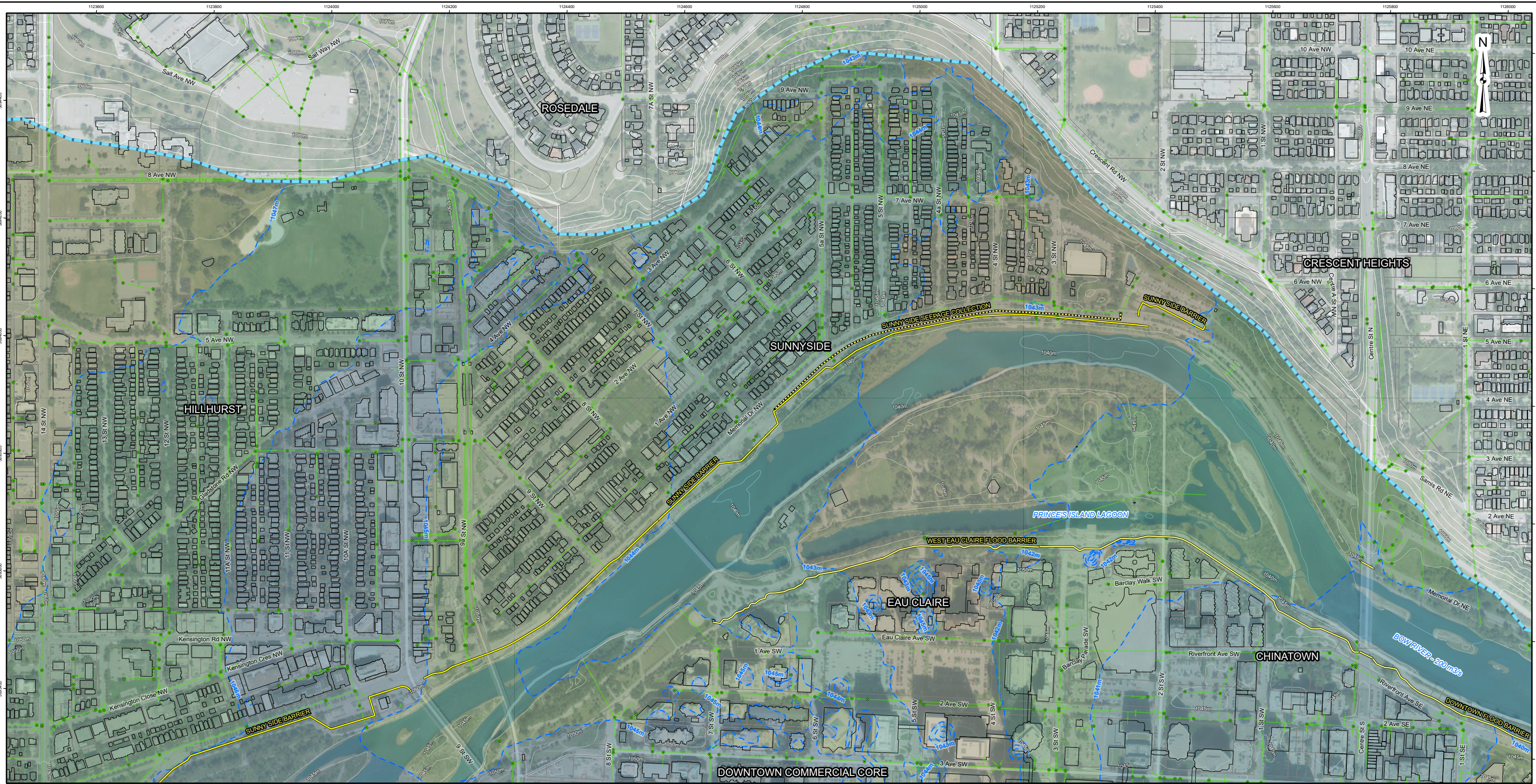
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
5 - HILLHURST / WEST HILLHURST

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:10,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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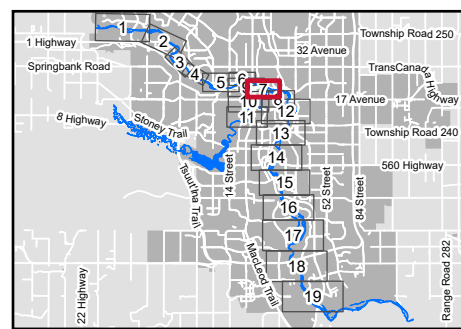
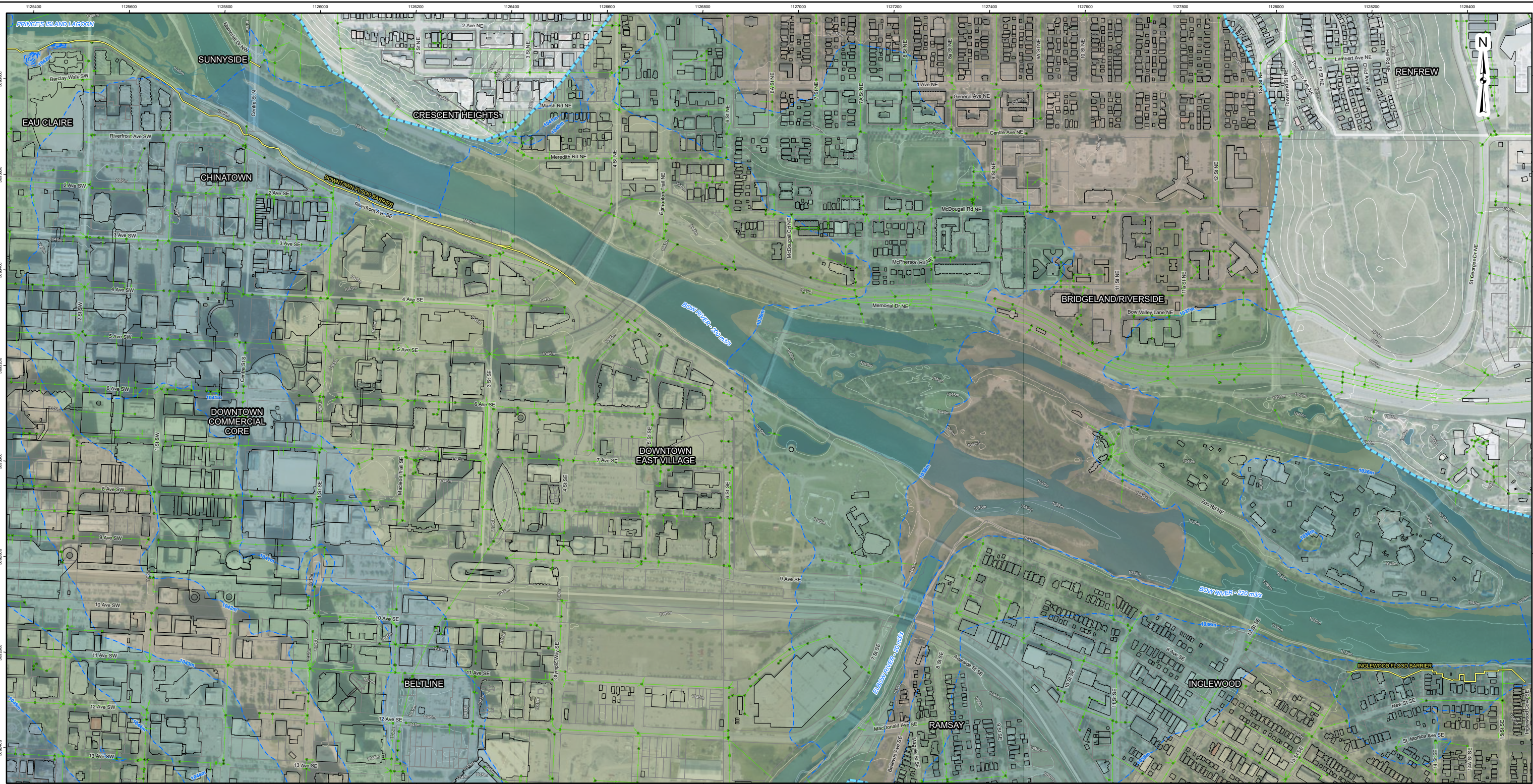
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
6 - SUNNYSIDE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:6,500 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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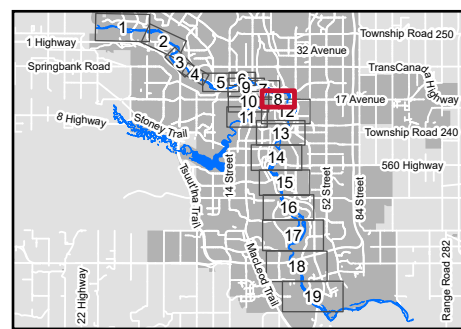
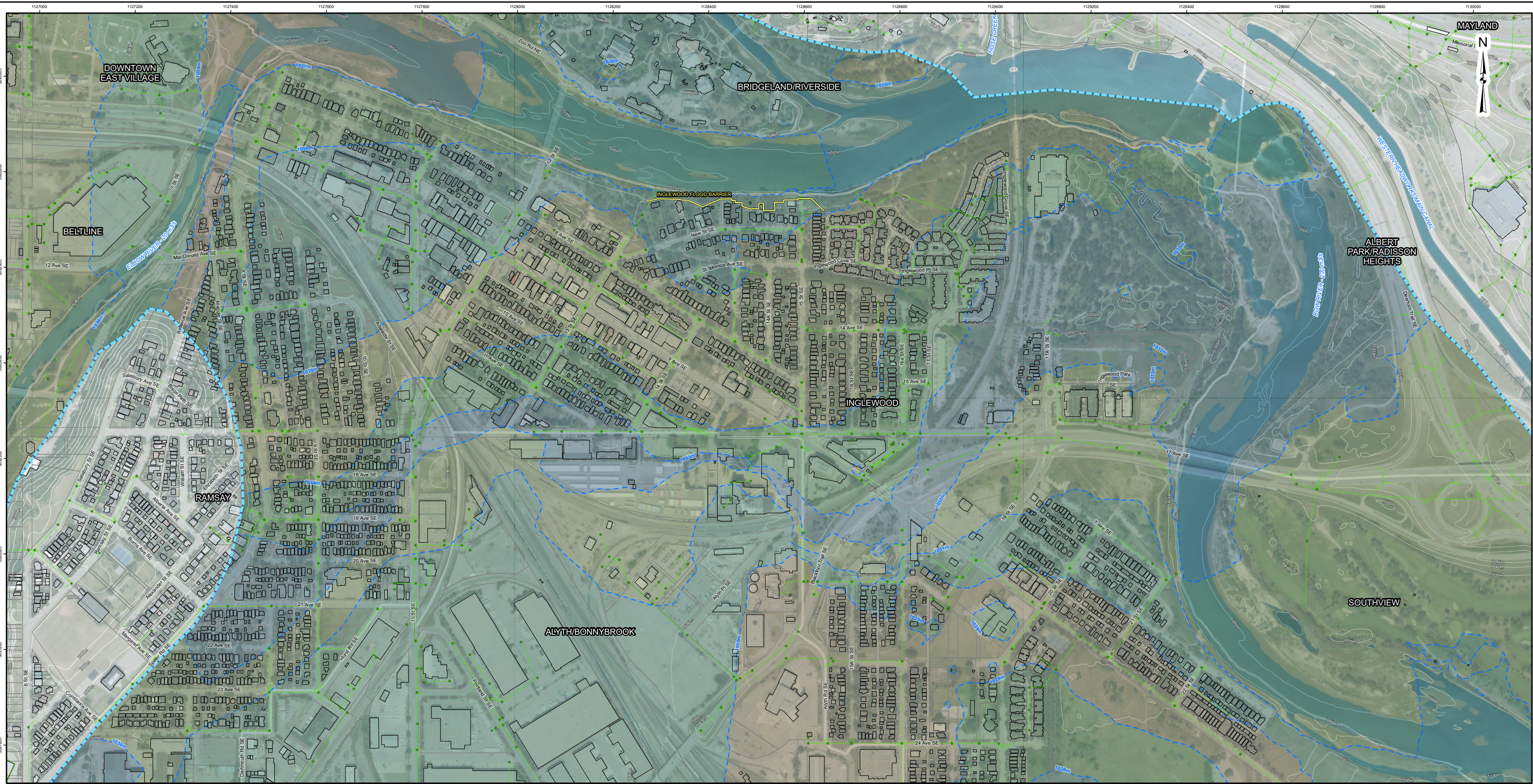
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
7 - EAST VILLAGE / BRIDGELAND

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:8,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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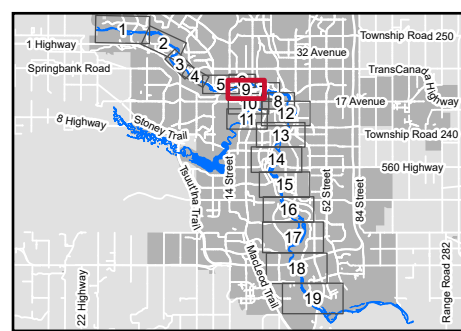
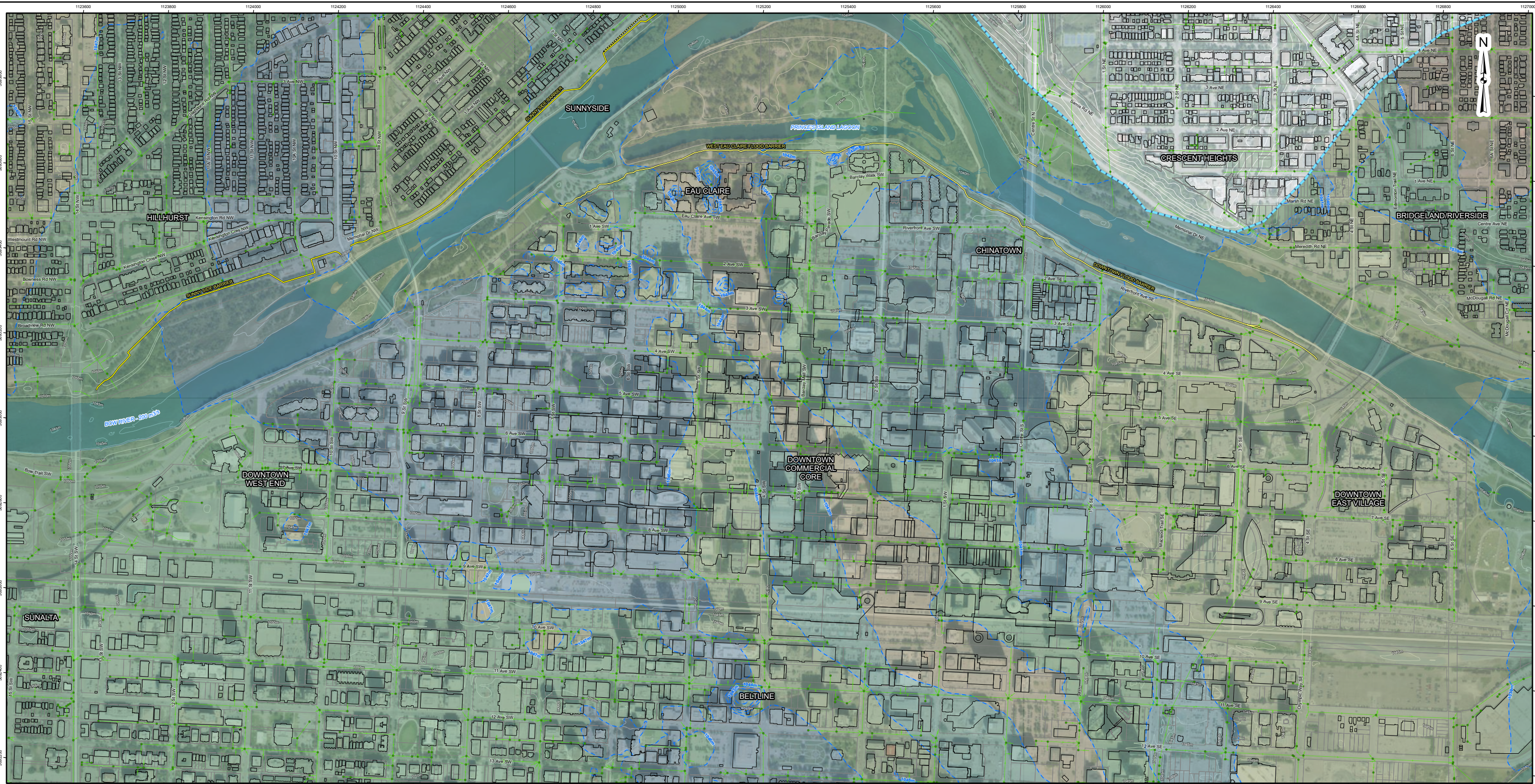
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
8 - INGLEWOOD

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:8,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
9 - DOWNTOWN

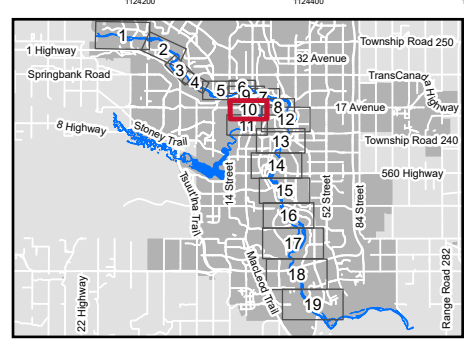
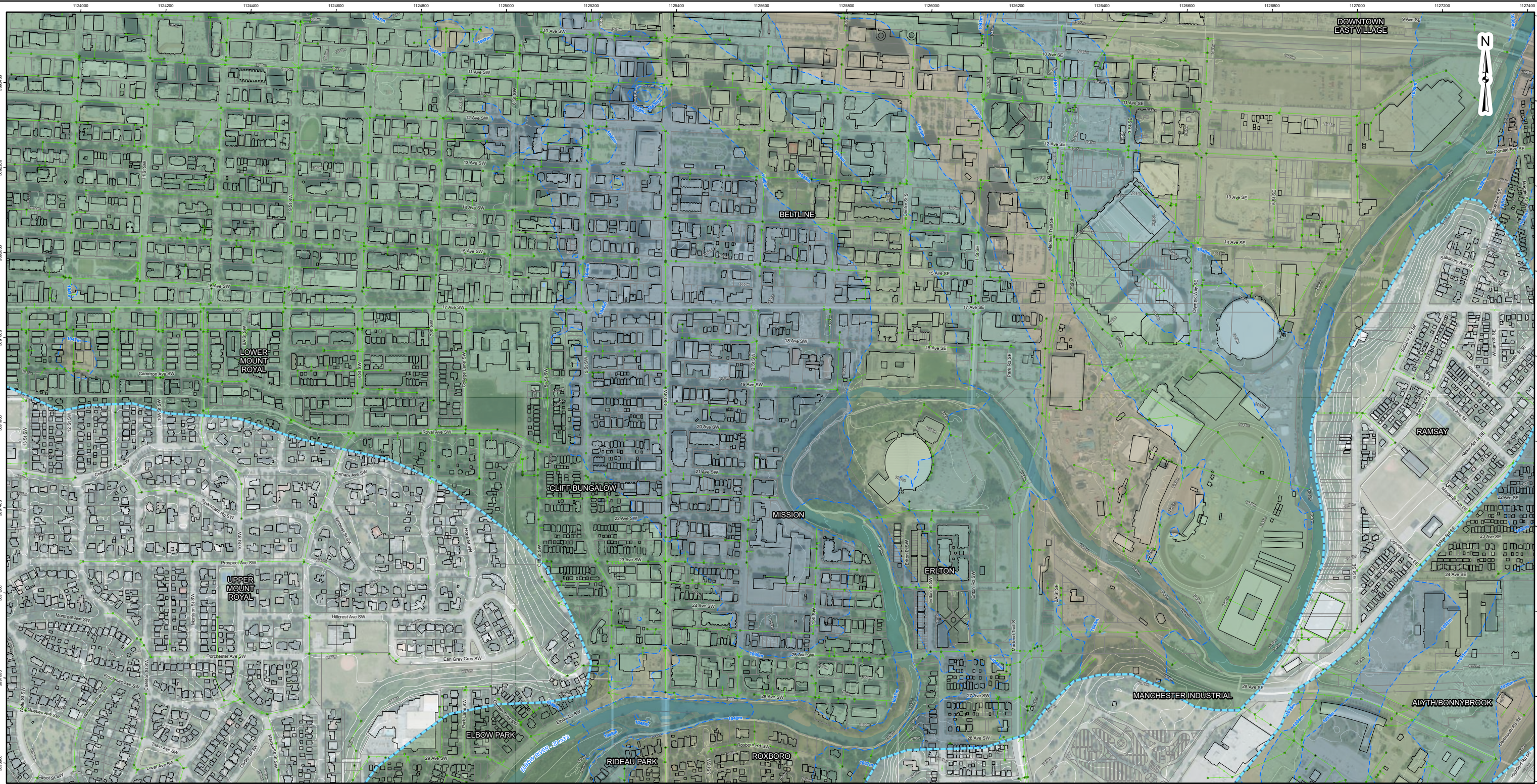
PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

0 50 100
Meters

SCALE 1:9,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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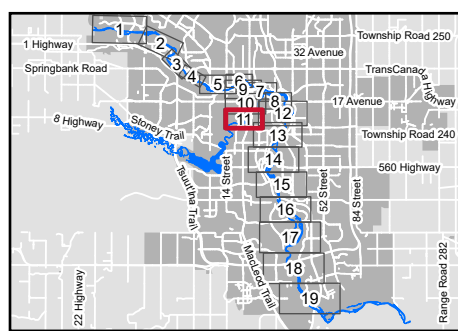
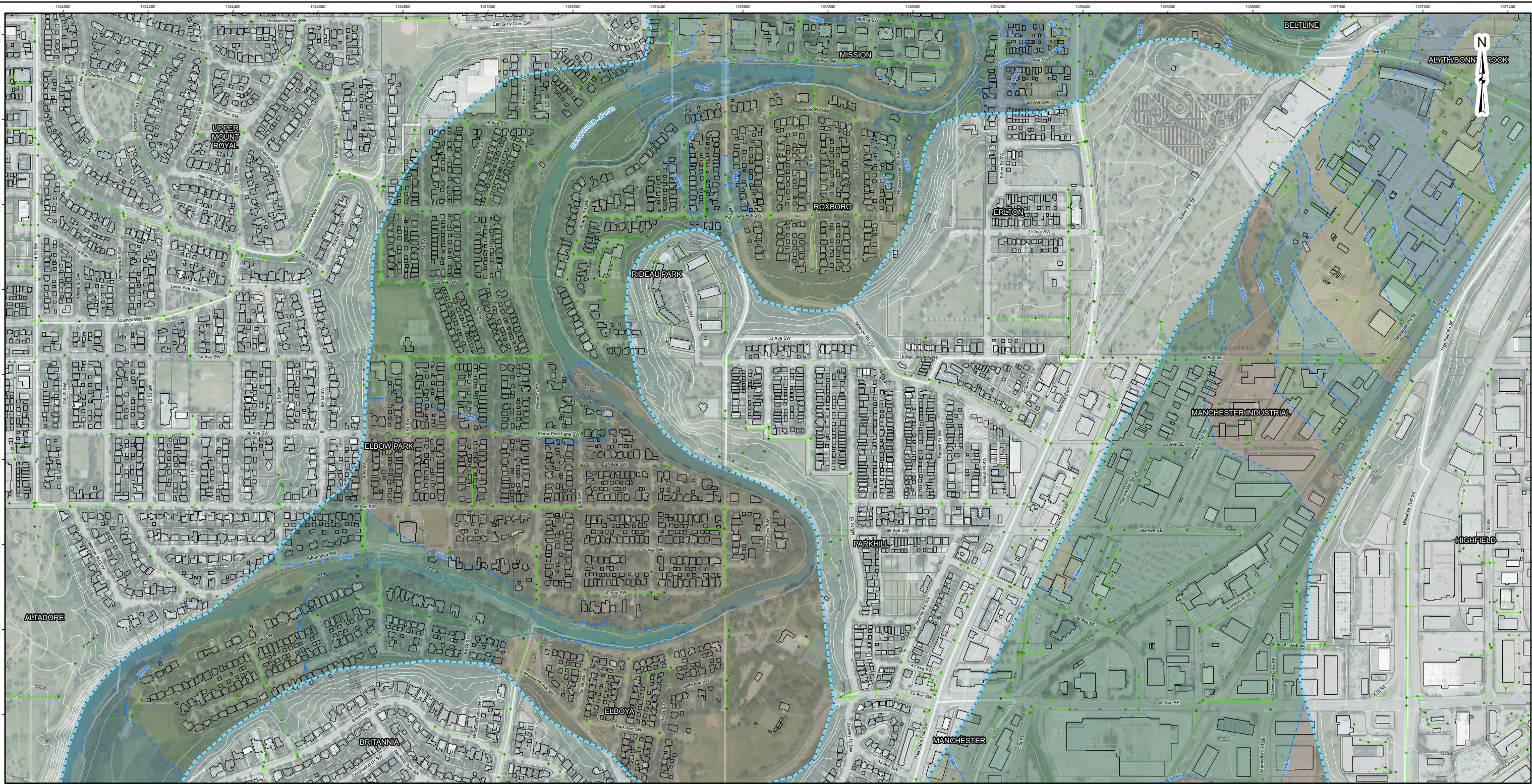
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
10 - BELTLINE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:9,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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DATA SOURCES

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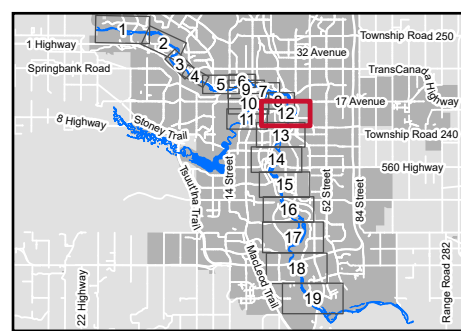
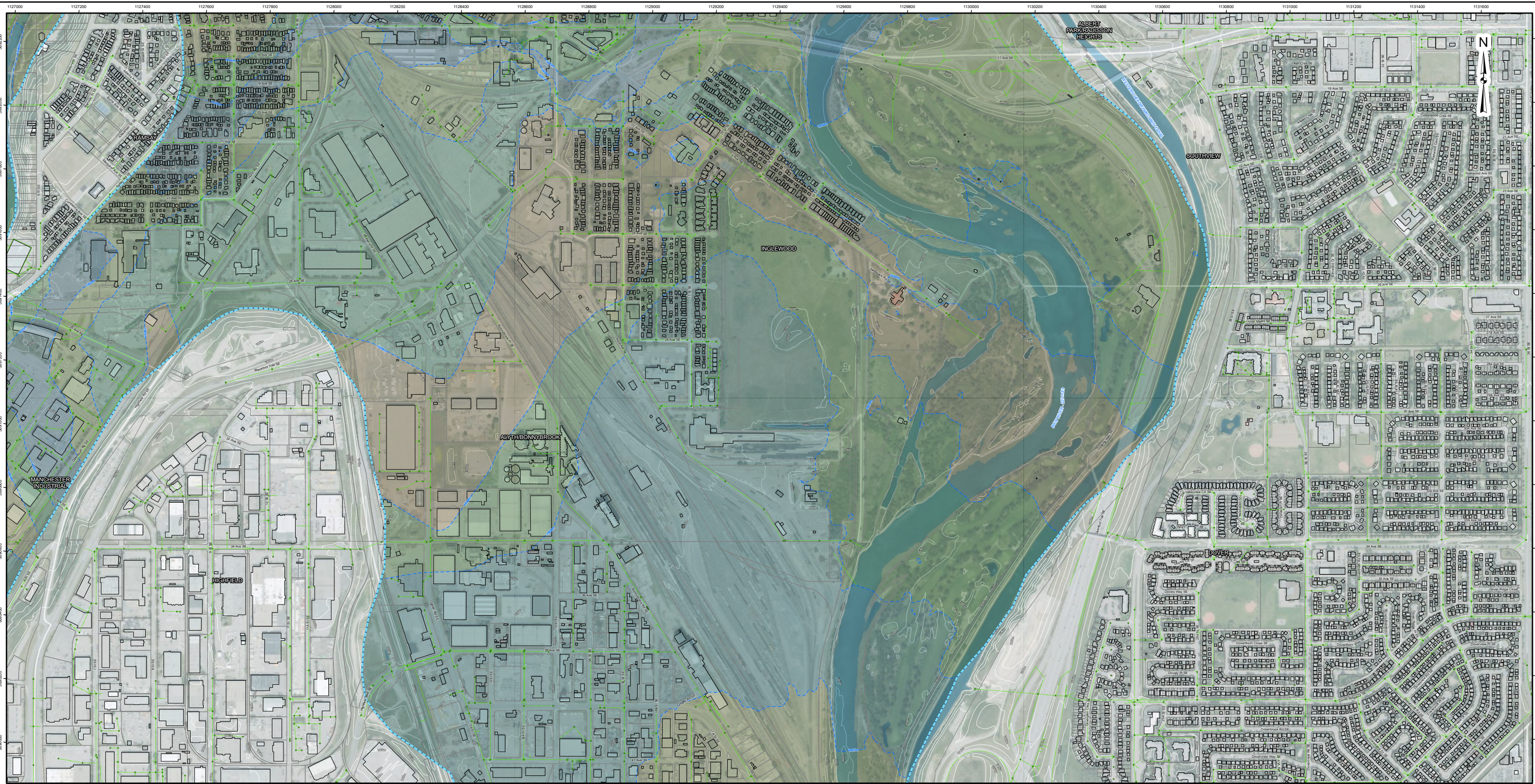
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
11 - LOWER ELBOW

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:9,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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FIGURE 2.1 GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL) ANNUAL HIGH RIVER FLOW 12 - INGLEWOOD - BONNYBROOK

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:12,000 DATE 8/14/2026 AUTHOR TDaSilva





- | | | | | | |
|---|--------------------|---|------------------------------|---|--|
|  | Building Footprint |  | Manhole |  | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
|  | Parcel |  | Outfall |  | Alluvial Aquifer / Model Domain |
|  | Community District |  | Storm Network |  | Waterbody |
| | |  | Sunnyside Seepage Collection | | |
| | |  | Flood Control Structure | | |
| | |  | Contours - 5m | | |

NOTES

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- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
13 - BONNYBROOK

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

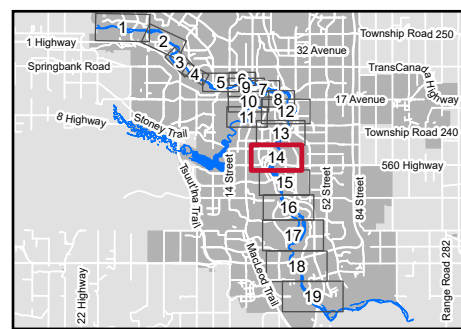
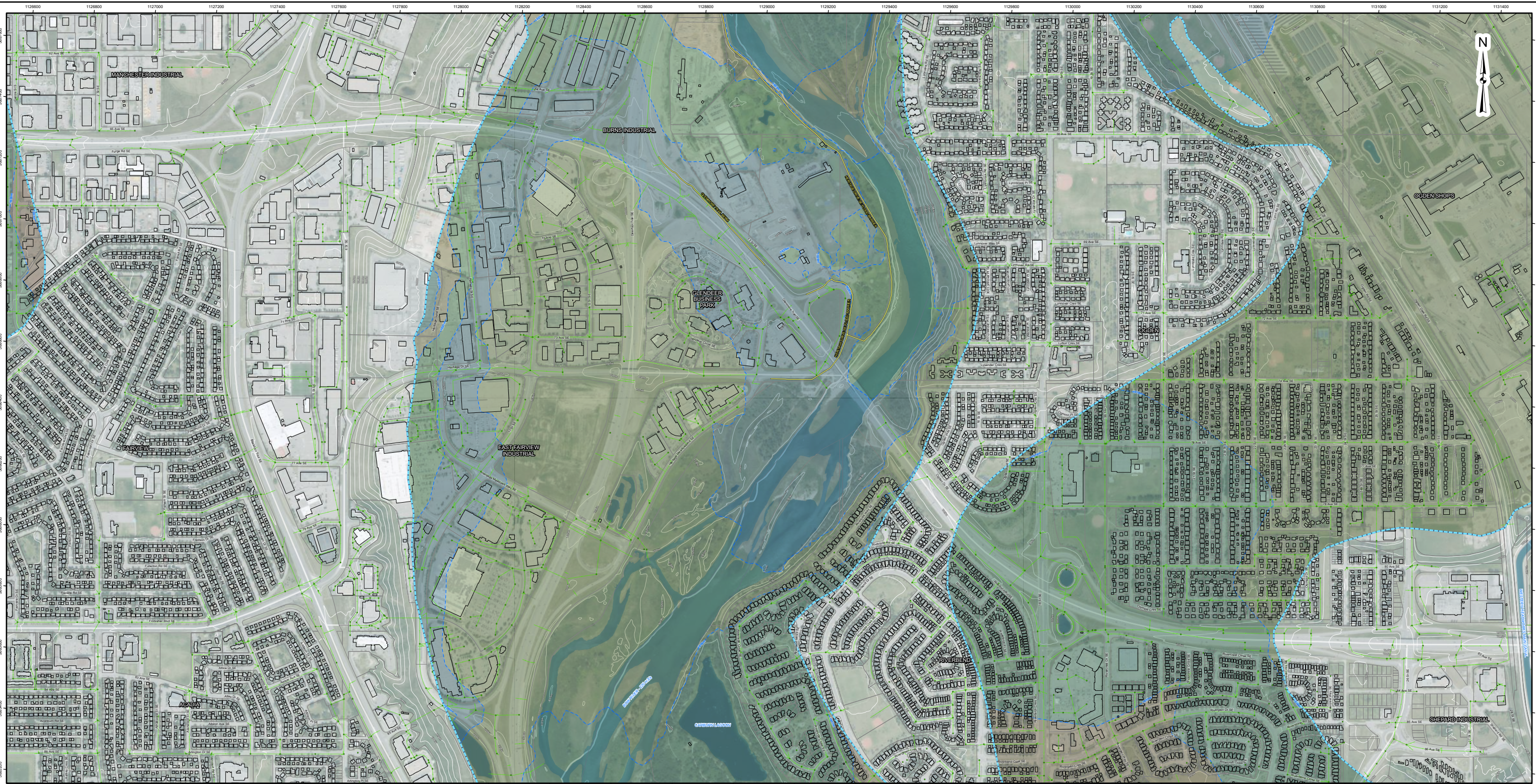
NAD 1983 CSRS 3TM 114

SCALE 1:12,000

DATE 8/14/2026

AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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FIGURE 2.1 GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL) ANNUAL HIGH RIVER FLOW 14 - DEERFOOT MEADOWS

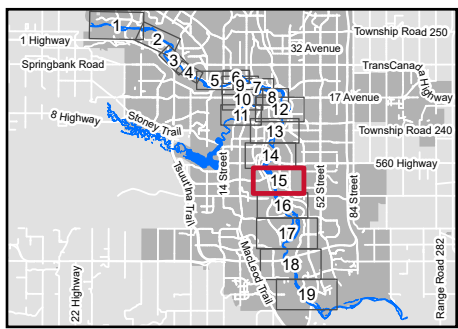
PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

0 75 150
Meters

SCALE 1:12,500 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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- Ortho Imagery from the City of Calgary (2024)

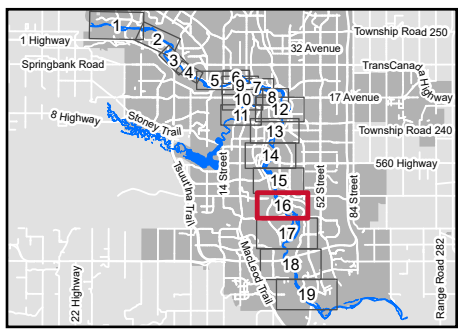
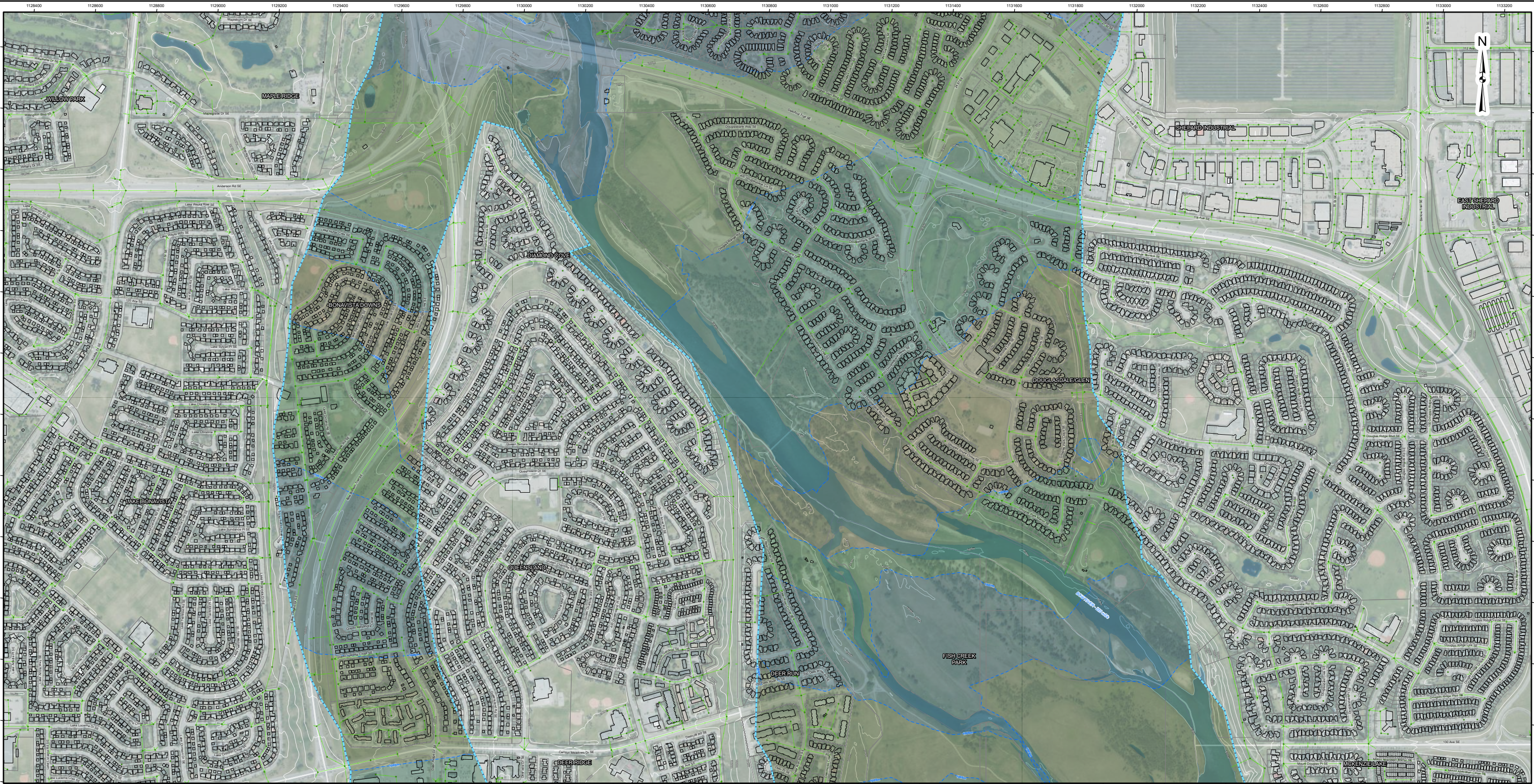
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
15 - RIVERBEND / QUARRY PARK

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:12,500 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors)

Alluvial Aquifer / Model Domain

Waterbody

NOTES

1. Modelled flood conditions assume the flood conditions are modeled based on a flow rate of 200 m³/s in the Bow River and 20 m³/s in the Elbow River. With a combined flow rate of 220 m³/s.

2. Groundwater depth is compared between the modelled water elevations and the LIDAR data elevation.

DATA SOURCES

- Groundwater and bedrock data compiled from various sources and reports.

- Elevation data from the City wide 2022 LIDAR data and 2020 bathymetry data.

- Property assessment, building footprint, storm network, hydrology, flood control structures and other base data were sourced from the City of Calgary geospatial data.

- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1

GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)

ANNUAL HIGH RIVER FLOW

16 - DOUGLASDALE

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

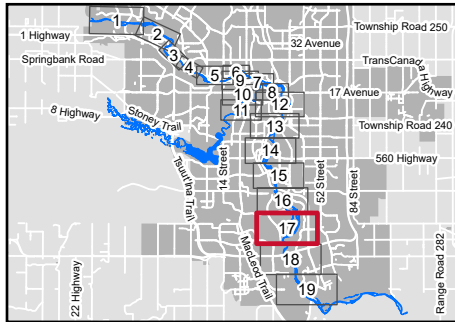
NAD 1983 CSRS 3TM 114

0 75 150 Meters

SCALE 1:12,500

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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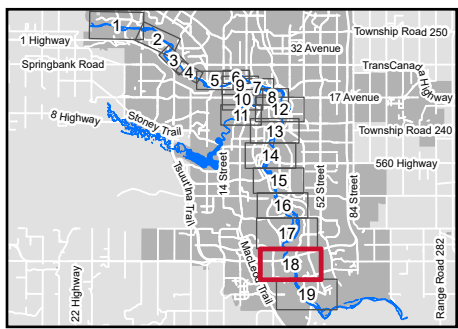
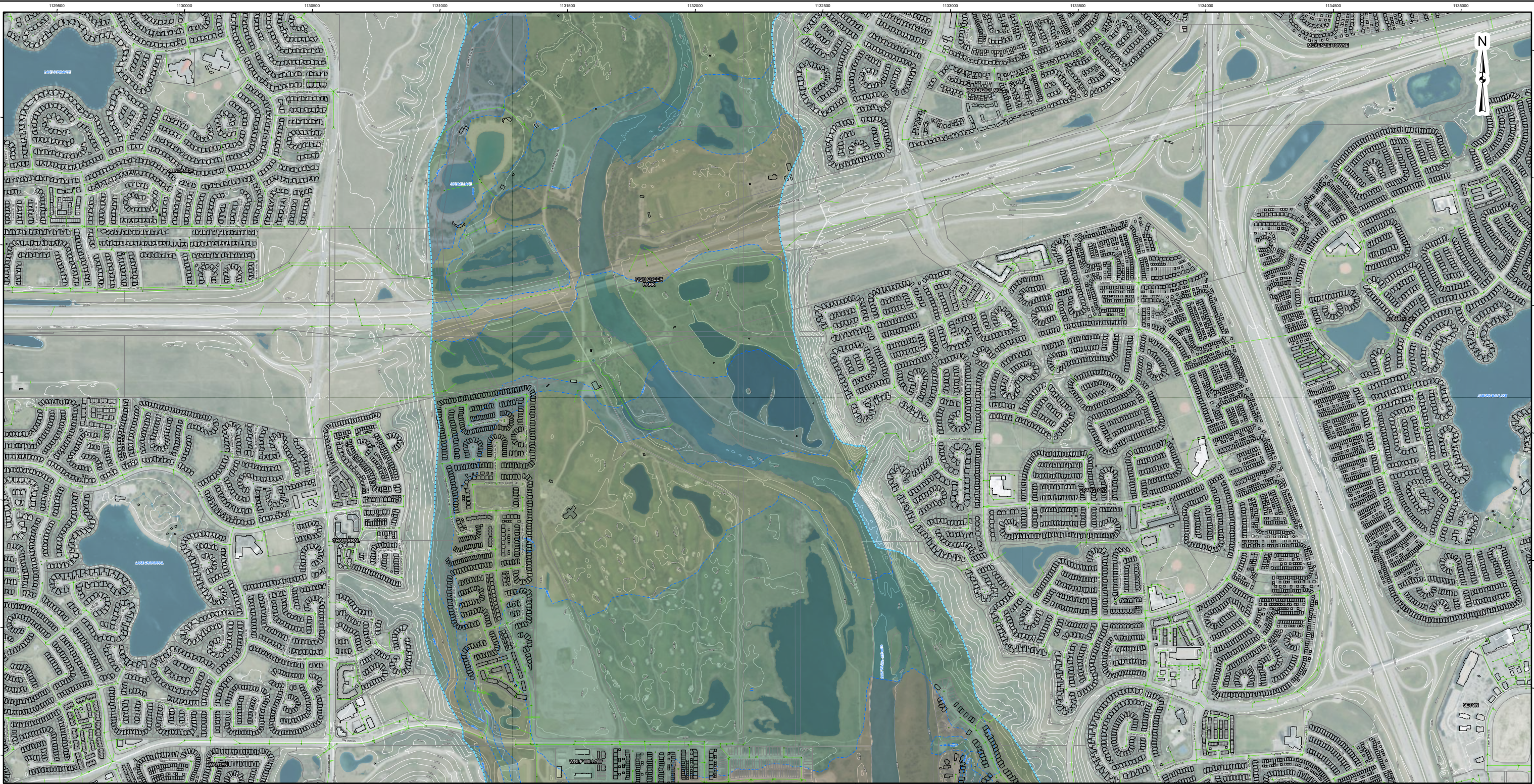
FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
17 - FISH CREEK

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:15,000 DATE 8/14/2026 AUTHOR TDaSilva





LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors)

Alluvial Aquifer / Model Domain

Waterbody

NOTES

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- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1

GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)

ANNUAL HIGH RIVER FLOW

18 - SOUTH STONEY TRAIL

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

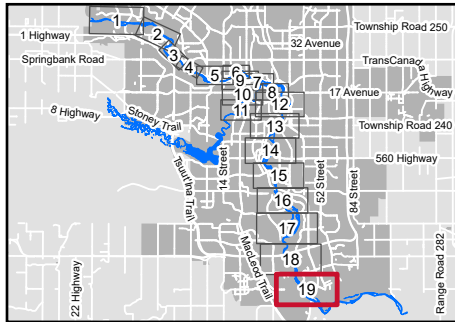
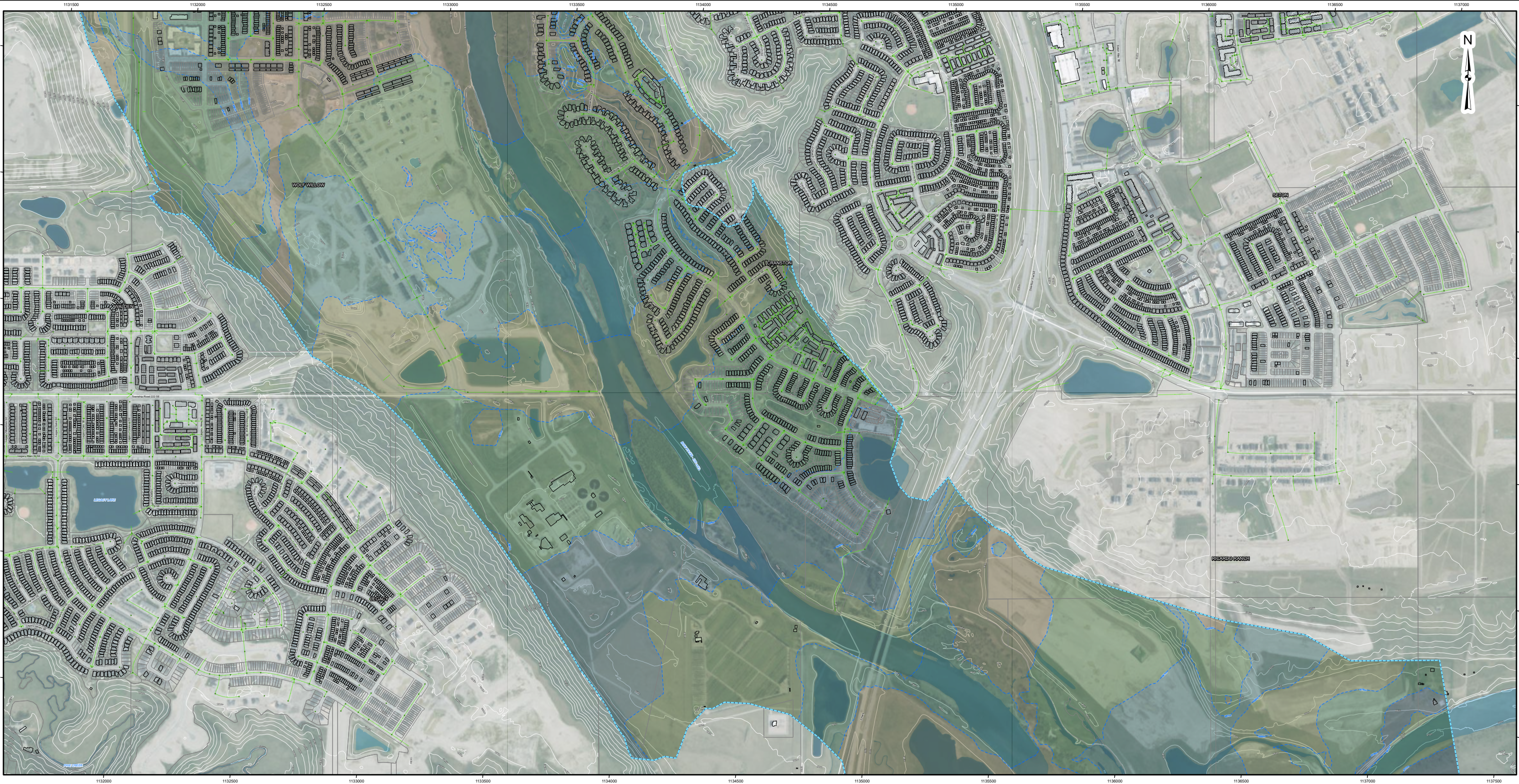
0 90 180

Meters

SCALE 1:15,000

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Parcel | | Outfall | | Alluvial Aquifer / Model Domain |
| | Community District | | Storm Network | | Waterbody |
| | | | Sunnyside Seepage Collection | | |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

1. Modelled flood conditions assume the flood conditions are modeled based on a flow rate of 200 m³/s in the Bow River and 20 m³/s in the Elbow River. With a combined flow rate of 220 m³/s.
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DATA SOURCES

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- Property assessment, building footprint, storm network, hydrology, flood control structures and other base data were sourced from the City of Calgary geospatial data.
- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.1
GROUNDWATER ELEVATION SIMULATION (CALIBRATED MODEL)
ANNUAL HIGH RIVER FLOW
19 - PINE CREEK / CRANSTON

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

0 90 180
Meters

SCALE 1:15,000 DATE 8/14/2026 AUTHOR TDaSilva

