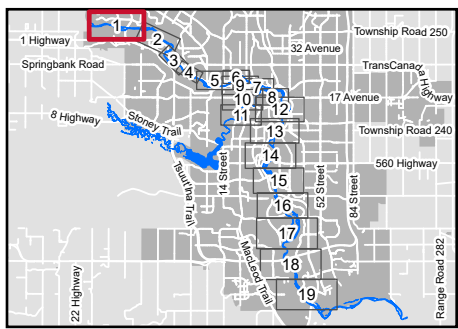


Groundwater Elevation Representation Elevation (P90)

Annual 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 | | |



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | 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.

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

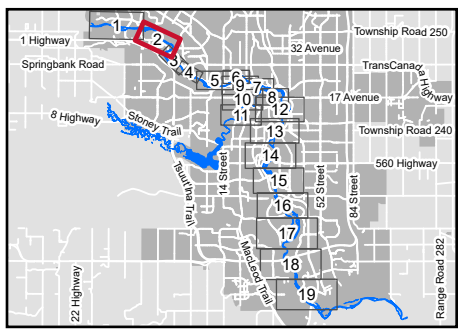
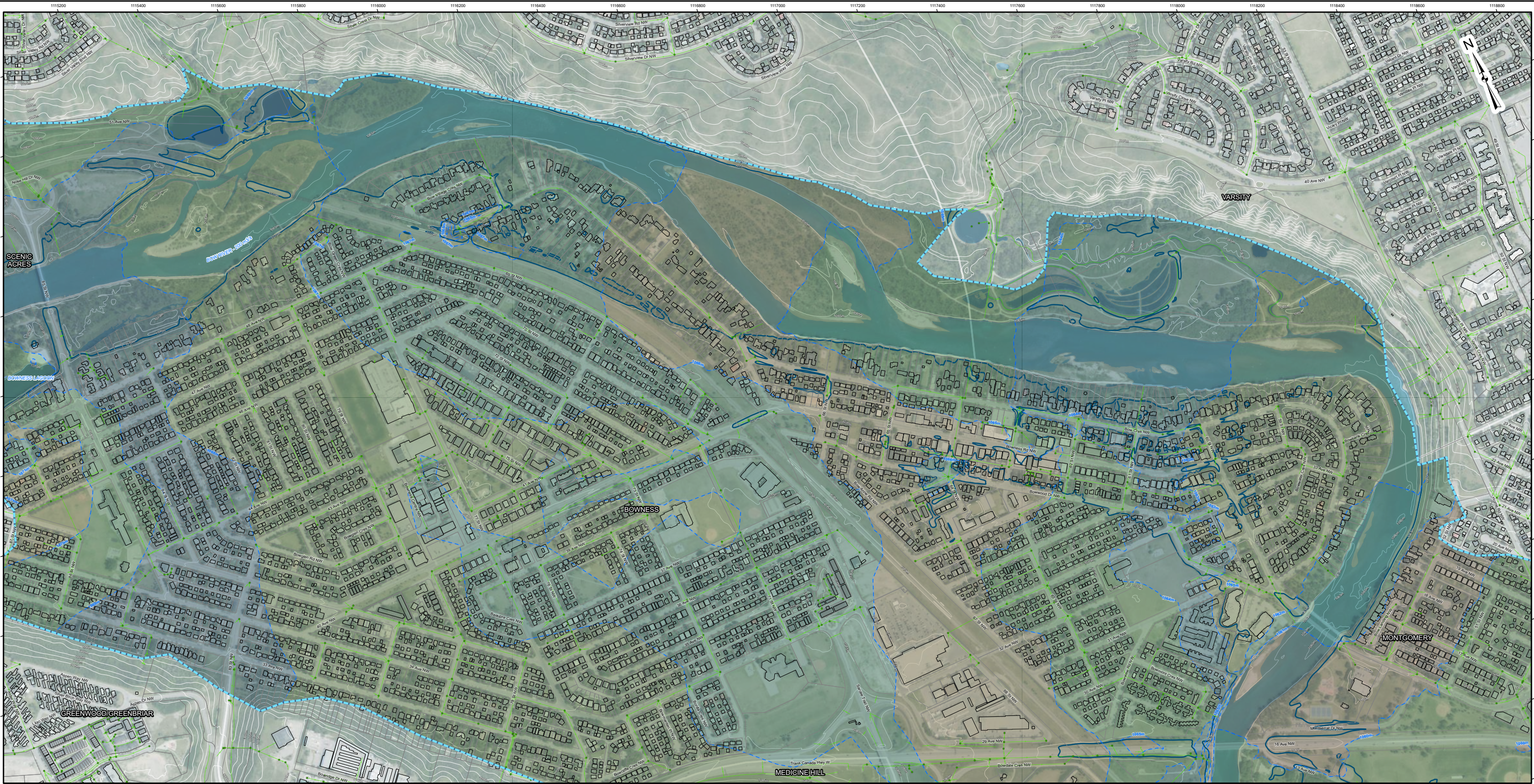
DATA SOURCES

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- Ortho Imagery from the City of Calgary (2024)

FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
1 - VALLEY RIDGE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY
PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:13,500
DATE 8/14/2026
AUTHOR TDaSilva





LEGEND

Building Footprint

Parcel

Community DistrictManhole3m Maximum Groundwater Depth Threshold

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 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

2 - BOWNESS

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

0 60 120

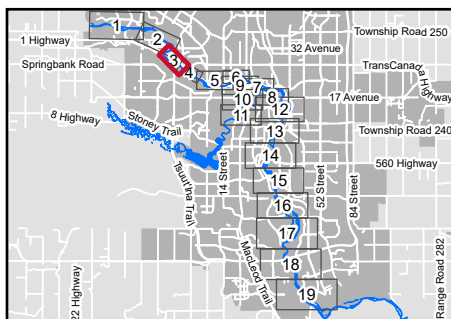
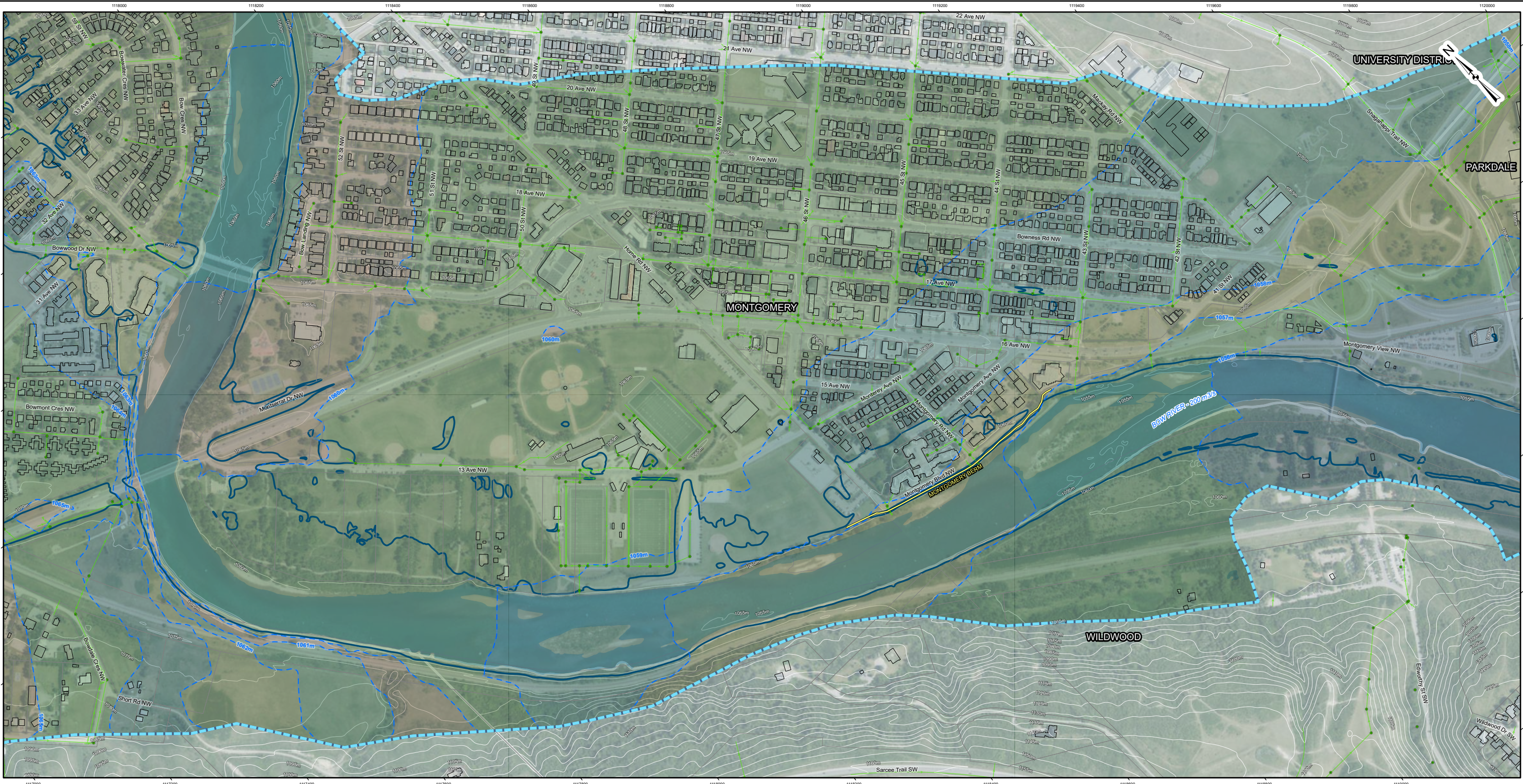
Meters

SCALE 1:10,000

DATE 8/14/2026

AUTHOR TDaSilva





LEGEND

-  Building Footprint
  Manhole
  3m Maximum Groundwater Depth Threshold
 Parcel
 Outfall
 Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors)
 Community District
 Storm Network
 Alluvial Aquifer / Model Domain
 Sunnyside Seepage Collection
 Waterbody
 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 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
3 - MONTGOMERY

PROJECT

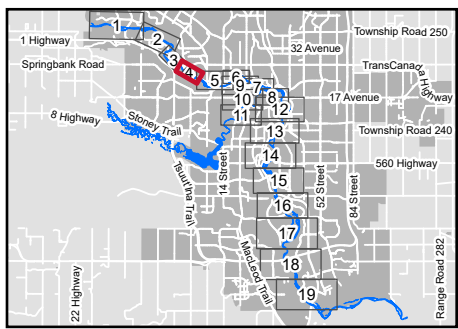
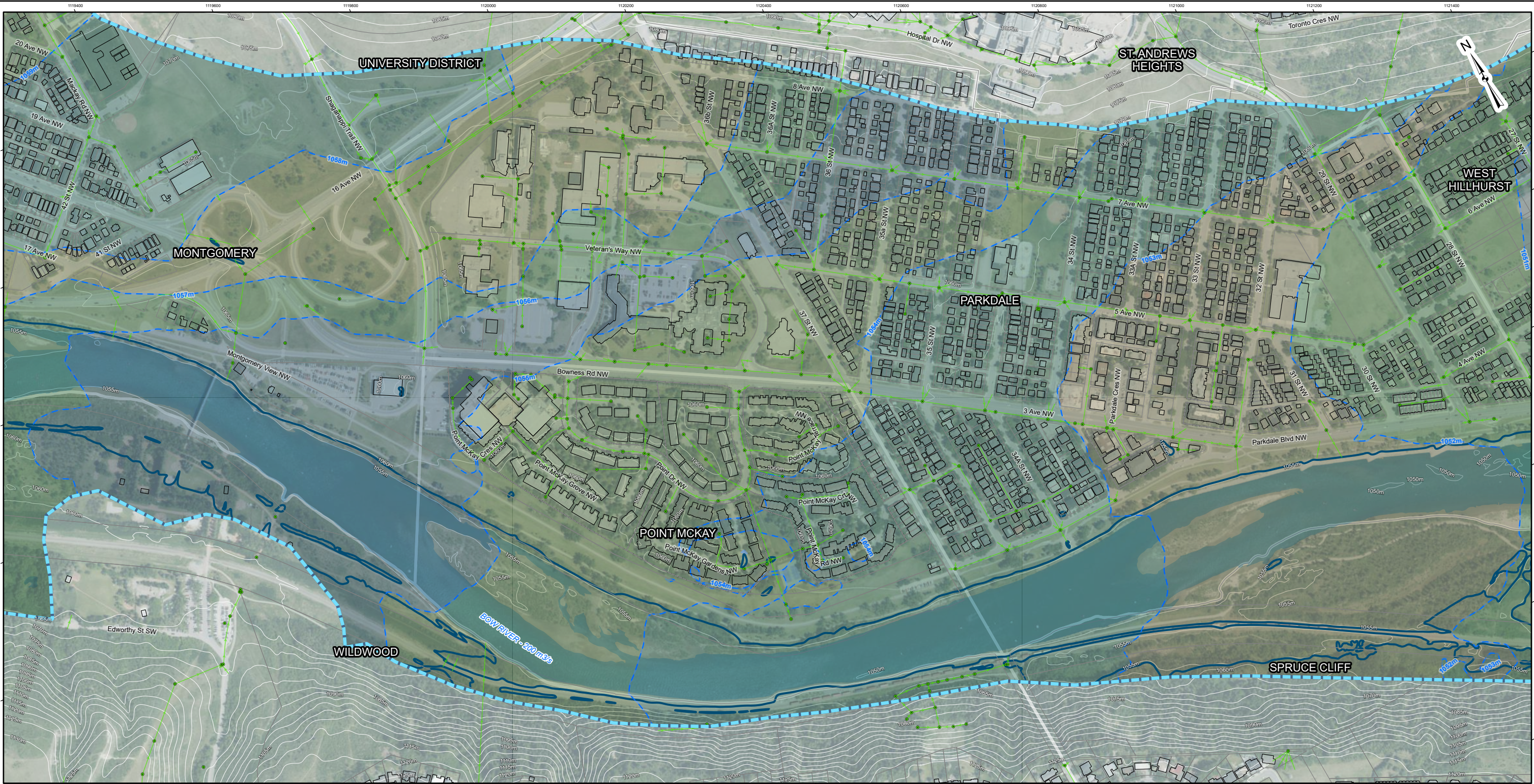
CANGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

0 40 80
Meters

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





LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

3m Maximum Groundwater Depth Threshold

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.

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FIGURE 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

4 - POINT MCKAY

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

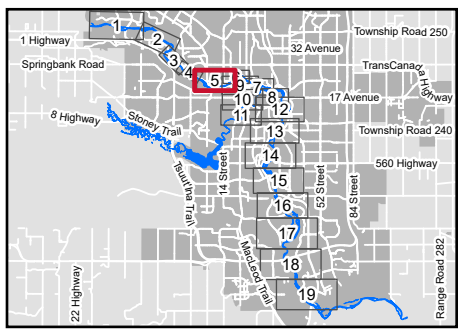
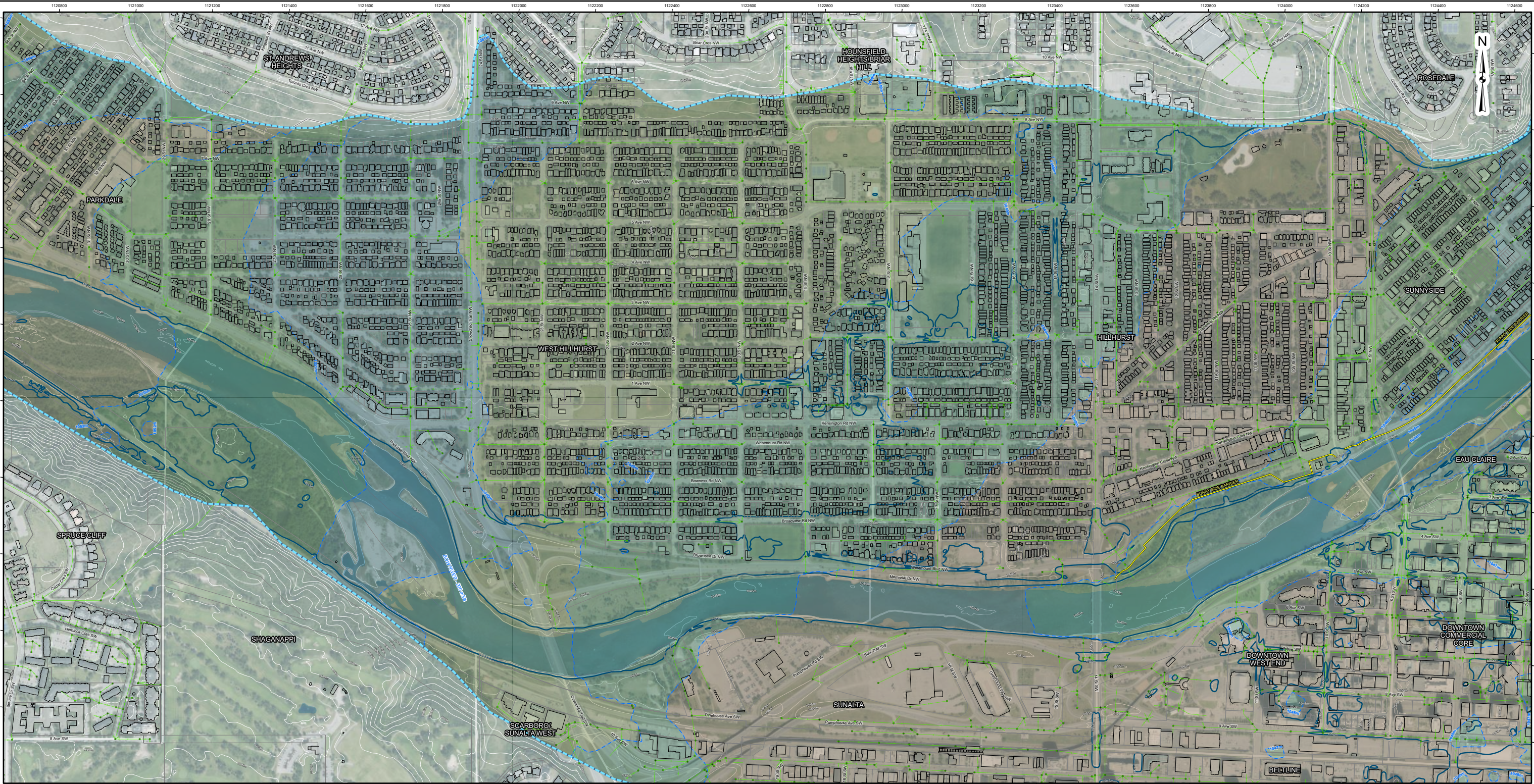
NAD 1983 CSRS 3TM 114

SCALE 1:6,000

DATE 8/14/2026

AUTHOR TDaSilva

0 30 60 Meters



LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

3m Maximum Groundwater Depth Threshold

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

Alluvial Aquifer / Model Domain

Waterbody

NOTES

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FIGURE 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

5 - HILLHURST / WEST HILLHURST

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

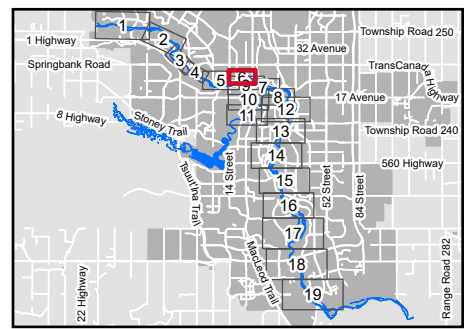
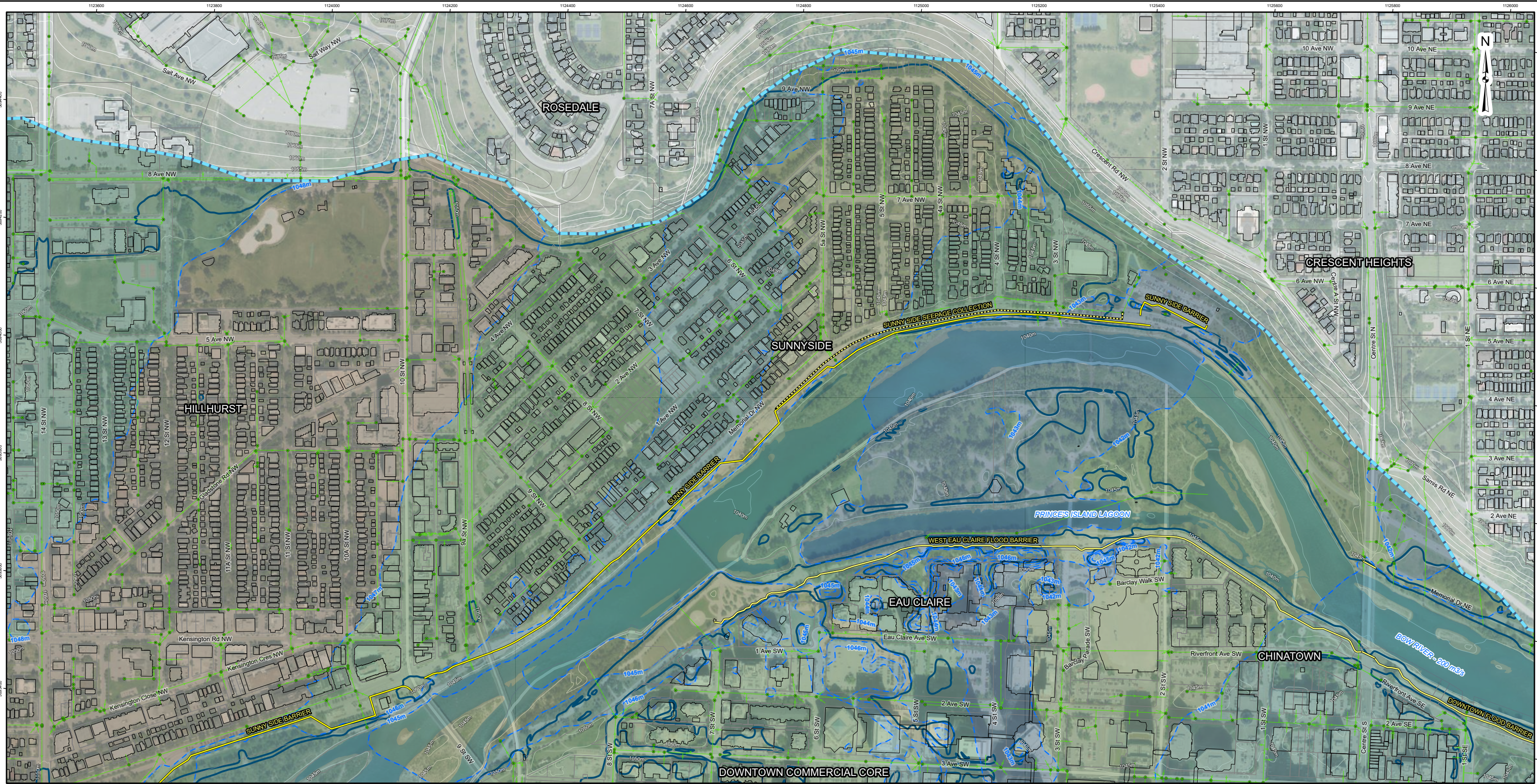
NAD 1983 CSRS 3TM 114

0 60 120 Meters

SCALE 1:10,000

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

3m Maximum Groundwater Depth Threshold

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

Alluvial Aquifer / Model Domain

Waterbody

NOTES

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FIGURE 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

6 - SUNNYSIDE

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

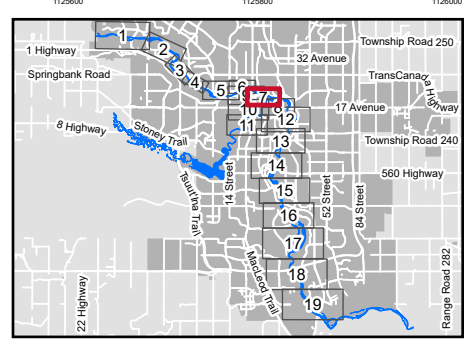
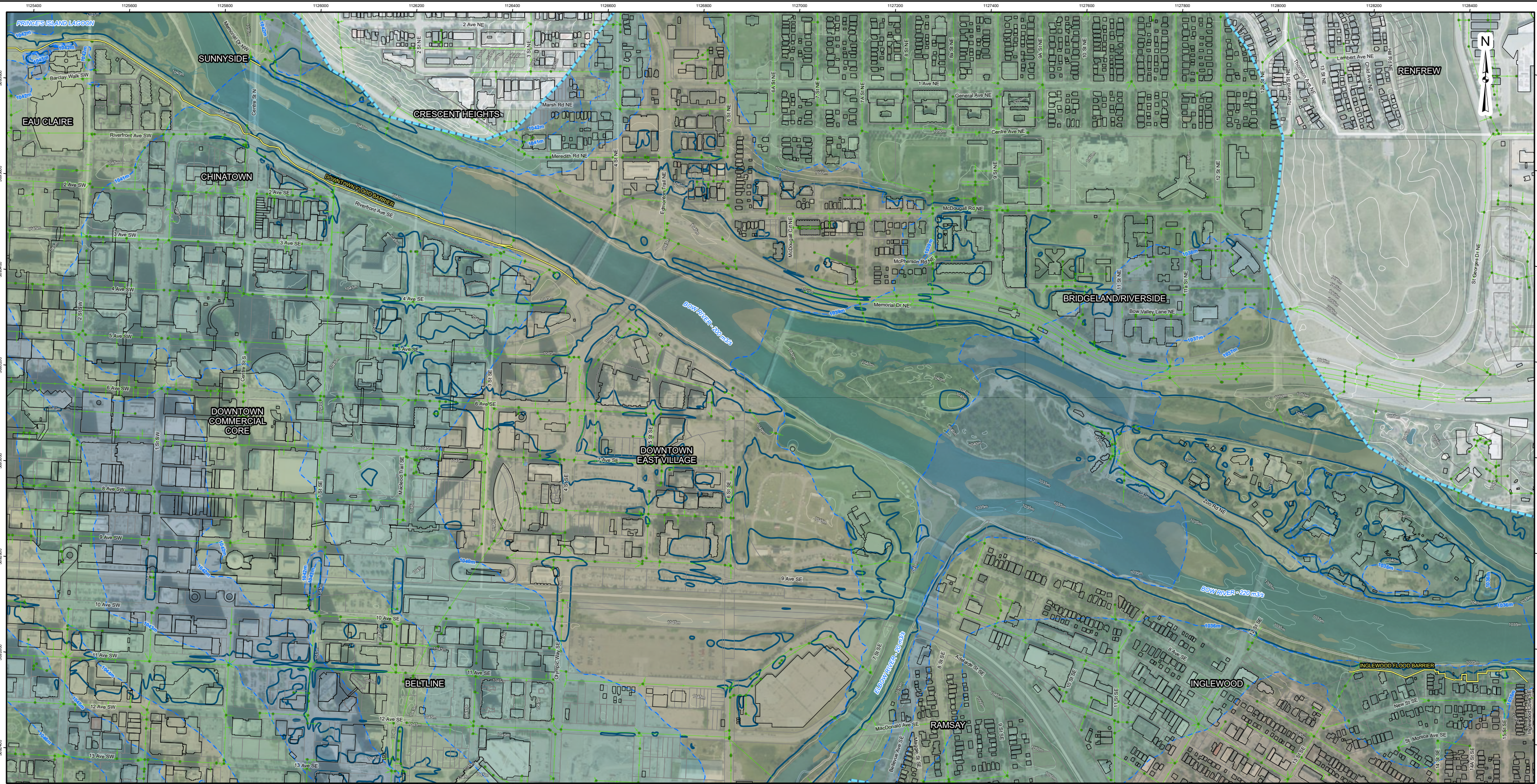
NAD 1983 CSRS 3TM 114

SCALE 1:6,500

DATE 8/14/2026

AUTHOR TDaSilva

0 30 60 Meters



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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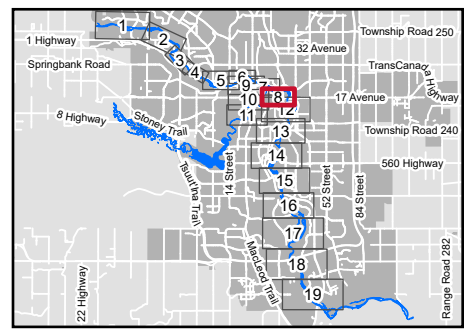
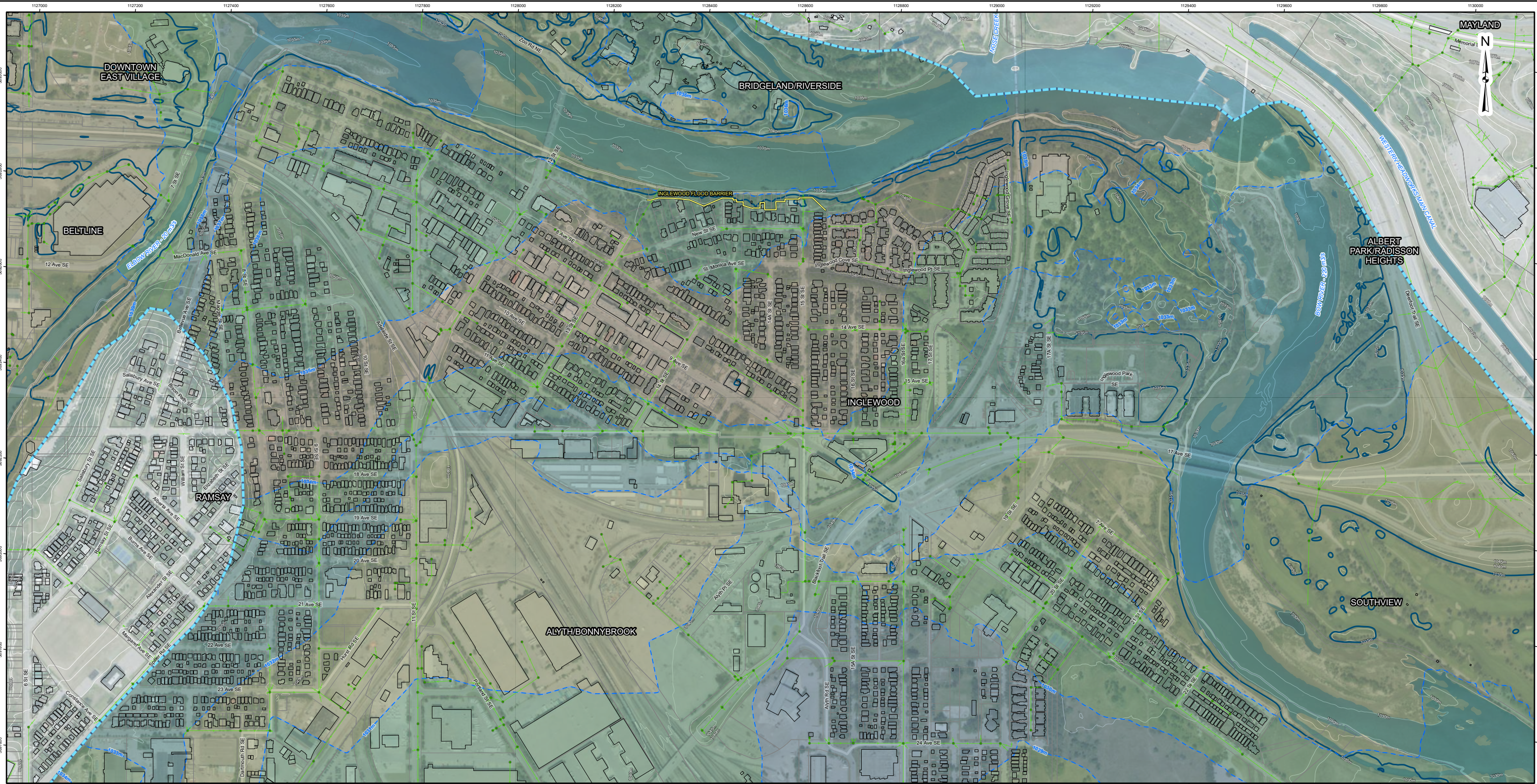
DATA SOURCES

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FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
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

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

3m Maximum Groundwater Depth Threshold

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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FIGURE 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

8 - INGLEWOOD

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

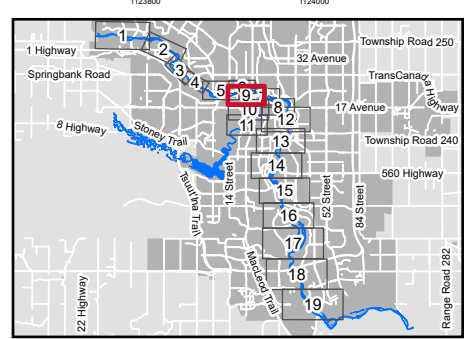
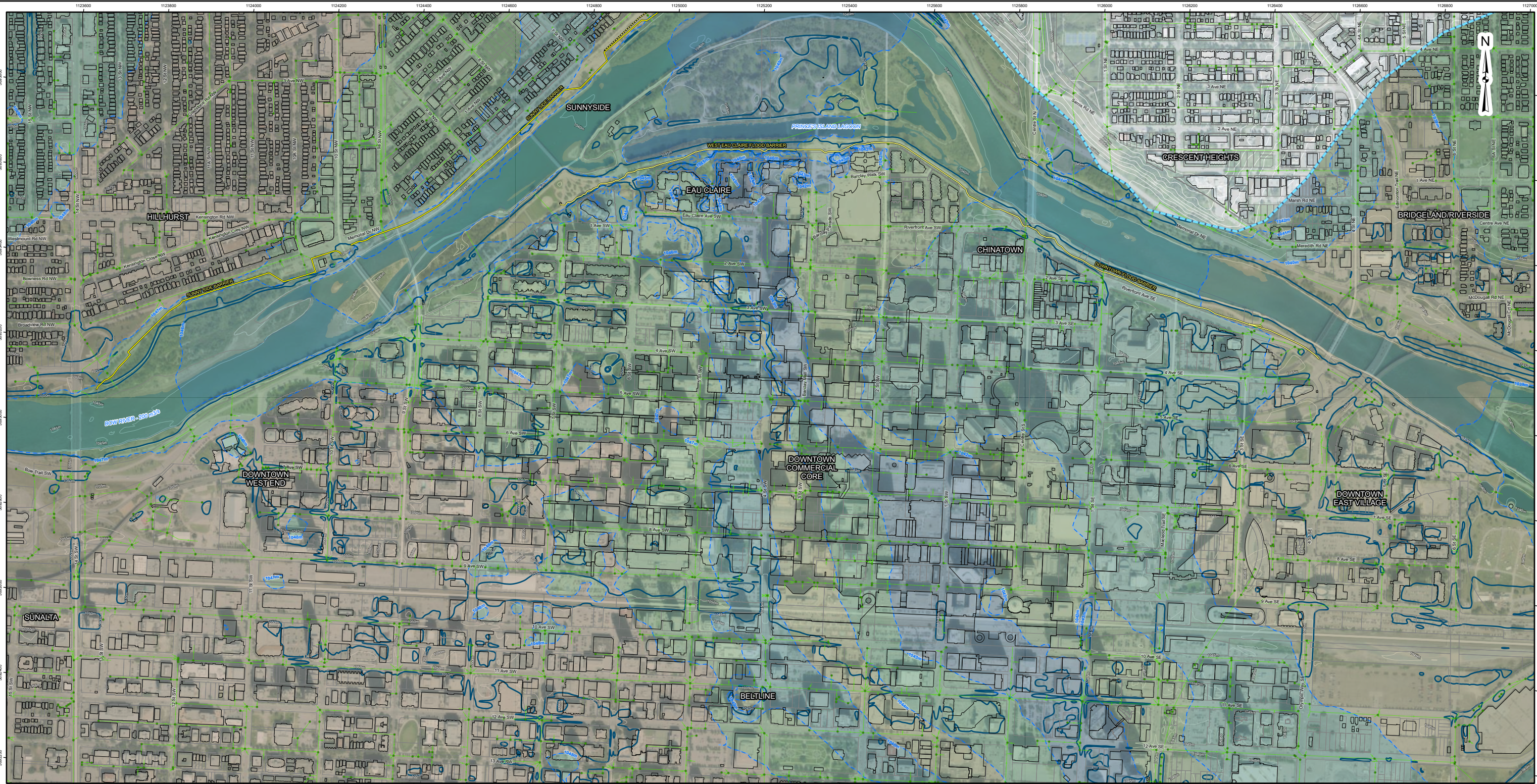
NAD 1983 CSRS 3TM 114

SCALE 1:8,000

DATE 8/14/2026

AUTHOR TDaSilva

0 40 80 Meters



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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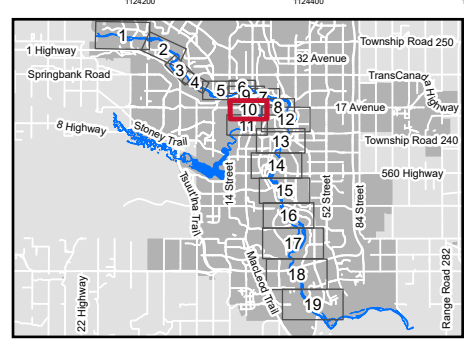
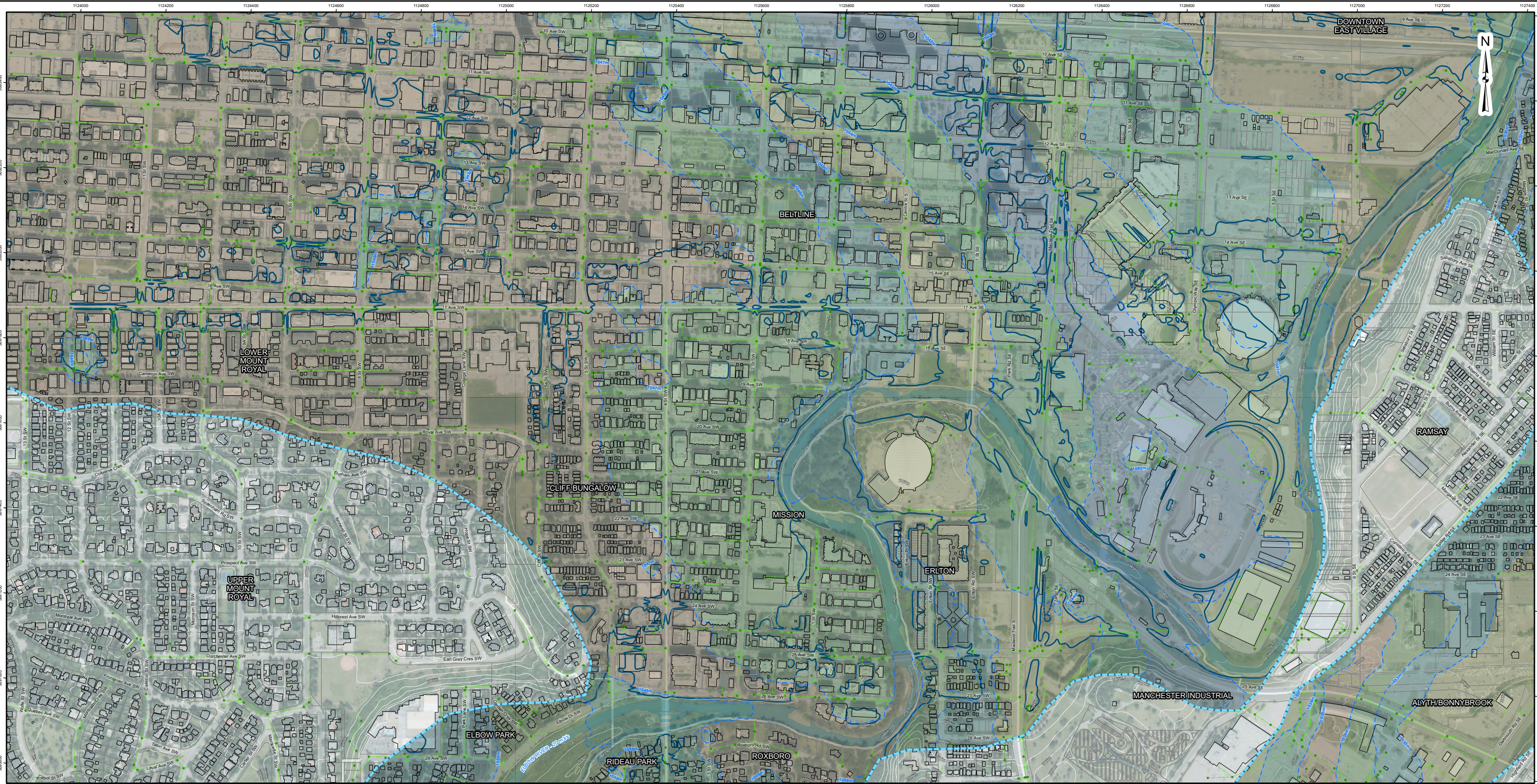
DATA SOURCES

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FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
9 - DOWNTOWN

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 | 3m Maximum Groundwater Depth Threshold |
| Parcel | Outfall | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| Community District | Storm Network | Alluvial Aquifer / Model Domain |
| | Sunnyside Seepage Collection | Waterbody |
| | Flood Control Structure | |
| | Contours - 5m | |

NOTES

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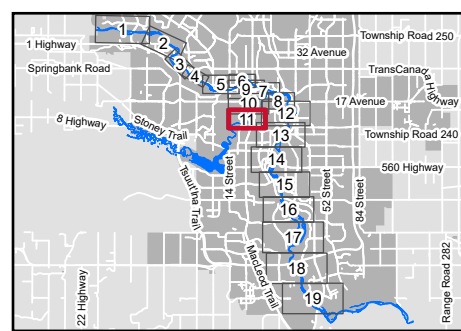
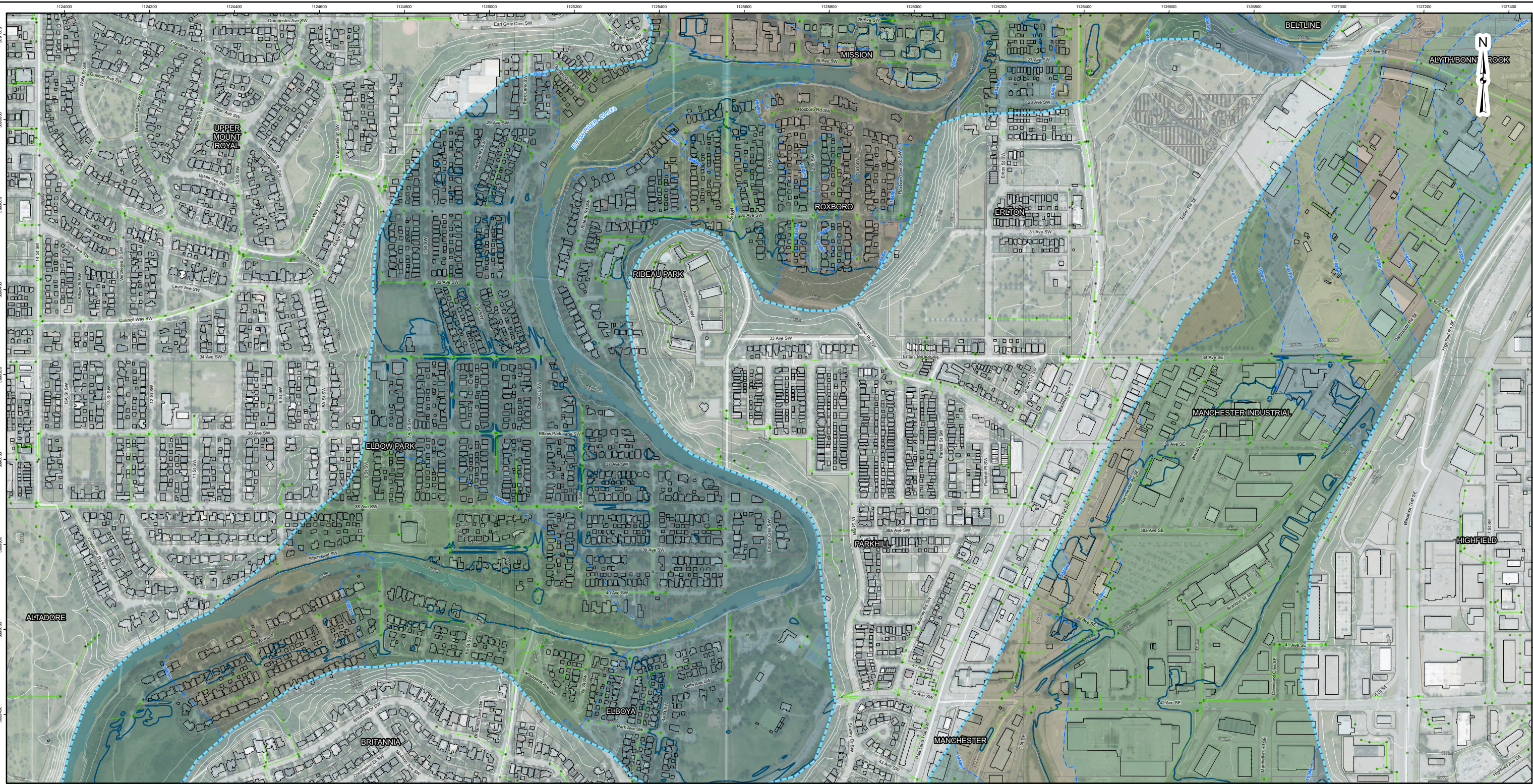
FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
10 - BELTLINE

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 | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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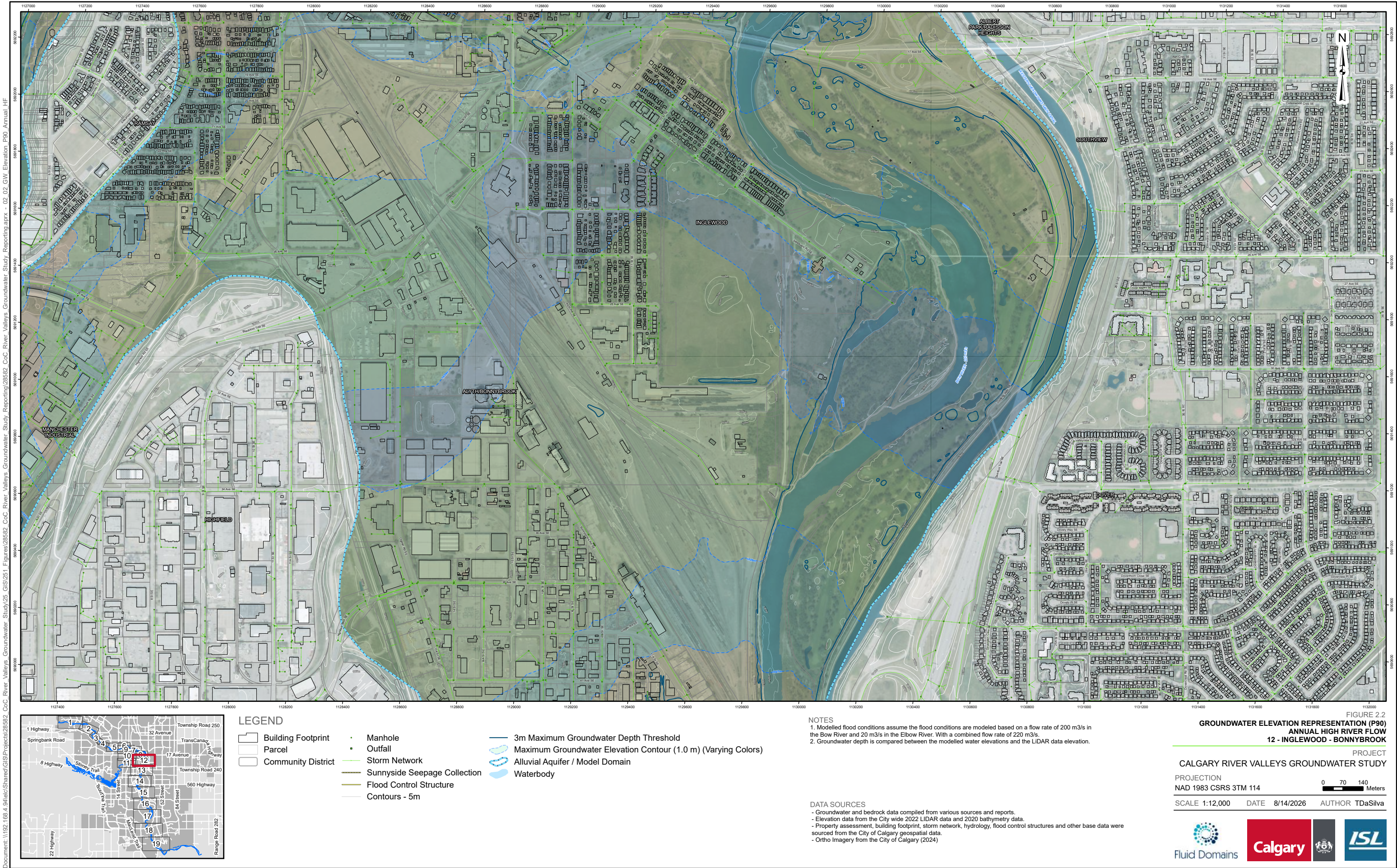
DATA SOURCES

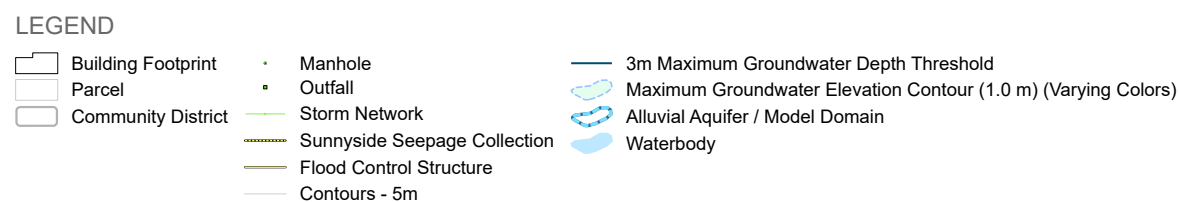
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FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
11 - LOWER ELBOW

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY
PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:9,000
DATE 8/14/2026
AUTHOR TDaSilva







DATA SOURCES

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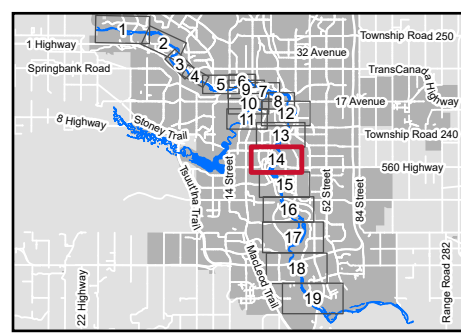
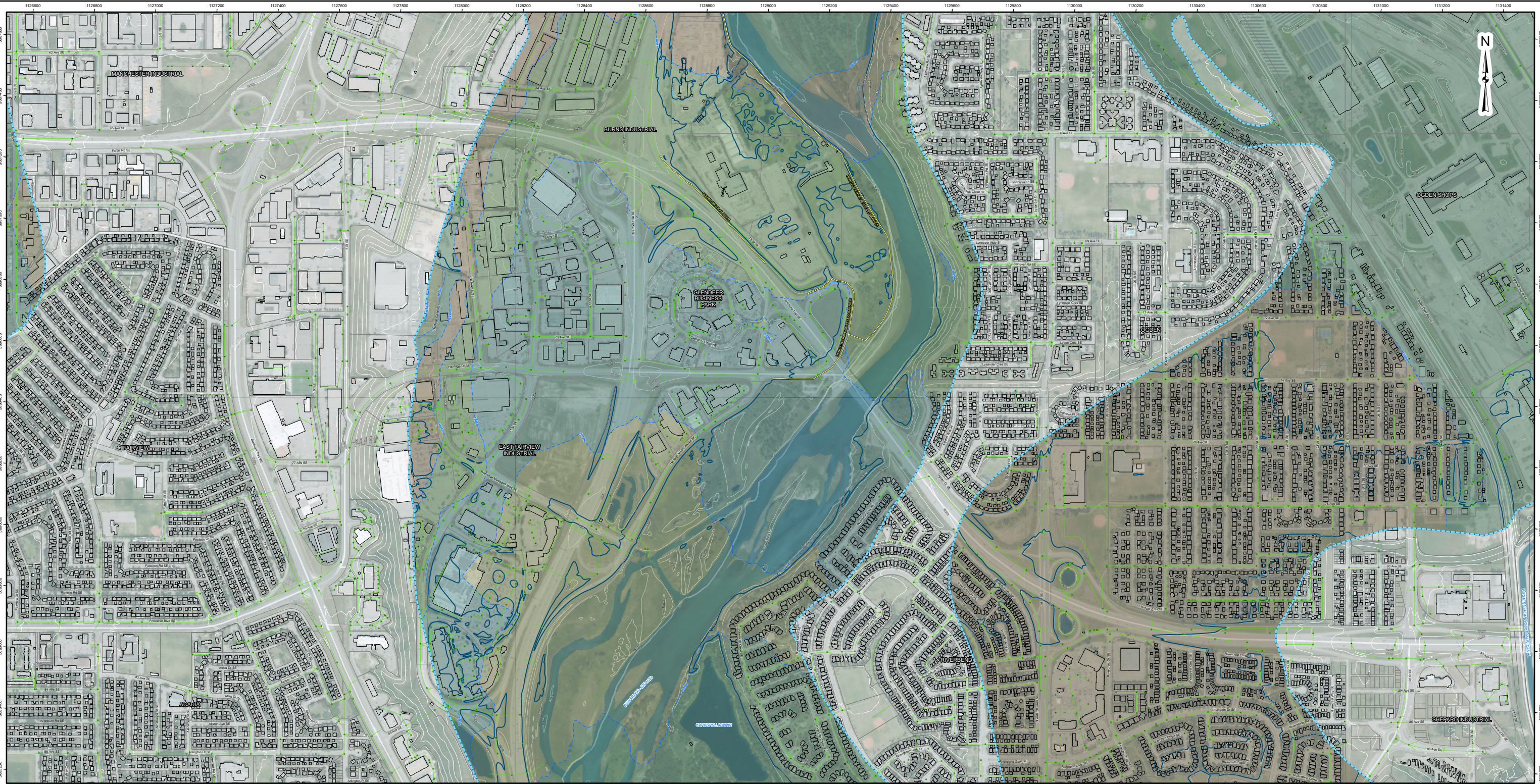
PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
 NAD 1983 CSRS 3TM 114

0 70 140 Meters

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





LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

NOTES

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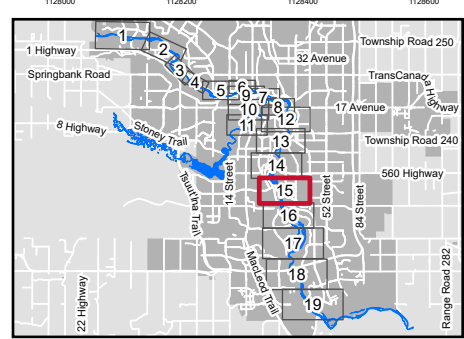
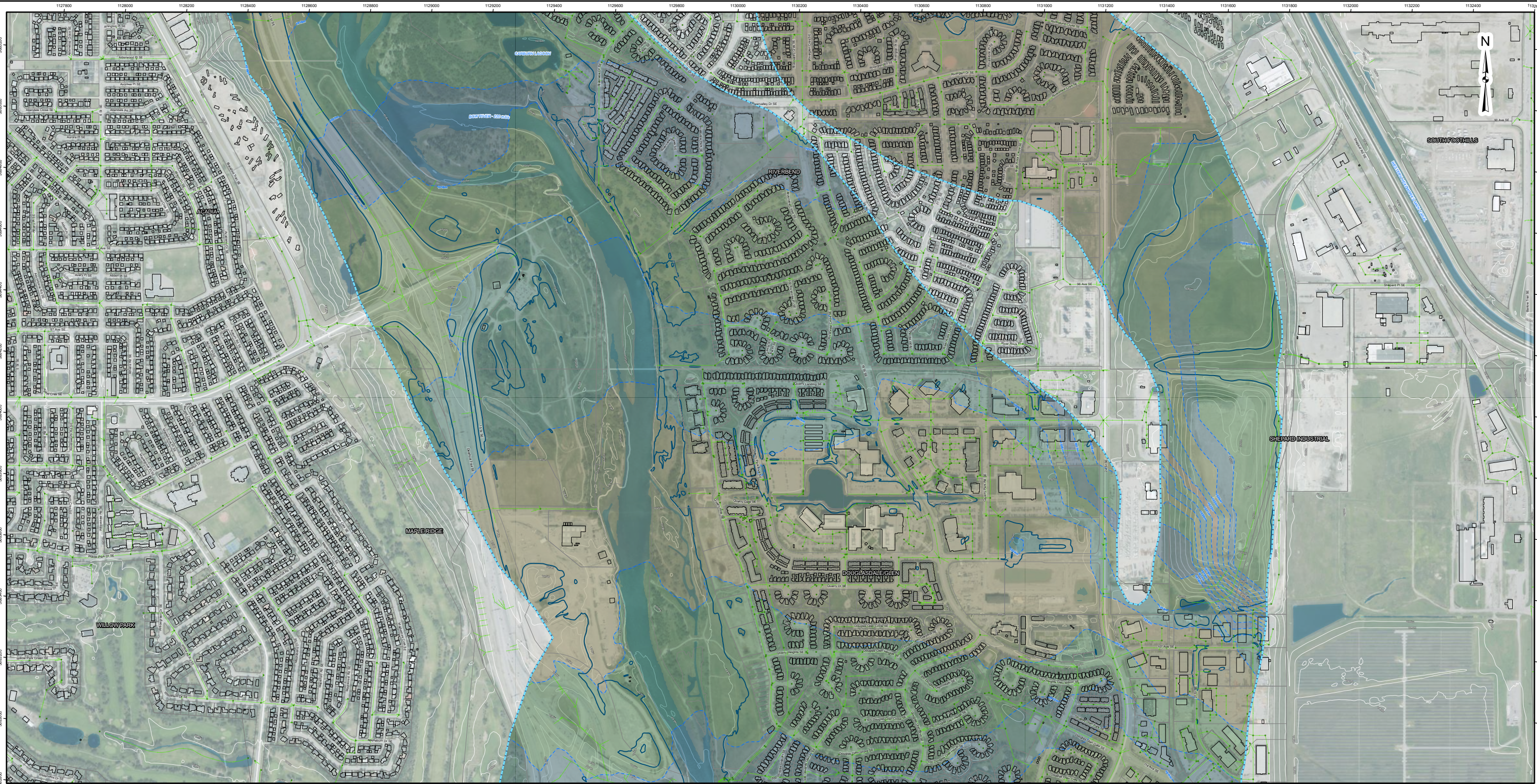
FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
14 - DEERFOOT MEADOWS

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 | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | Flood Control Structure | | |
| | | | Contours - 5m | | |

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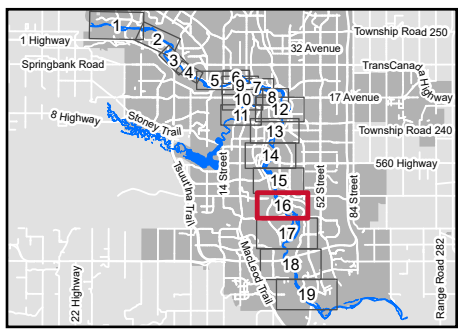
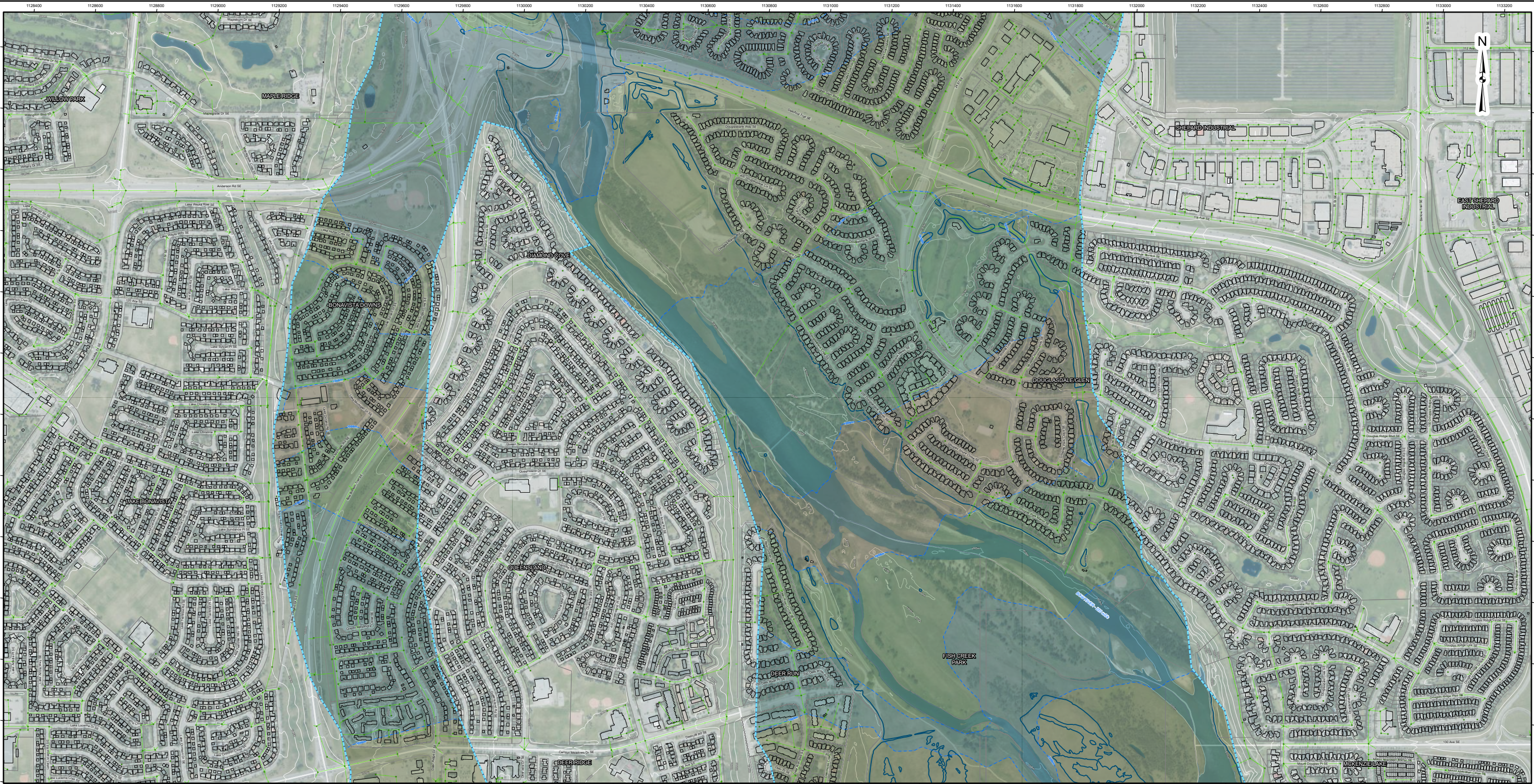
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FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
15 - RIVERBEND / QUARRY PARK

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

3m Maximum Groundwater Depth Threshold

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 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

16 - DOUGLASDALE

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

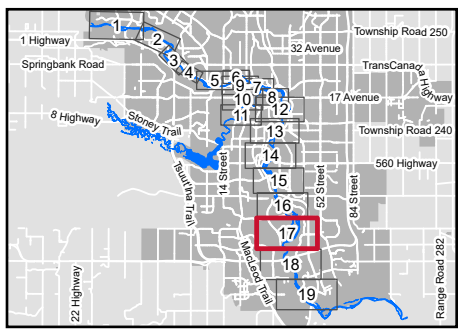
0 75 150

Meters

SCALE 1:12,500

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

Building Footprint

Parcel

Community District

Manhole

Outfall

Storm Network

Sunnyside Seepage Collection

Flood Control Structure

Contours - 5m

3m Maximum Groundwater Depth Threshold

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.

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FIGURE 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

ANNUAL HIGH RIVER FLOW

17 - FISH CREEK

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

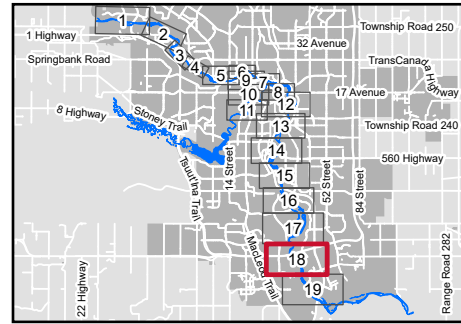
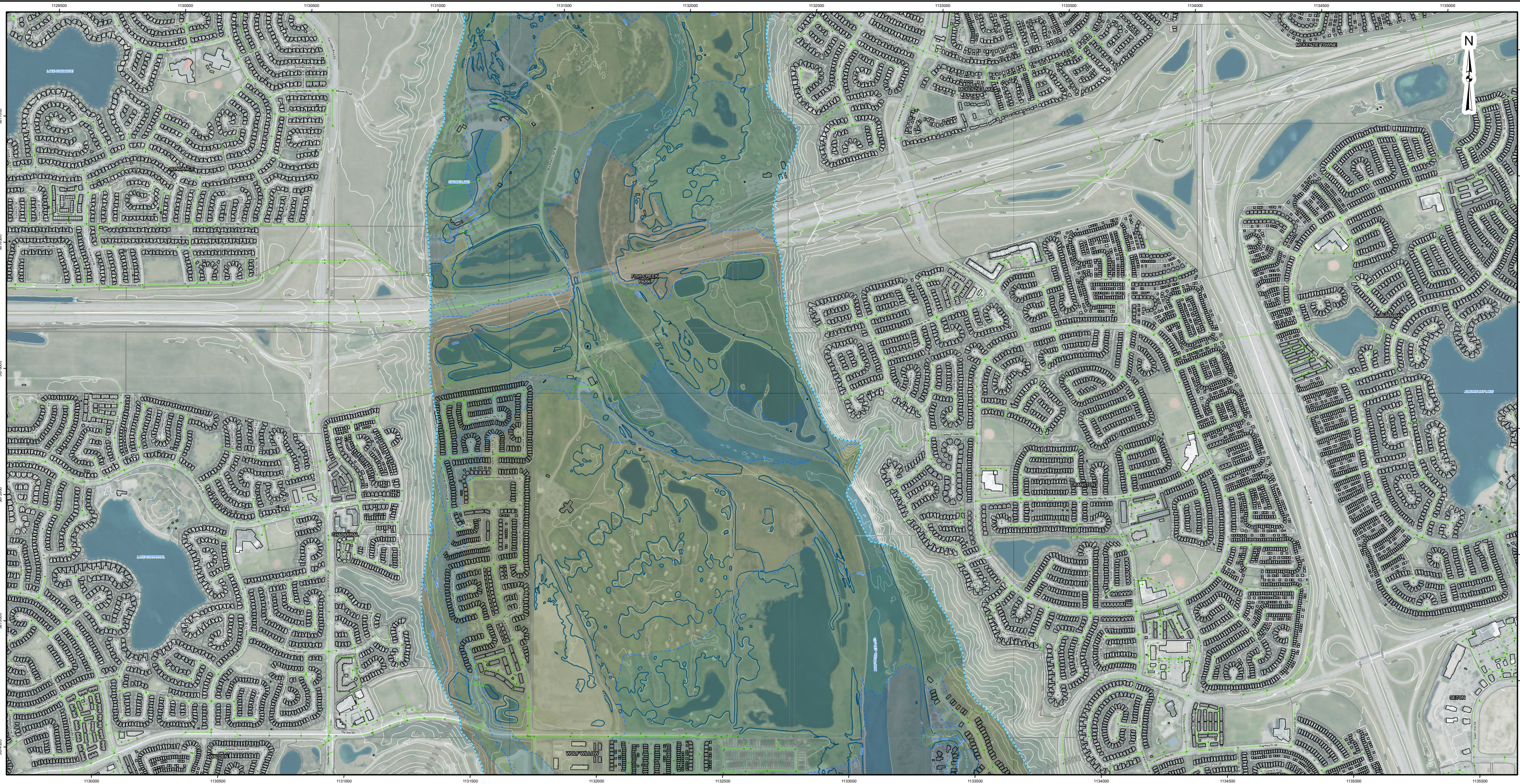
0 90 180

Meters

SCALE 1:15,000

DATE 8/14/2026

AUTHOR TDaSilva



LEGEND

- | | | | | | |
|--|--------------------|--|------------------------------|--|--|
| | Building Footprint | | Manhole | | 3m Maximum Groundwater Depth Threshold |
| | Parcel | | Outfall | | Maximum Groundwater Elevation Contour (1.0 m) (Varying Colors) |
| | Community District | | Storm Network | | Alluvial Aquifer / Model Domain |
| | | | Sunnyside Seepage Collection | | Waterbody |
| | | | 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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- 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)

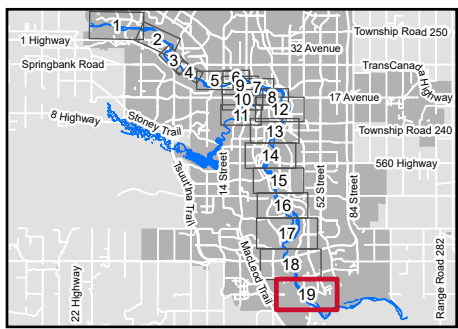
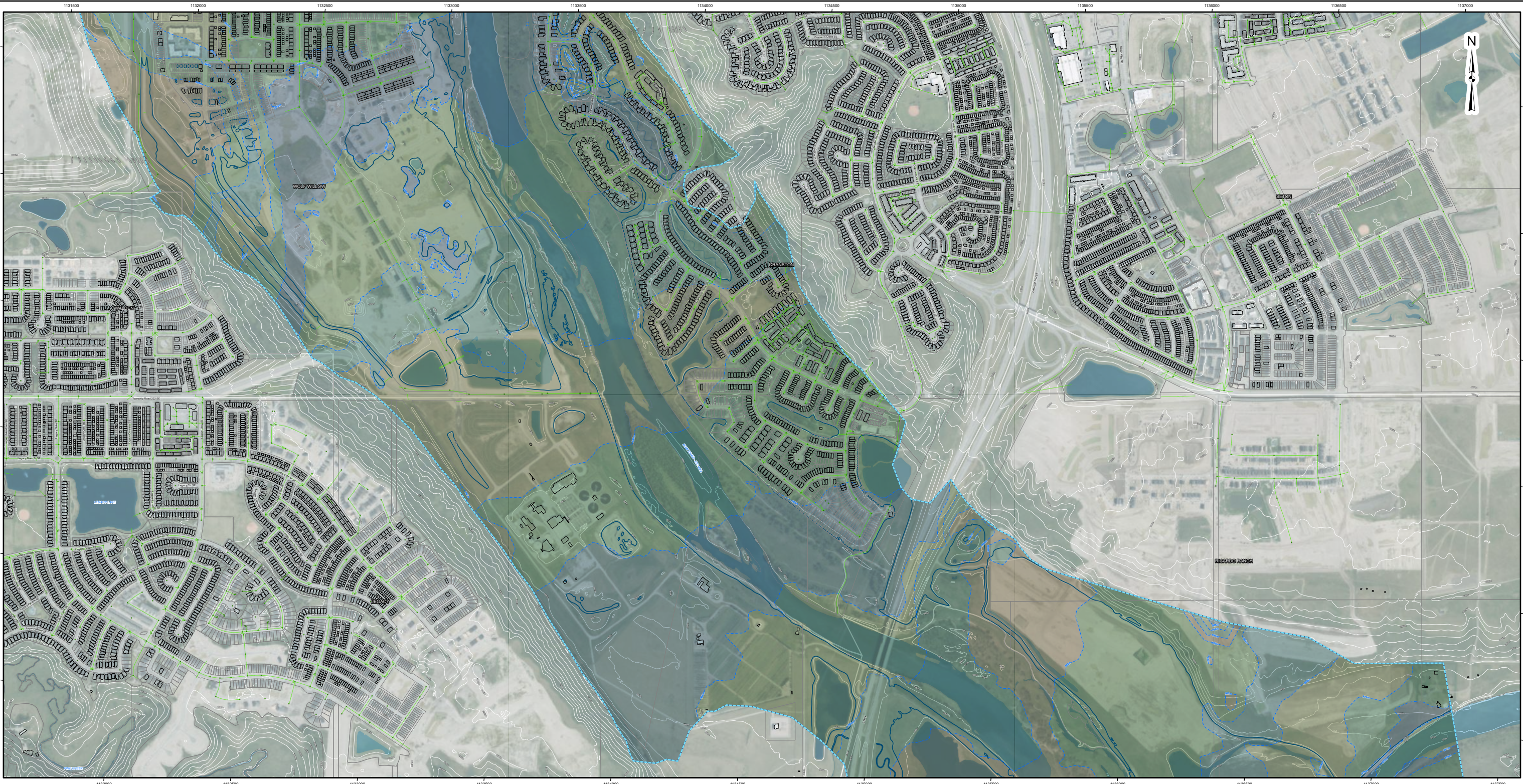
FIGURE 2.2
GROUNDWATER ELEVATION REPRESENTATION (P90)
ANNUAL HIGH RIVER FLOW
18 - SOUTH STONEY TRAIL

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

3m Maximum Groundwater Depth Threshold

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.
- 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 2.2

GROUNDWATER ELEVATION REPRESENTATION (P90)

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

Scaled to 11 x 17