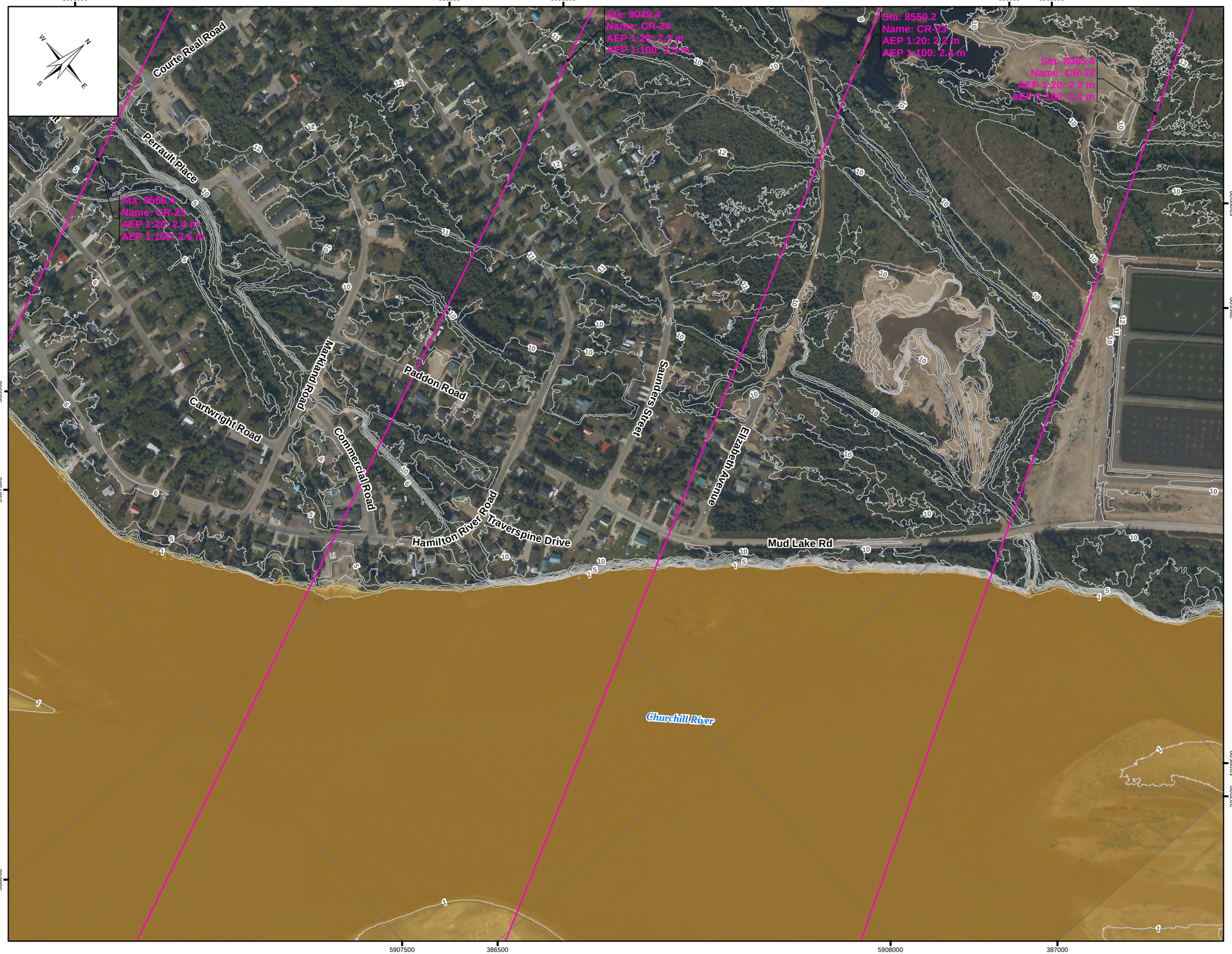
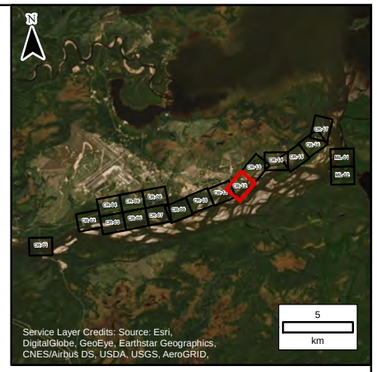
Portions of data Produced by KGS Group, under Licence with the Government of Canada © 2020
Her Majesty the Queen in Right of Canada, Department of Natural Resources. All rights reserved.




LEGEND:

- Sta: 23648 / Name: CR-53 / AEP 1:20: 4.2 m / AEP 1:100: 4.5 m — Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone
- Building Affected By 100 Year Open Water Flood Zone (Current Climate, Current Development)
- Building Affected By 20 & 100 Year Open Water Flood Zone (Current Climate, Current Development)

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.
3. Preliminary building database provided by WRMD on July 25, 2017. Some buildings shown in the aerial imagery are not included in the building database.

50 0 50 100 150 200
Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified. Horzontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

| NO. | YY/MM/DD | DESCRIPTION | ISSUED BY | CHECK BY |
|---|---|---|---|---|
| 0 | 20/06/30 | ISSUED AS FINAL | DSB | MSW |

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

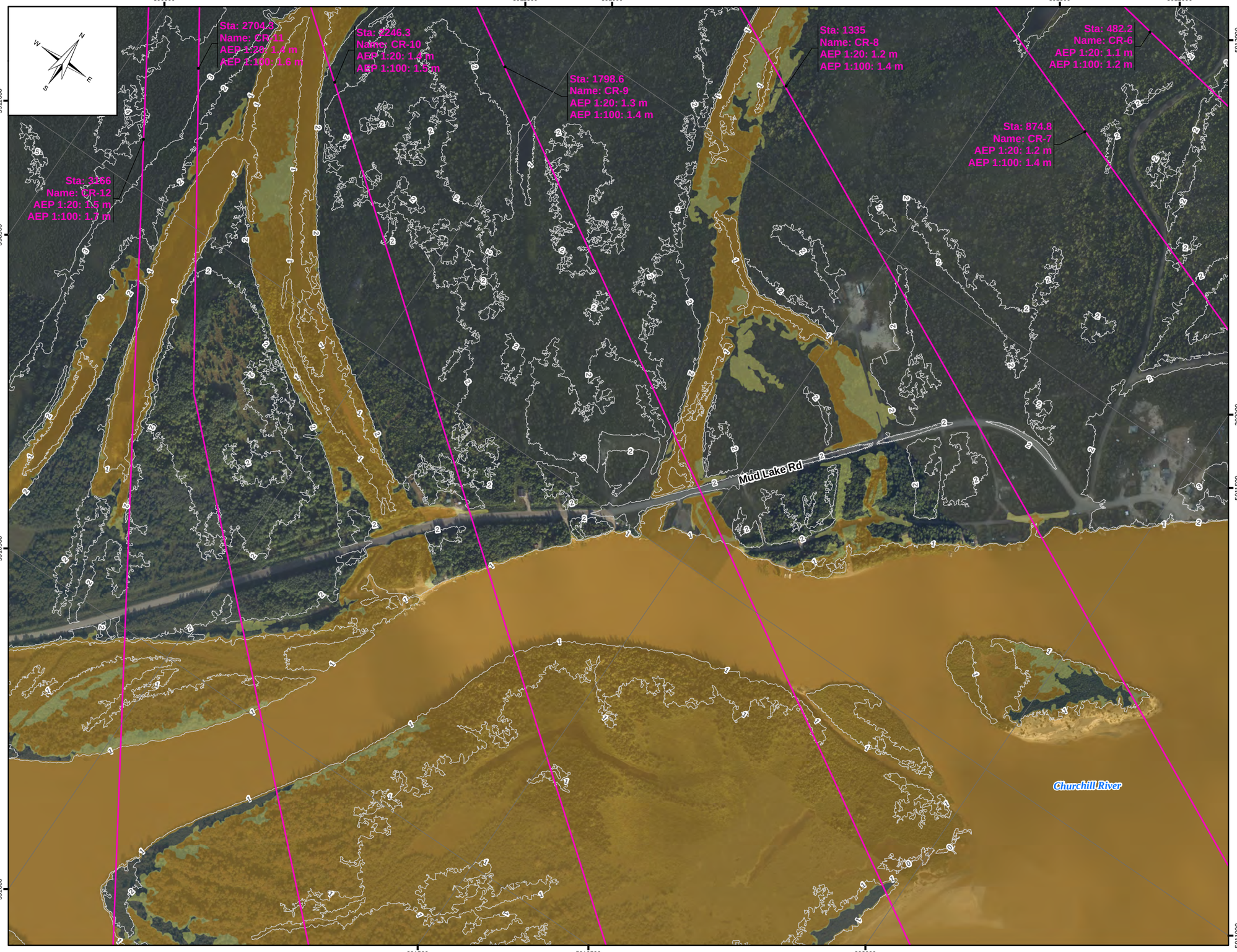
CHURCHILL RIVER FLOOD RISK AND FORECASTING

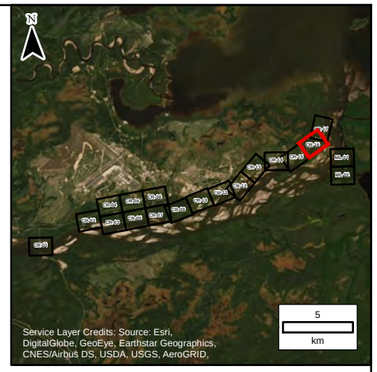
BUILDINGS IMPACTED BY OPEN WATER FLOOD ZONE (CC–CD)
CR–12

JUNE 2020 | FIGURE 03 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flooded_Infrastructure\18-3217-001_Fig03_11x17.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Government of Canada © 2020
Her Majesty the Queen in Right of Canada, Department of Natural Resources. All rights reserved.




LEGEND:

- Sta: 23648 Name: CR-53 AEP 1:20: 4.2 m AEP 1:100: 4.5 m — Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone
- Building Affected By 100 Year Open Water Flood Zone (Current Climate, Current Development)
- Building Affected By 20 & 100 Year Open Water Flood Zone (Current Climate, Current Development)

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.
3. Preliminary building database provided by WRMD on July 25, 2017. Some buildings shown in the aerial imagery are not included in the building database.

50 0 50 100 150 200
Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified. Horzontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

| NO. | YY/MM/DD | DESCRIPTION | ISSUED BY | CHECK BY |
|---|---|---|---|---|
| 0 | 20/06/30 | ISSUED AS FINAL | DSB | MSW |

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

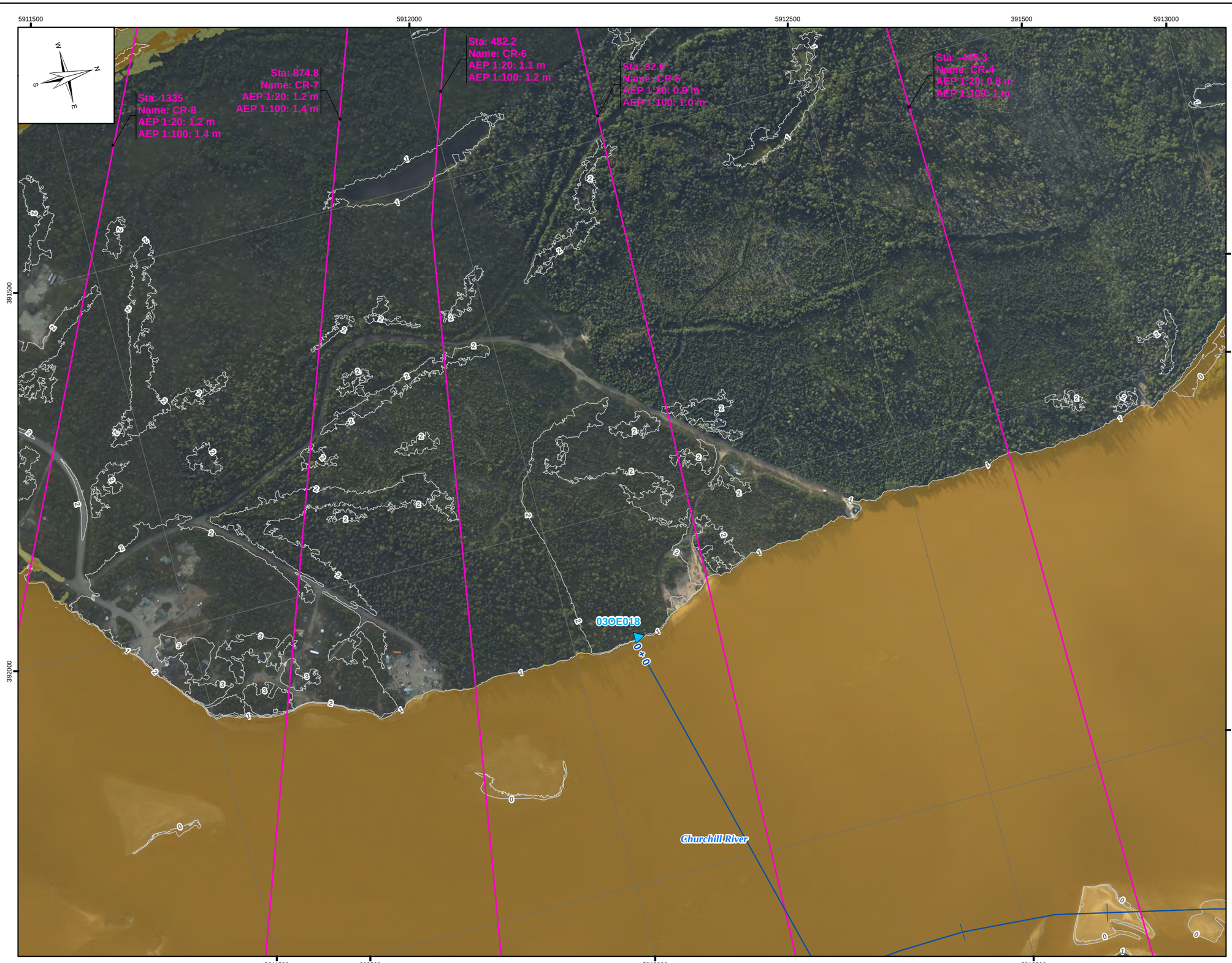
CHURCHILL RIVER FLOOD RISK AND FORECASTING

BUILDINGS IMPACTED BY OPEN WATER FLOOD ZONE (CC–CD) CR–16

JUNE 2020 | FIGURE 03 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flooded_Infrastructure\18-3217-001_Fig03_11x17.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Government of Canada © 2020
Her Majesty the Queen in Right of Canada, Department of Natural Resources. All rights reserved.



LEGEND:

- Sta: 23648 Name: CR-53 AEP 1:20: 4.2 m AEP 1:100: 4.5 m — Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone
- Building Affected By 100 Year Open Water Flood Zone (Current Climate, Current Development)
- Building Affected By 20 & 100 Year Open Water Flood Zone (Current Climate, Current Development)

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.
3. Preliminary building database provided by WRMD on July 25, 2017. Some buildings shown in the aerial imagery are not included in the building database.

50 0 50 100 150 200
Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified. Horzontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

| NO. | YY/MM/DD | DESCRIPTION | ISSUED BY | CHECK BY |
|---|---|---|---|---|
| 0 | 20/06/30 | ISSUED AS FINAL | DSB | MSW |

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

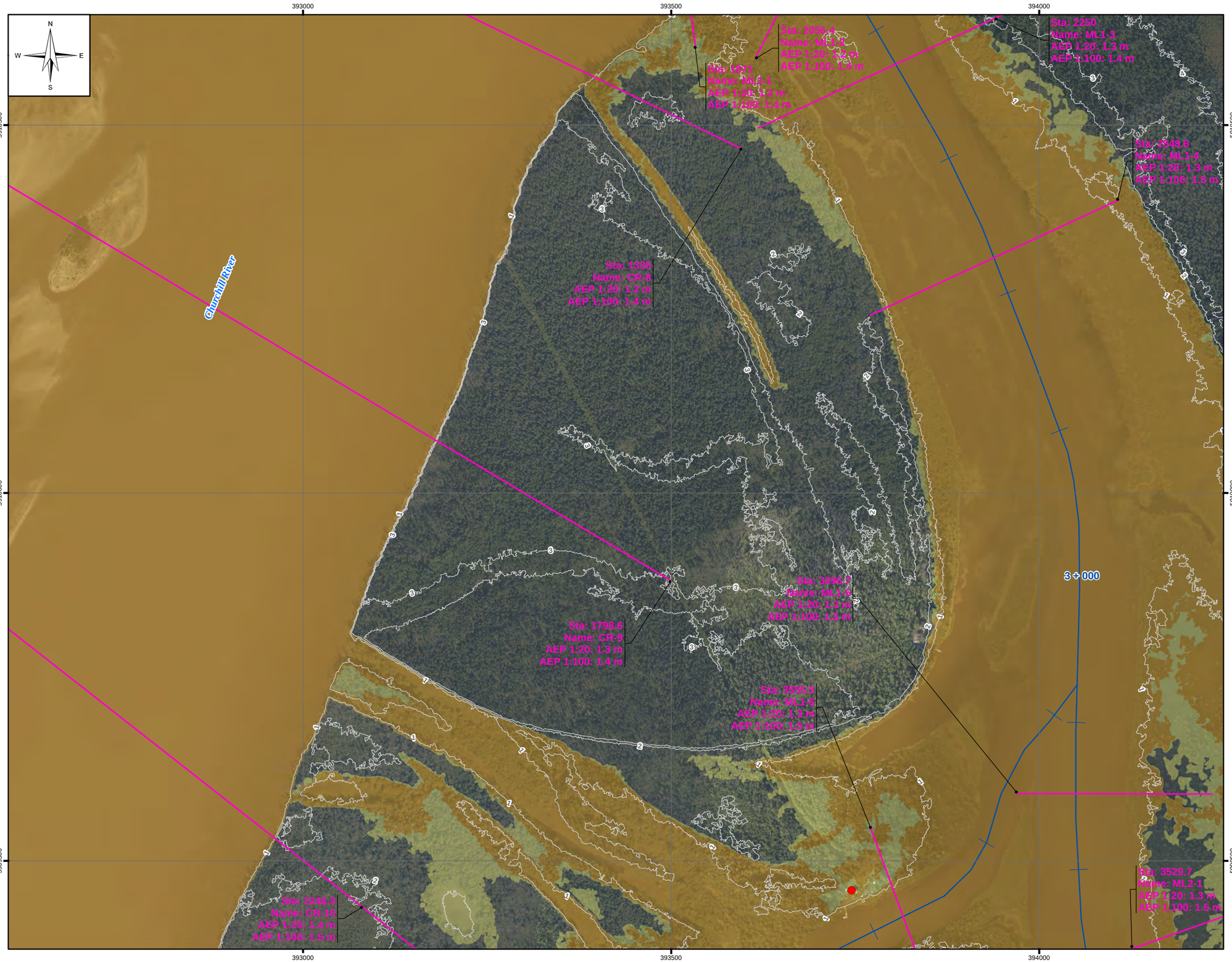
CHURCHILL RIVER FLOOD RISK AND FORECASTING

BUILDINGS IMPACTED BY OPEN WATER FLOOD ZONE (CC–CD)
CR–17

JUNE 2020 | FIGURE 03 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flooded_Infrastructure\18-3217-001_Fig03_11x17.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Government of Canada © 2020
Her Majesty the Queen in Right of Canada, Department of Natural Resources. All rights reserved.



LEGEND:

- Sta: 23648 / Name: CR-53 / AEP 1:20: 4.2 m / AEP 1:100: 4.5 m — Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone
- Building Affected By 100 Year Open Water Flood Zone (Current Climate, Current Development)
- Building Affected By 20 & 100 Year Open Water Flood Zone (Current Climate, Current Development)

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.
3. Preliminary building database provided by WRMD on July 25, 2017. Some buildings shown in the aerial imagery are not included in the building database.

50 0 50 100 150 200
Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified. Horzontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

| NO. | YY/MM/DD | DESCRIPTION | ISSUED BY | CHECK BY |
|---|---|---|---|---|
| 0 | 20/06/30 | ISSUED AS FINAL | DSB | MSW |

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

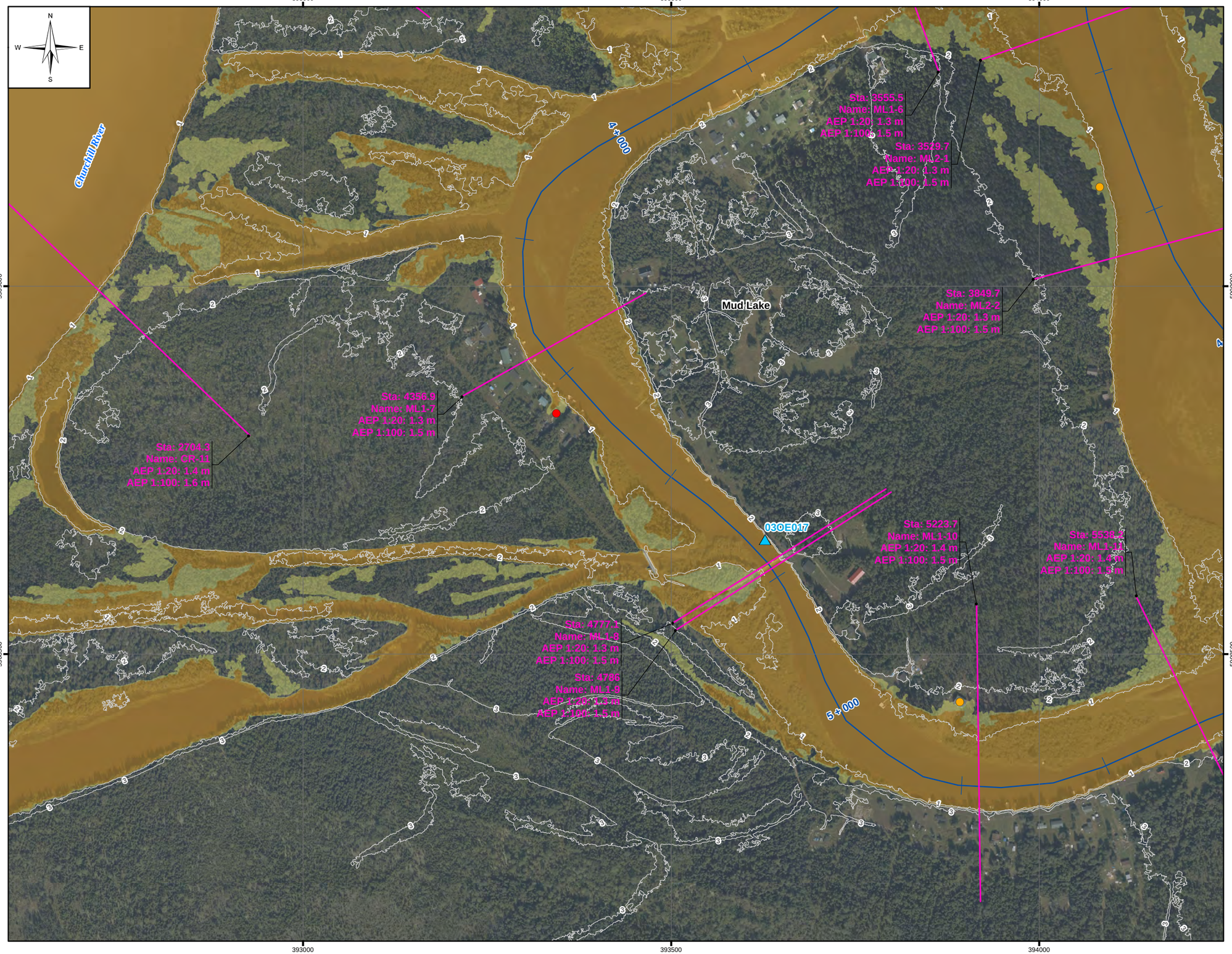
CHURCHILL RIVER FLOOD RISK AND FORECASTING

BUILDINGS IMPACTED BY OPEN WATER FLOOD ZONE (CC–CD)
ML–01

JUNE 2020 | FIGURE 03 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flooded_Infrastructure\18-3217-001_Fig03_11x17.mxd
11"x17" PLOT SCALE 1:1

Portions of data Produced by KGS Group, under Licence with the Government of Canada © 2020
Her Majesty the Queen in Right of Canada, Department of Natural Resources. All rights reserved.



LEGEND:

- Sta: 23648 / Name: CR-53 / AEP 1:20: 4.2 m / AEP 1:100: 4.5 m — Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- 1:20 Year Open Water Flood Zone
- 1:100 Year Open Water Flood Zone
- Building Affected By 100 Year Open Water Flood Zone (Current Climate, Current Development)
- Building Affected By 20 & 100 Year Open Water Flood Zone (Current Climate, Current Development)

NOTES:

1. Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.
3. Preliminary building database provided by WRMD on July 25, 2017. Some buildings shown in the aerial imagery are not included in the building database.

50 0 50 100 150 200
Metres

SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified. Horzontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

| NO. | YY/MM/DD | DESCRIPTION | ISSUED BY | CHECK BY |
|---|---|---|---|---|
| 0 | 20/06/30 | ISSUED AS FINAL | DSB | MSW |

REVISIONS / ISSUE

KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

BUILDINGS IMPACTED BY OPEN WATER FLOOD ZONE (CC–CD) ML–02

JUNE 2020 | FIGURE 03 | REV: 0

FileName: P:\Projects\2018\18-3217-001\Dwg\GIS\MXD\Flooded_Infrastructure\18-3217-001_Fig03_11x17.mxd
11"x17" PLOT SCALE 1:1