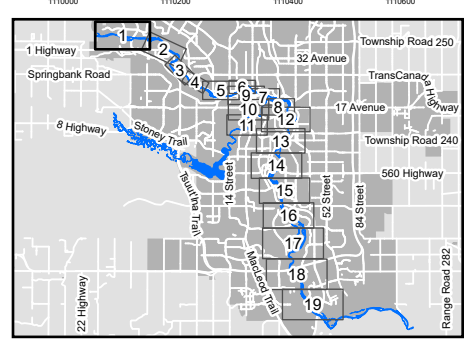
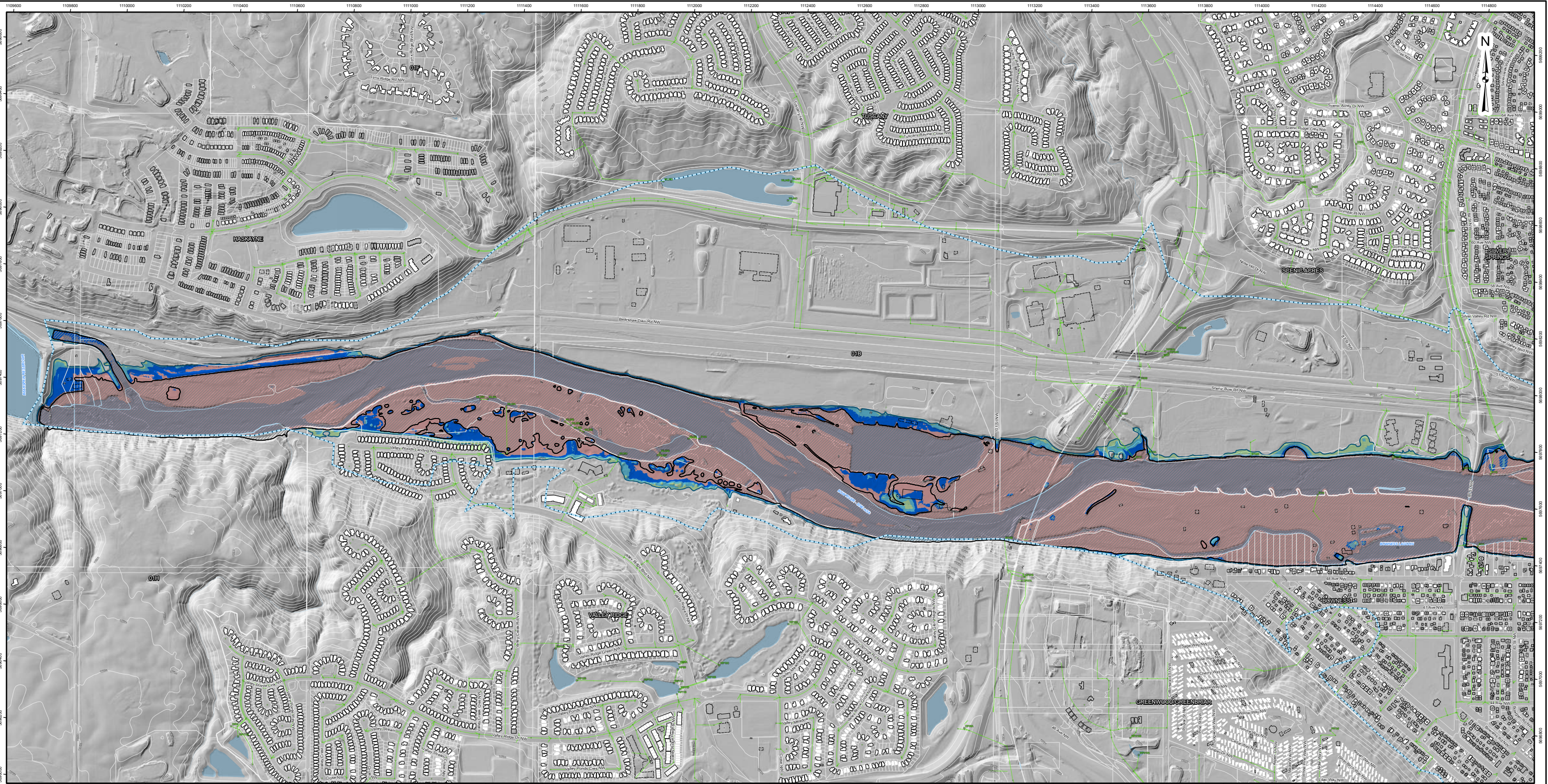


Groundwater Depth and Building Risk Factors (Calibrated Model)

1 in 100 Year Flood

- | | | | |
|-----|----------------------------|-----|------------------------|
| 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
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody
- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface
- Flood Inundation Area (100-Year)
- Directly Flooded

NOTES

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

DATA SOURCES

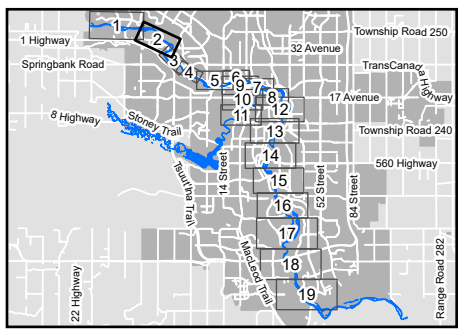
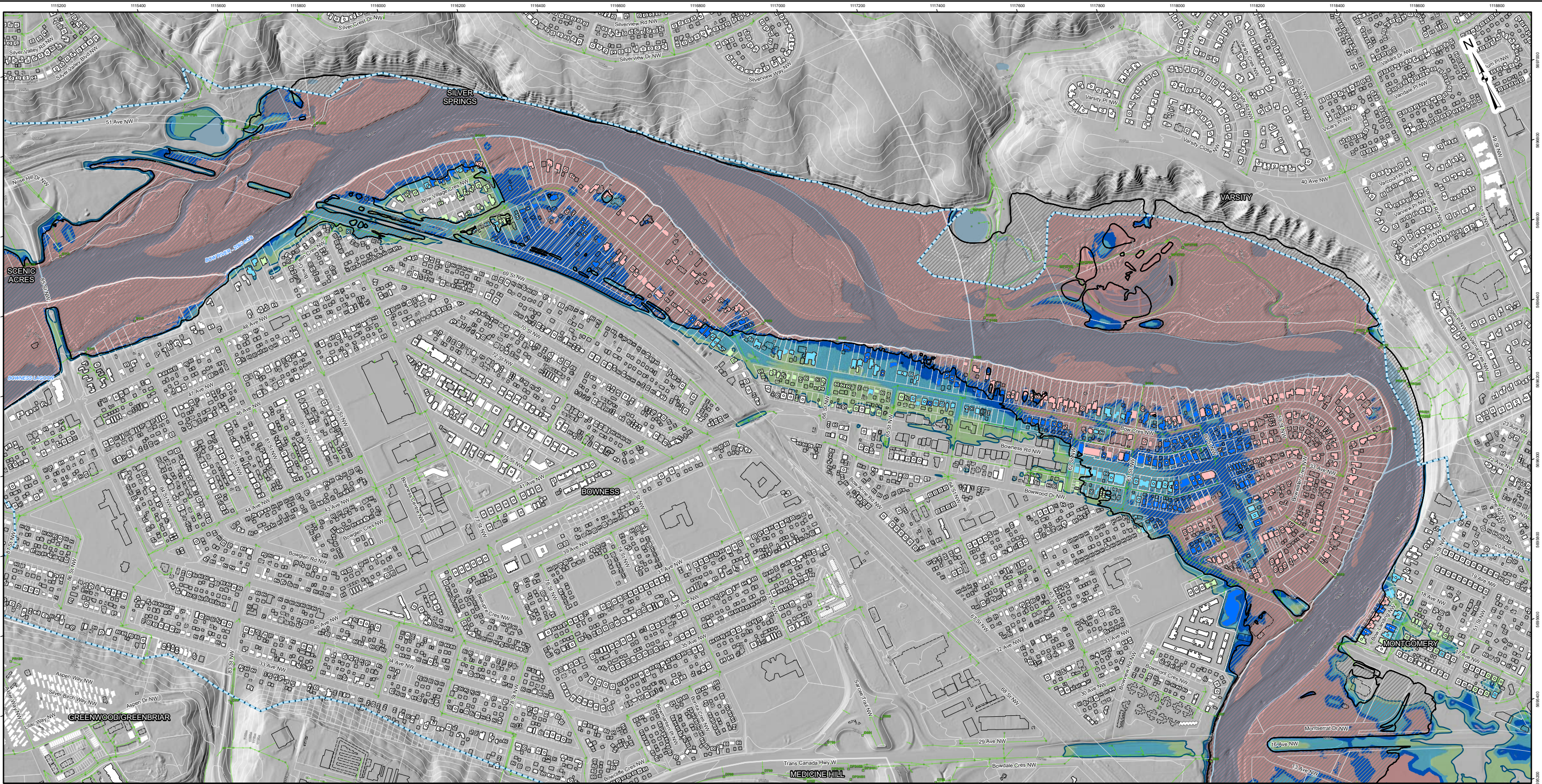
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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
1 - VALLEY RIDGE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:13,500
DATE 8/18/2026
AUTHOR TDaSilva





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody
- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface
- Flood Inundation Area (100-Year)
- Directly Flooded

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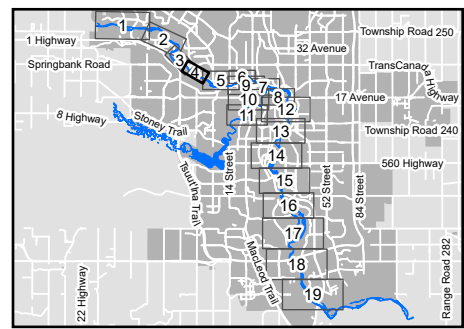
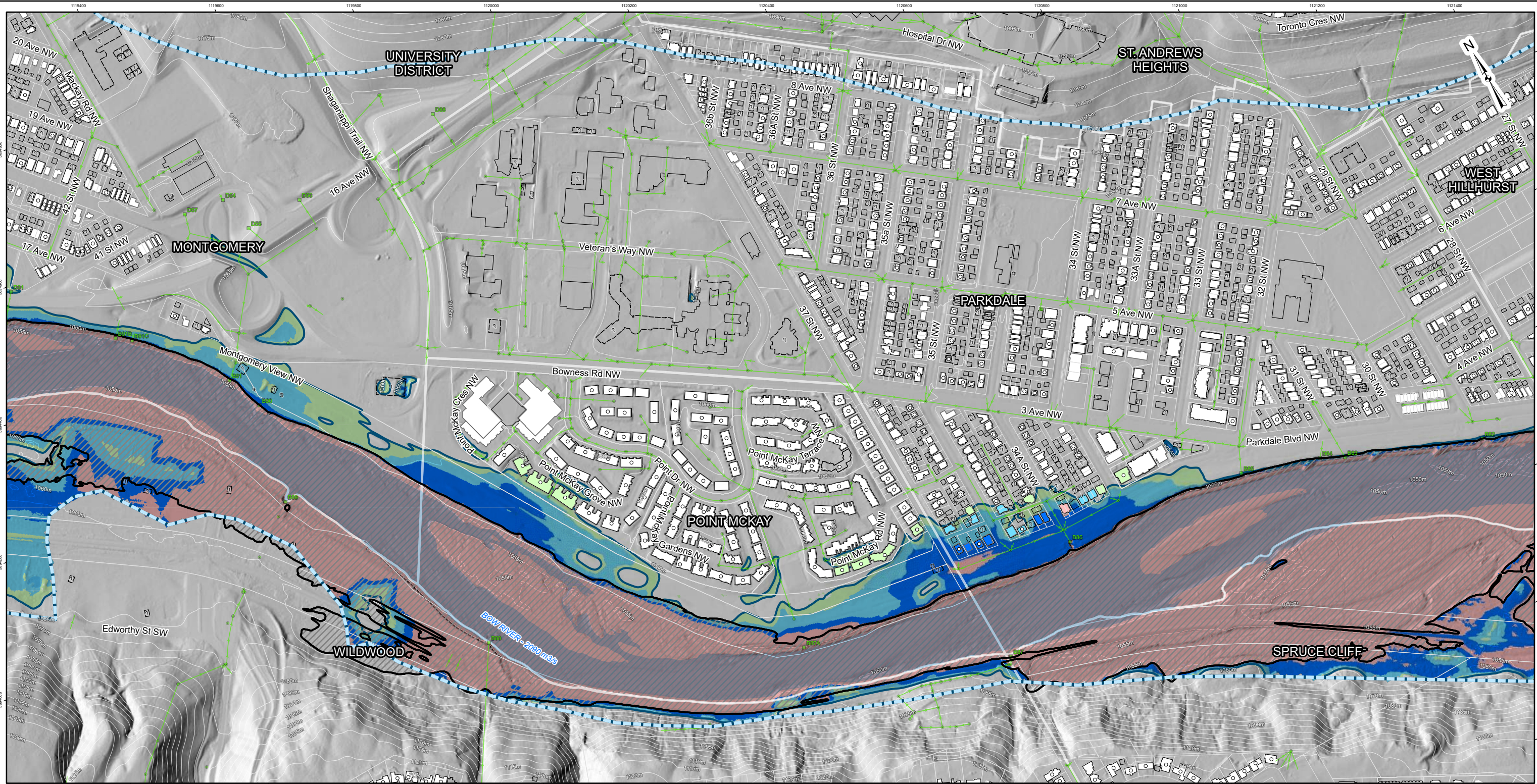
FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
2 - BOWNESS

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:10,000
DATE 8/18/2026
AUTHOR TDaSilva



Fluid Domains



LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody
- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

- Estimated Depth to Groundwater**
- Below 3m
 - 3m to 2.4m
 - 2.4m to 1.2m
 - 0m to 1.2m
 - Above Ground Surface
- Flood Inundation Area (100-Year)**
- Directly Flooded

NOTES

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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
4 - POINT MCKAY

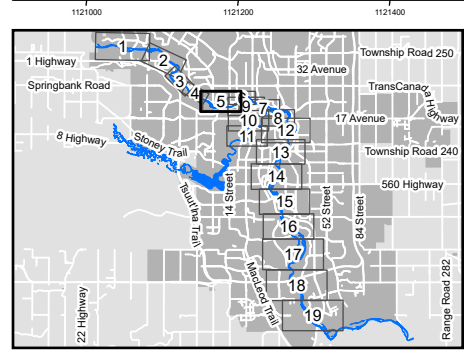
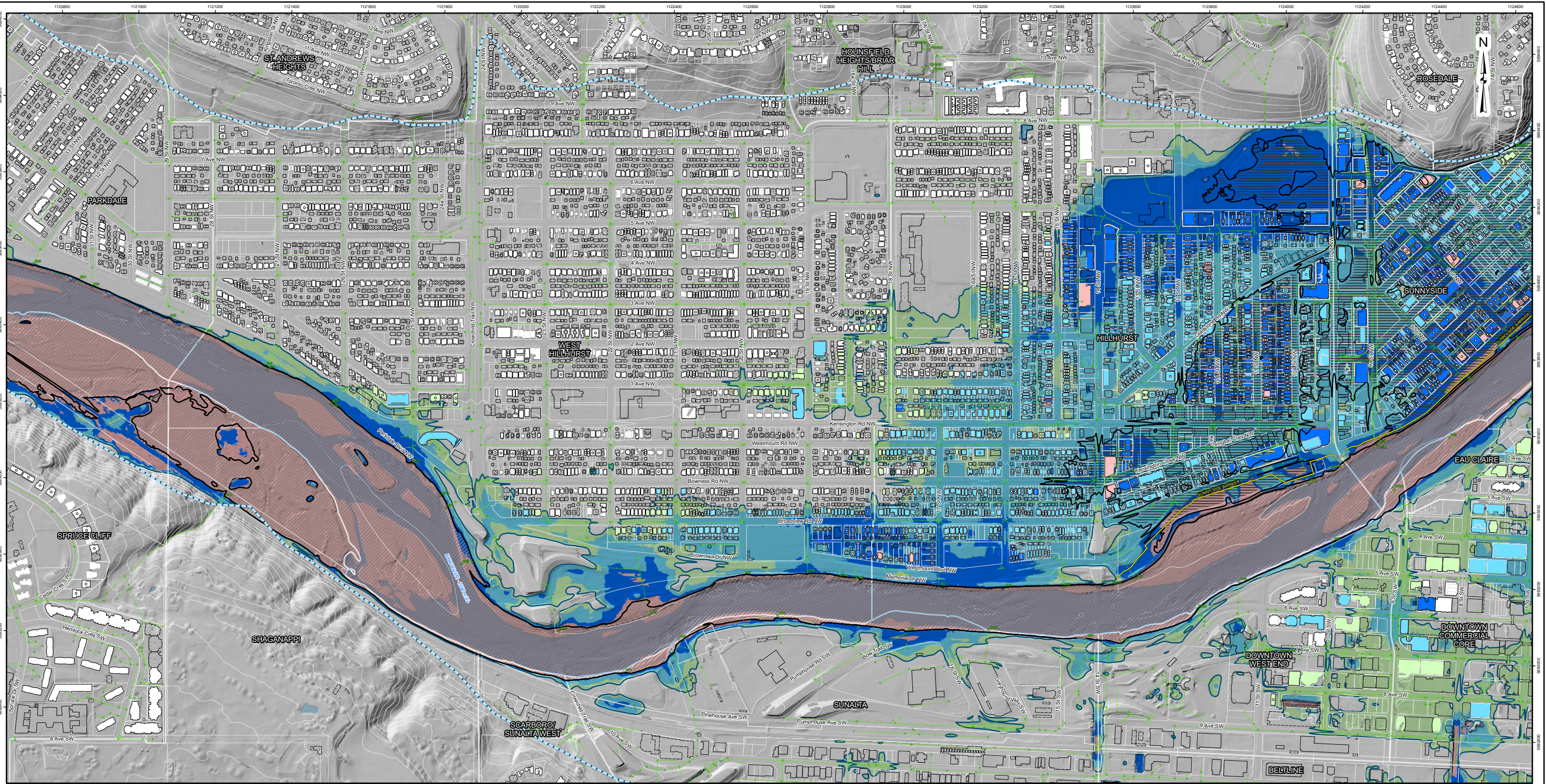
PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:6,000 DATE 8/18/2026 AUTHOR TDaSilva

0 30 60 Meters





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody

- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface

Flood Inundation Area (100-Year)

- Directly Flooded
- Protected by Flood Berm

NOTES

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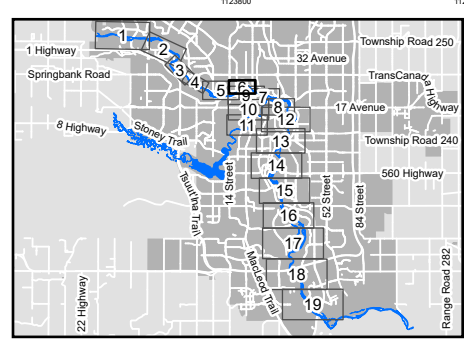
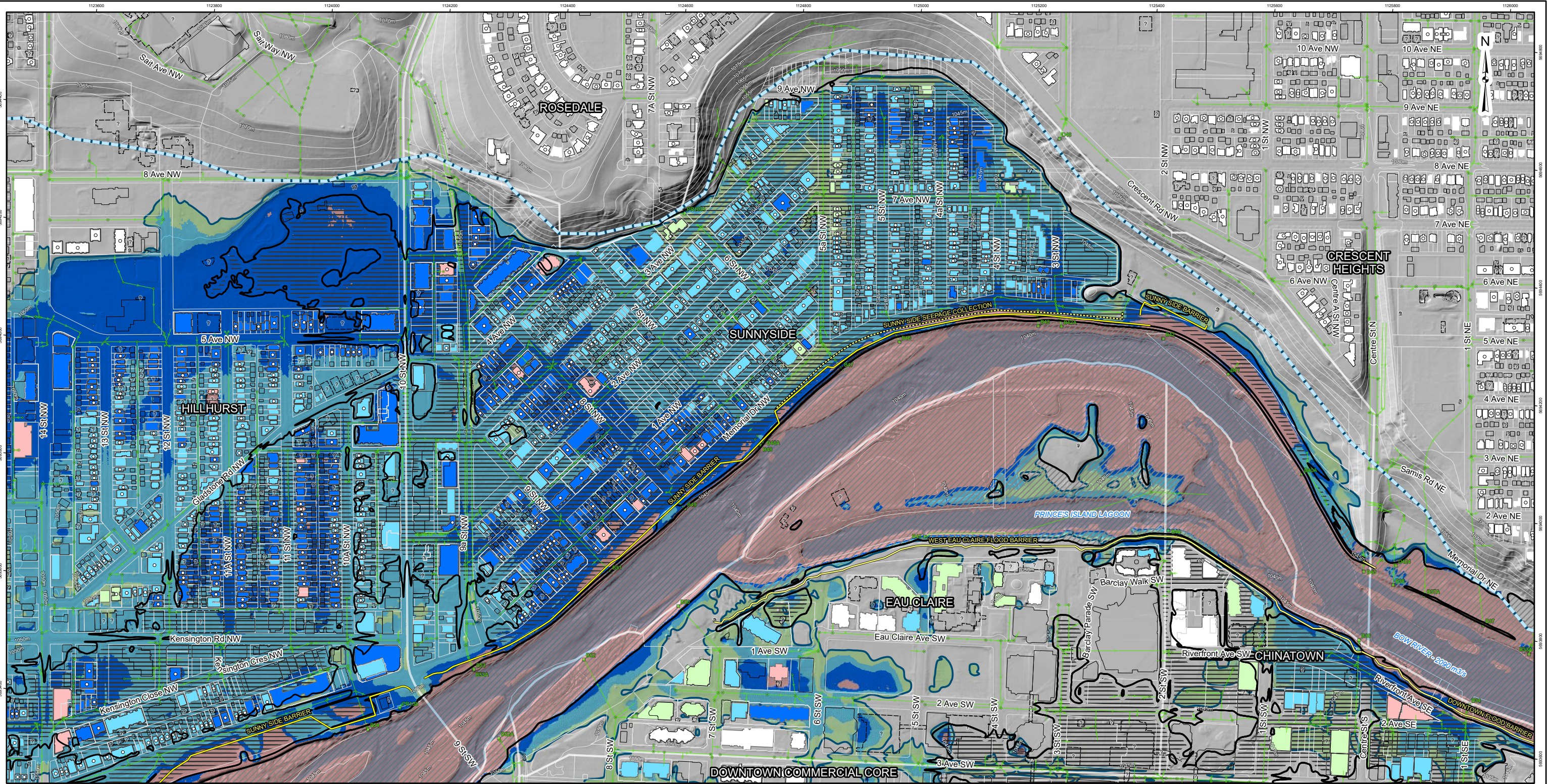
FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
5 - HILLHURST / WEST HILLHURST

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:10,000 DATE 8/18/2026 AUTHOR TDaSilva





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody

- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface

Flood Inundation Area (100-Year)

- Directly Flooded
- Protected by Flood Berm

NOTES

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DATA SOURCES

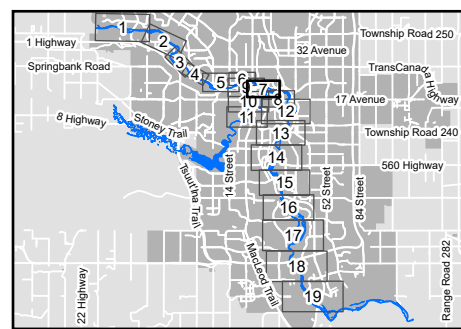
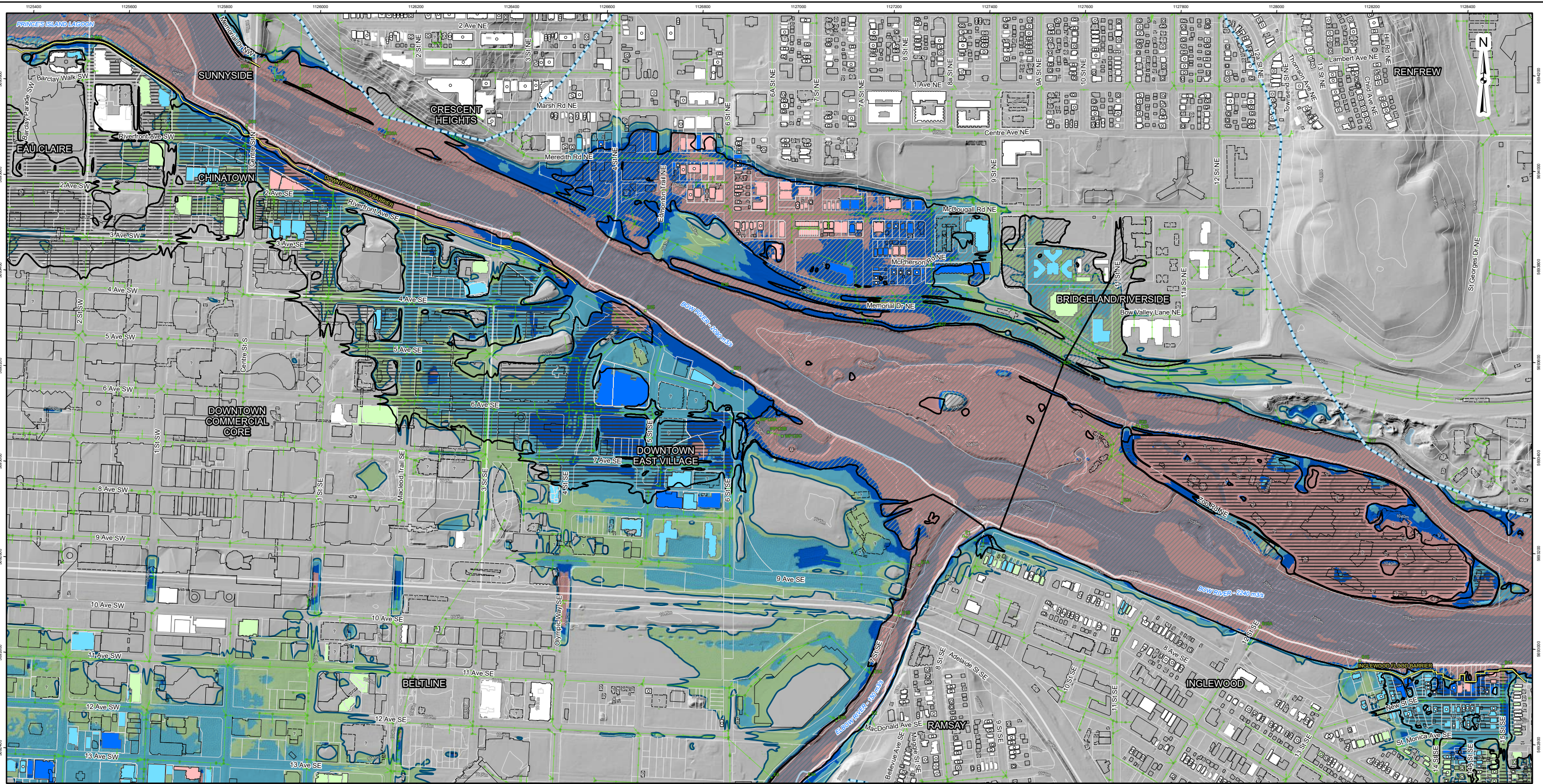
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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
6 - SUNNYSIDE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:6,500 DATE 8/18/2026 AUTHOR TDaSilva





LEGEND

- | | |
|---|------------------------------|
| Building Footprint | Manhole |
| Pre-1990 Building Construction | Outfall |
| Below Grade Space | Storm Network |
| Building Information Missing | 3m Depth Threshold |
| Non-Residential Building / Building Outside Scope | Flood Control Structure |
| Parcel | Sunnyside Seepage Collection |
| Community District | Contours - 5m |
| Alluvial Aquifer / Model Domain | |
| Waterbody | |
-
- | | |
|---|-------------------------|
| Estimated Depth to Groundwater | |
| | Below 3m |
| | 3m to 2.4m |
| | 2.4m to 1.2m |
| | 0m to 1.2m |
| | Above Ground Surface |
| Flood Inundation Area (100-Year) | |
| | Directly Flooded |
| | Protected by Flood Berm |

NOTES

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FIGURE 3.6
**GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
7 - EAST VILLAGE / BRIDGELAND**

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:8,000

DATE 8/18/2026

AUTHOR TDaSilva

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

SCALE 1:8,000

DATE 8/18/2026

AUTHOR TDaSilva

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

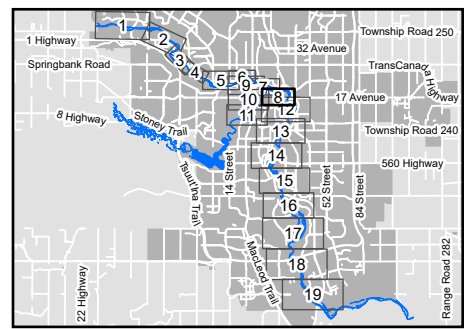
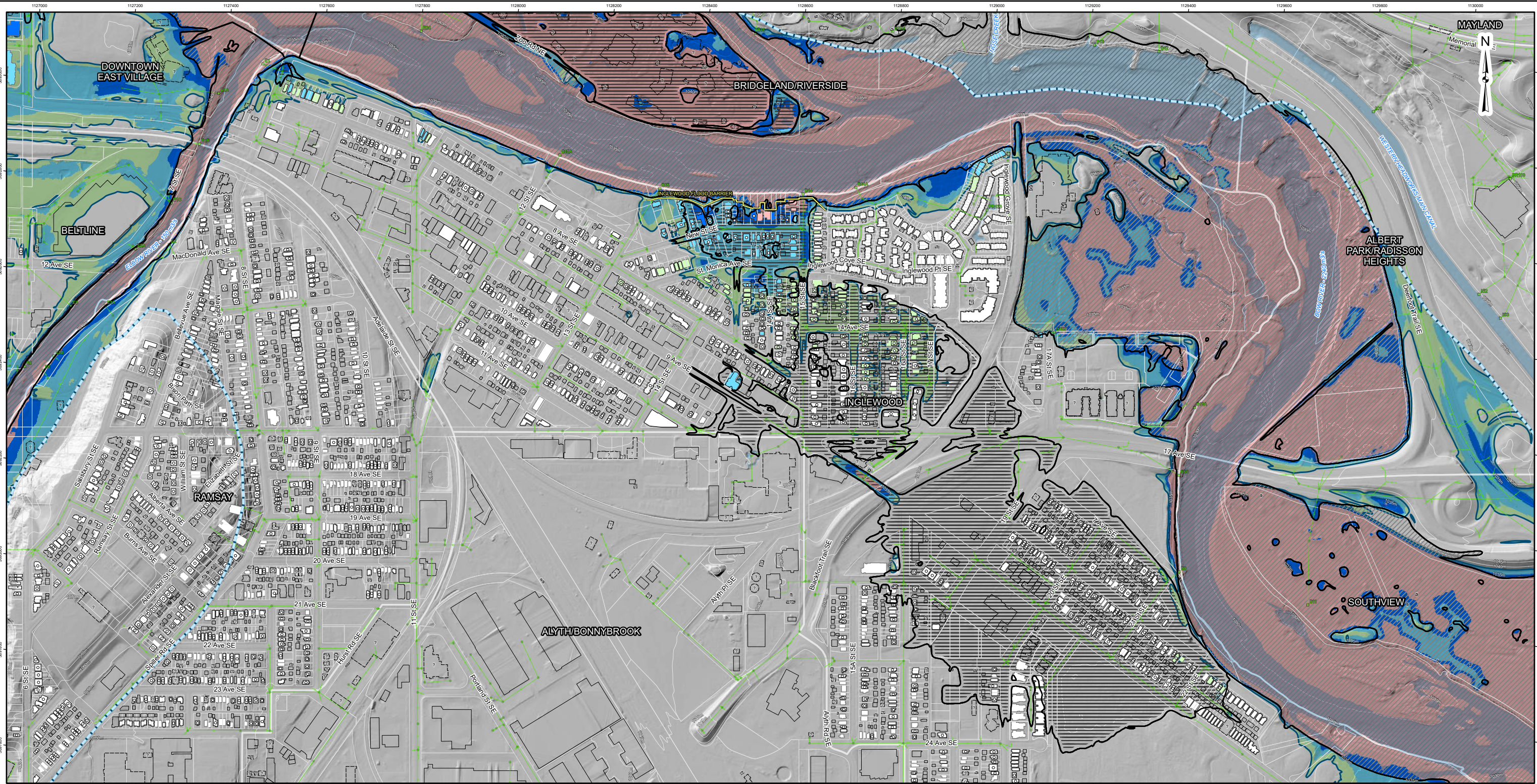
NAD 1983 CSRS 3TM 114

SCALE 1:8,000

DATE 8/18/2026

AUTHOR TDaSilva





LEGEND

- | | |
|---|------------------------------|
| Building Footprint | Manhole |
| Pre-1990 Building Construction | Outfall |
| Below Grade Space | Storm Network |
| Building Information Missing | 3m Depth Threshold |
| Non-Residential Building / Building Outside Scope | Flood Control Structure |
| Parcel | Sunnyside Seepage Collection |
| Community District | Contours - 5m |
| Alluvial Aquifer / Model Domain | |
| Waterbody | |
- | Estimated Depth to Groundwater | |
|----------------------------------|-------------------------|
| | Below 3m |
| | 3m to 2.4m |
| | 2.4m to 1.2m |
| | 0m to 1.2m |
| | Above Ground Surface |
| Flood Inundation Area (100-Year) | |
| | Directly Flooded |
| | Protected by Flood Berm |

NOTES

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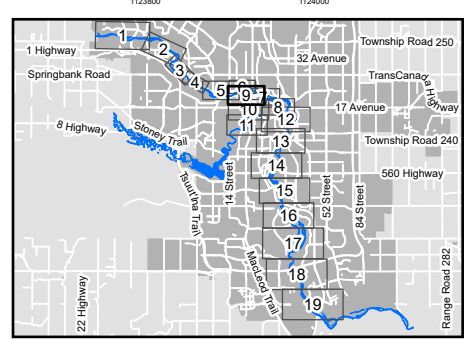
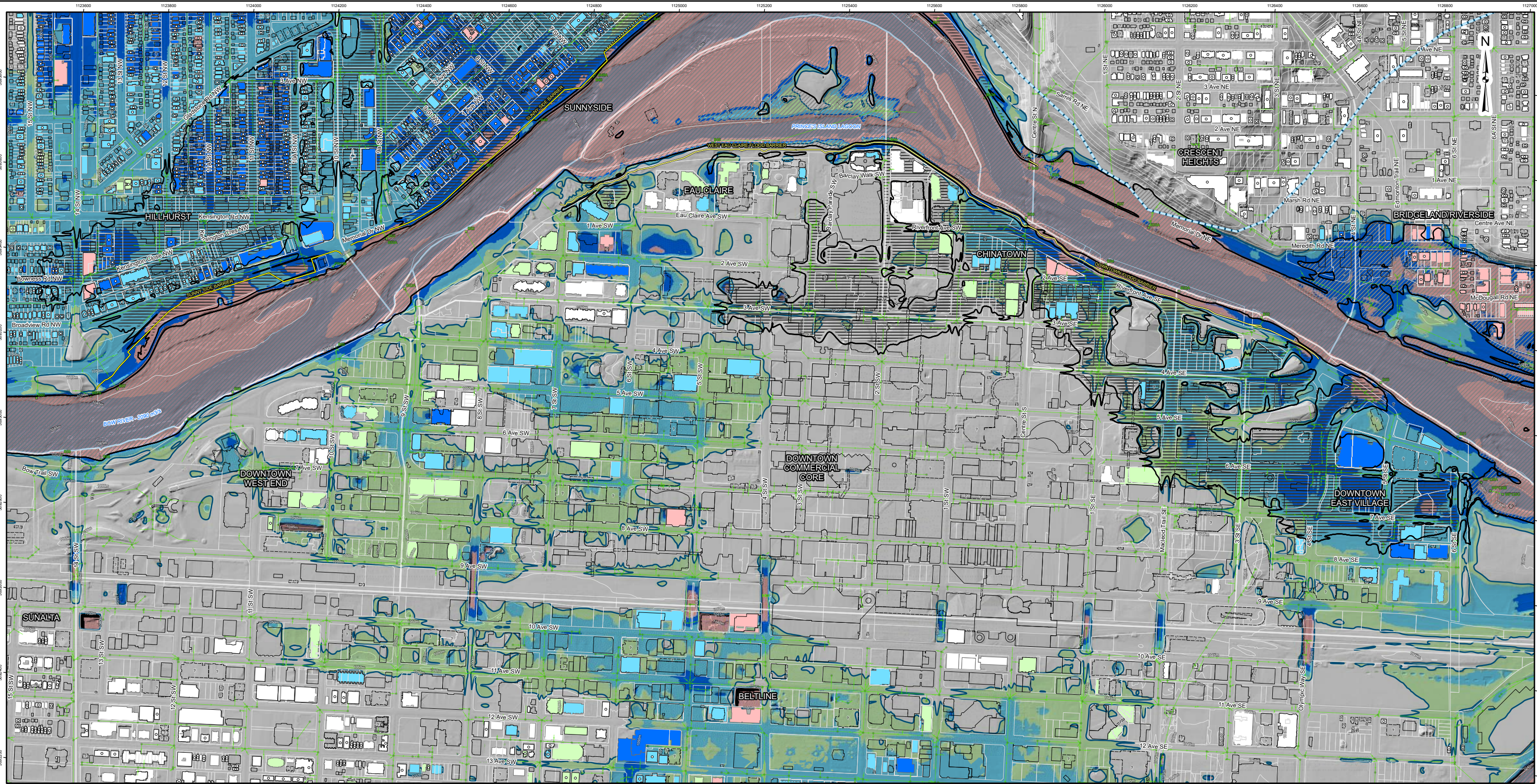
FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
8 - INGLEWOOD

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:8,000 DATE 8/18/2026 AUTHOR TDaSilva





LEGEND

- | | | | |
|---|------------------------------|---|--|
| Building Footprint | Manhole | Estimated Depth to Groundwater
Below 3m
3m to 2.4m
2.4m to 1.2m
0m to 1.2m
Above Ground Surface | |
| Pre-1990 Building Construction | Outfall | | Flood Inundation Area (100-Year)
Directly Flooded
Protected by Flood Berm |
| Below Grade Space | Storm Network | | |
| Building Information Missing | 3m Depth Threshold | | |
| Non-Residential Building / Building Outside Scope | Flood Control Structure | | |
| Parcel | Sunnyside Seepage Collection | | |
| Community District | Contours - 5m | | |
| Alluvial Aquifer / Model Domain | | | |
| Waterbody | | | |

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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
9 - DOWNTOWN

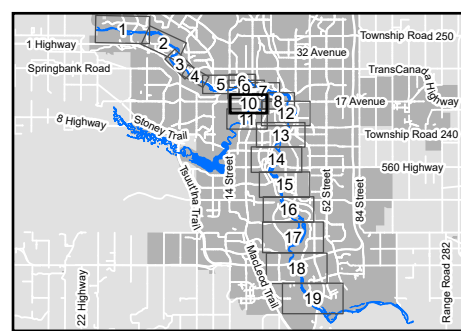
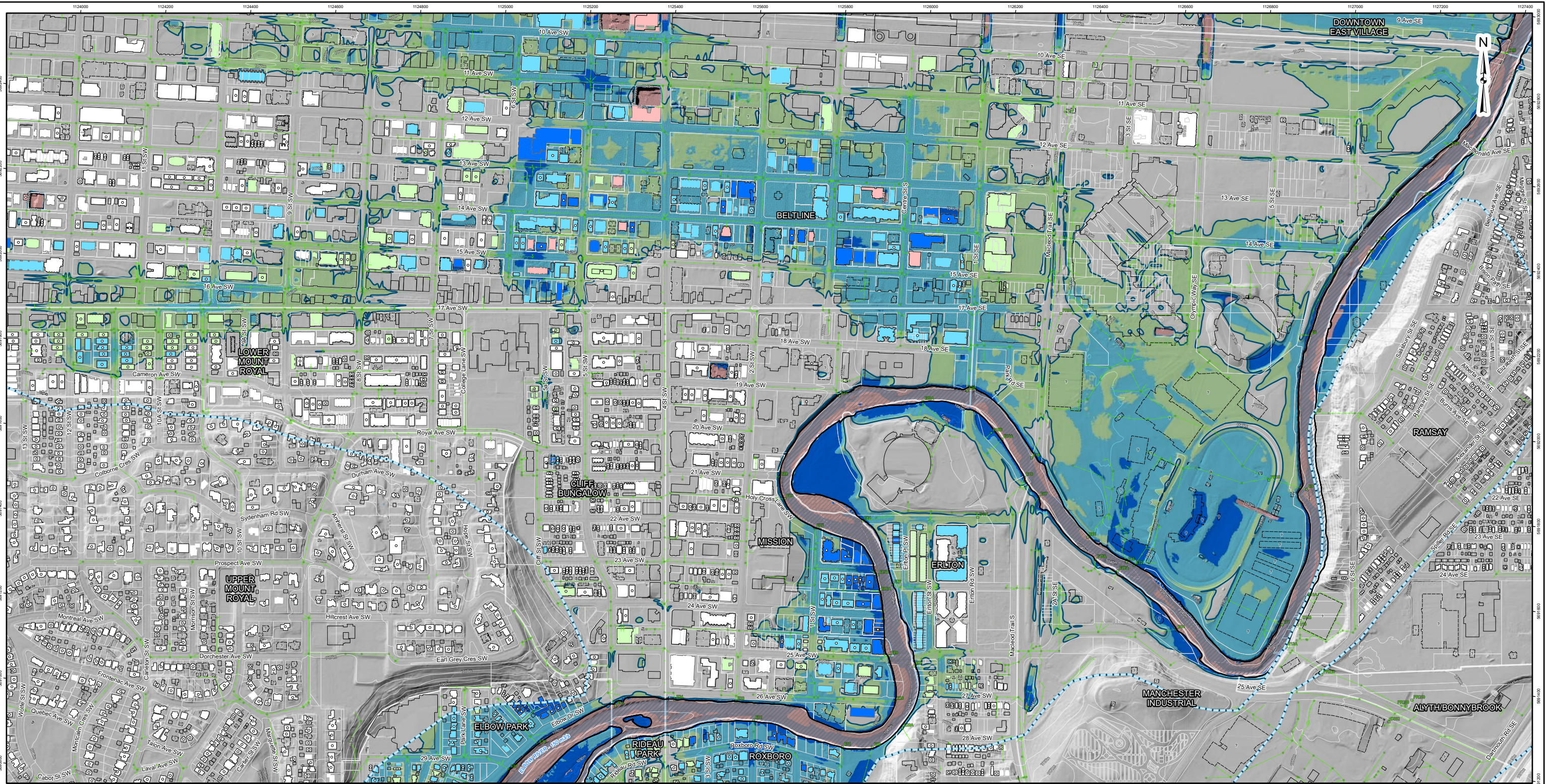
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:9,000 DATE 8/18/2026 AUTHOR TDaSilva

0 50 100 Meters





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody
- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface

Flood Inundation Area (100-Year)

- Directly Flooded

NOTES

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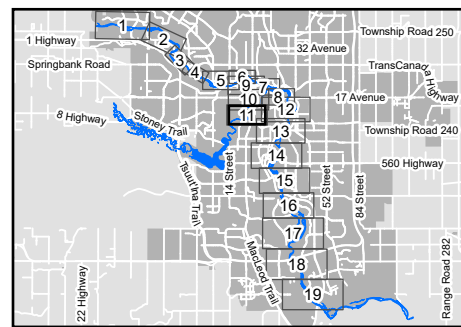
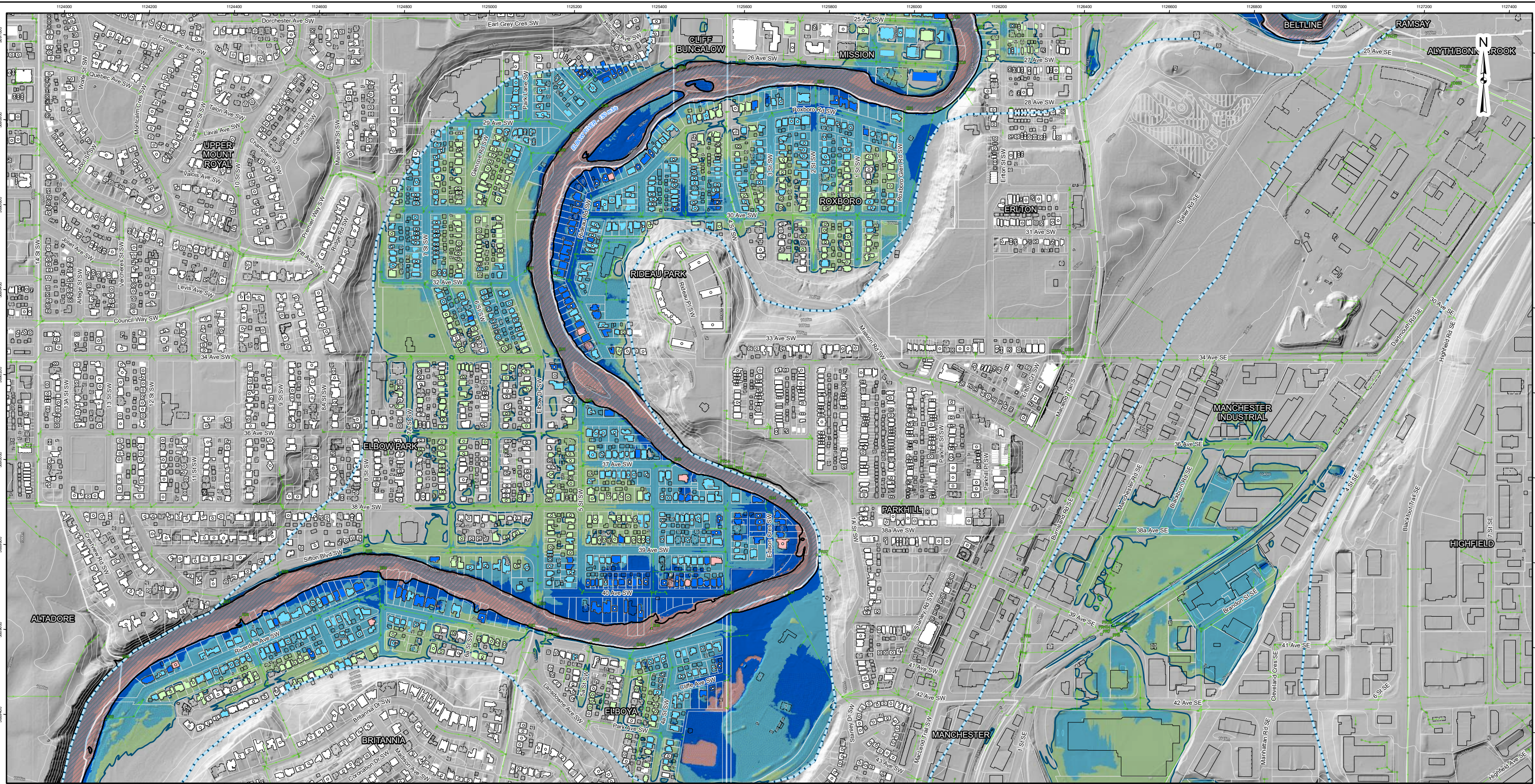
FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
10 - BELTLINE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:9,000 DATE 8/18/2026 AUTHOR TDaSilva





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody
- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface

Flood Inundation Area (100-Year)

- Directly Flooded

NOTES

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FIGURE 3.6

GROUNDWATER DEPTH & BUILDING RISK FACTORS (CALIBRATED) - 1 IN 100 YEAR FLOOD 11 - LOWER ELBOW

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

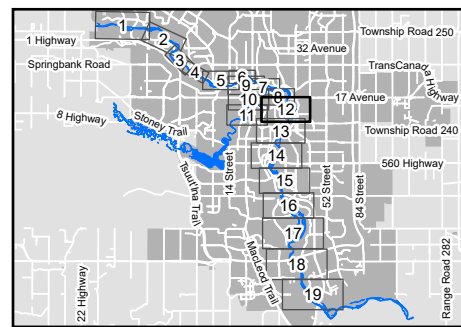
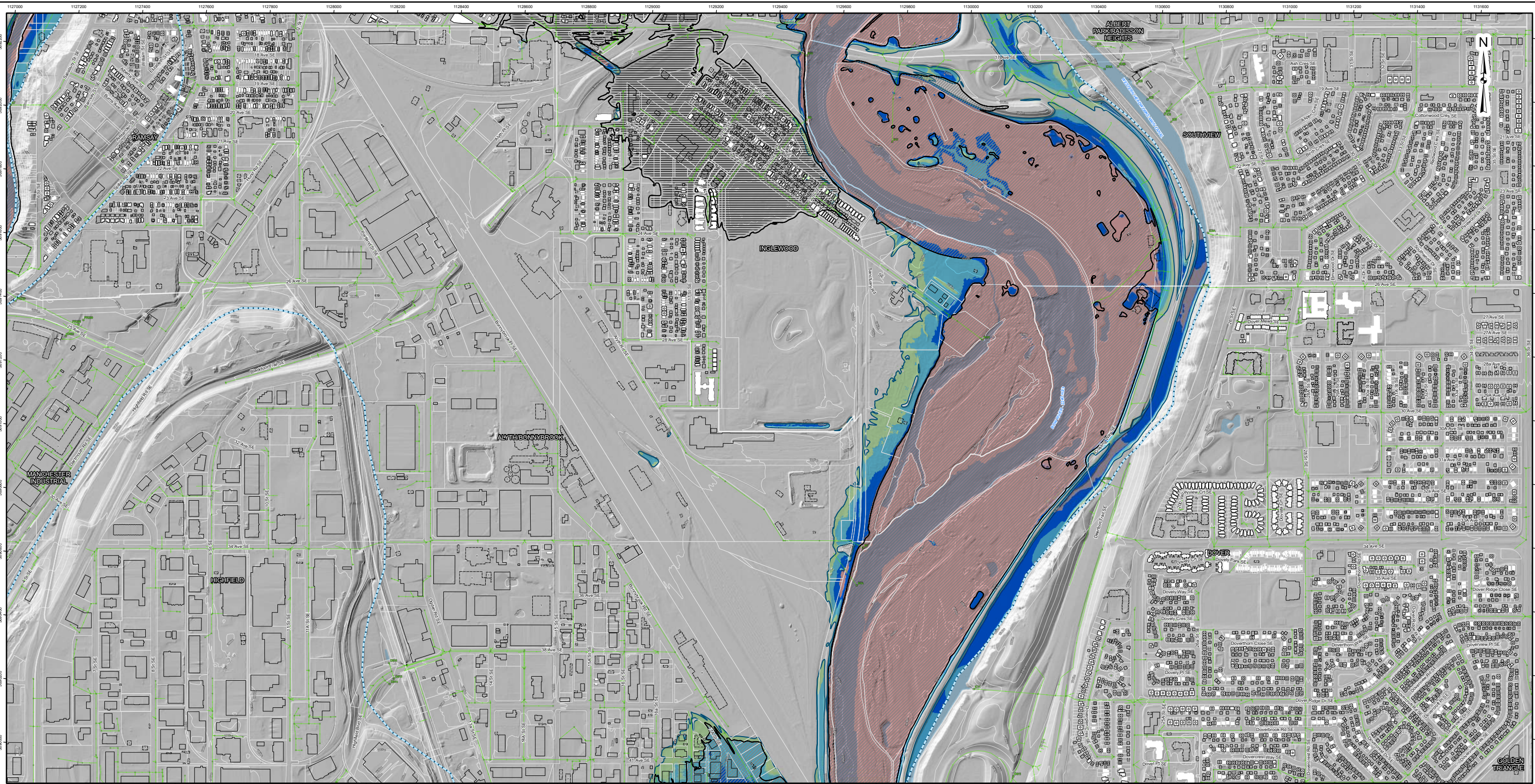
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DATE 8/18/2026

AUTHOR TDaSilva

0 50 100
Meters





LEGEND

- Building Footprint
- Pre-1990 Building Construction
- Below Grade Space
- Building Information Missing
- Non-Residential Building / Building Outside Scope
- Parcel
- Community District
- Alluvial Aquifer / Model Domain
- Waterbody

- Manhole
- Outfall
- Storm Network
- 3m Depth Threshold
- Flood Control Structure
- Sunnyside Seepage Collection
- Contours - 5m

Estimated Depth to Groundwater

- Below 3m
- 3m to 2.4m
- 2.4m to 1.2m
- 0m to 1.2m
- Above Ground Surface

Flood Inundation Area (100-Year)

- Directly Flooded
- Protected by Flood Berm

NOTES

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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
12 - INGLEWOOD - BONNYBROOK

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

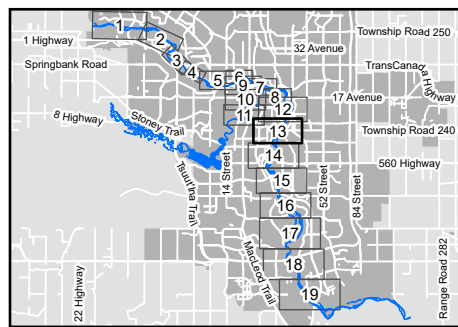
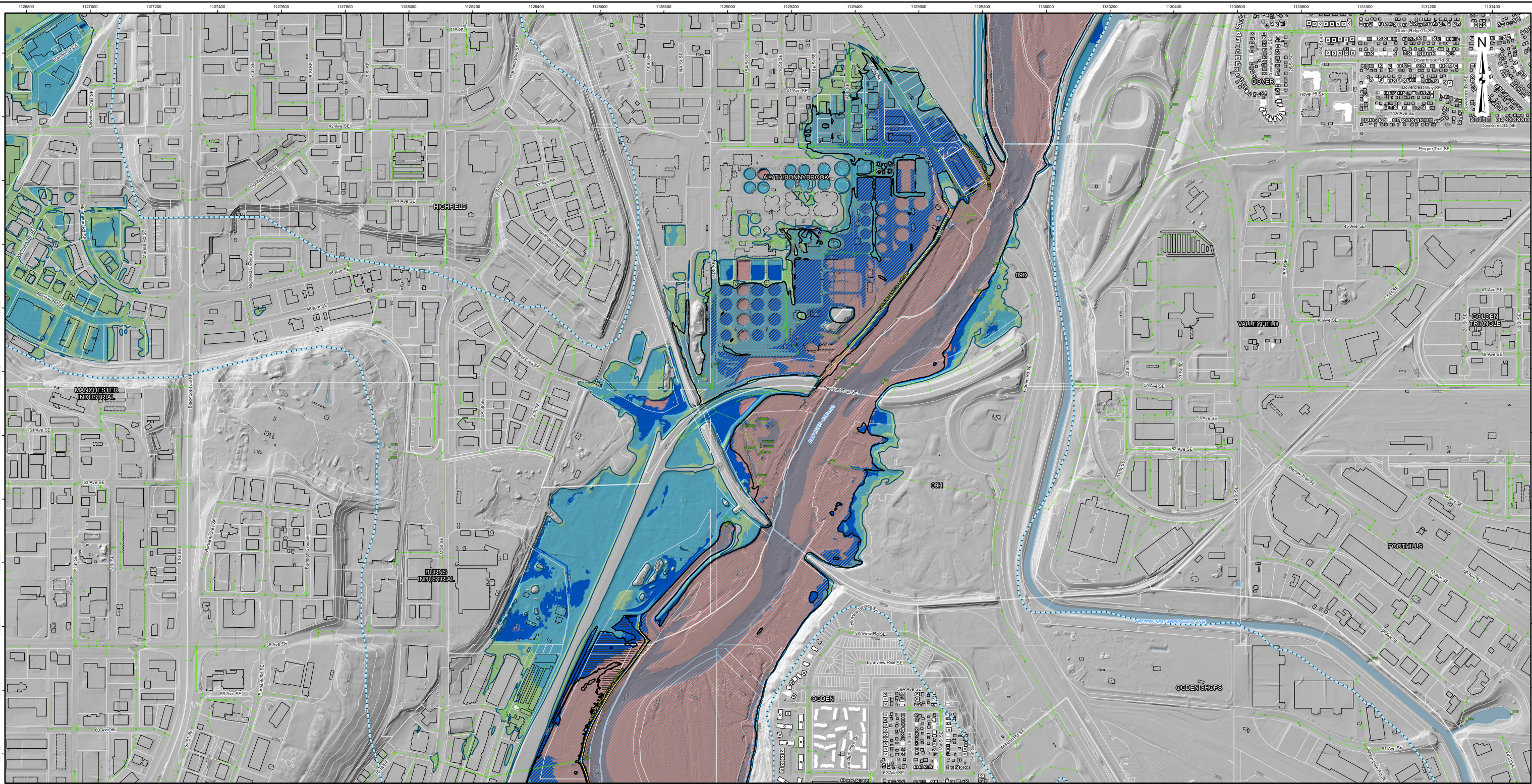
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Meters

SCALE 1:12,000

DATE 8/18/2026

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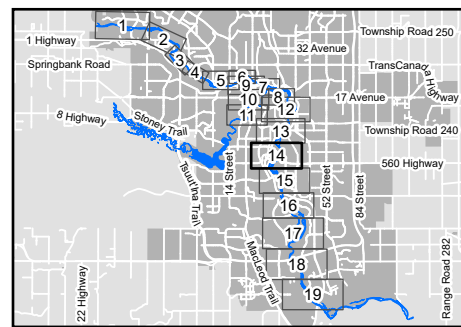
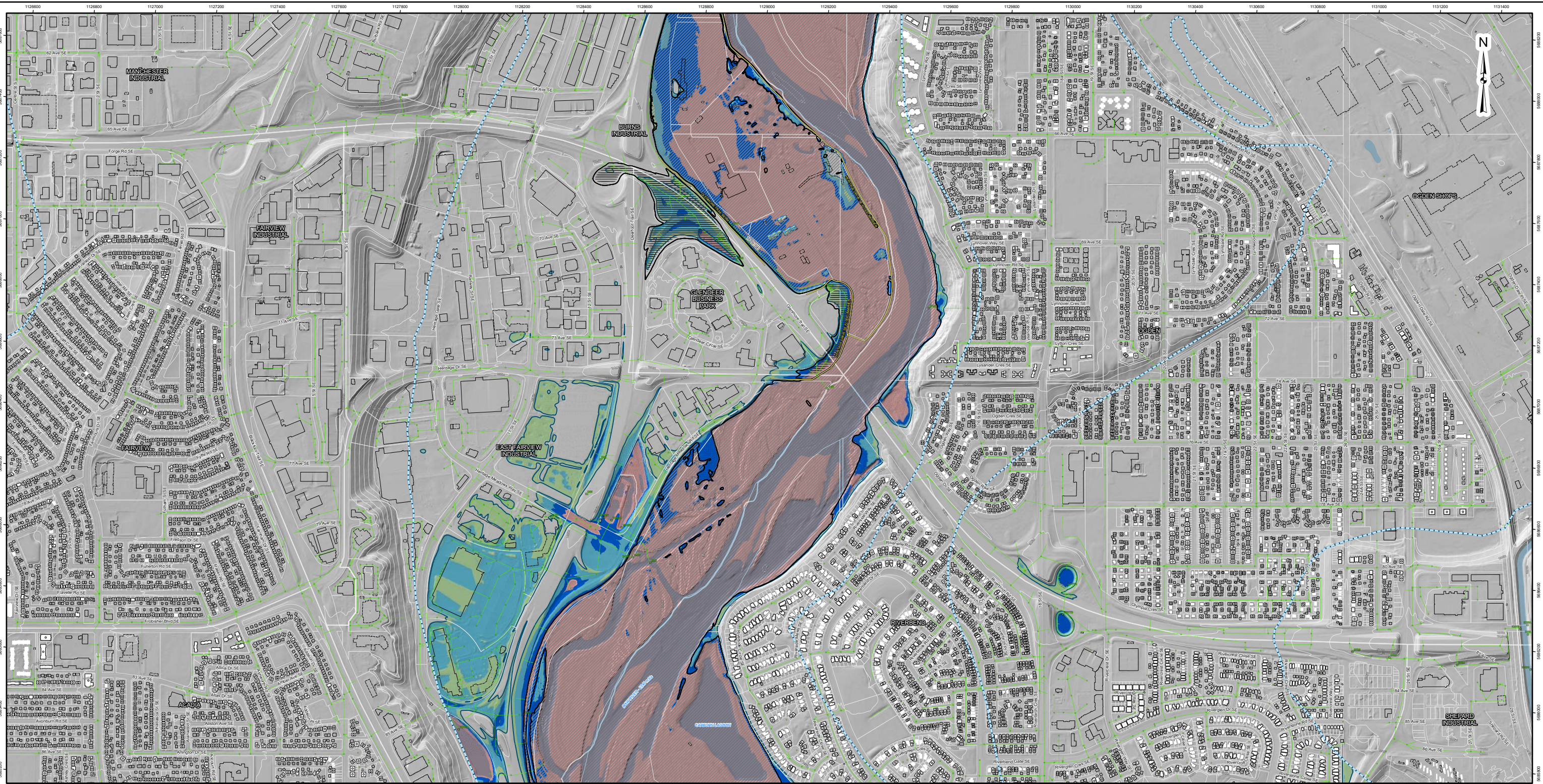
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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
13 - BONNYBROOK

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:12,000
DATE 8/18/2026
AUTHOR TDaSilva





LEGEND

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FIGURE 3.6

GROUNDWATER DEPTH & BUILDING RISK FACTORS (CALIBRATED) - 1 IN 100 YEAR FLOOD 14 - DEERFOOT MEADOWS

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

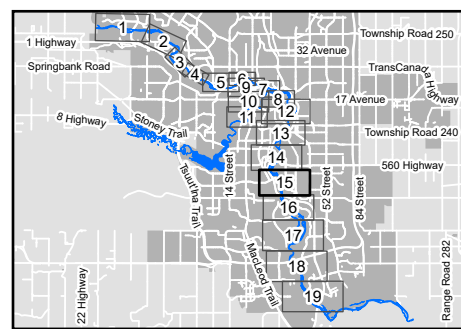
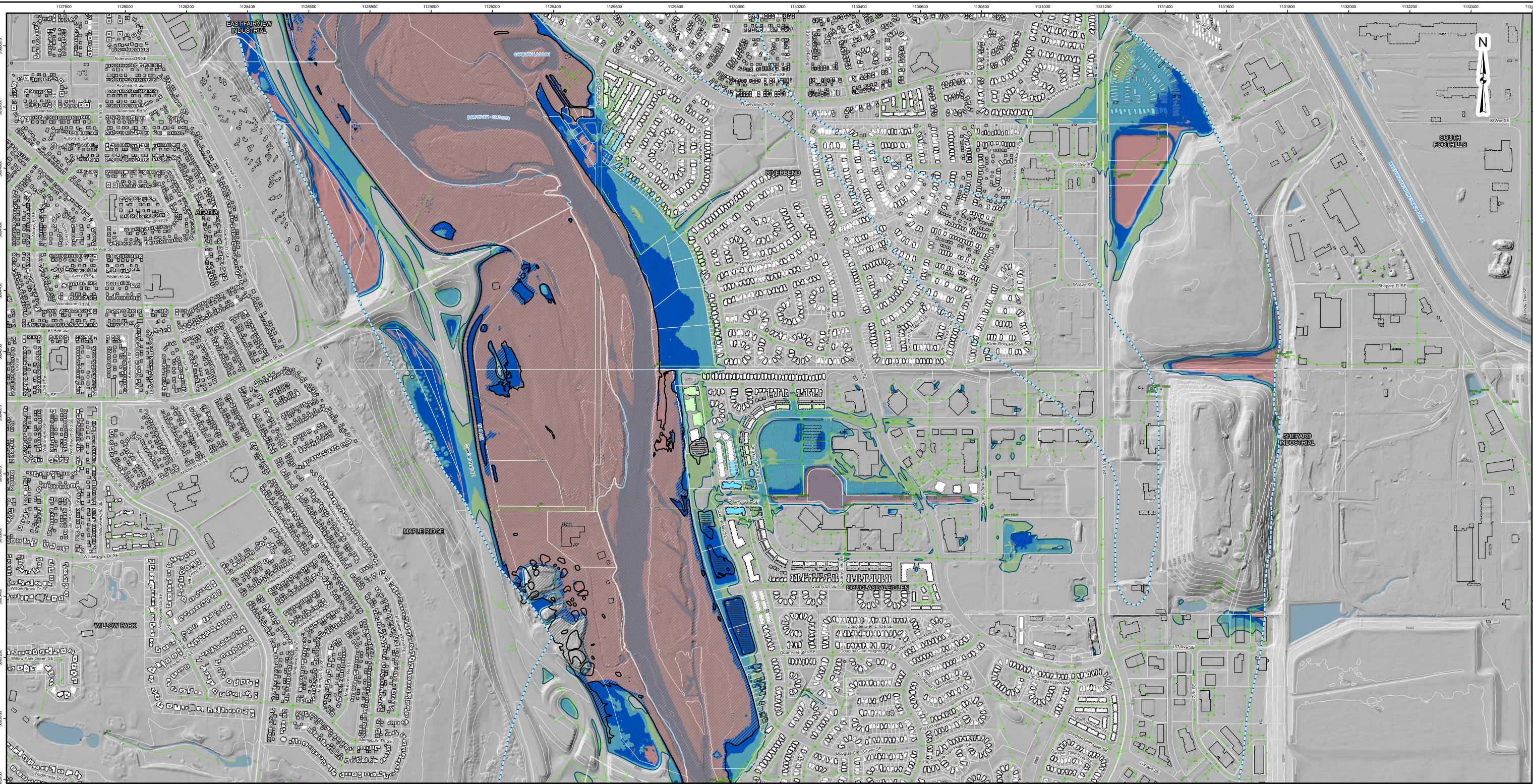
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Meters

SCALE 1:12,500

DATE 8/18/2026

AUTHOR TDaSilva





LEGEND

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- Below Grade Space
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FIGURE 3.6

GROUNDWATER DEPTH & BUILDING RISK FACTORS (CALIBRATED) - 1 IN 100 YEAR FLOOD 15 - RIVERBEND / QUARRY PARK

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION

NAD 1983 CSRS 3TM 114

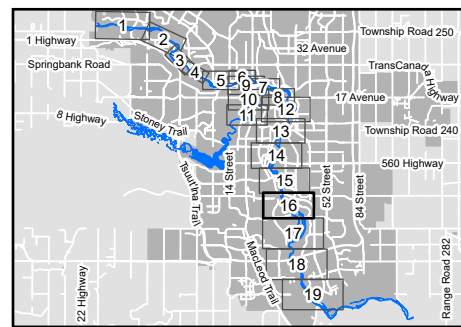
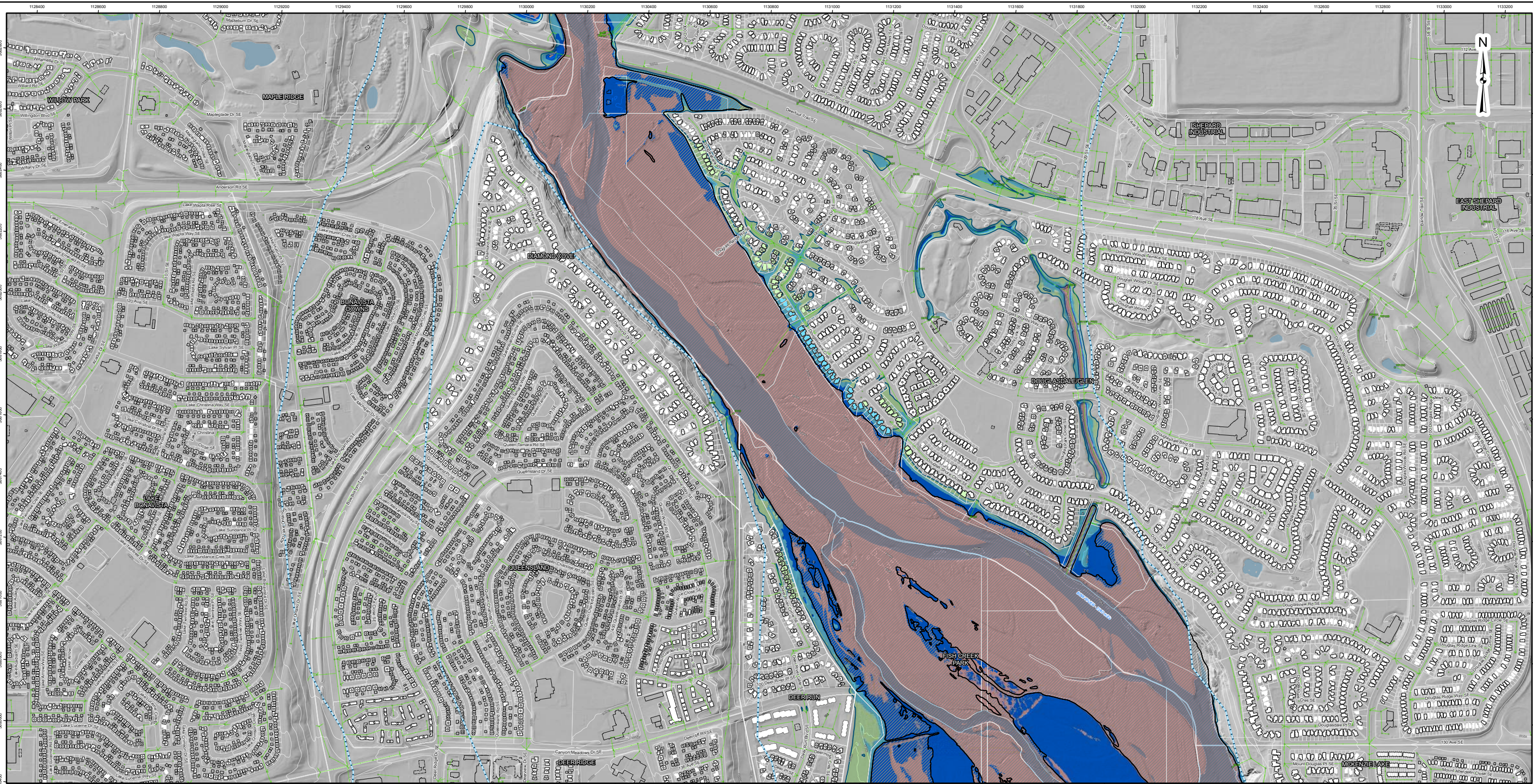
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SCALE 1:12,500

DATE 8/18/2026

AUTHOR TDaSilva





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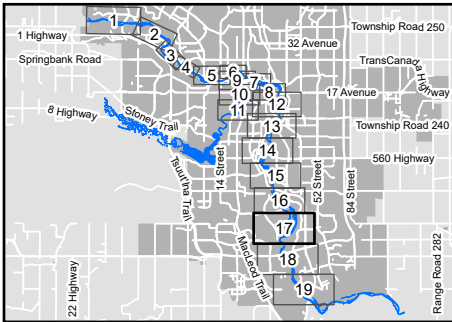
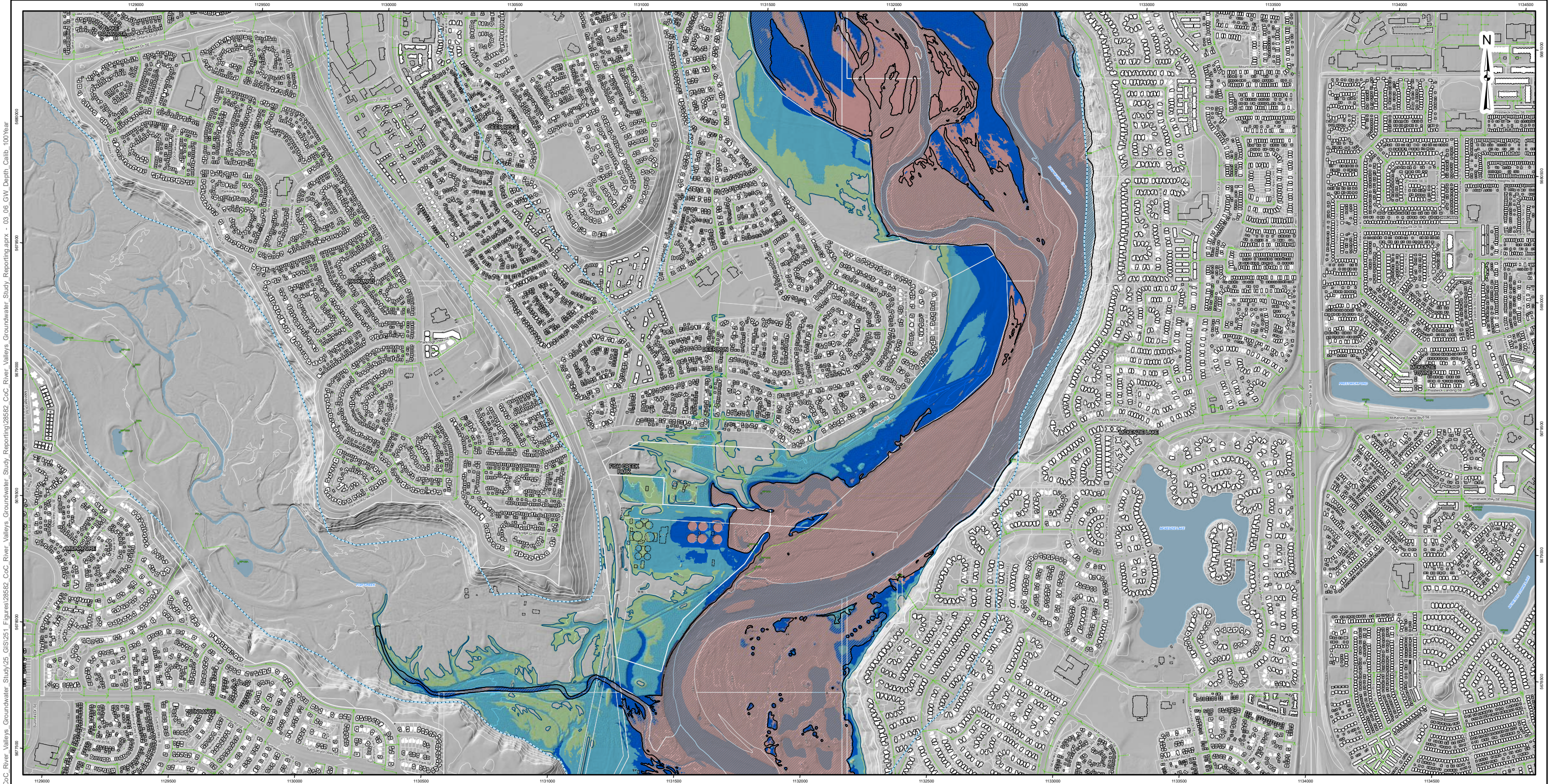
FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
16 - DOUGLASDALE

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

SCALE 1:12,500 DATE 8/18/2026 AUTHOR TDaSilva





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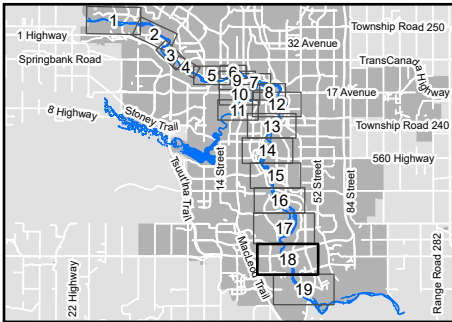
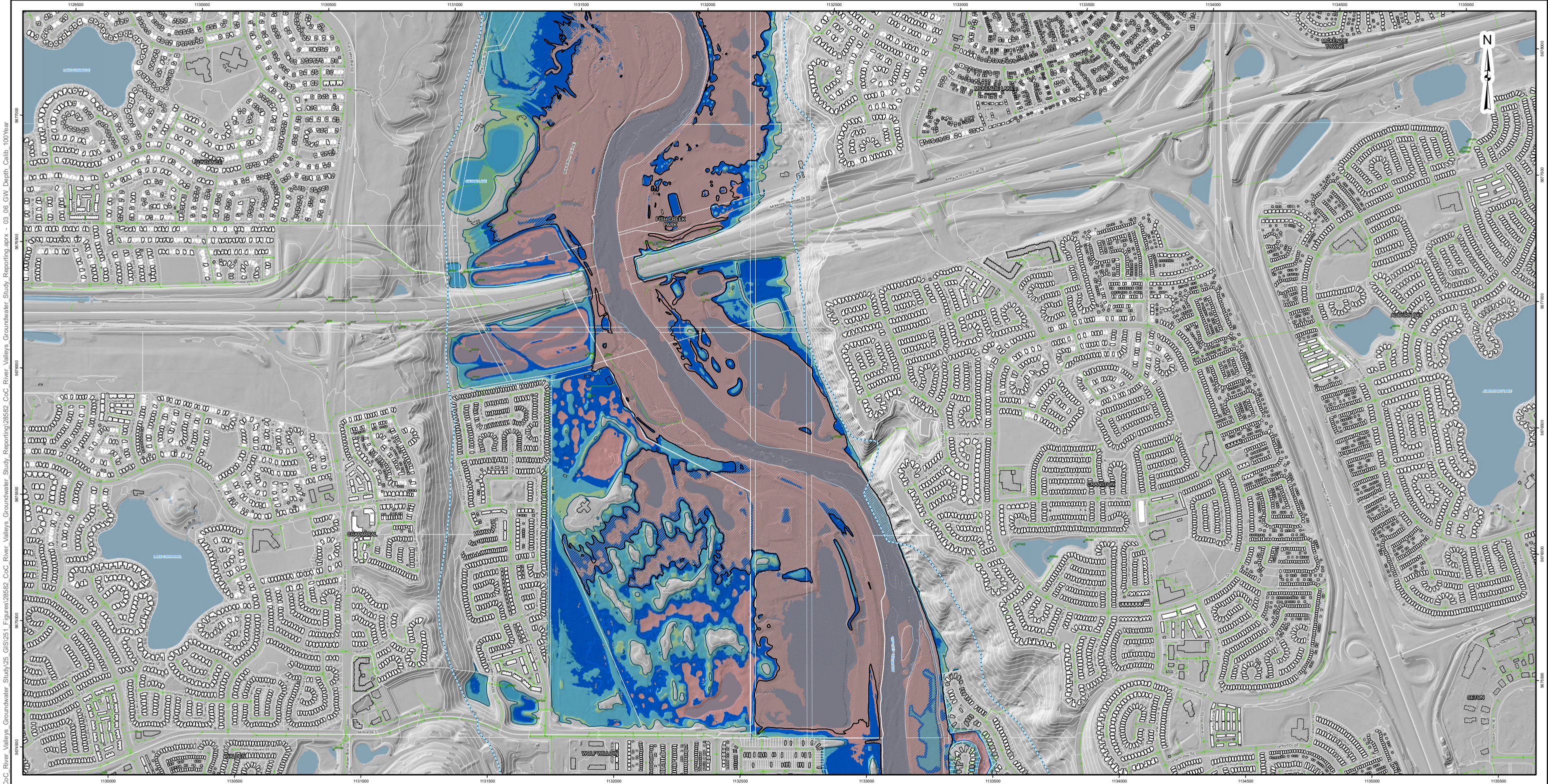
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FIGURE 3.6
GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
17 - FISH CREEK

PROJECT
CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114
SCALE 1:15,000
DATE 8/18/2026
AUTHOR TDaSilva





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FIGURE 3.6

GROUNDWATER DEPTH & BUILDING RISK FACTORS
(CALIBRATED) - 1 IN 100 YEAR FLOOD
18 - SOUTH STONEY TRAIL

PROJECT

CALGARY RIVER VALLEYS GROUNDWATER STUDY

PROJECTION
NAD 1983 CSRS 3TM 114

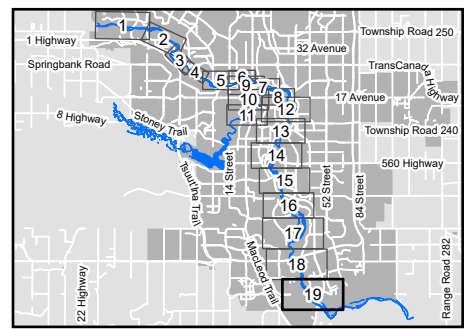
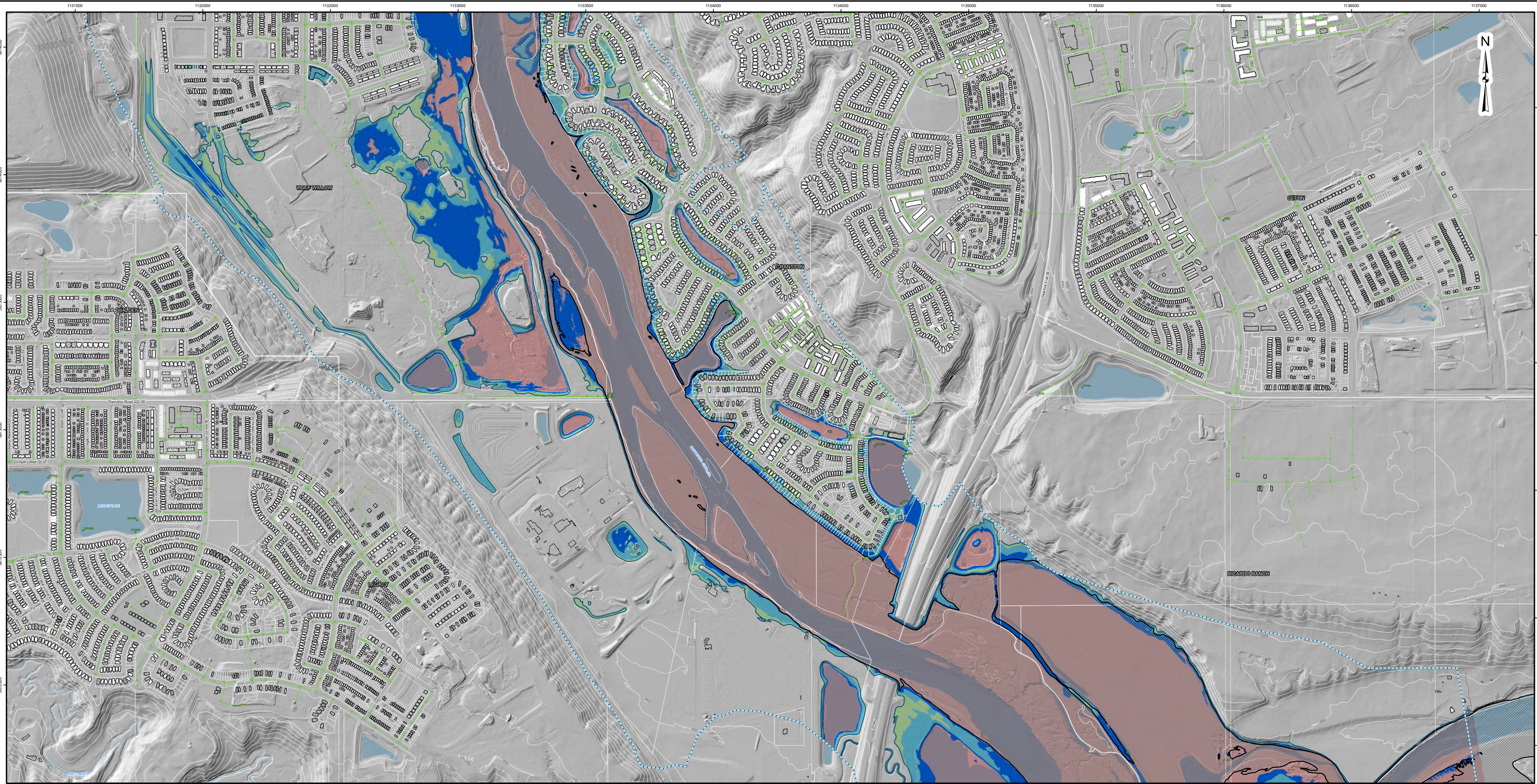
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SCALE 1:15,000

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(CALIBRATED) - 1 IN 100 YEAR FLOOD
19 - PINE CREEK / CRANSTON

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SCALE 1:15,000
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