

File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.1_Overview_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Water Survey of Canada Gauge Location
- River Centreline
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m
- Map Extents

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019, and by ESRI and DigitalGlobe, WV02 dated June 3, 2015.



SCALE: 1:100,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

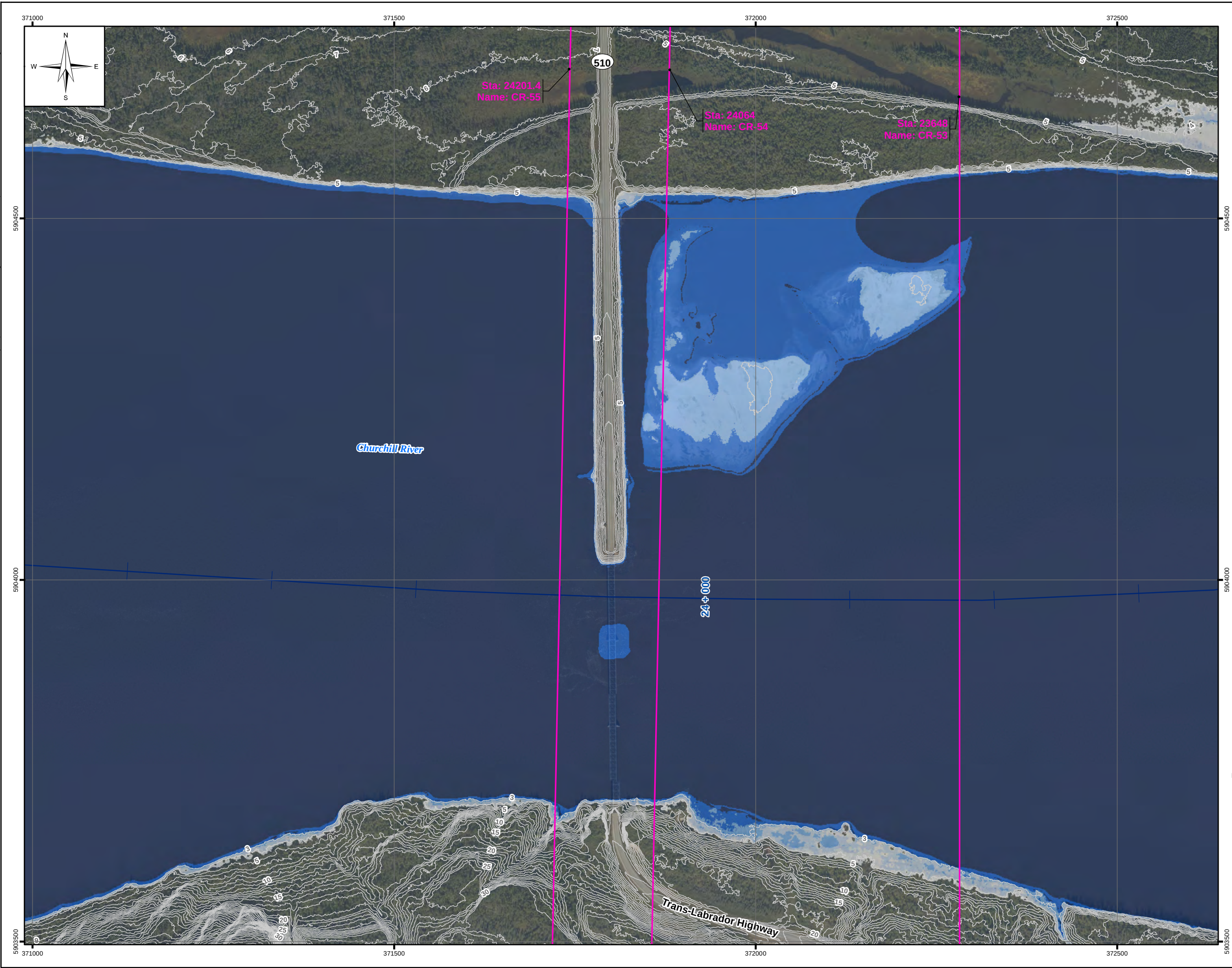
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – OVERVIEW MAP

JUNE 2020	FIGURE 6.1	REV: 0
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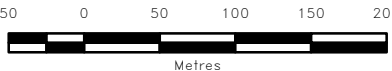


LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

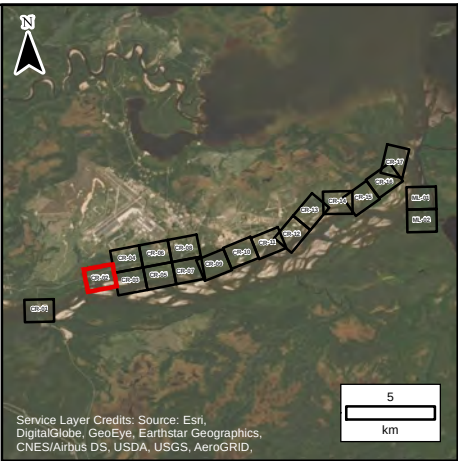
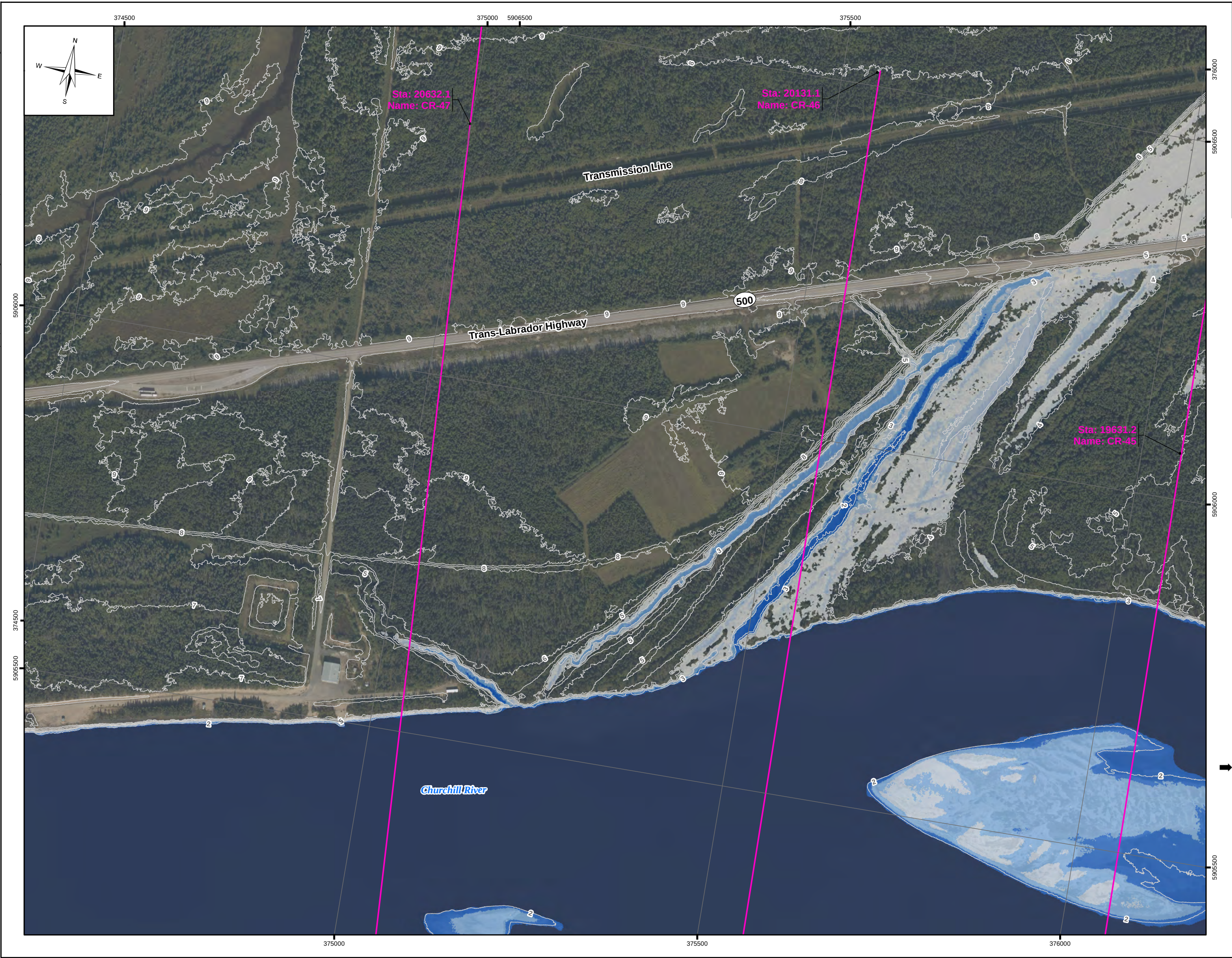
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-01

JUNE 2020	FIGURE 6.1	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

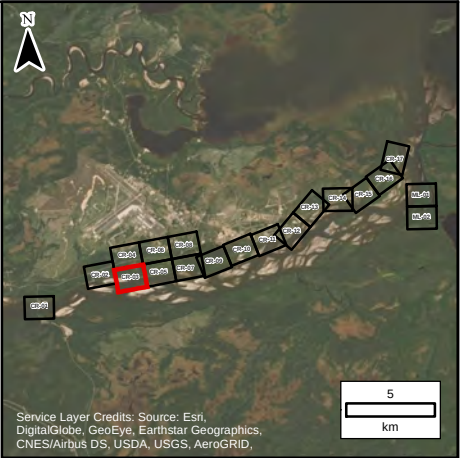
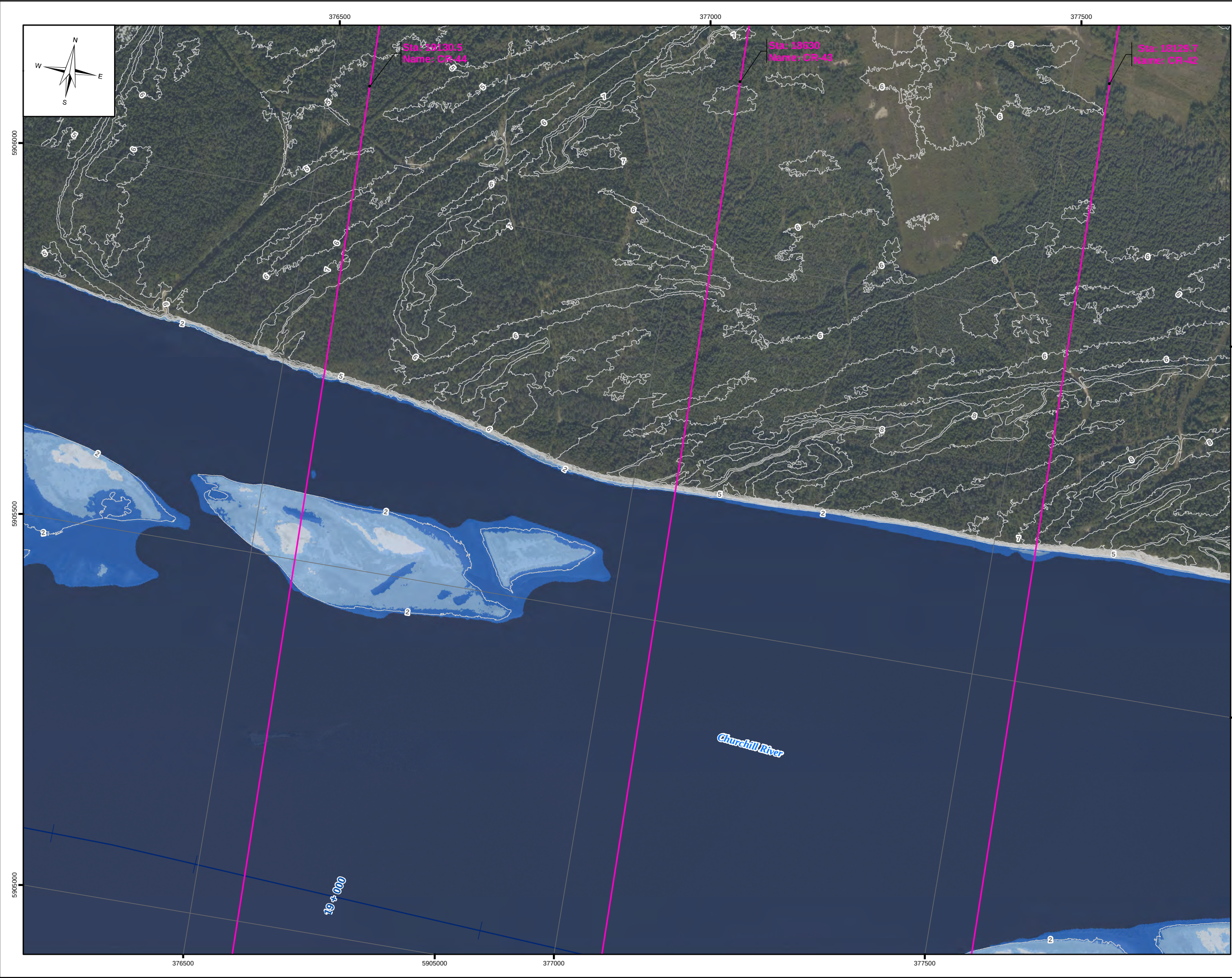
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-02

JUNE 2020	FIGURE 6.1	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



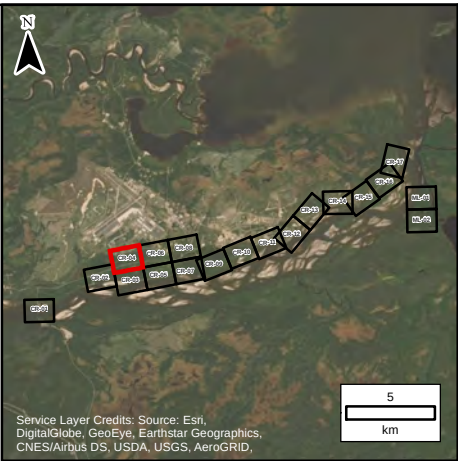
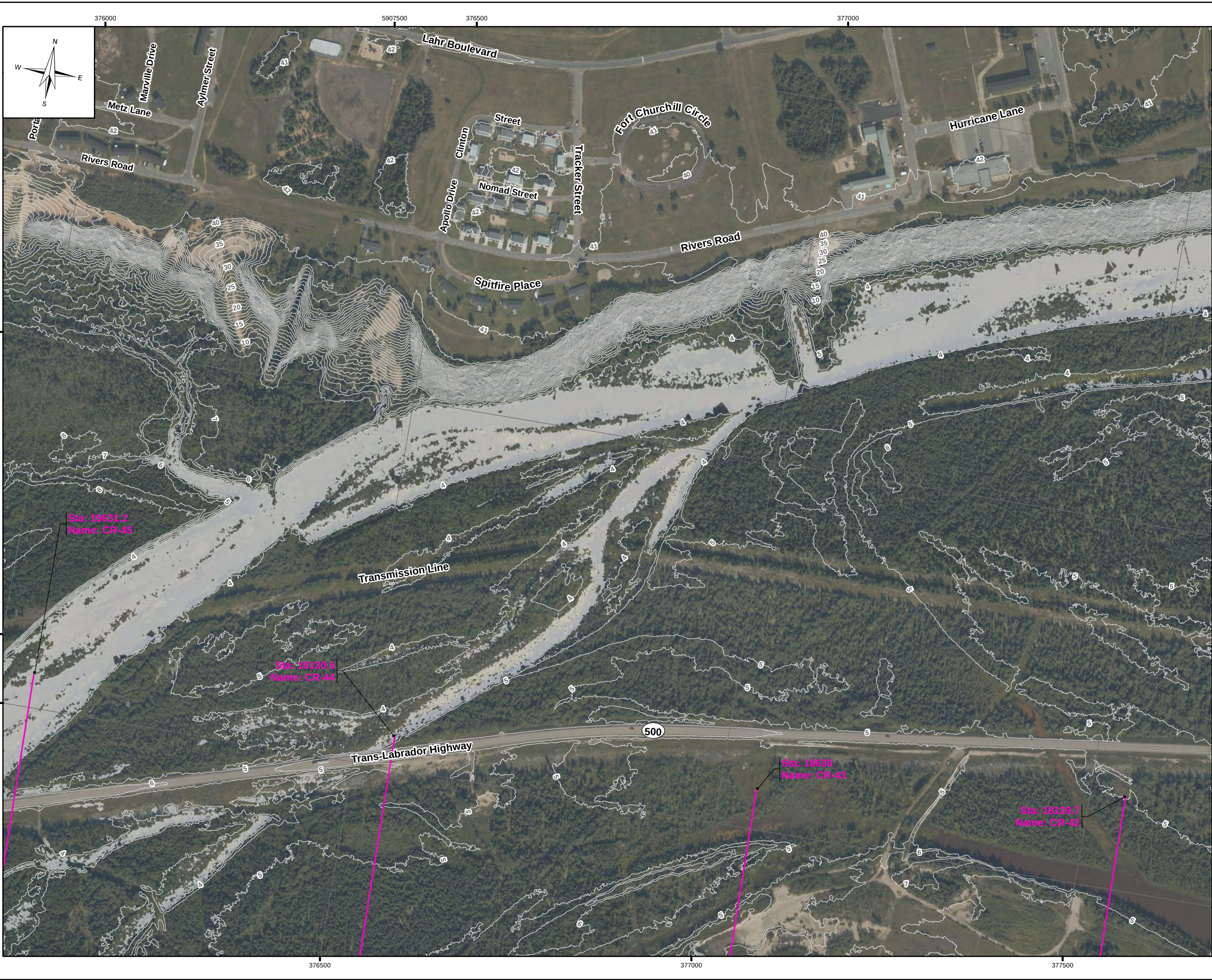
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING		
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-03		
JUNE 2020	FIGURE 6.1	REV: 0

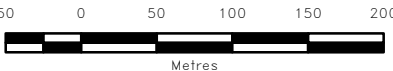


LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LiDAR Contour
- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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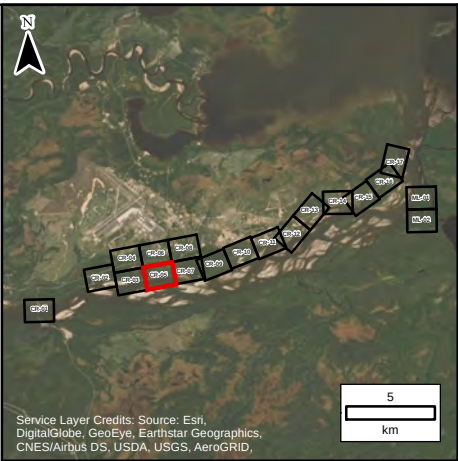
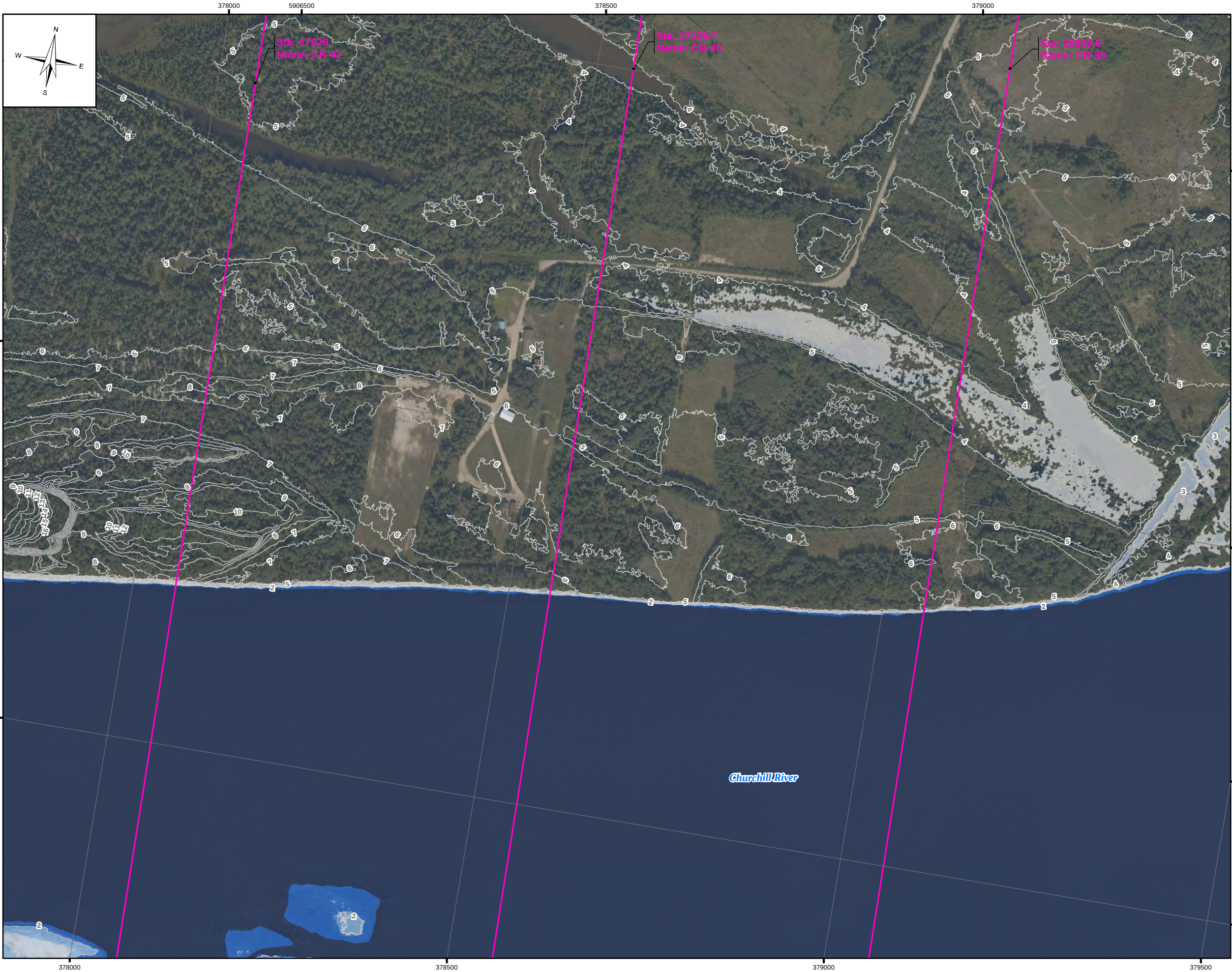
CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-04

JUNE 2020	FIGURE 6.1	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.1_11x17.mxd
11"x17" PLOT SCALE 1:1

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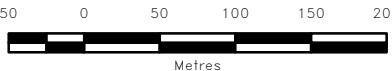
LEGEND:

- Sta: 23648 Name: CR-39 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

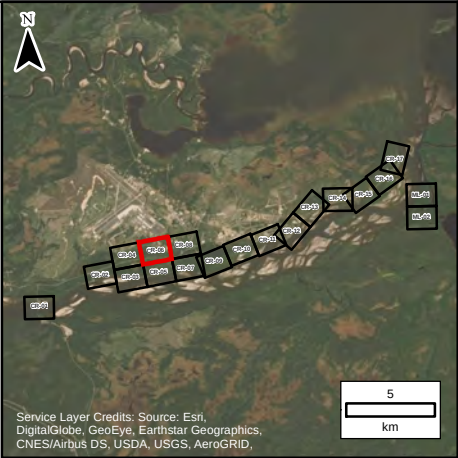
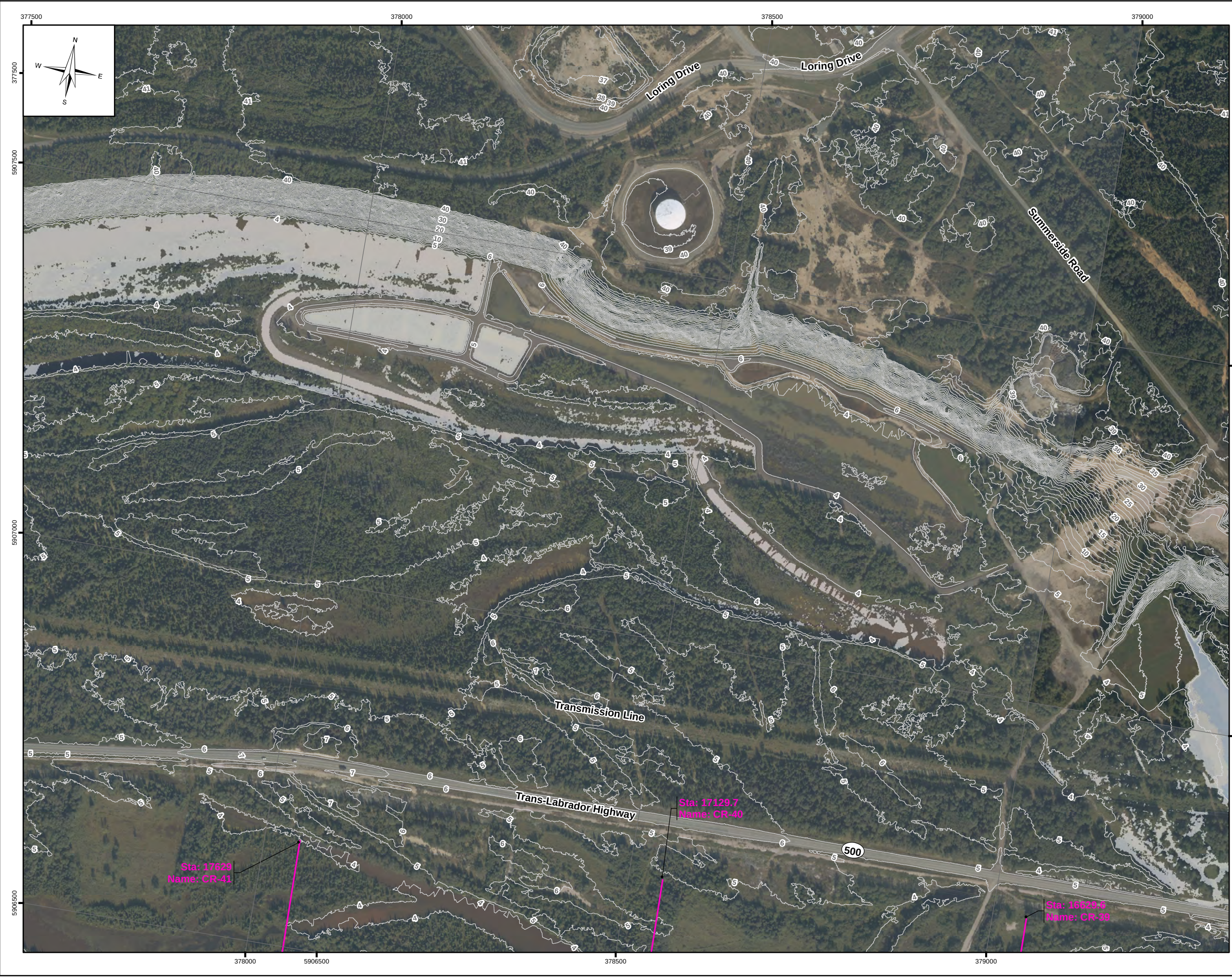
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR
CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-05

JUNE 2020	FIGURE 6.1	REV: 0
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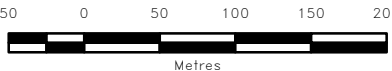


LEGEND:

- Sta: 23648 Name: CR-38
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

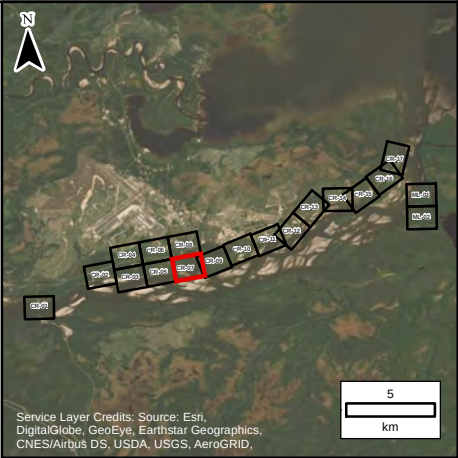
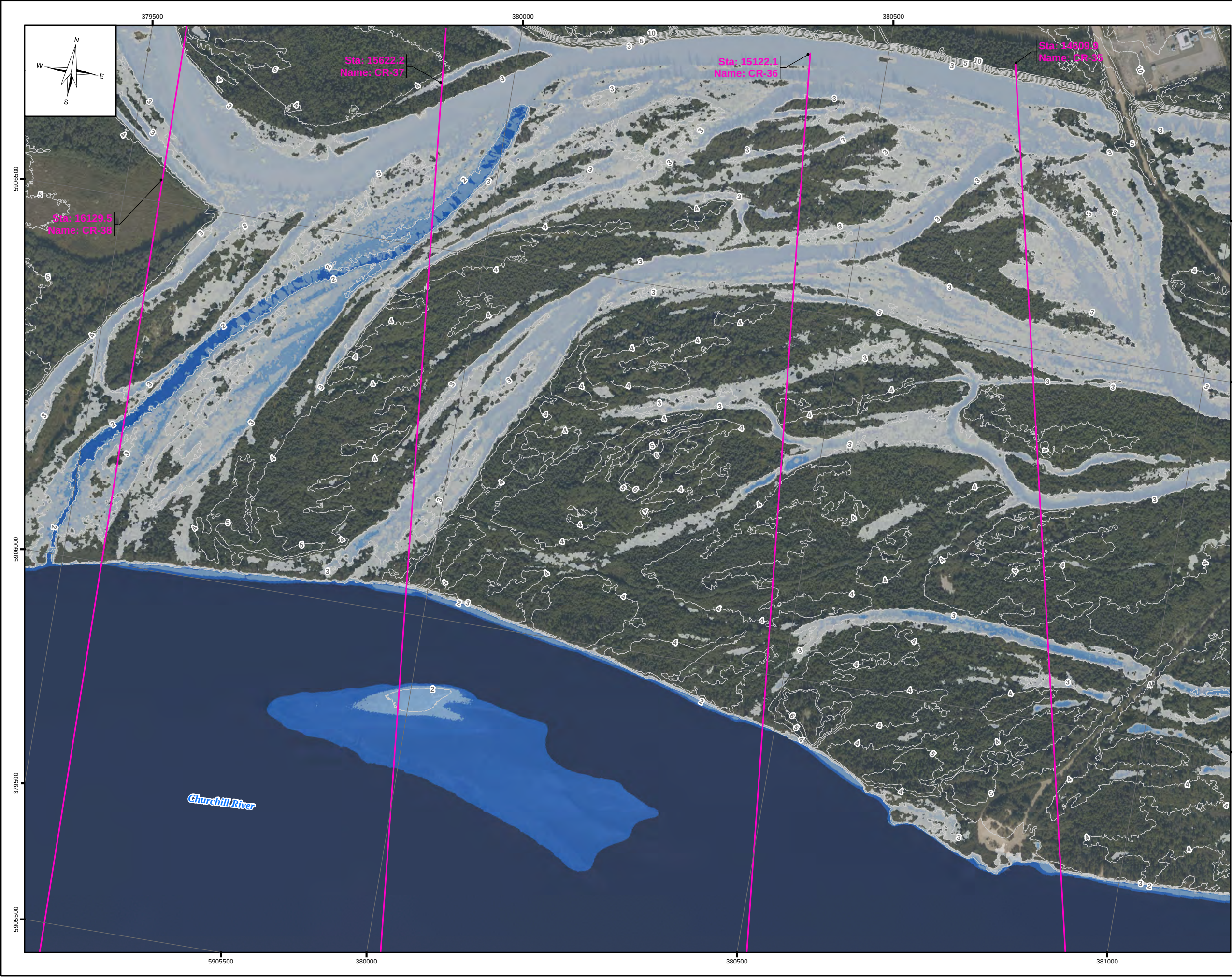
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-06					
JUNE 2020		FIGURE 6.1		REV: 0	



LEGEND:

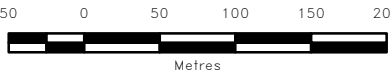
- Sta. 23648 Name: CR-38 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

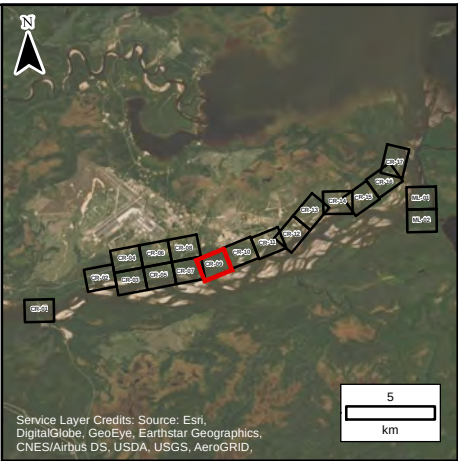
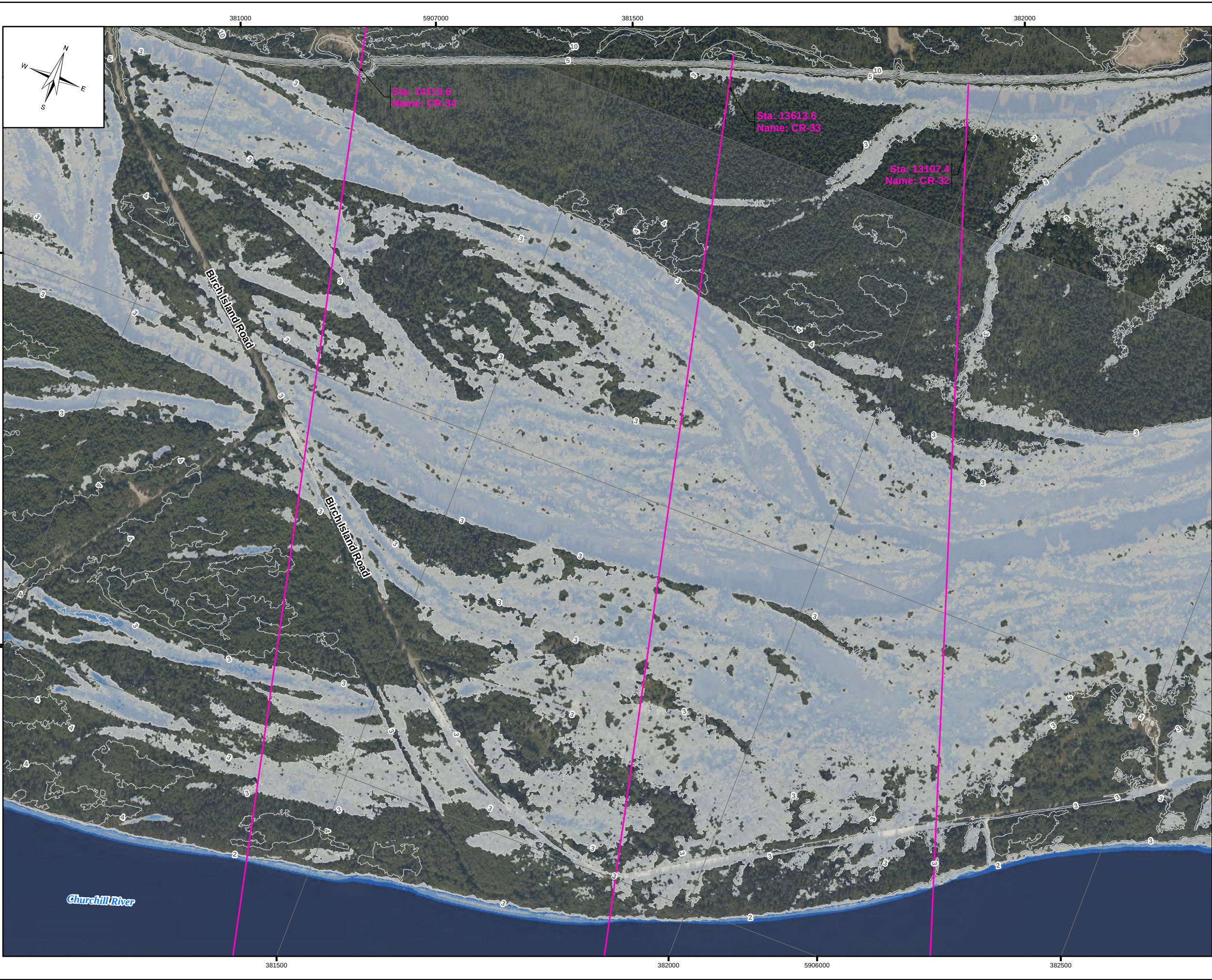
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-07

JUNE 2020	FIGURE 6.1	REV: 0
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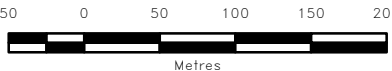


LEGEND:

- Sta: 23648
Name: CR-34
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



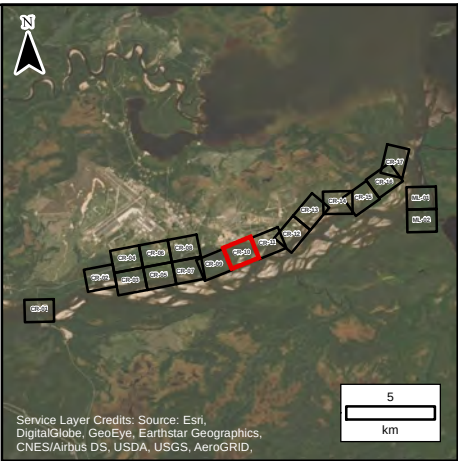
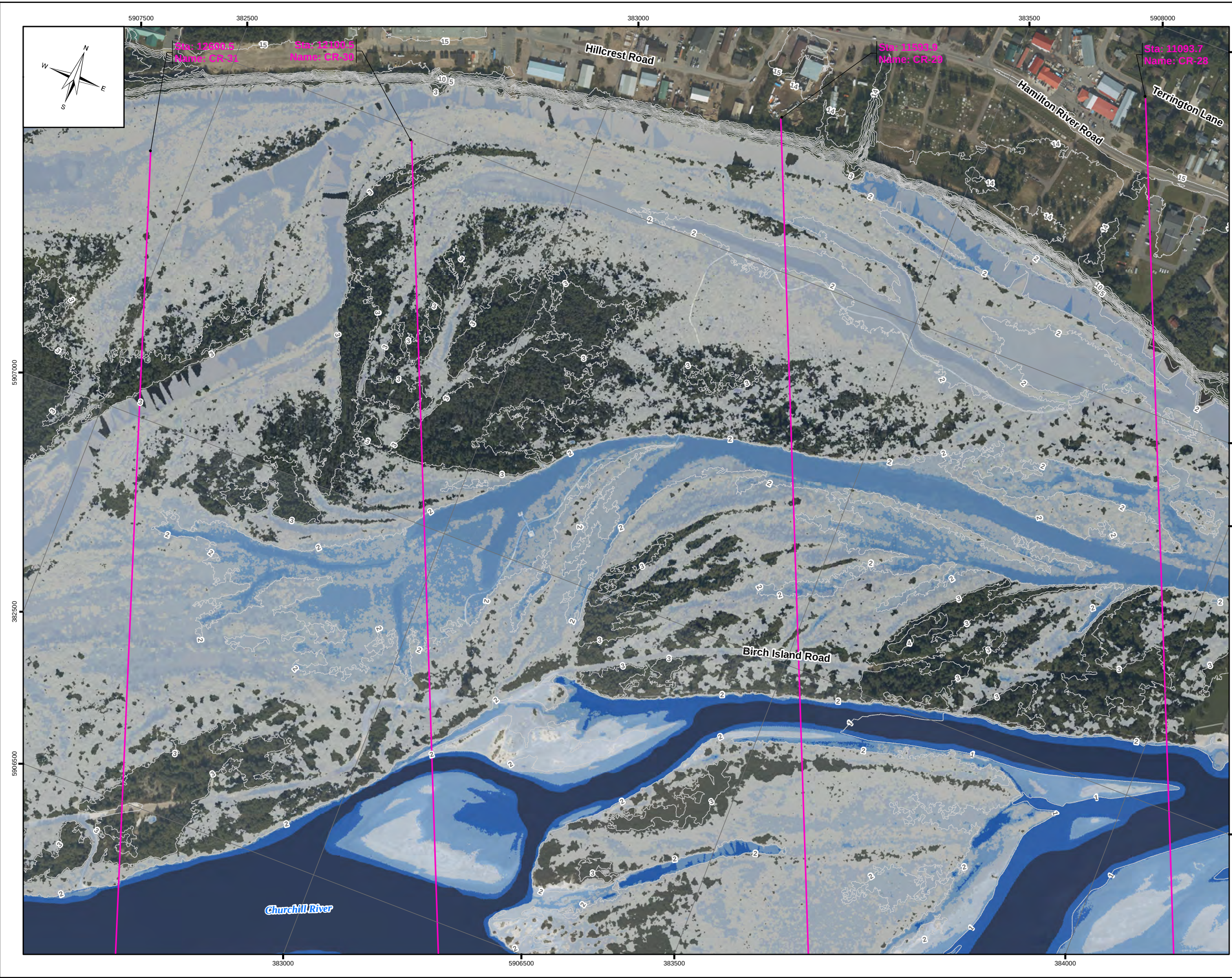
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING						
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-09						
JUNE 2020		FIGURE 6.1			REV: 0	

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.1_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta. 23648
Name: CR-58
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m symbol"/> > 2.0 m

NOTES:

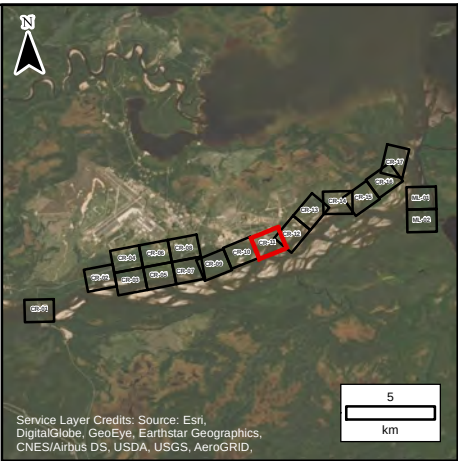
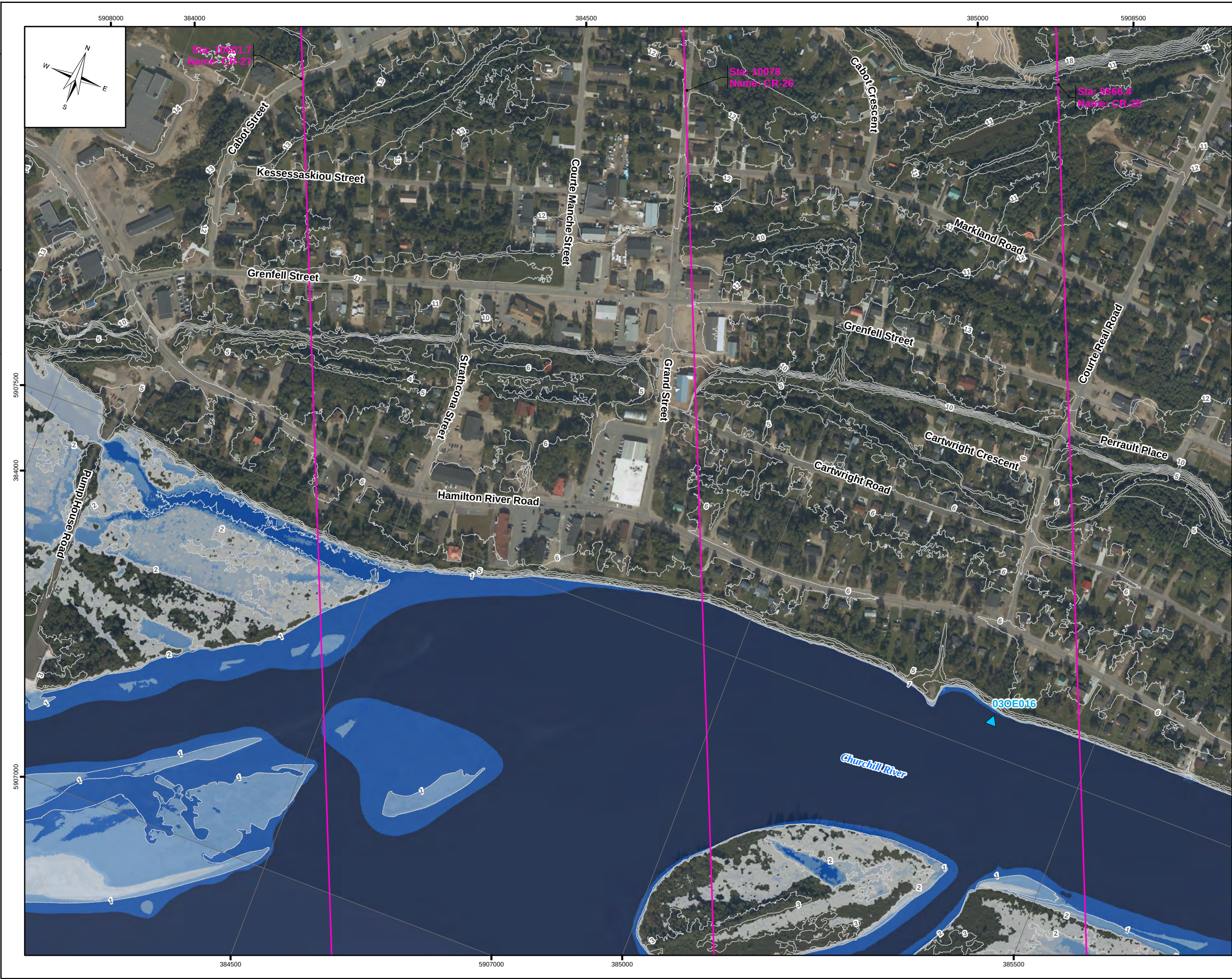
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING						
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-10						
JUNE 2020		FIGURE 6.1			REV: 0	



LEGEND:

- Sta. 23648 Name: CR-58
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

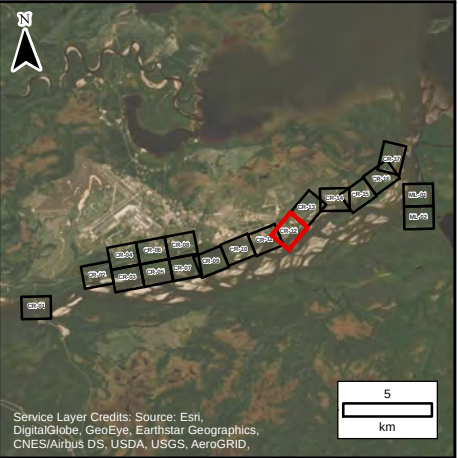
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING				
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-11				
JUNE 2020			FIGURE 6.1	REV: 0



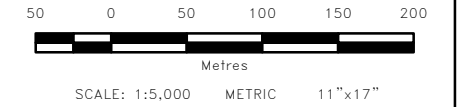
LEGEND:

- Sta: 23648 Name: CR-58 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

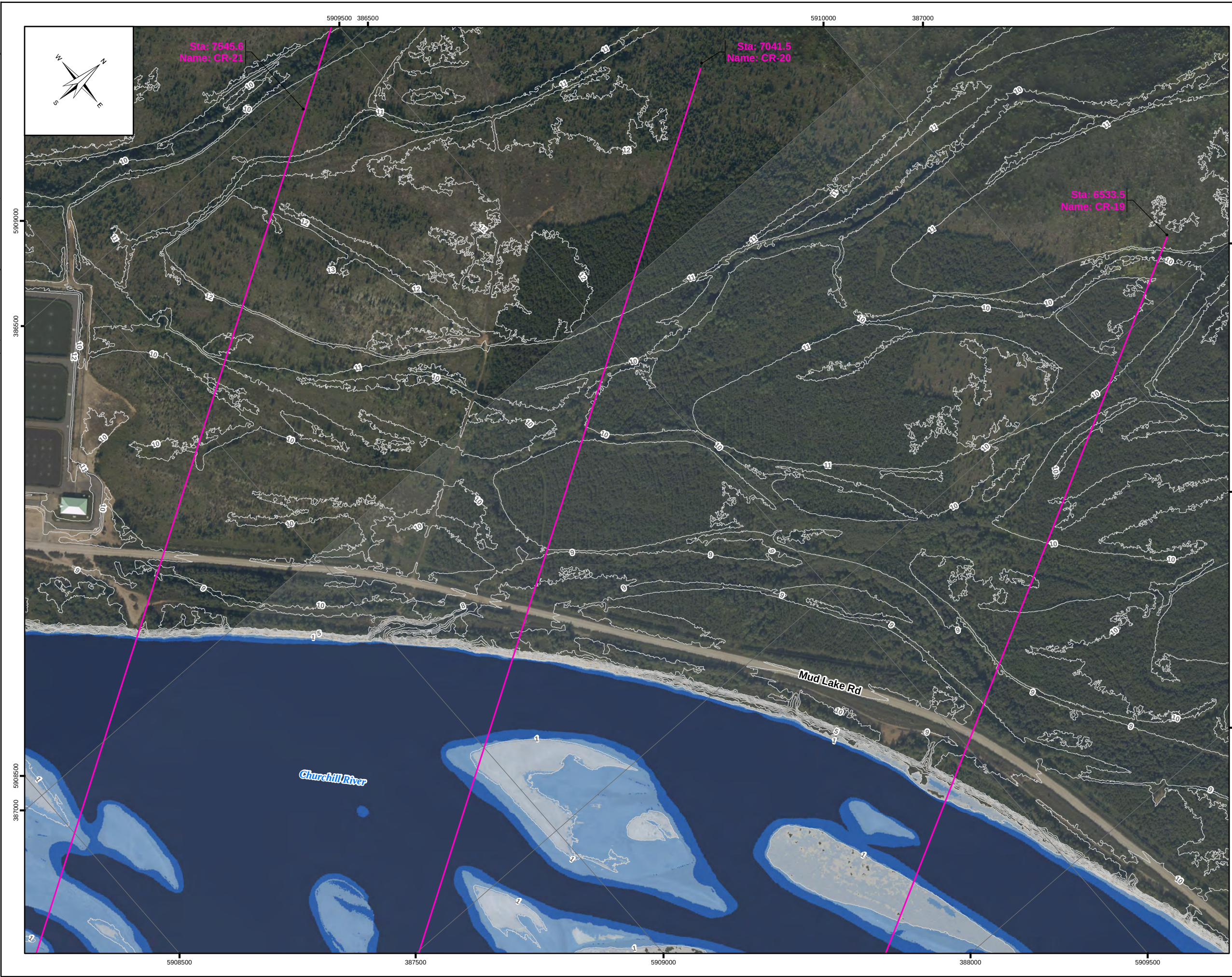
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-12

JUNE 2020	FIGURE 6.1	REV: 0
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LEGEND:

- Sta: 2364.8 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

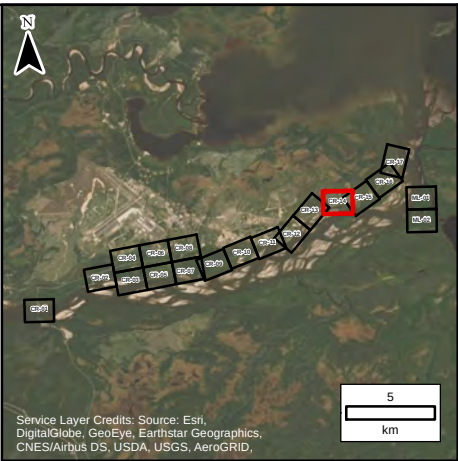
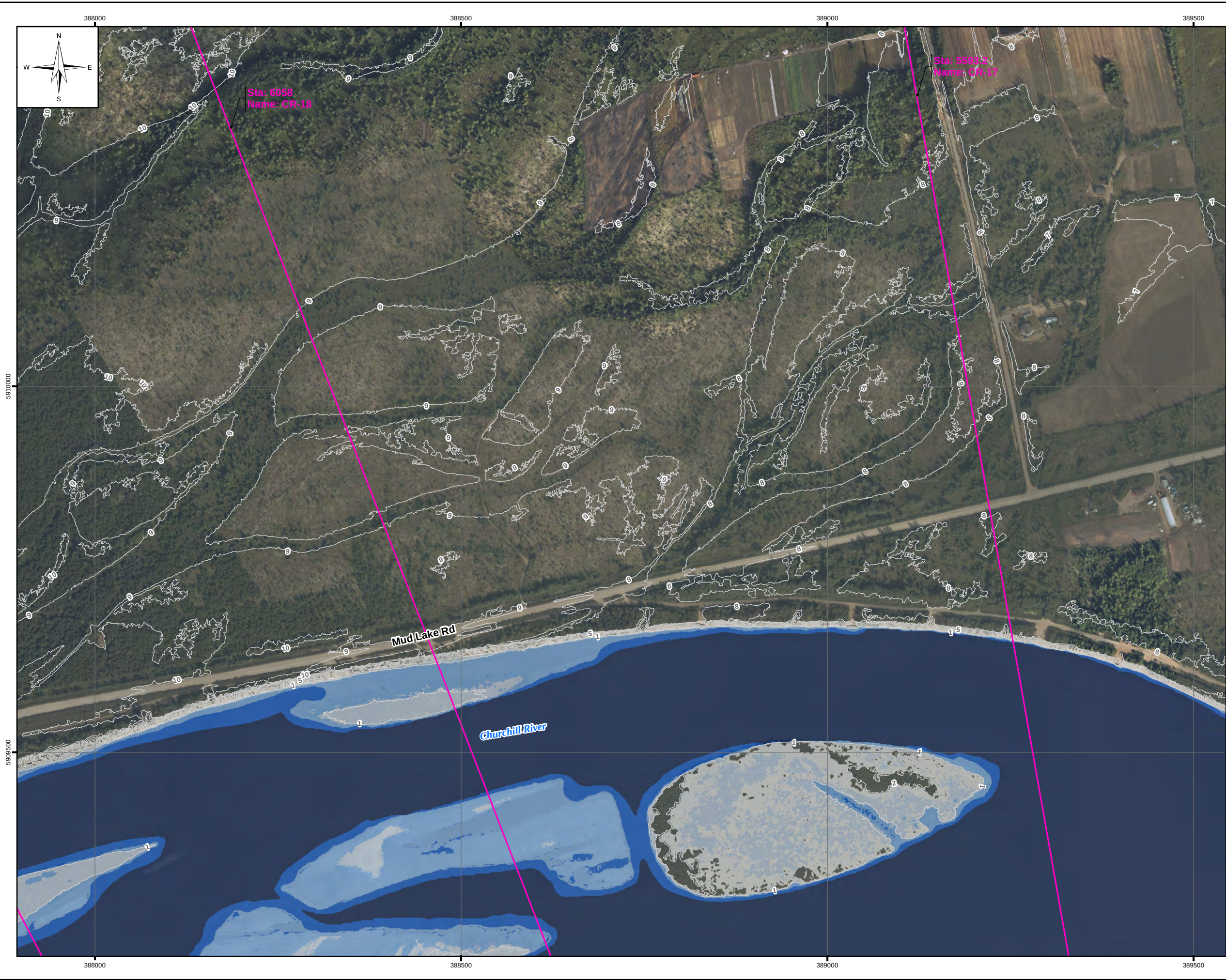
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING				
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-13				
JUNE 2020		FIGURE 6.1		REV: 0



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)	
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

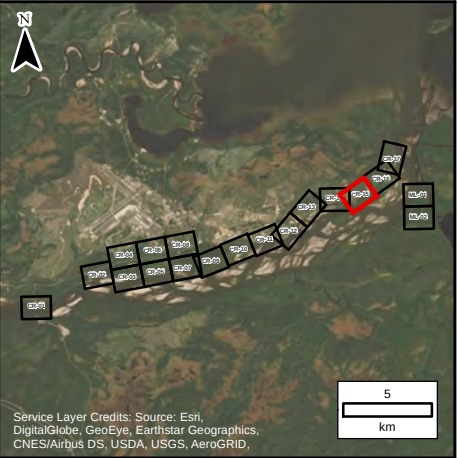
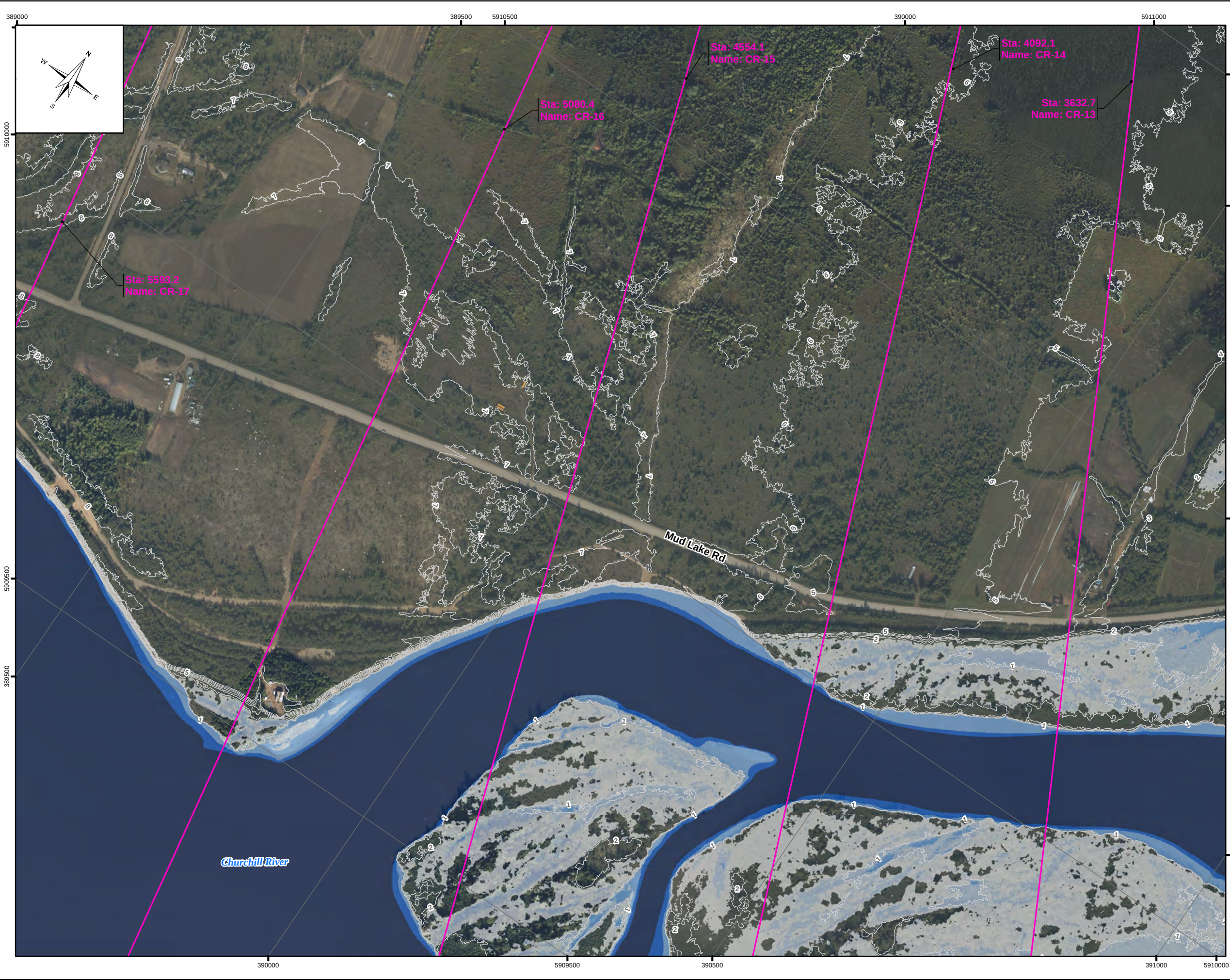
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-14				
JUNE 2020		FIGURE 6.1		REV: 0

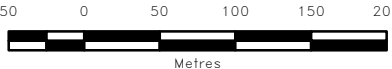


LEGEND:

- Sta: 2364.8 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

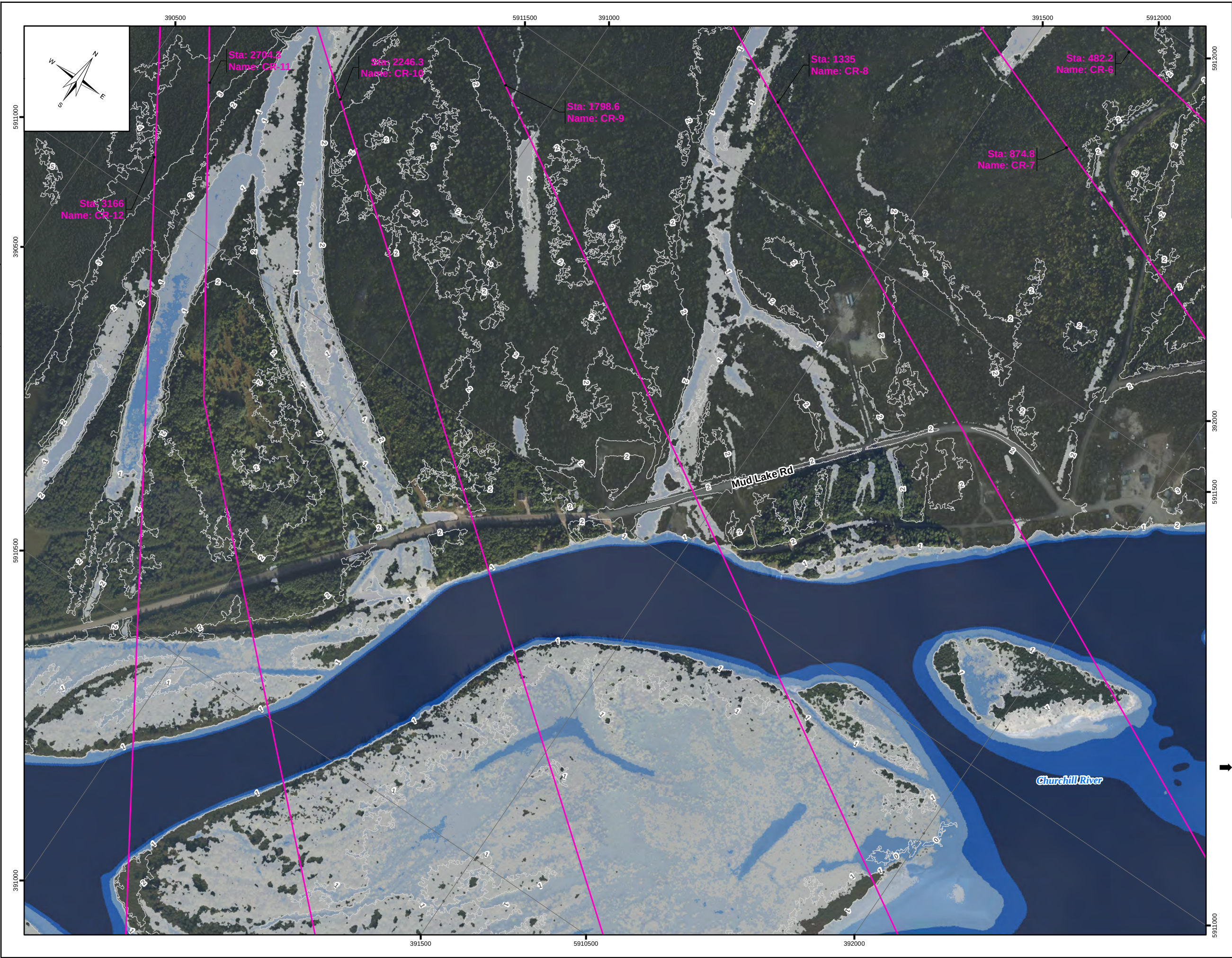
CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-15

JUNE 2020	FIGURE 6.1	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.1_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 2364.8 Name: CR-5a Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-16

JUNE 2020	FIGURE 6.1	REV: 0
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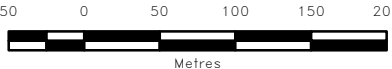


LEGEND:

- Sta: 23648
Name: CR-53
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

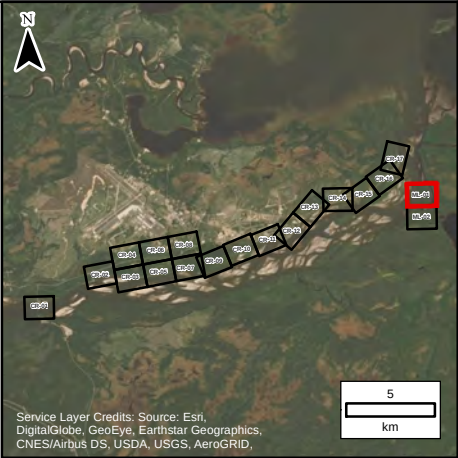
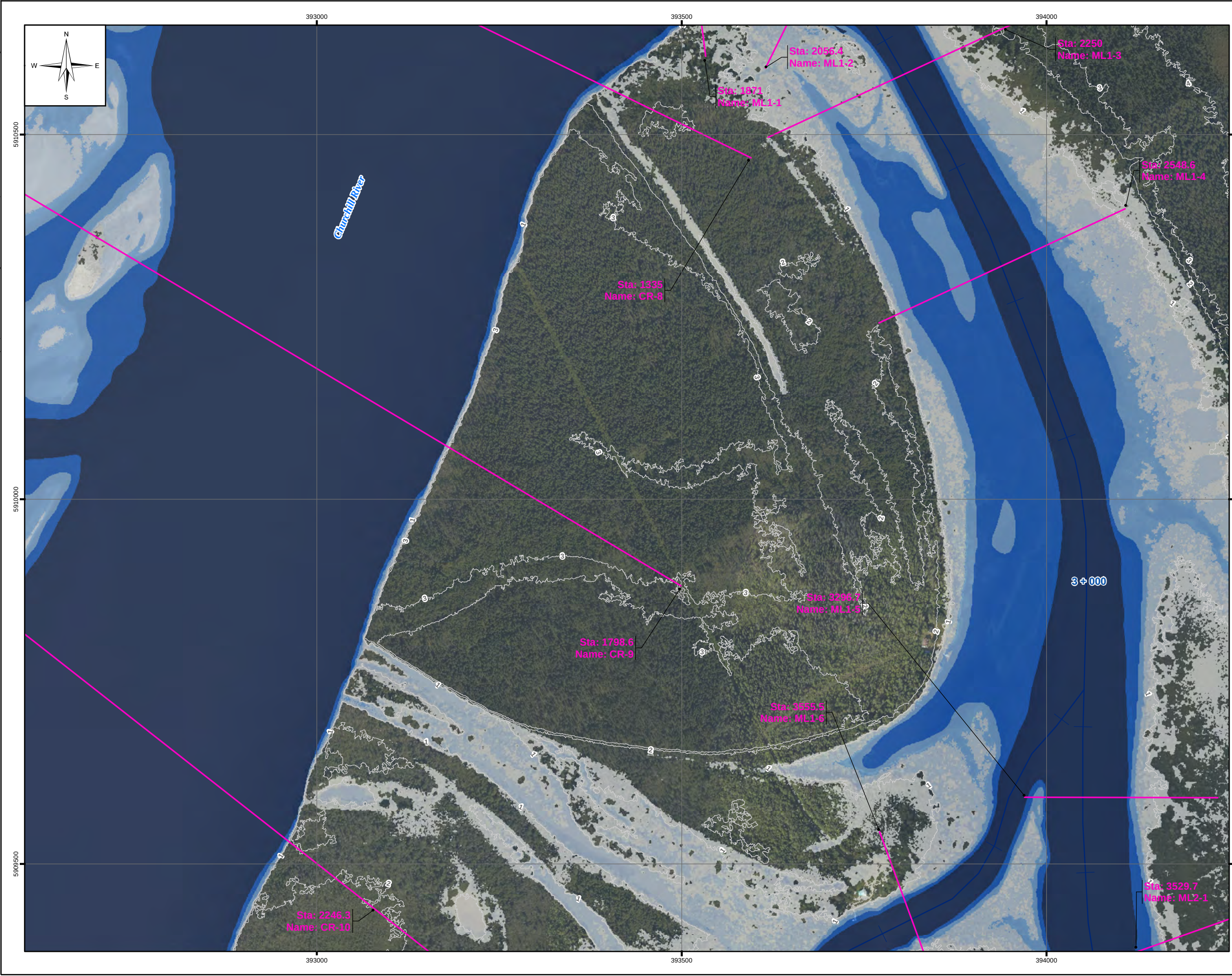
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-17					
JUNE 2020		FIGURE 6.1		REV:	0

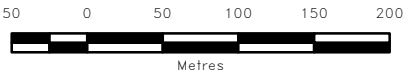


LEGEND:

- Sta: 2364.8 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

➡

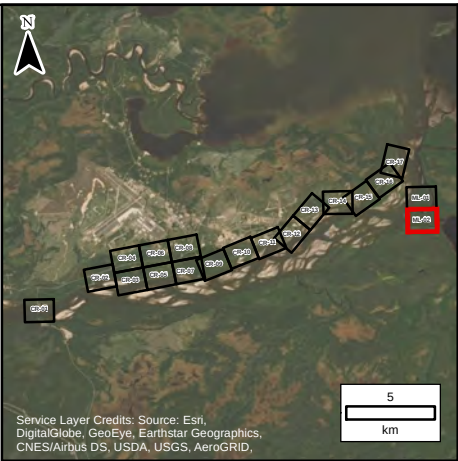
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – ML-01

JUNE 2020	FIGURE 6.1	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – ML-02

JUNE 2020	FIGURE 6.1	REV: 0
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LEGEND:

- Water Survey of Canada Gauge Location
- River Centreline
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m
 - Map Extents

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019, and by ESRI and DigitalGlobe, WV02 dated June 3, 2015.



SCALE: 1:100,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

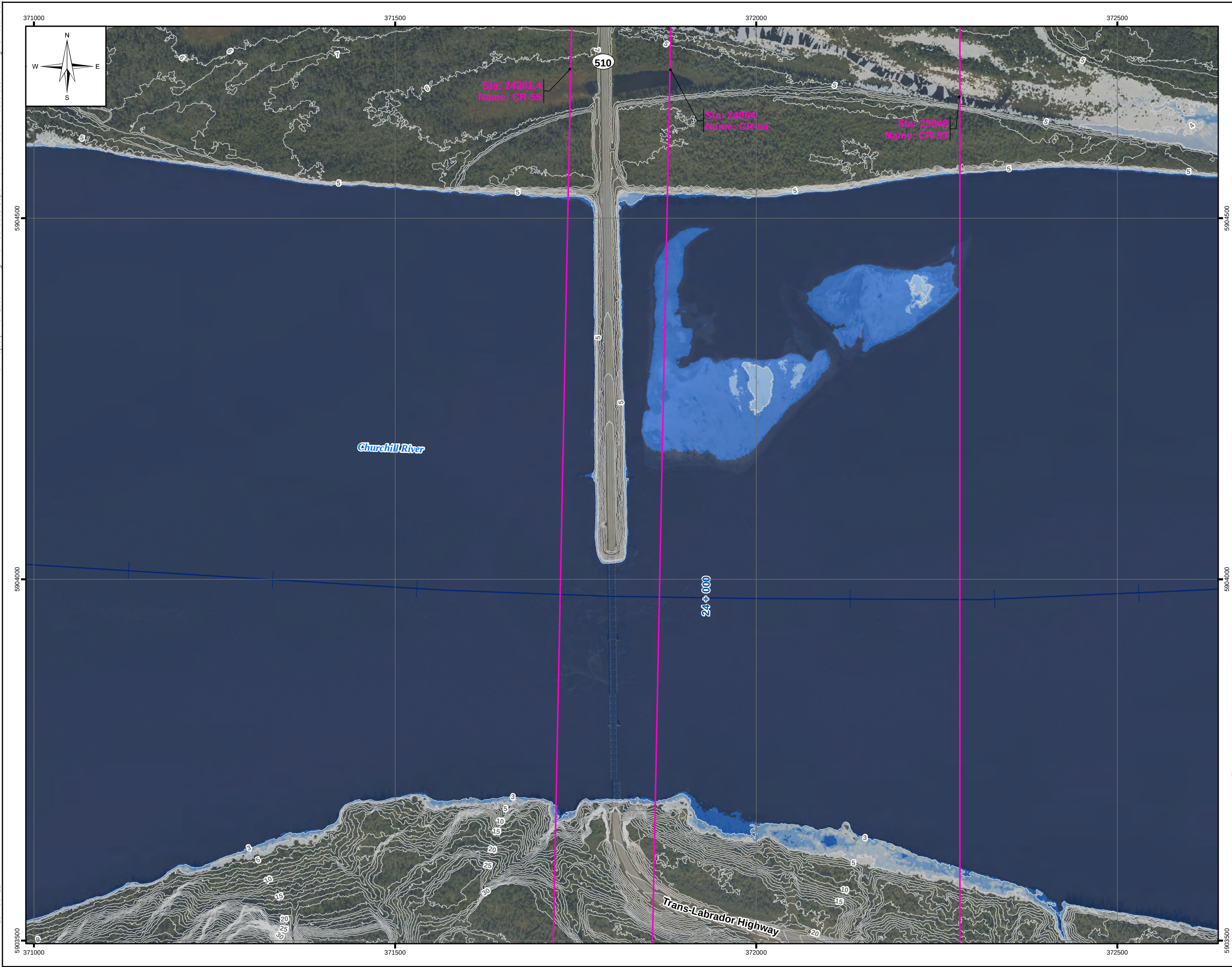
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – OVERVIEW MAP

JUNE 2020	FIGURE 6.2	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

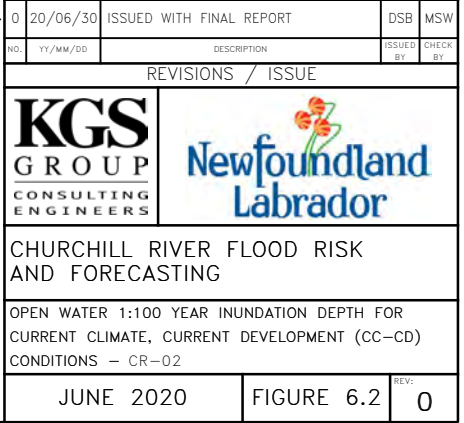
NOTES:

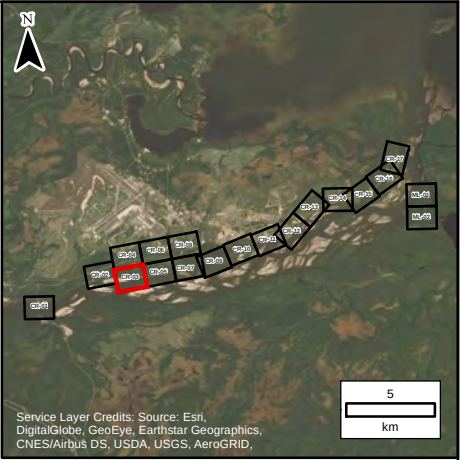
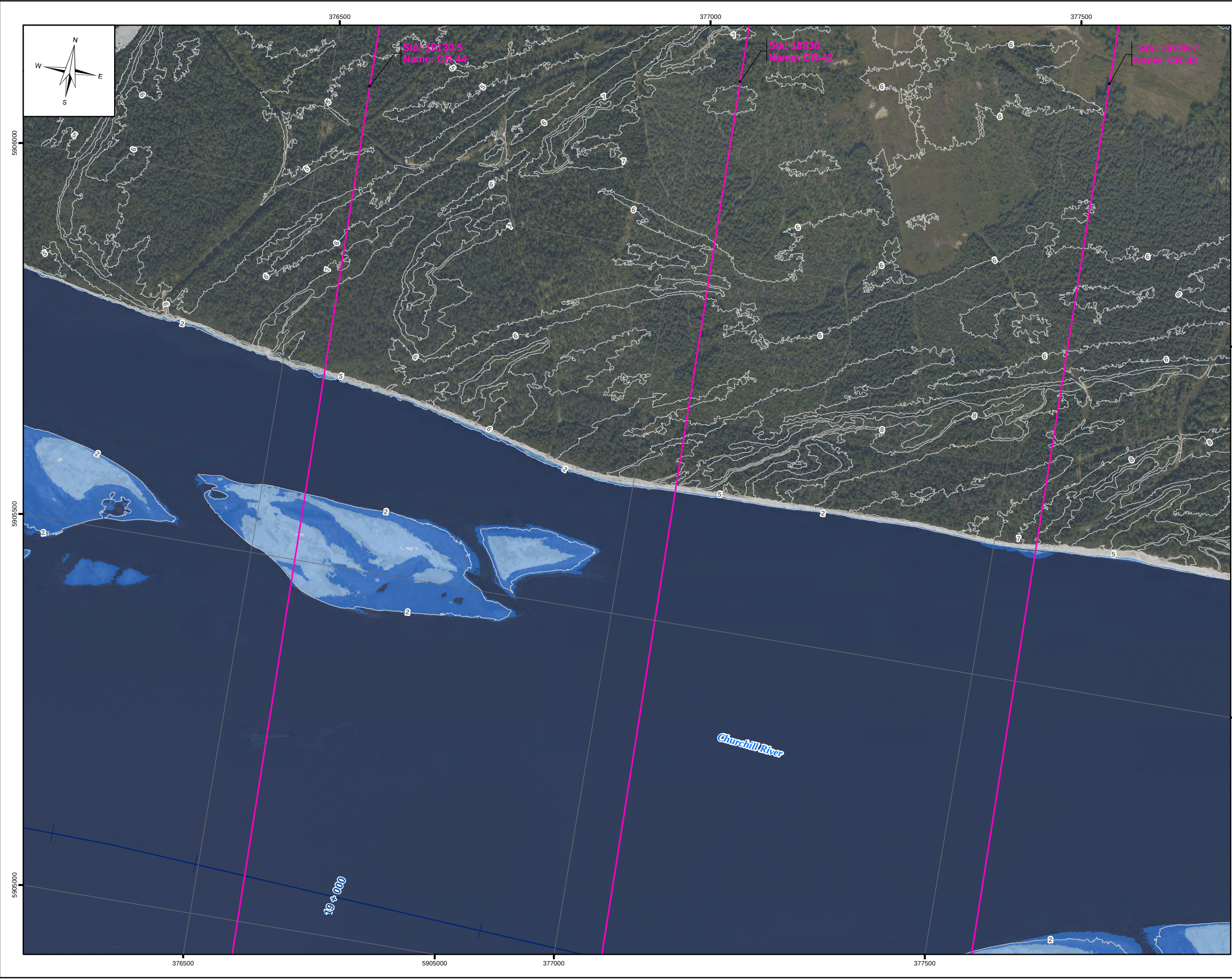
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

50 0 50 100 150 200
Metres
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-01				
JUNE 2020		FIGURE 6.2		REV: 0





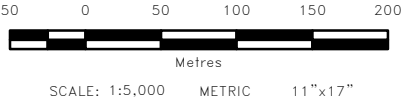
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
> 2.0 m color swatch"/>	> 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



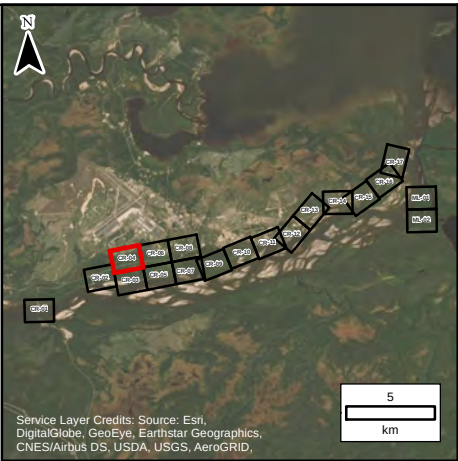
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-03					
JUNE 2020		FIGURE 6.2		REV:	0

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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\Map\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1



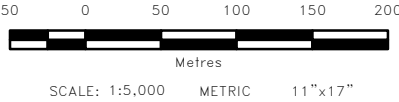
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

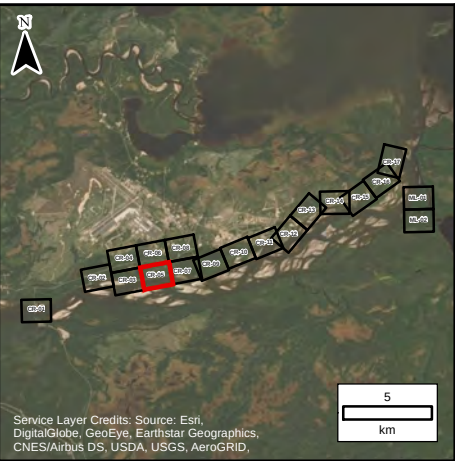
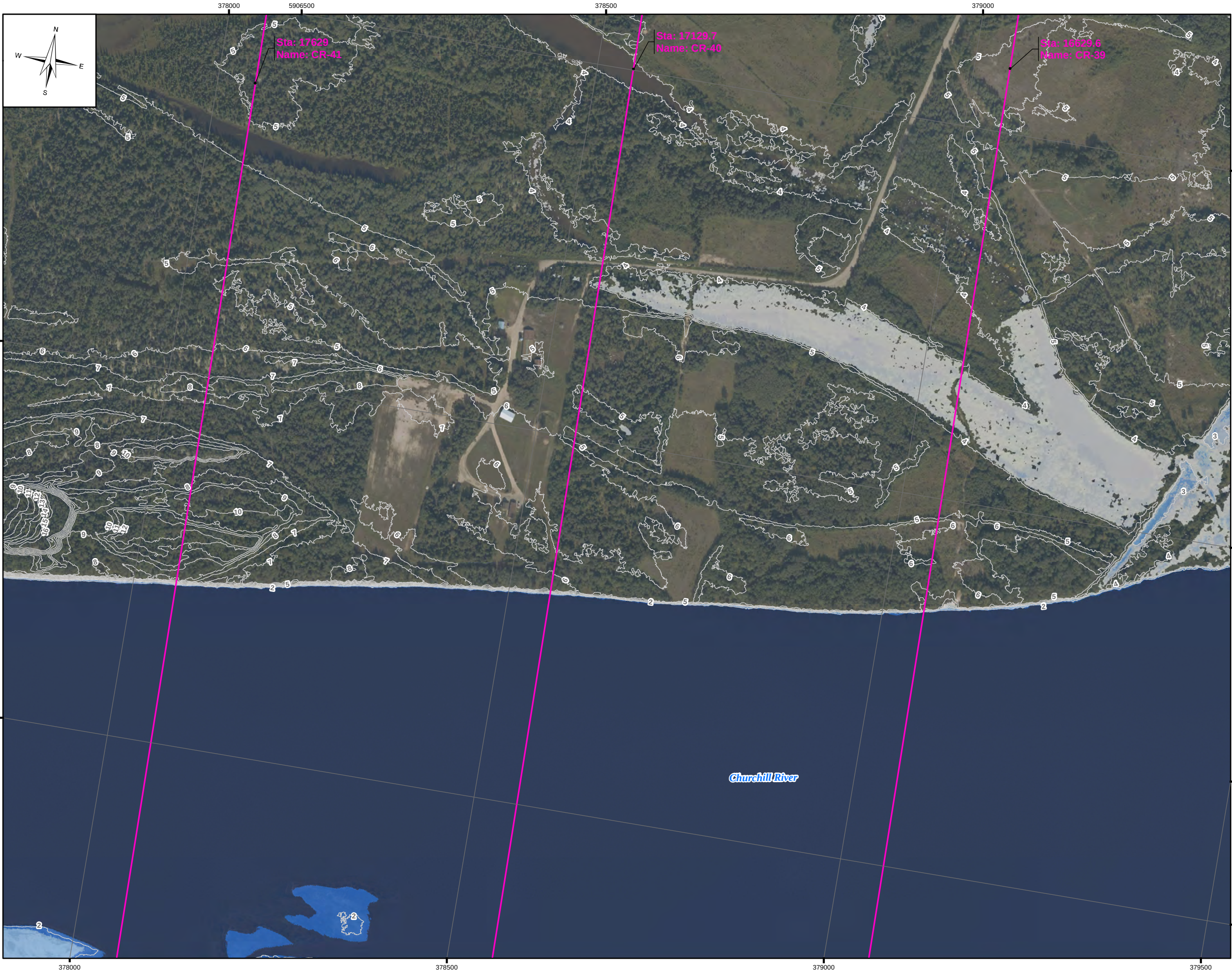


All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-04					
JUNE 2020		FIGURE 6.2			REV: 0

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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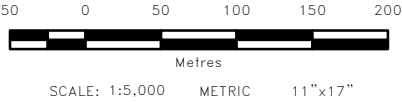
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

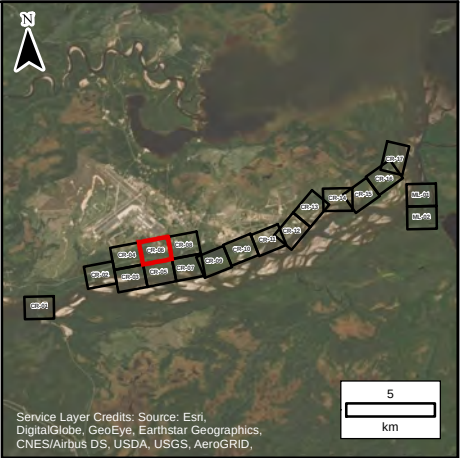
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-05

JUNE 2020	FIGURE 6.2	REV: 0
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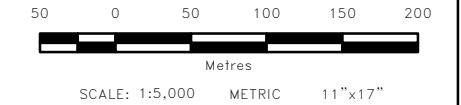
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

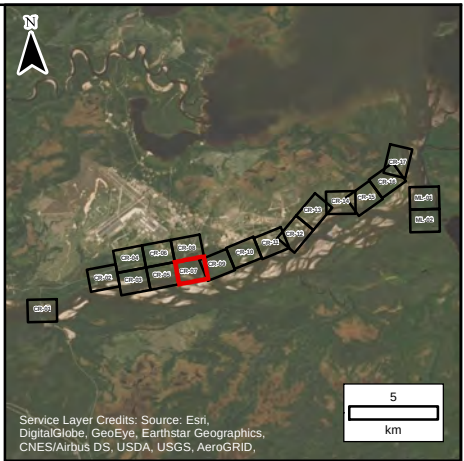
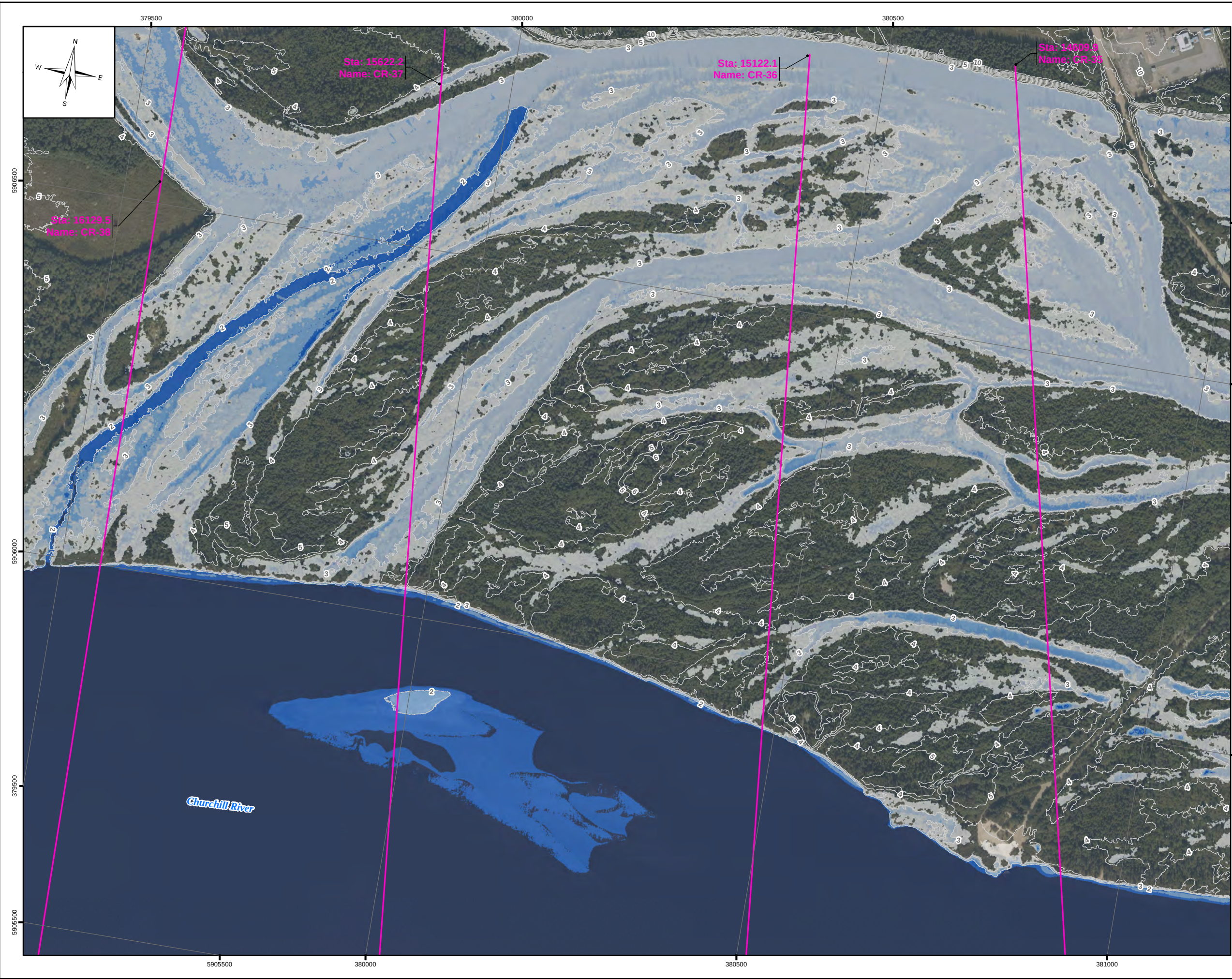


All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-06					
JUNE 2020		FIGURE 6.2		REV:	0

File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648 Name: CR-33 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

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.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

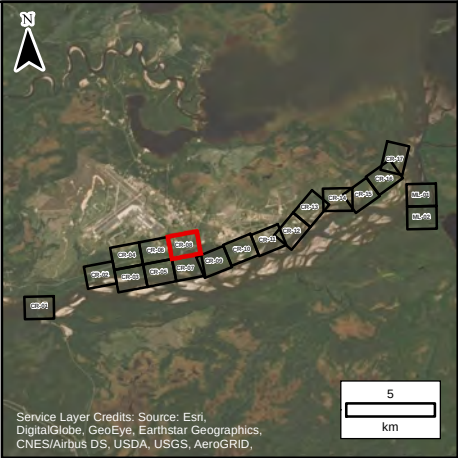
0 20/06/30 ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY
REVISIONS / ISSUE			



CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-07

JUNE 2020	FIGURE 6.2	REV: 0
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LEGEND:

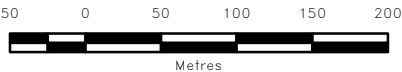
- Sta: 23648
Name: CR-53
Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

- 0.0 – 0.5 m
- 0.5 – 1.0 m
- 1.0 – 1.5 m
- 1.5 – 2.0 m
- > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

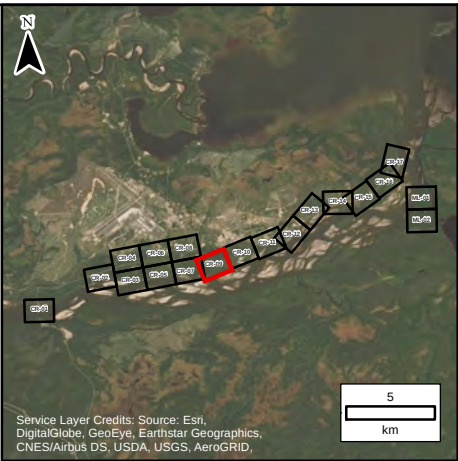
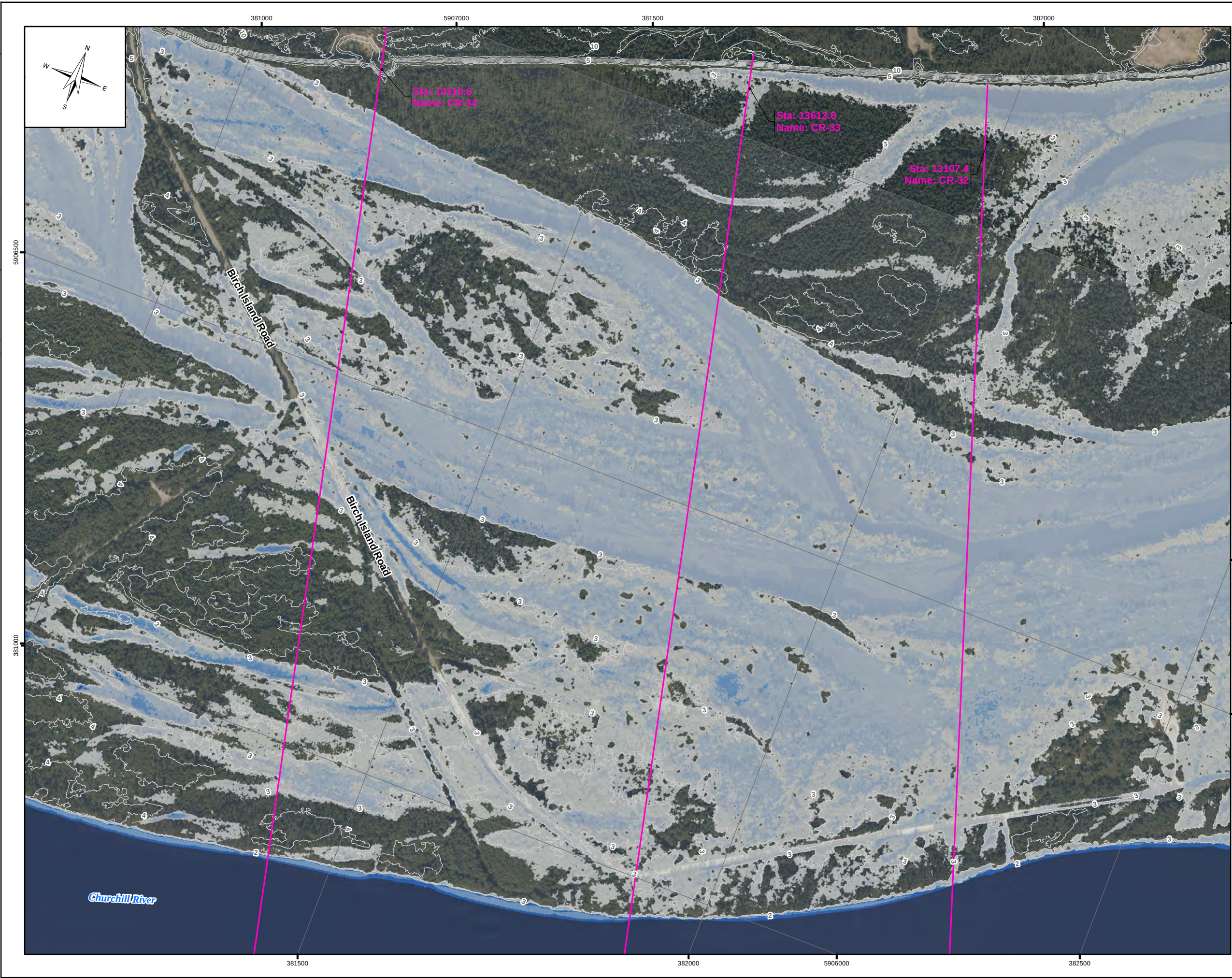


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-08					
JUNE 2020		FIGURE 6.2		REV: 0	

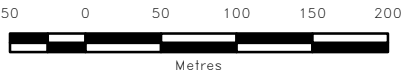


LEGEND:

- Sta: 23648 Name: CR-33
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



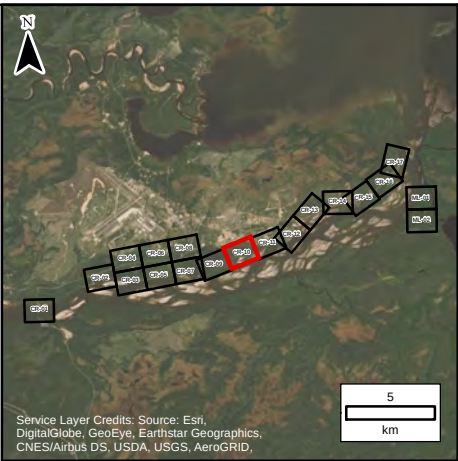
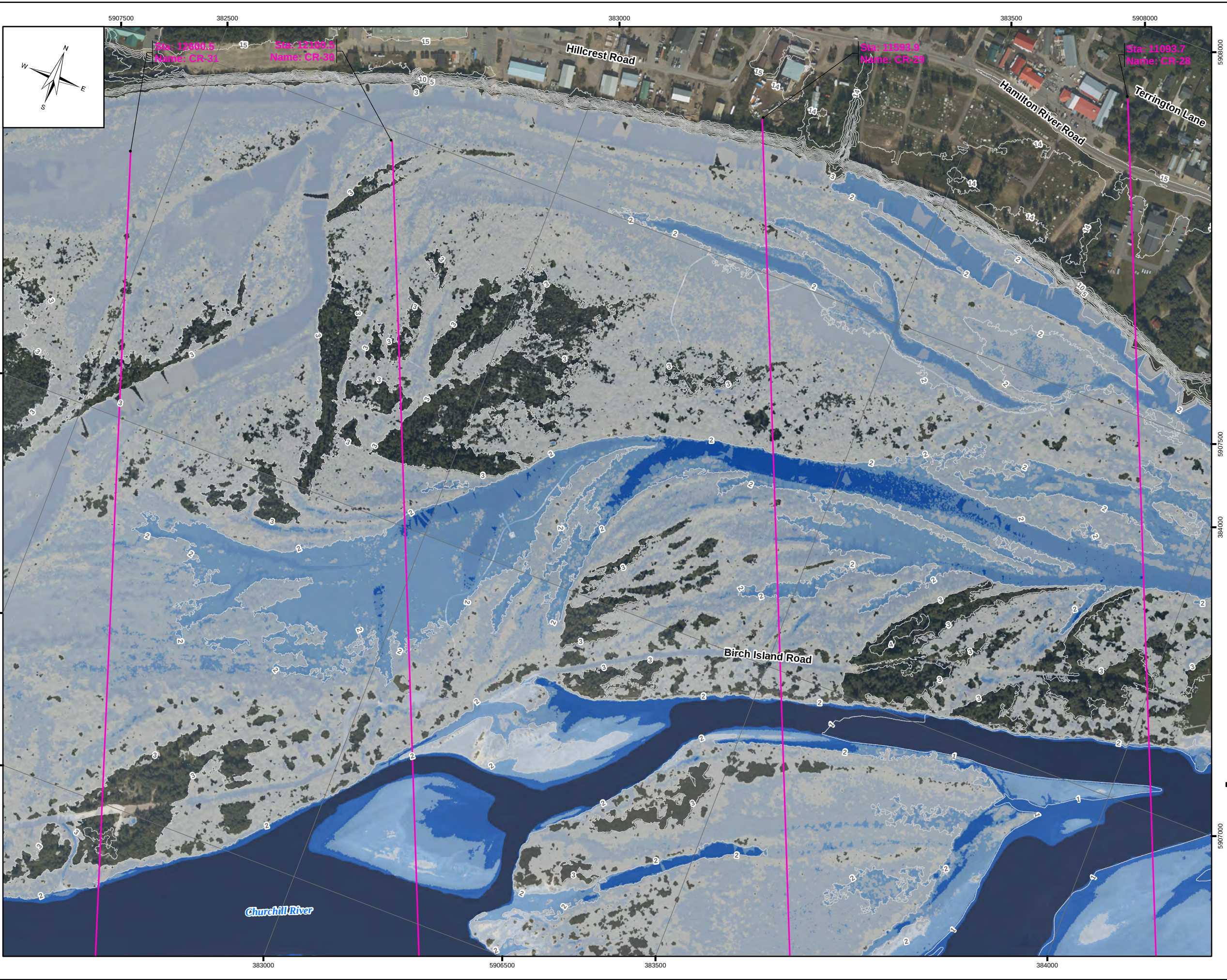
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW	
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REVISIONS / ISSUE						
						
CHURCHILL RIVER FLOOD RISK AND FORECASTING						
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-09						
JUNE 2020		FIGURE 6.2			REV: 0	

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\Map\Map_Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648 Name: CR-58
-
-
-

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
> 2.0 m color swatch"/>	> 2.0 m

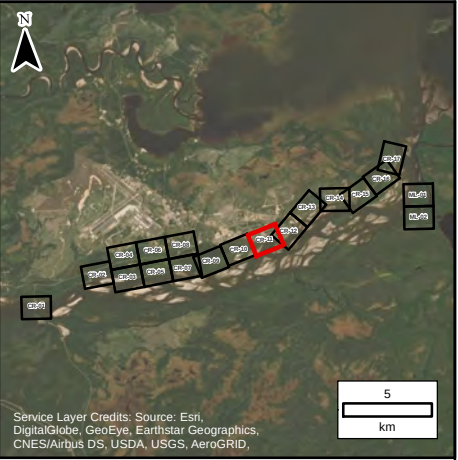
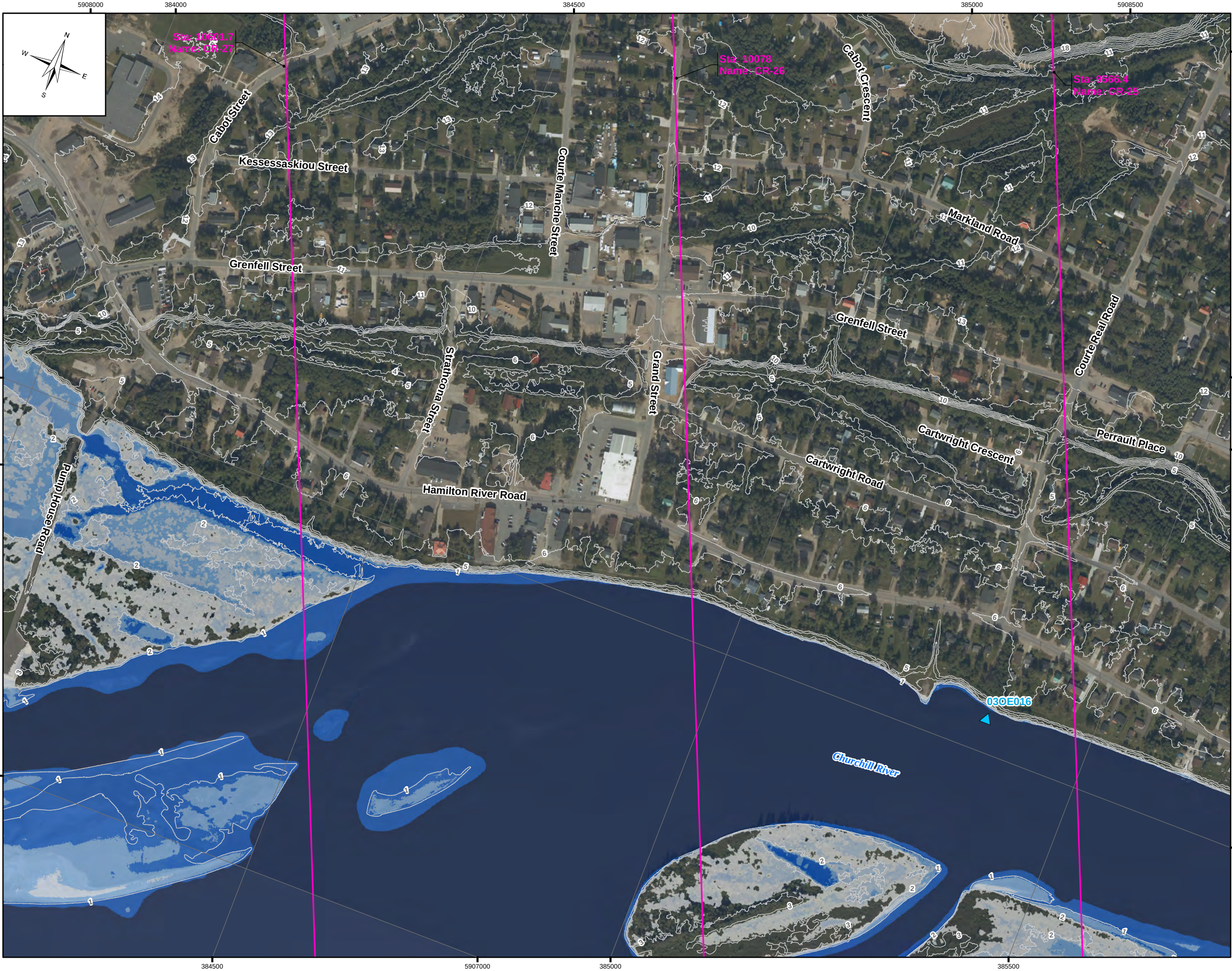
NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

50 0 50 100 150 200
Metres
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW	
NO.	YY/MM/DD	DESCRIPTION			ISSUED BY	CHECK BY
REVISIONS / ISSUE						
						
CHURCHILL RIVER FLOOD RISK AND FORECASTING						
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-10						
JUNE 2020		FIGURE 6.2			REV: 0	



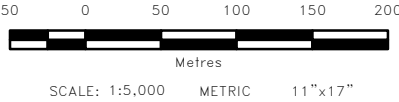
LEGEND:

- Sta. 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

Newfoundland Labrador

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-11

JUNE 2020	FIGURE 6.2	REV: 0
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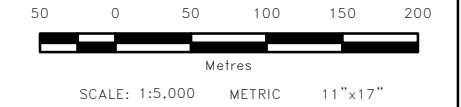
LEGEND:

- Sta: 23648 Name: CR-23 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

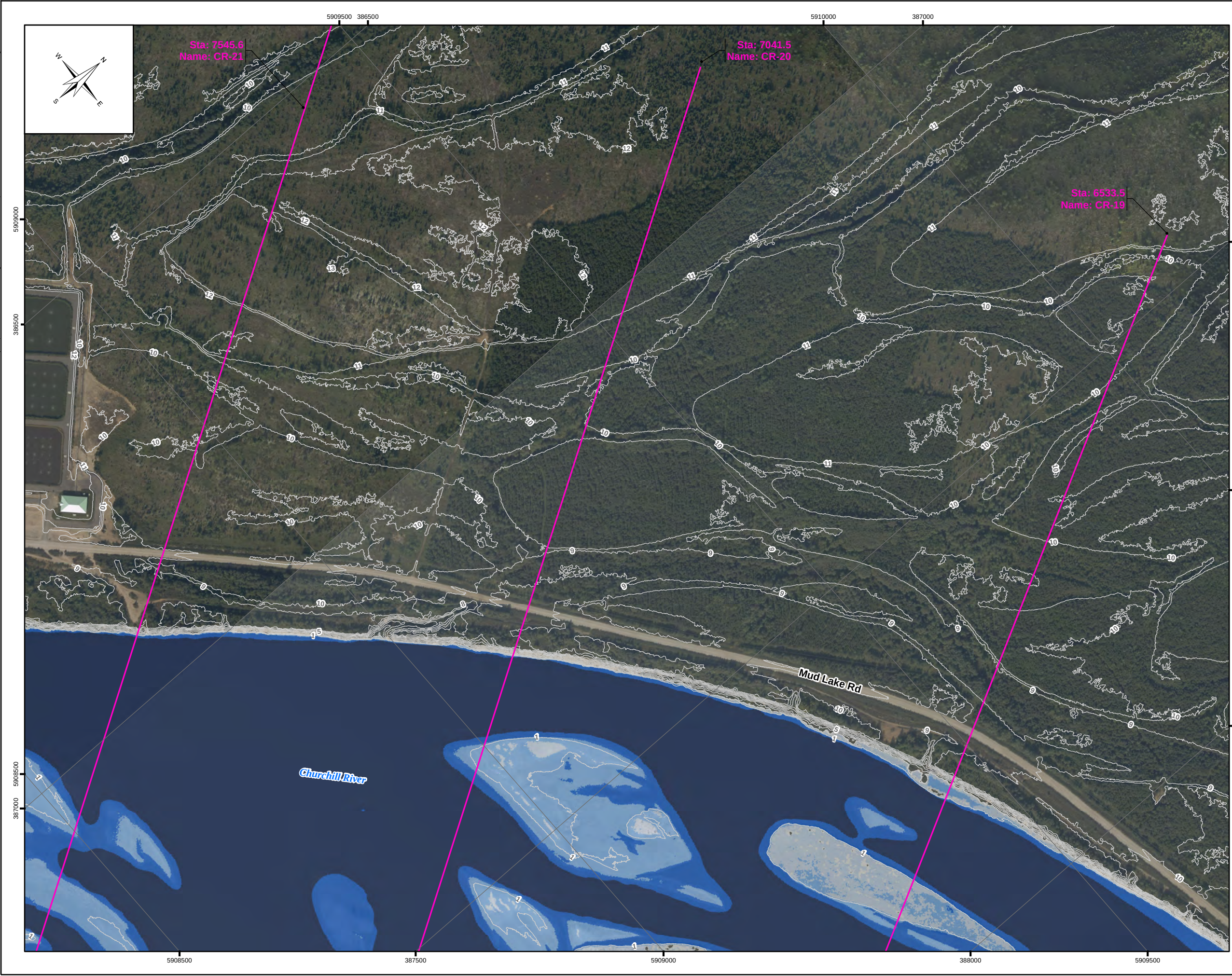
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
> 2.0 m color swatch"/>	> 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-12					
JUNE 2020		FIGURE 6.2			REV: 0



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CONSULTING ENGINEERS



Newfoundland
Labrador

CHURCHILL RIVER FLOOD RISK
AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR
CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS — CR-13

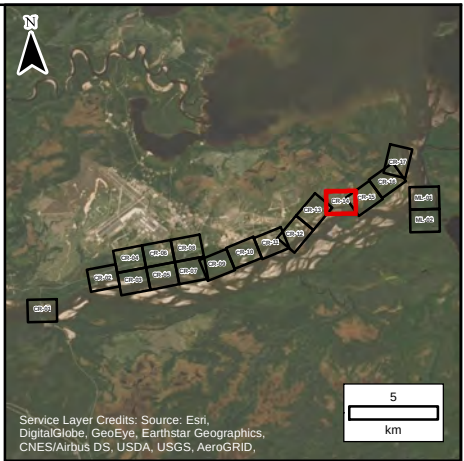
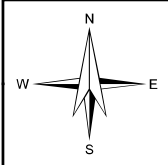
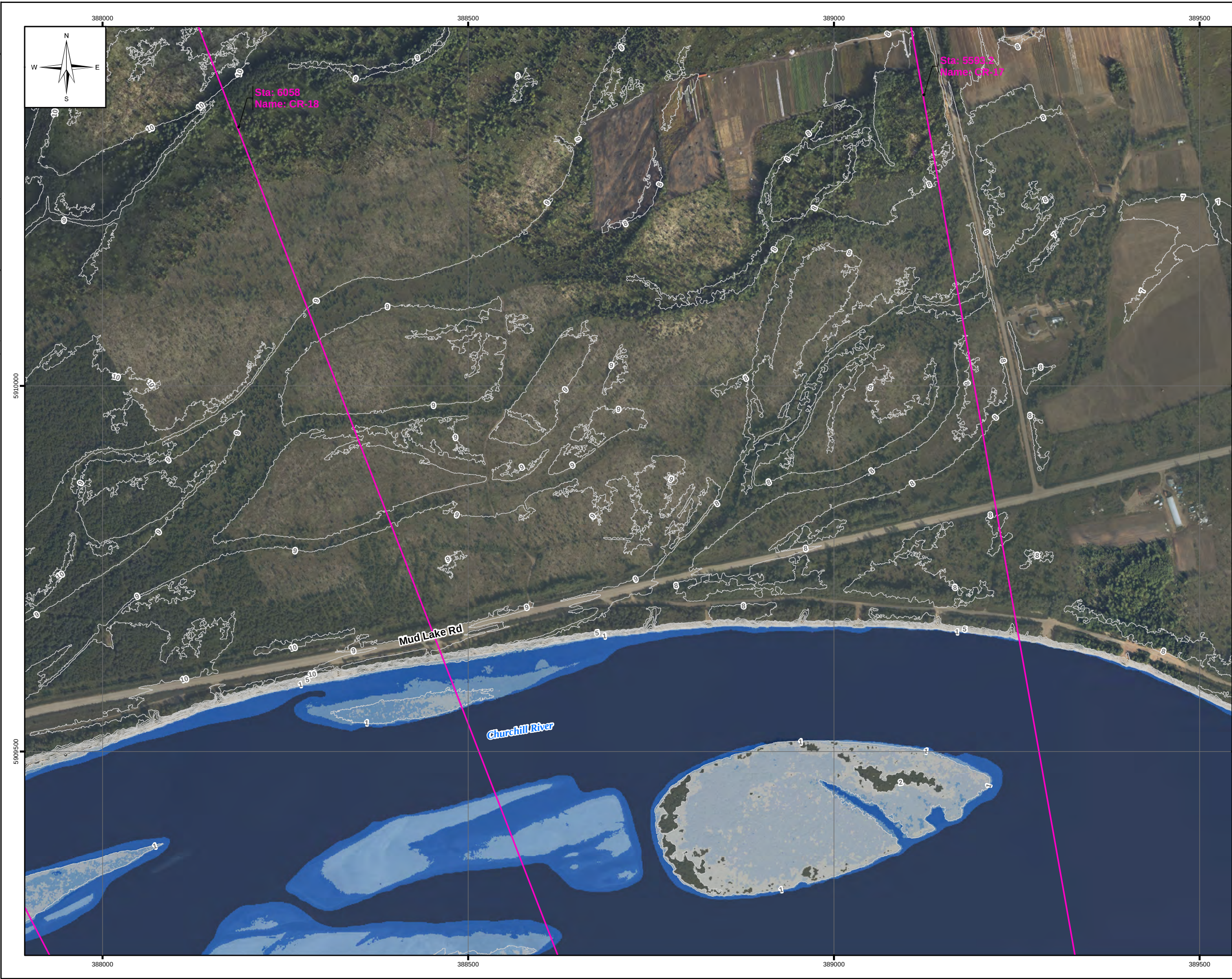
JUNE 2020

FIGURE 6.2

REV: 0

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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1



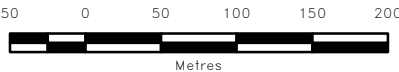
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)	
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

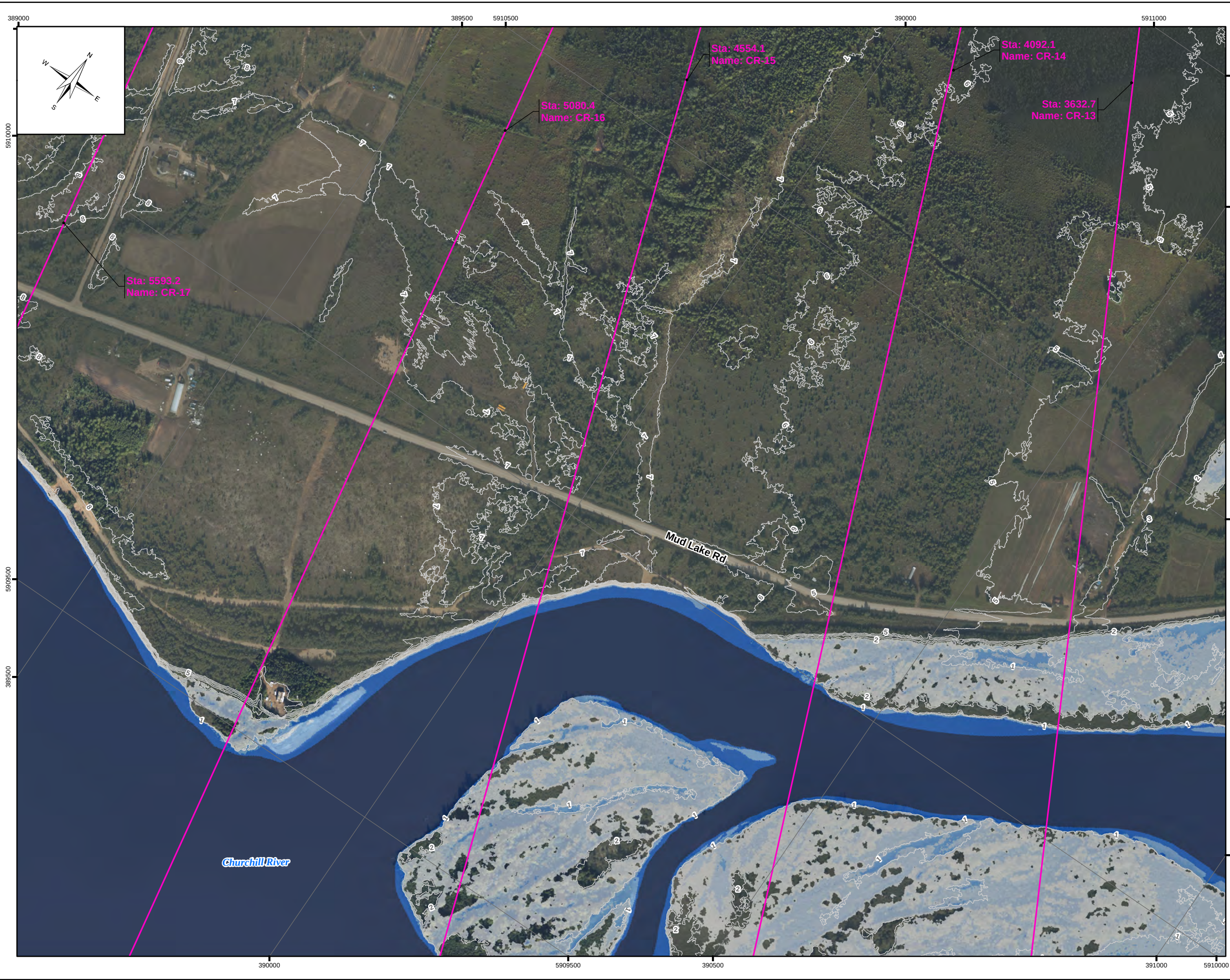


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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File Name: P:\Projects\2018\18-3217-001\Drawings\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1

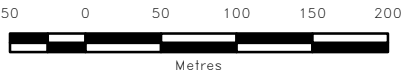


LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-15

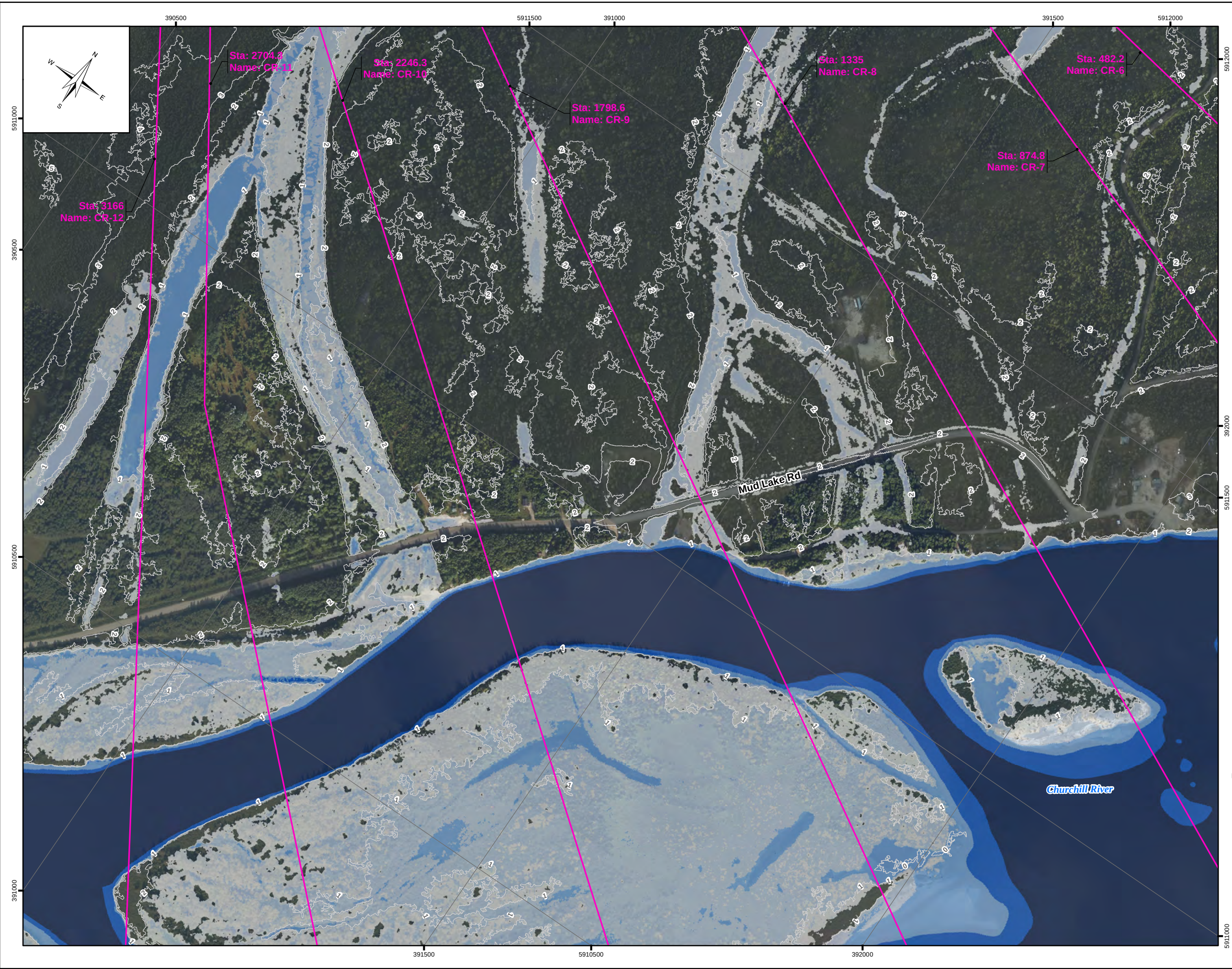
JUNE 2020

FIGURE 6.2

REV: 0

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.2_11x17.mxd
11"x17" PLOT SCALE 1:1

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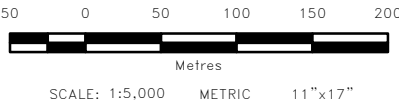


LEGEND:

- Sta: 2364.8 Name: CR-5a Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 - 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 - 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

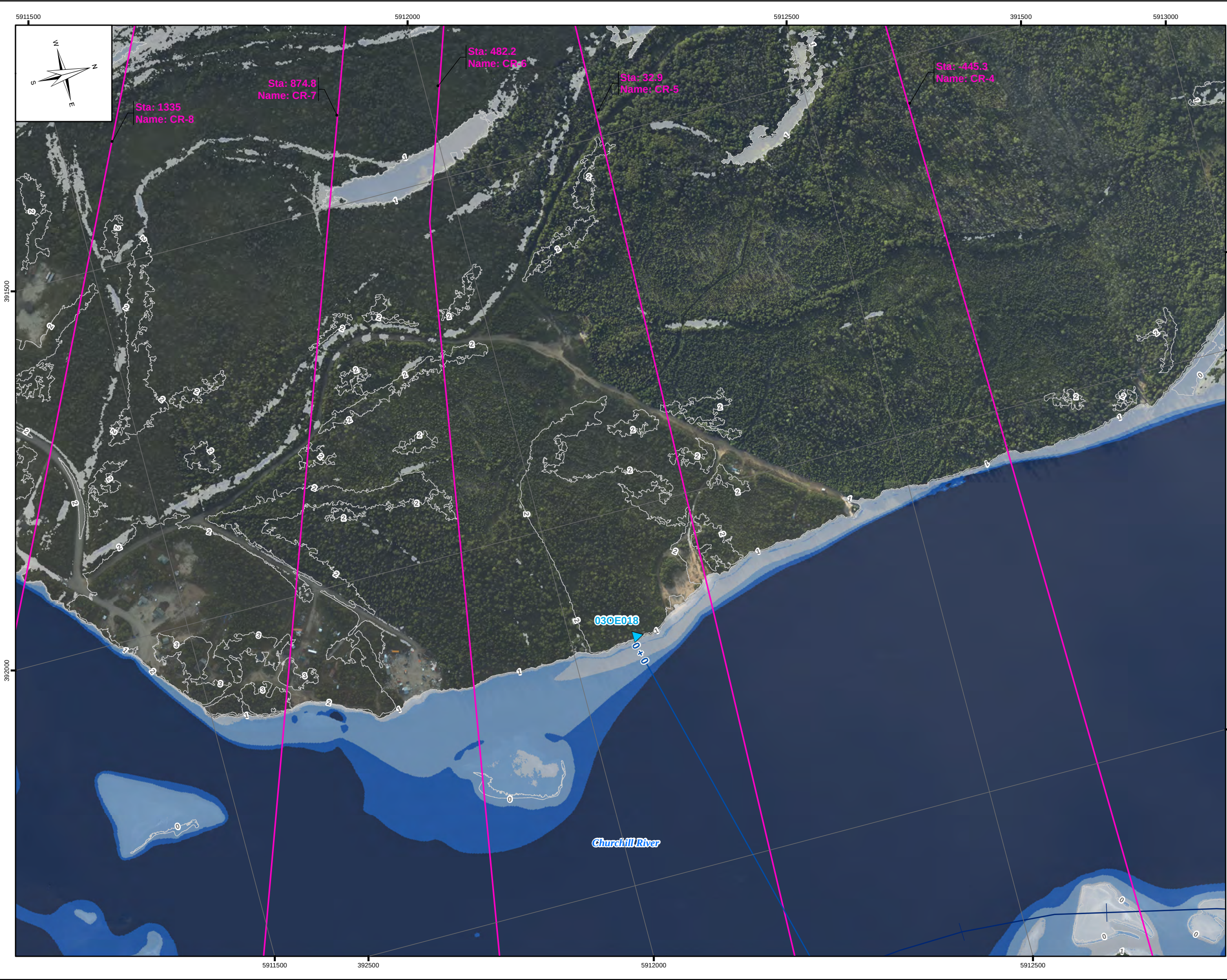
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS - CR-16

JUNE 2020	FIGURE 6.2	REV: 0
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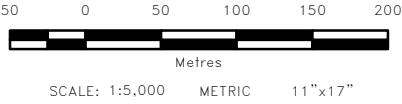


LEGEND:

- Sta: 23648
Name: CR-53
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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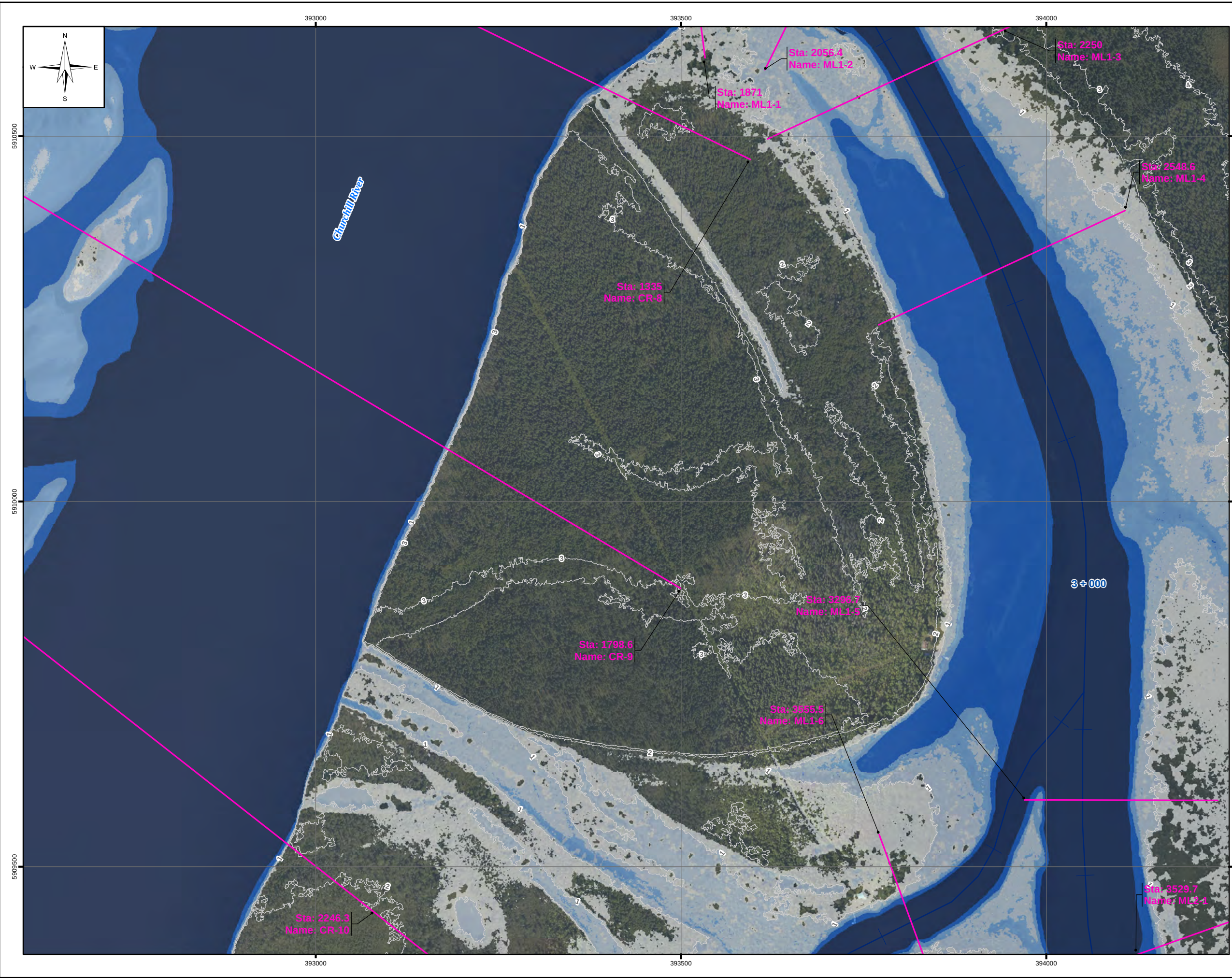
CONSULTING

ENGINEERS

Newfoundland

Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING		
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-17		
JUNE 2020	FIGURE 6.2	REV: 0

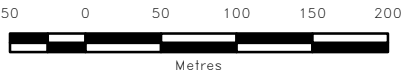


LEGEND:

- Sta: 2364.8 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

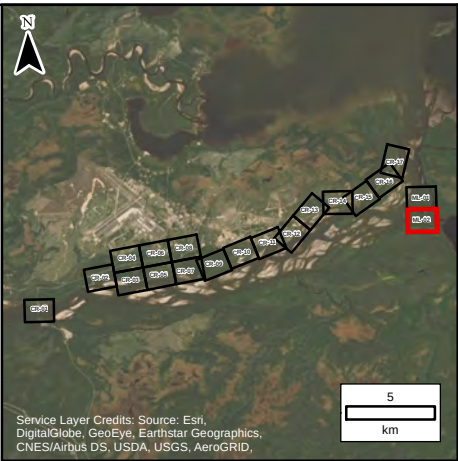


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — ML-01					
JUNE 2020		FIGURE 6.2		REV:	0

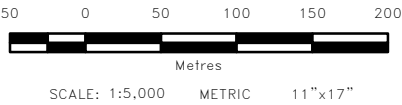


LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

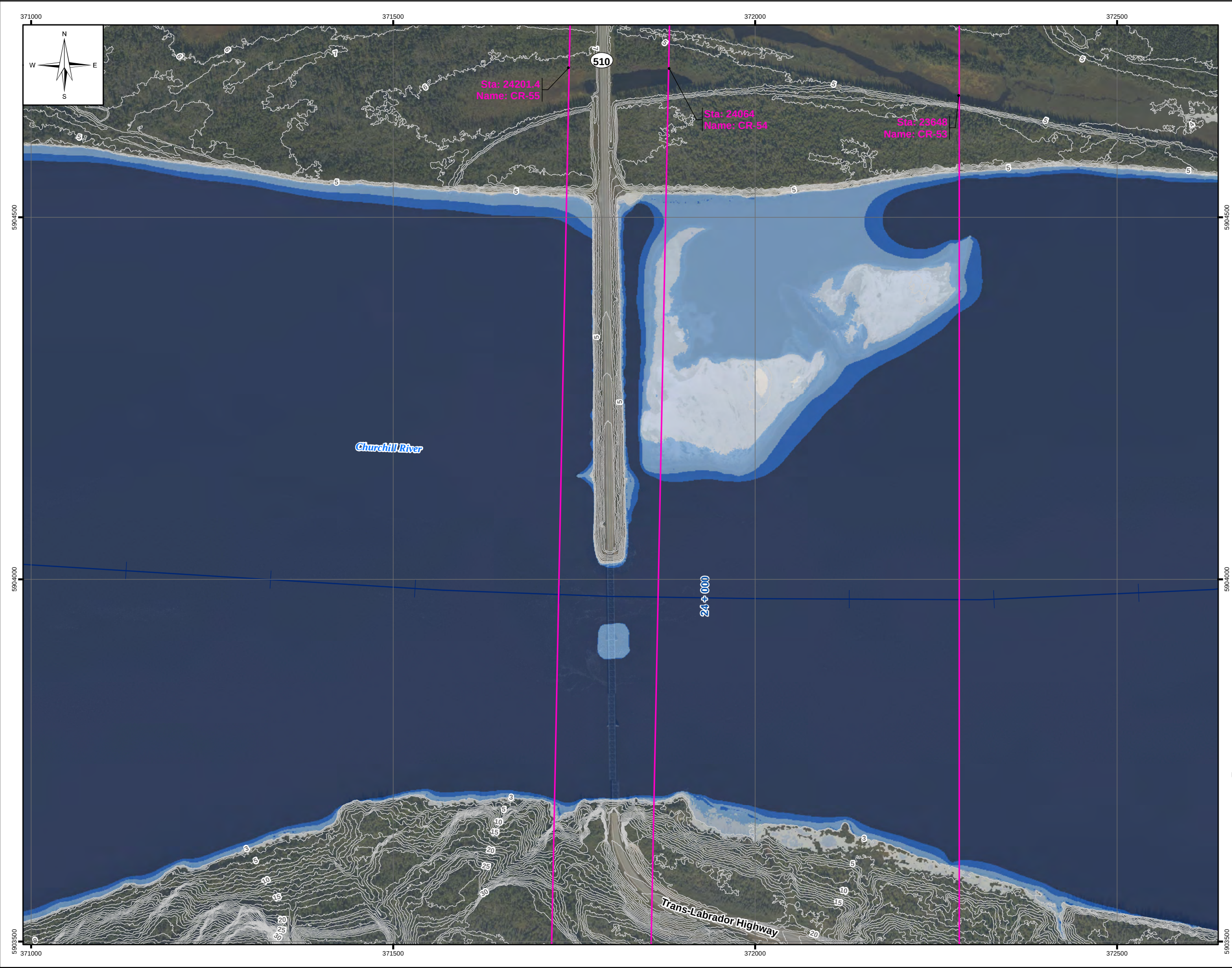
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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

OPEN WATER 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – ML-02

JUNE 2020	FIGURE 6.2	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

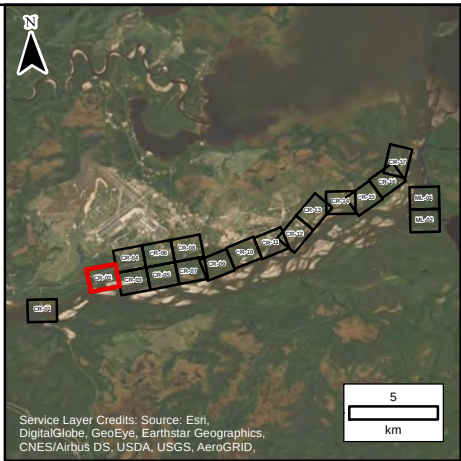
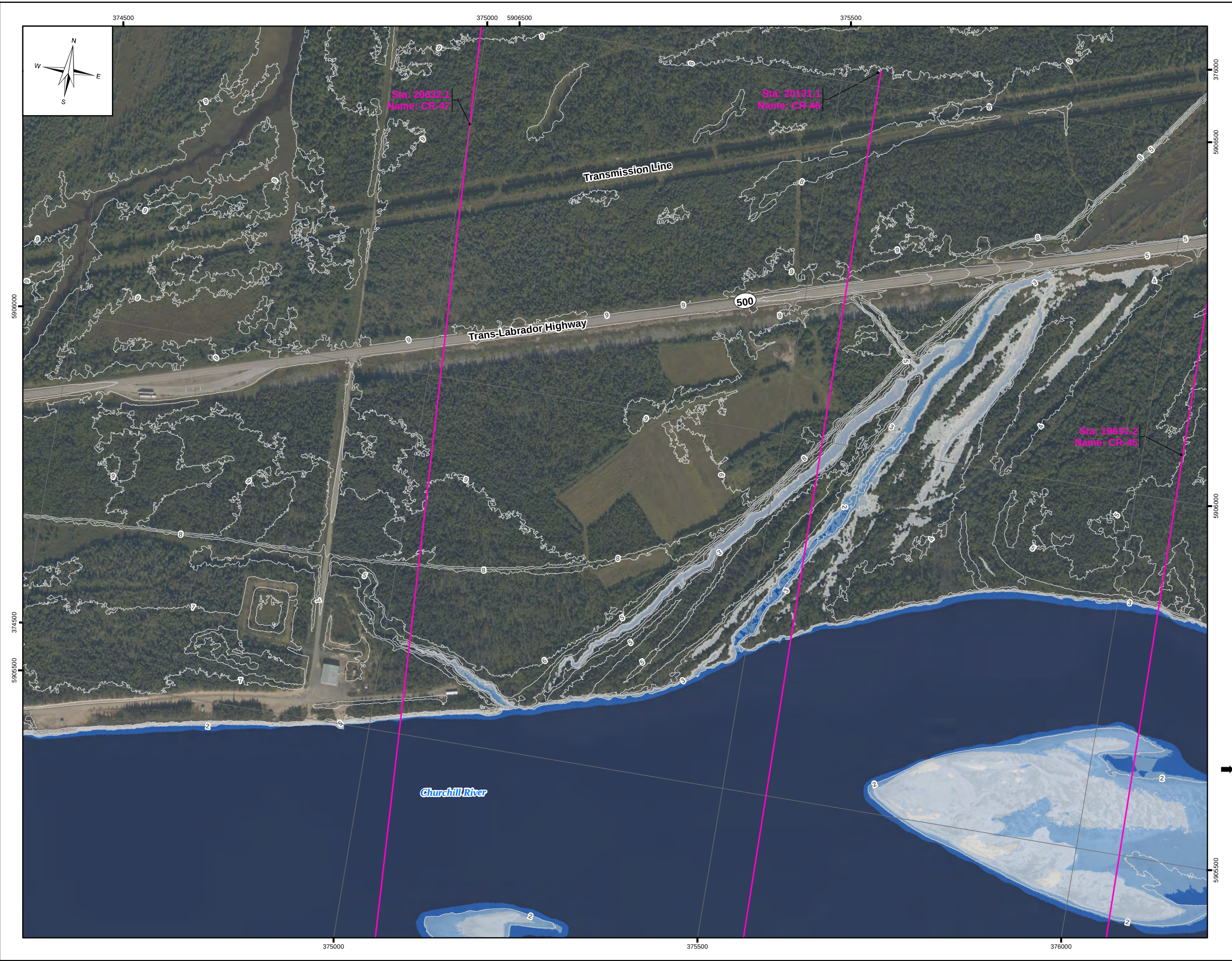
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

50 0 50 100 150 200
Metres

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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-01					
JUNE 2020		FIGURE 6.3		REV:	0



LEGEND:

- Sta: 23648
Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

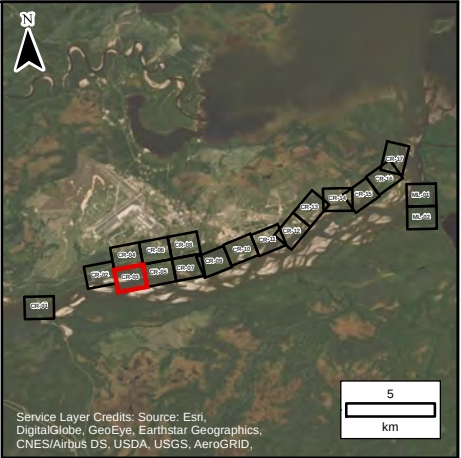
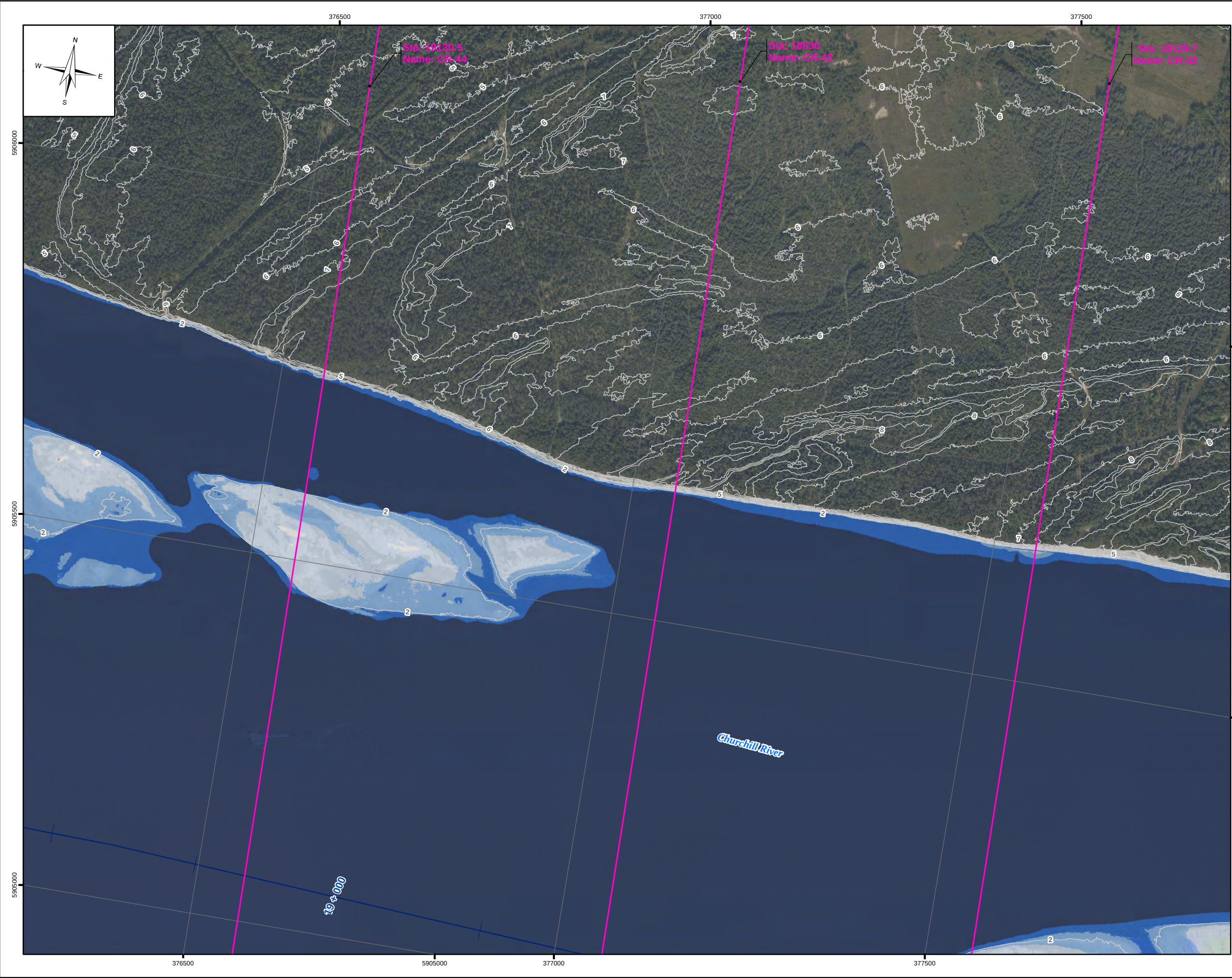
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-02

JUNE 2020	FIGURE 6.3	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

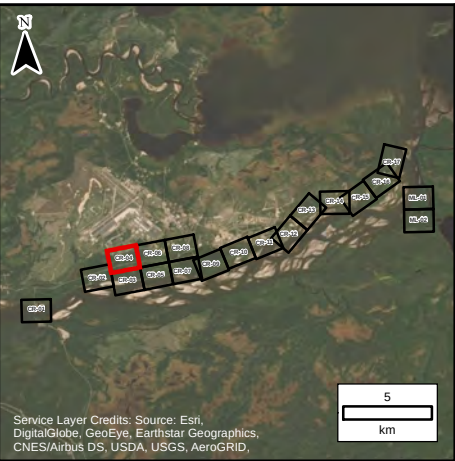
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

CHURCHILL RIVER FLOOD RISK AND FORECASTING		
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-03		
JUNE 2020	FIGURE 6.3	REV: 0

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File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.3_11x17.mxd
11"x17" PLOT SCALE 1:1



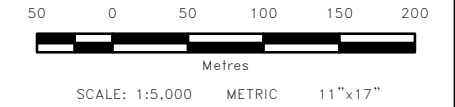
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

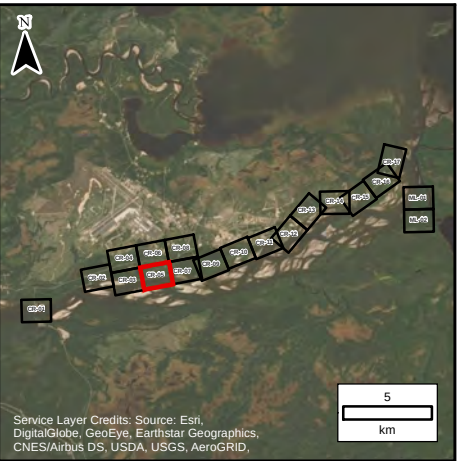
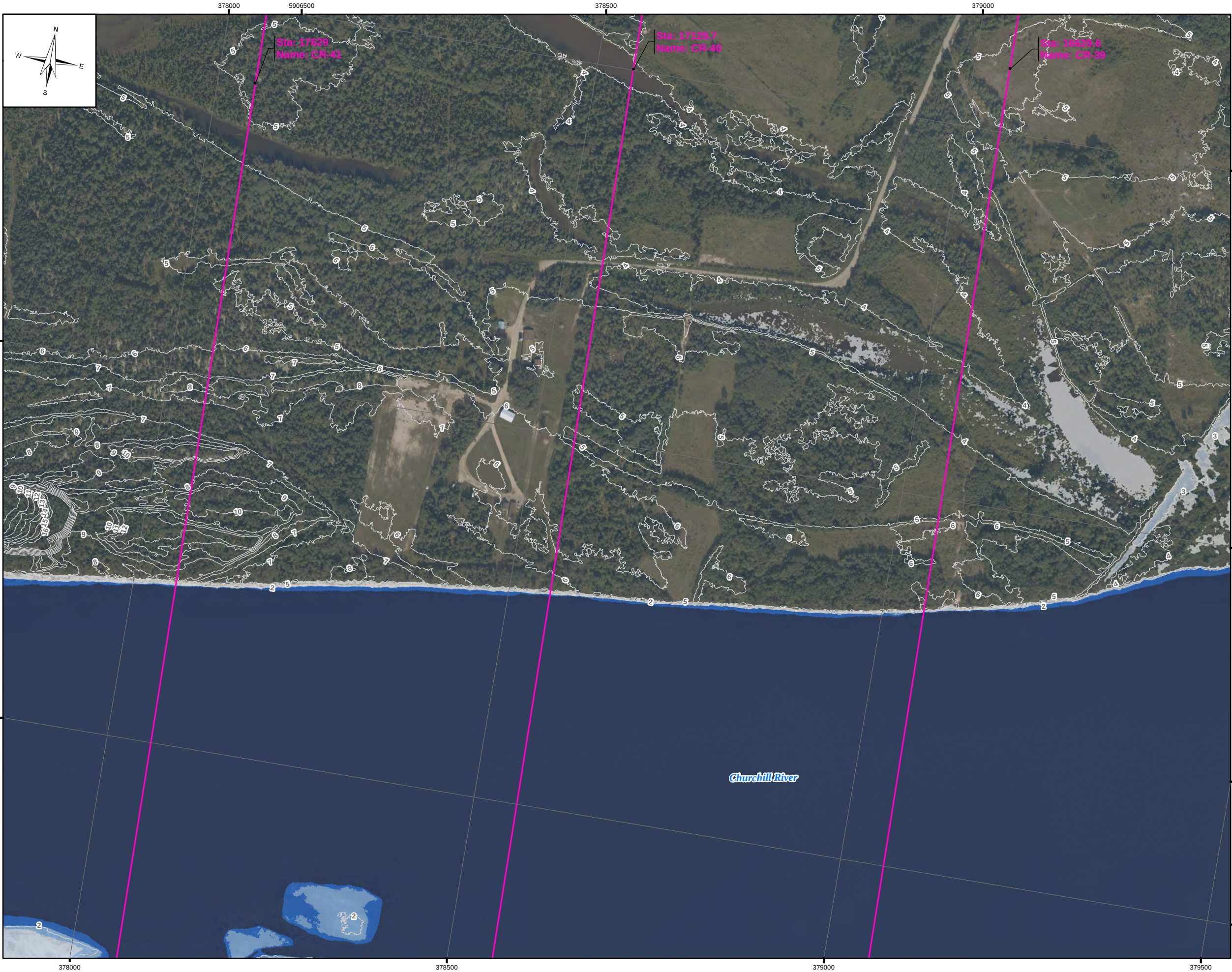
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-04					
JUNE 2020		FIGURE 6.3			REV: 0



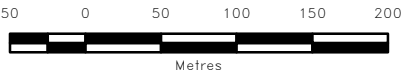
LEGEND:

- Sta: 23648
Name: CR-39
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

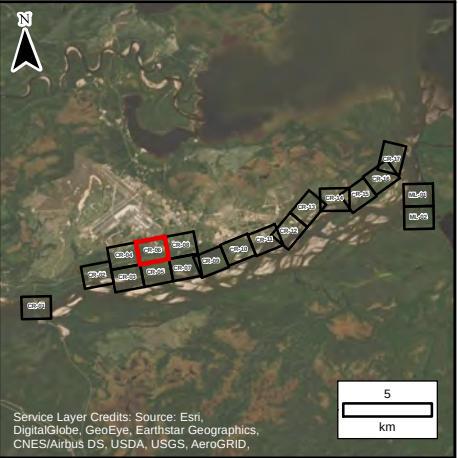
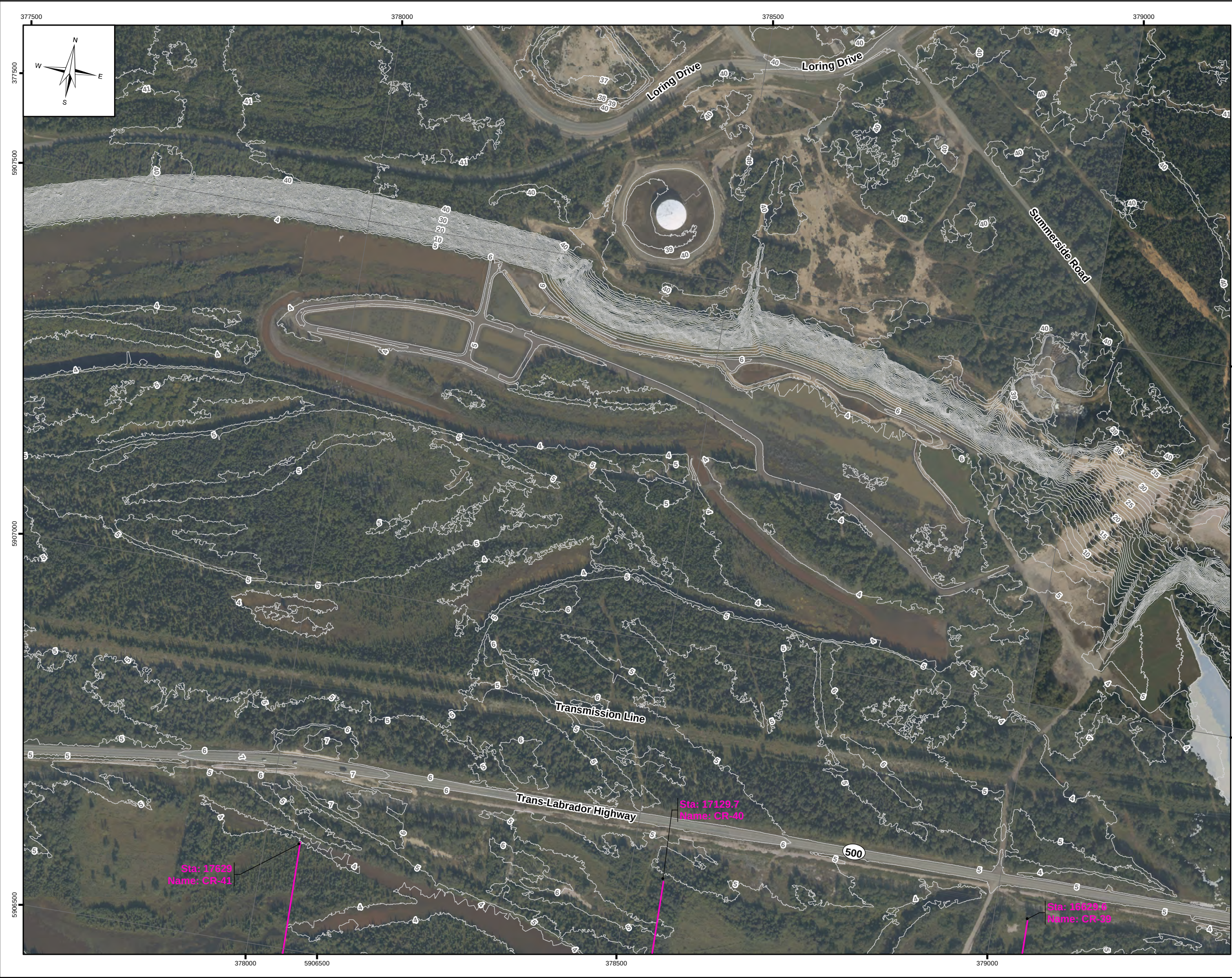
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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GROUP
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ENGINEERS

CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR
CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-05

JUNE 2020	FIGURE 6.3	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)

 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

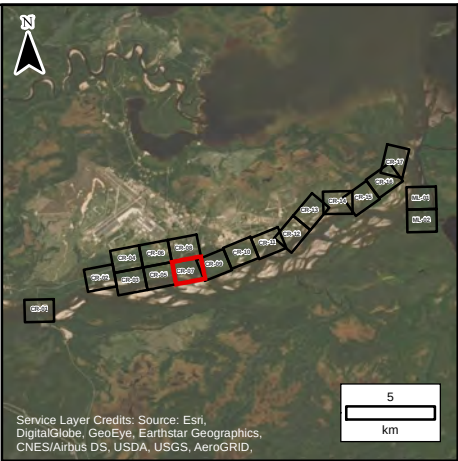
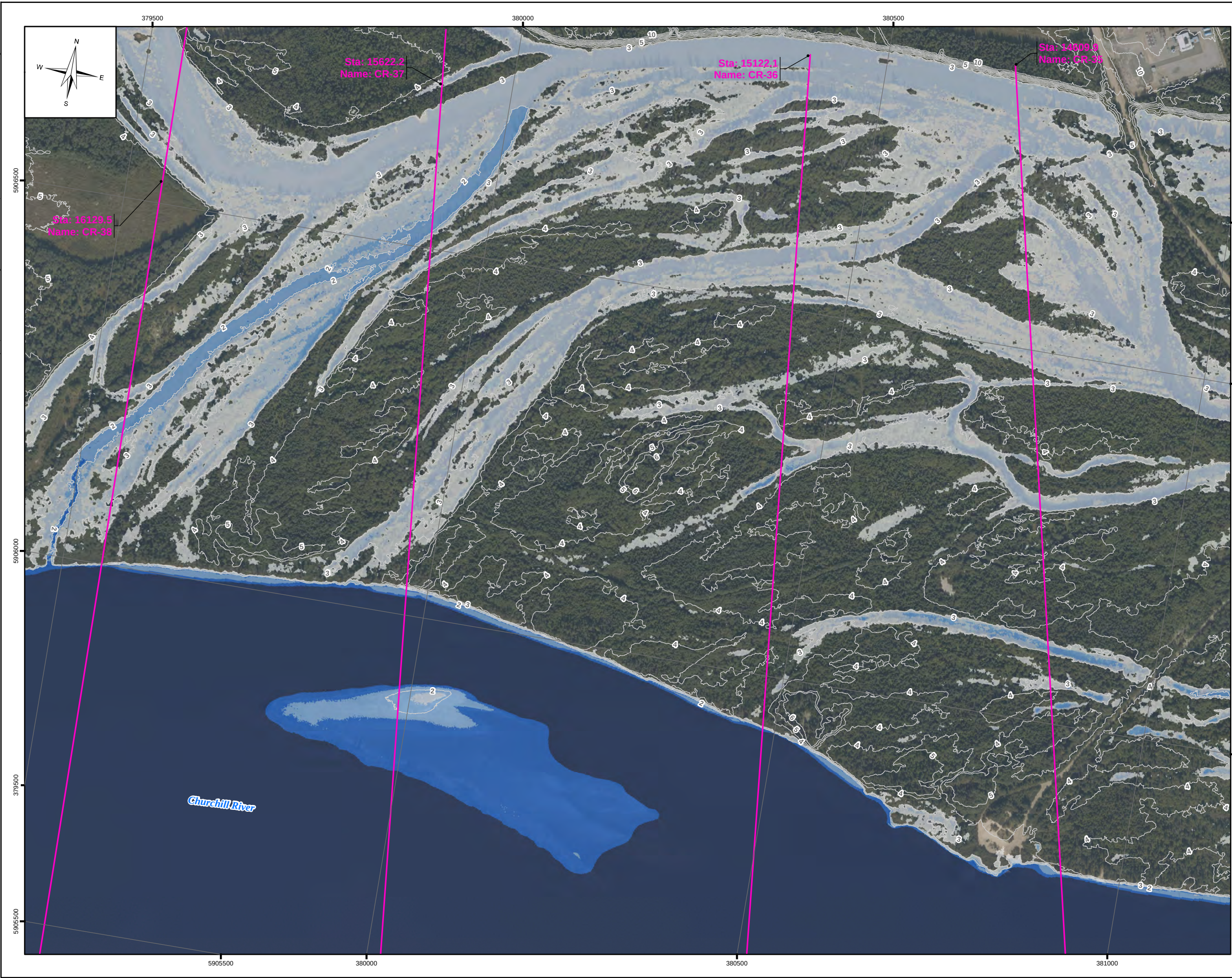
CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-06

JUNE 2020	FIGURE 6.3	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.3_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta. 23648 Name: CR-33 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

- Water Depth (m)
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

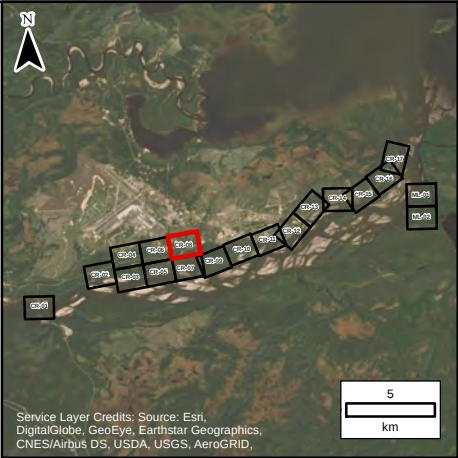
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-07

JUNE 2020	FIGURE 6.3	REV: 0
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LEGEND:

- Sta: 23648
Name: CR-53
Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

- 0.0 – 0.5 m
- 0.5 – 1.0 m
- 1.0 – 1.5 m
- 1.5 – 2.0 m
- > 2.0 m

NOTES:

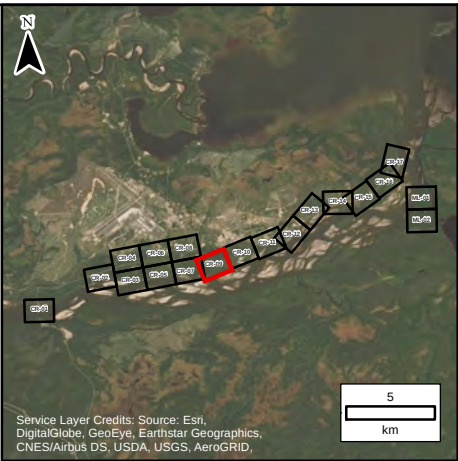
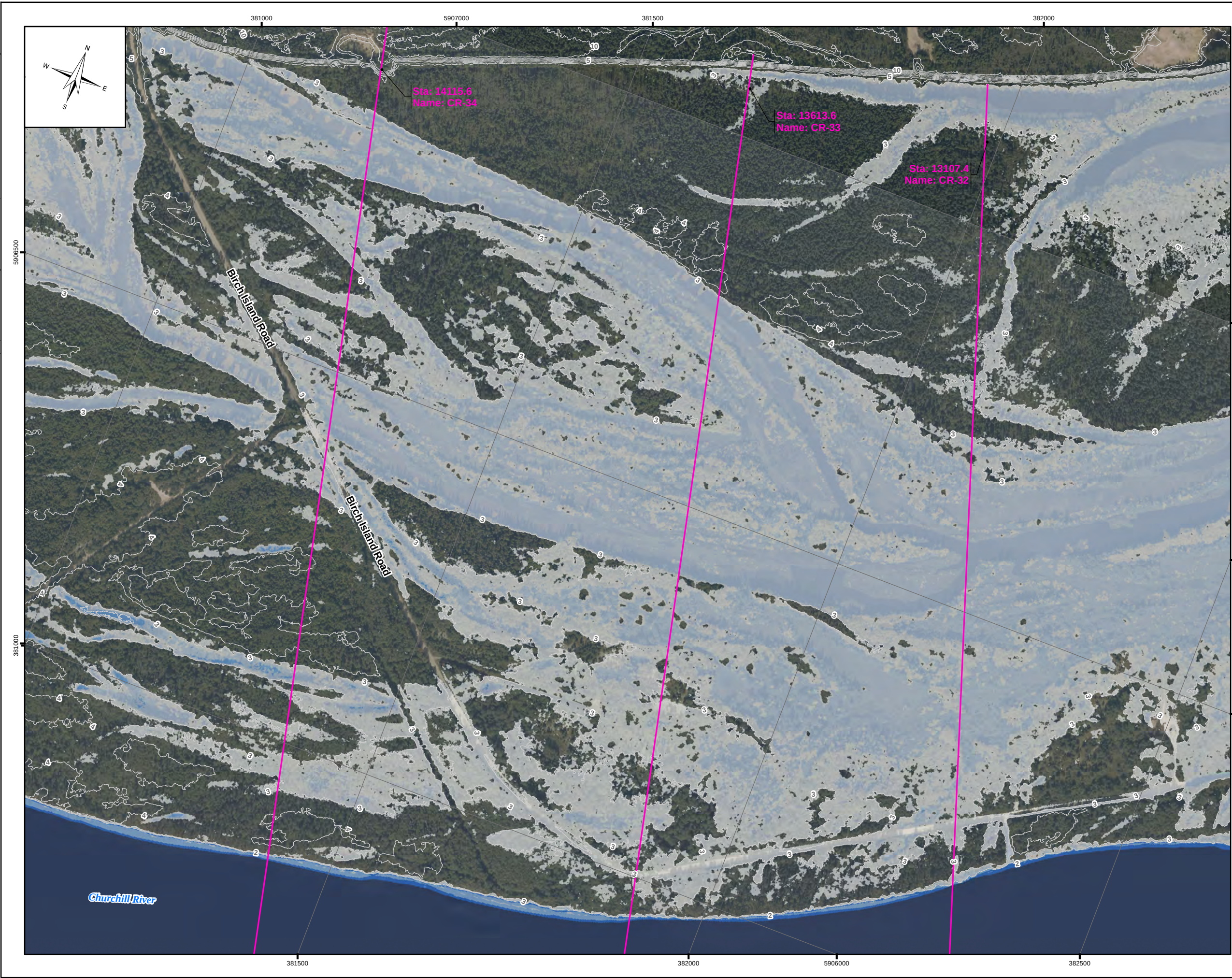
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-08					
JUNE 2020		FIGURE 6.3			REV: 0



LEGEND:

-  Sta: 23648
Name: CR-34
-  Water Survey of Canada Gauge Location
-  River Centreline
-  1m LiDAR Contour
- Water Depth (m)**
 -  0.0 – 0.5 m
 -  0.5 – 1.0 m
 -  1.0 – 1.5 m
 -  1.5 – 2.0 m
 -  > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



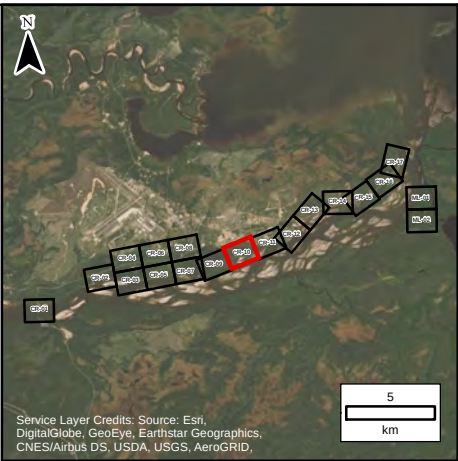
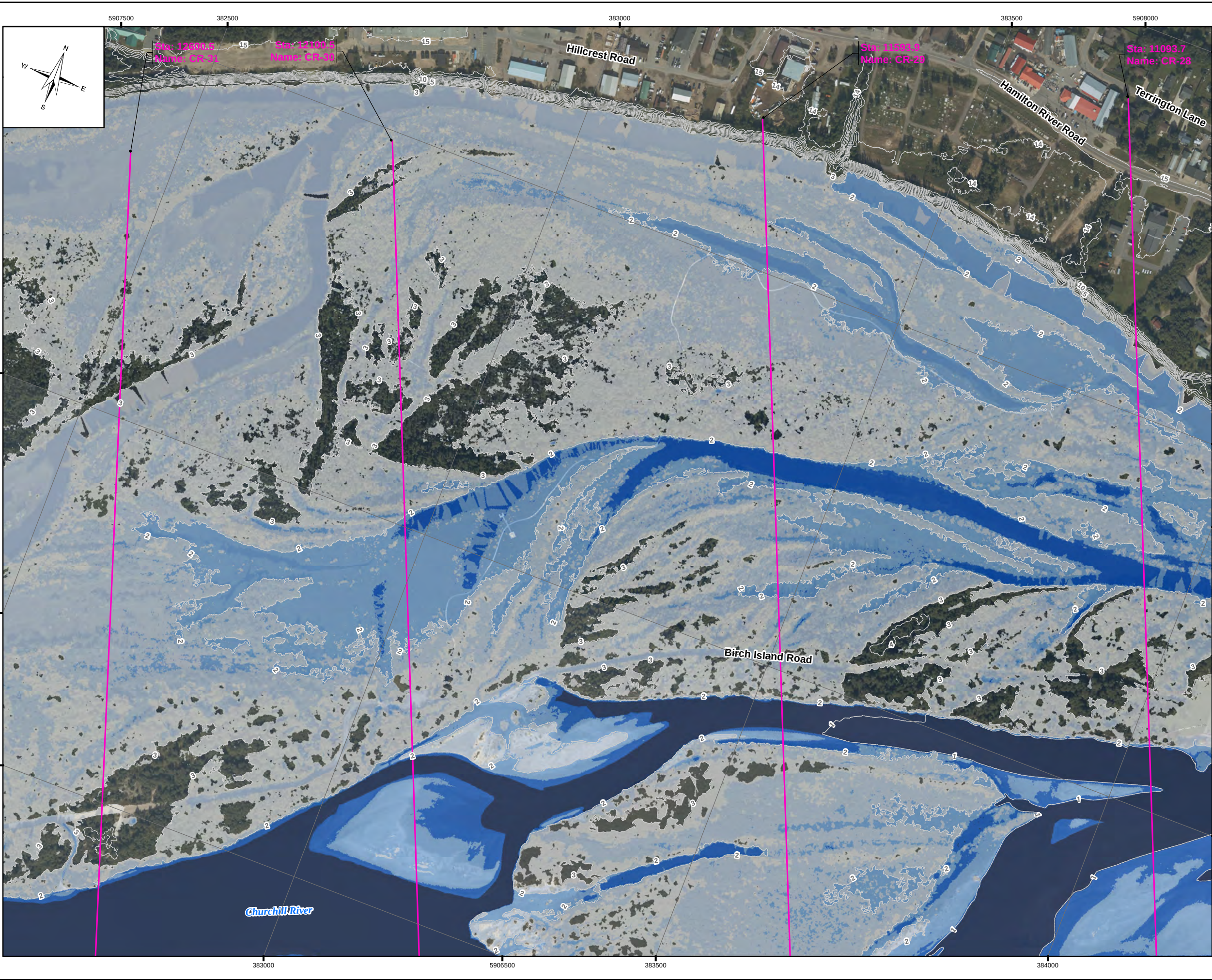
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW	
NO.	YY/MM/DD	DESCRIPTION			ISSUED BY	CHECK BY
REVISIONS / ISSUE						
						
CHURCHILL RIVER FLOOD RISK AND FORECASTING						
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-09						
JUNE 2020		FIGURE 6.3			REV: 0	

File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.3_11x17.mxd
11"x17" PLOT SCALE 1:1

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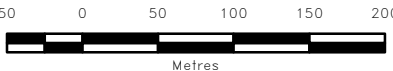


LEGEND:

- Sta: 23648 Name: CR-31 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

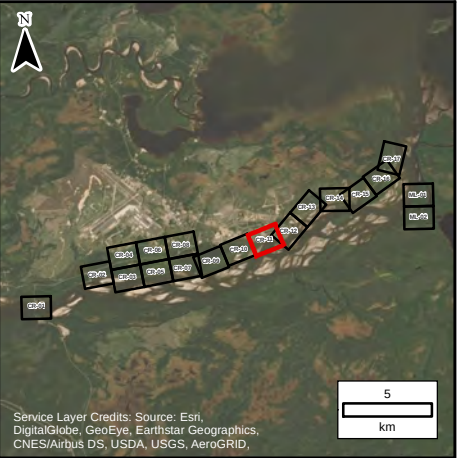
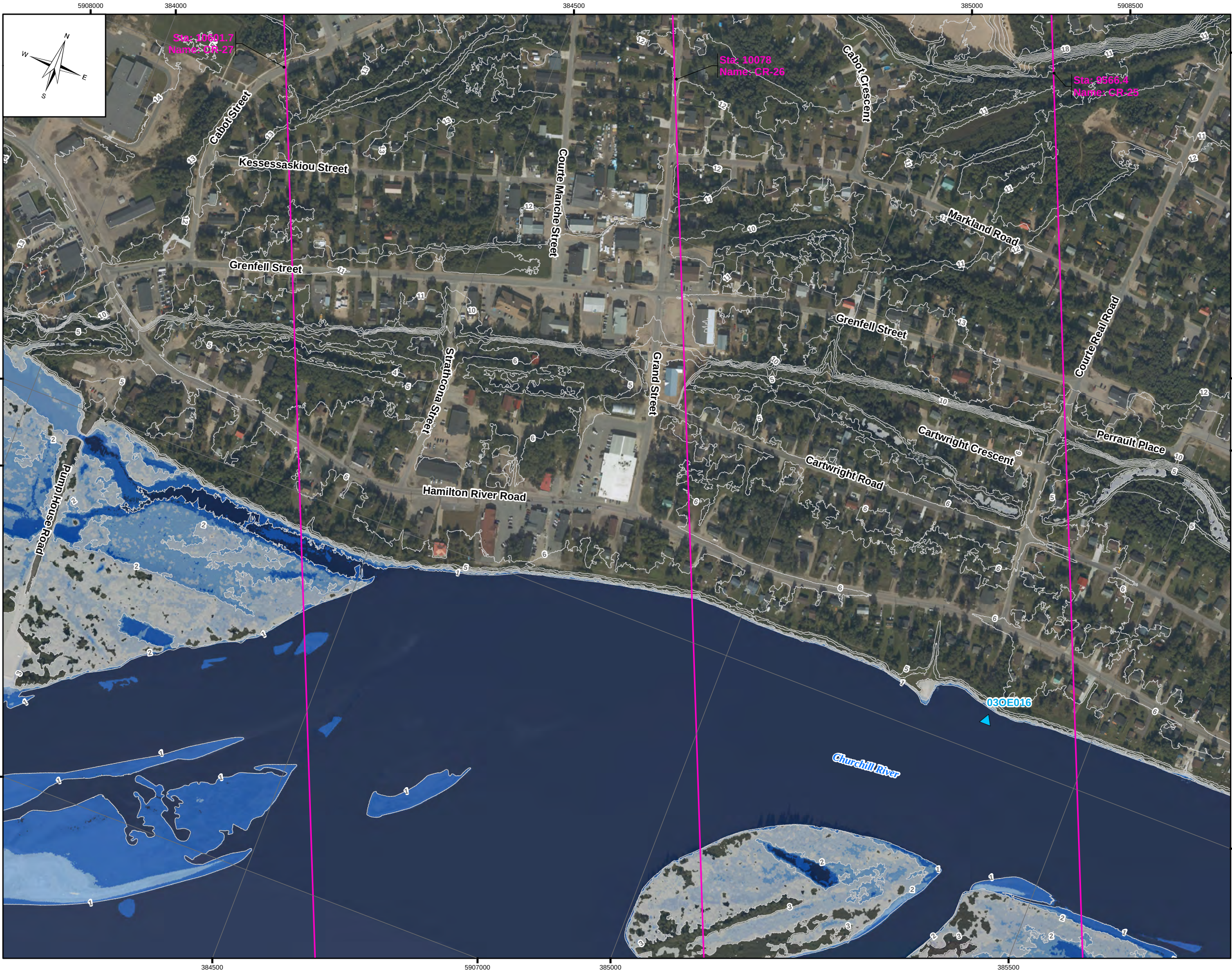
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-10

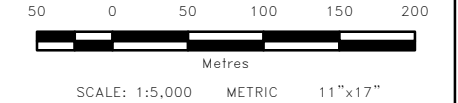
JUNE 2020	FIGURE 6.3	REV: 0
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- LEGEND:**
- Sta. 23648 Name: CR-53
 - Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LiDAR Contour

- Water Depth (m)**
- 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.





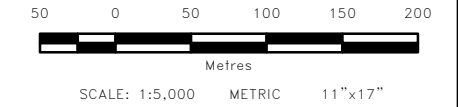
LEGEND:

- Sta: 23648 Name: CR-23 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

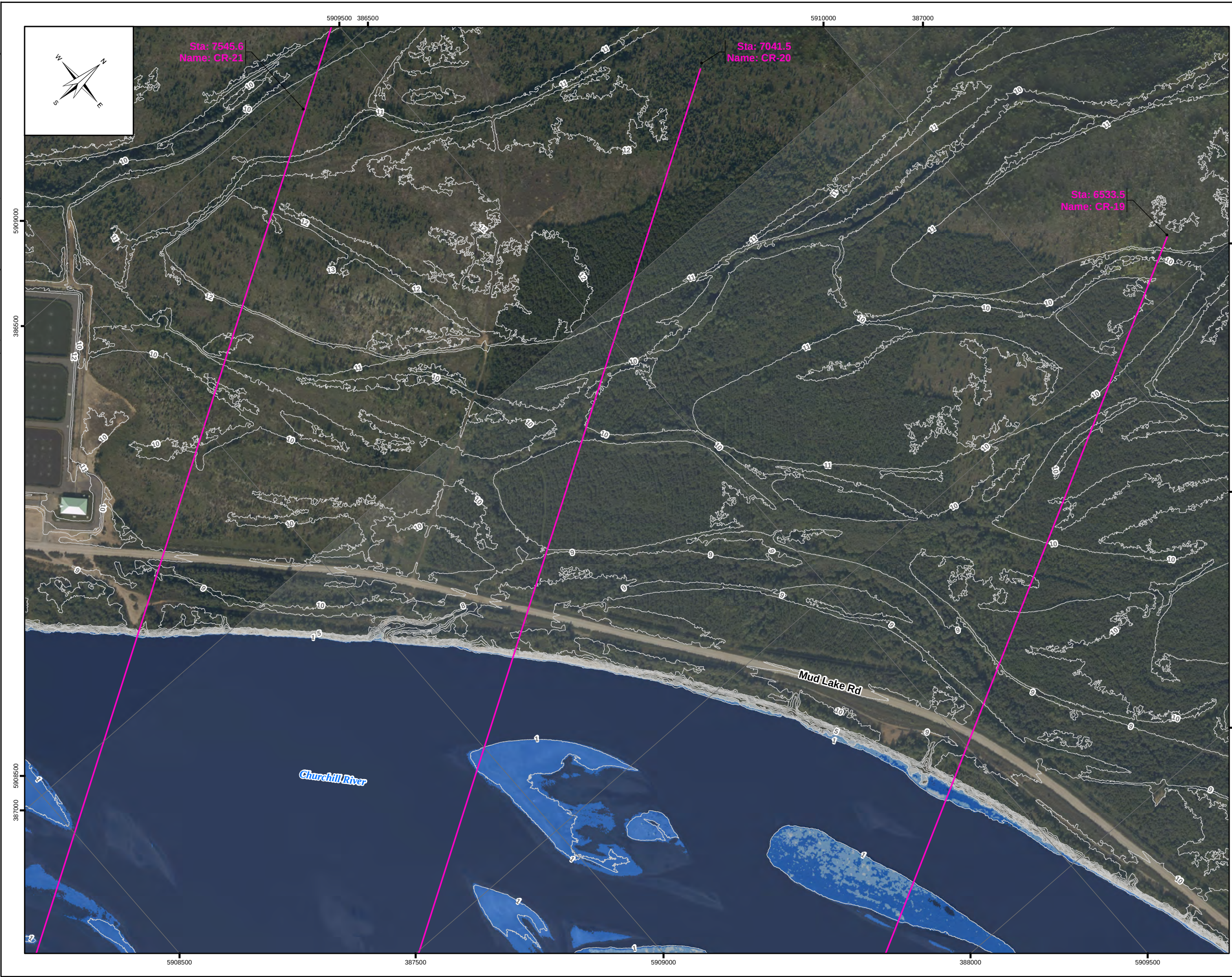
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-12				
JUNE 2020		FIGURE 6.3		REV: 0



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)	
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

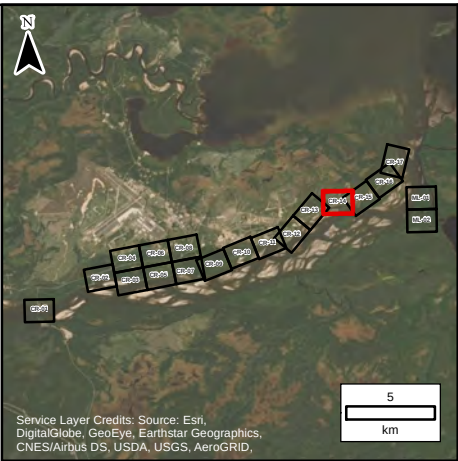
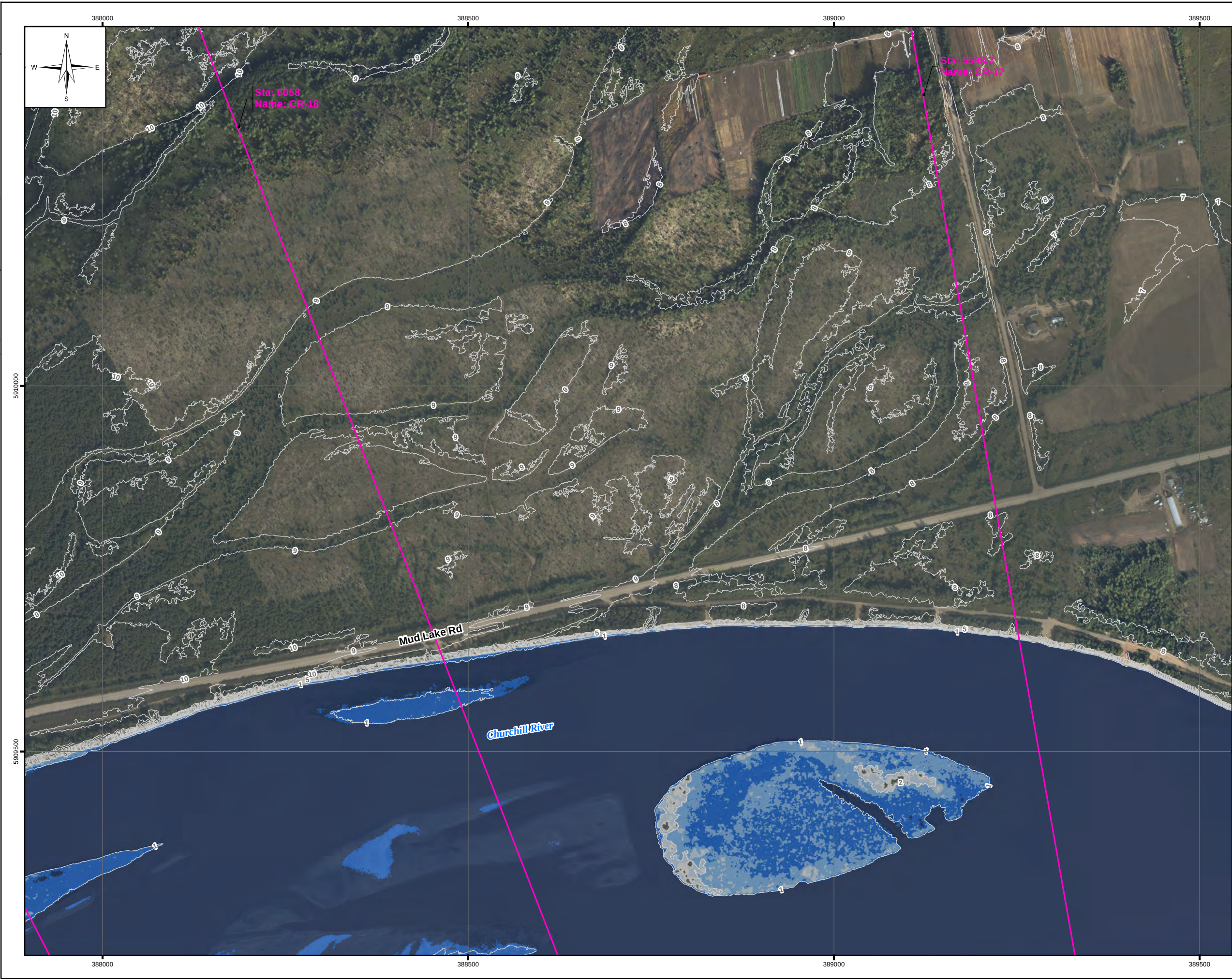
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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0	20/06/30	ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-13					
JUNE 2020		FIGURE 6.3		REV:	0

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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.3_11x17.mxd
11"x17" PLOT SCALE 1:1



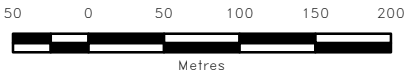
LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)	
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

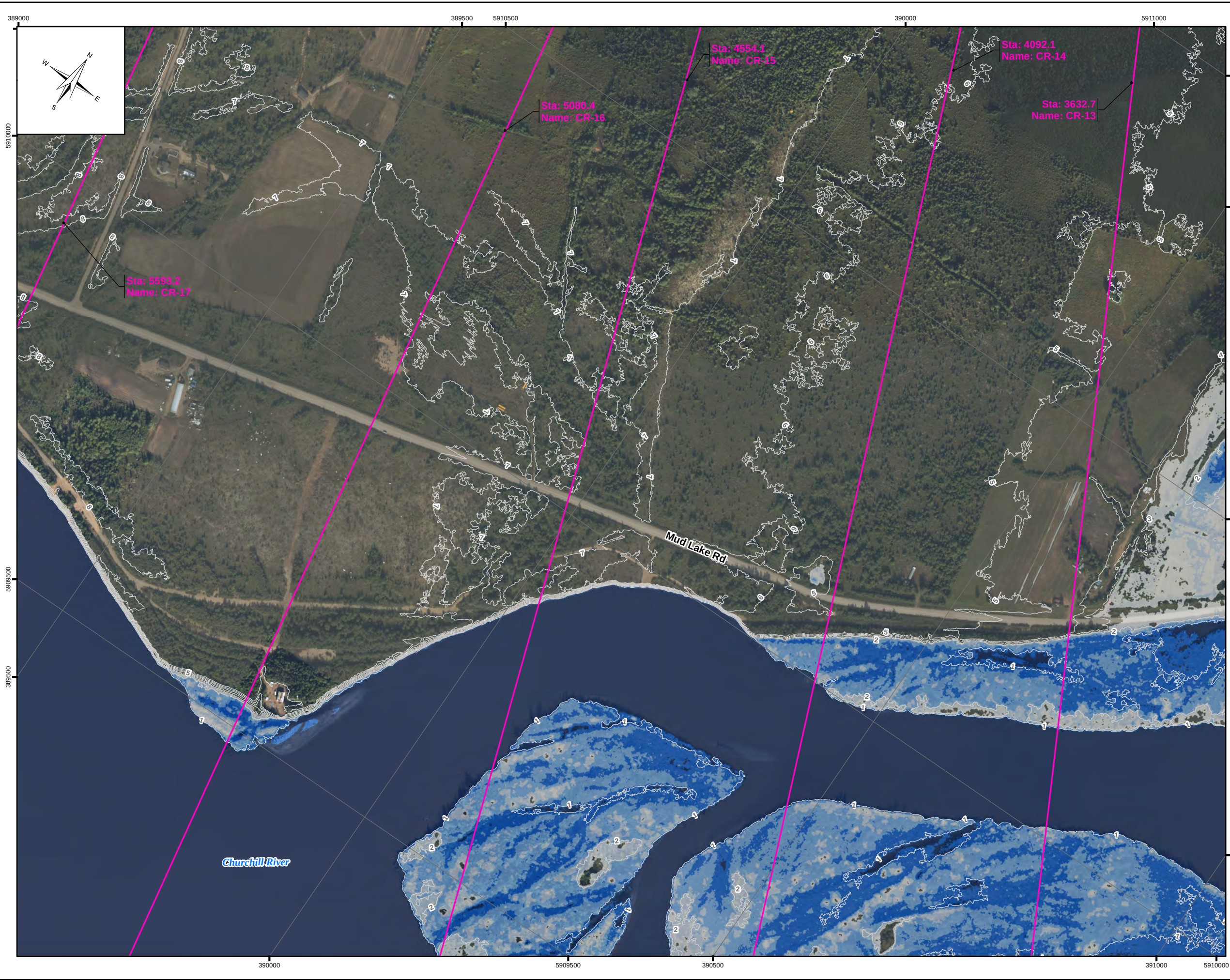


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

➡

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-14				
JUNE 2020		FIGURE 6.3		REV: 0



LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

➡

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-15

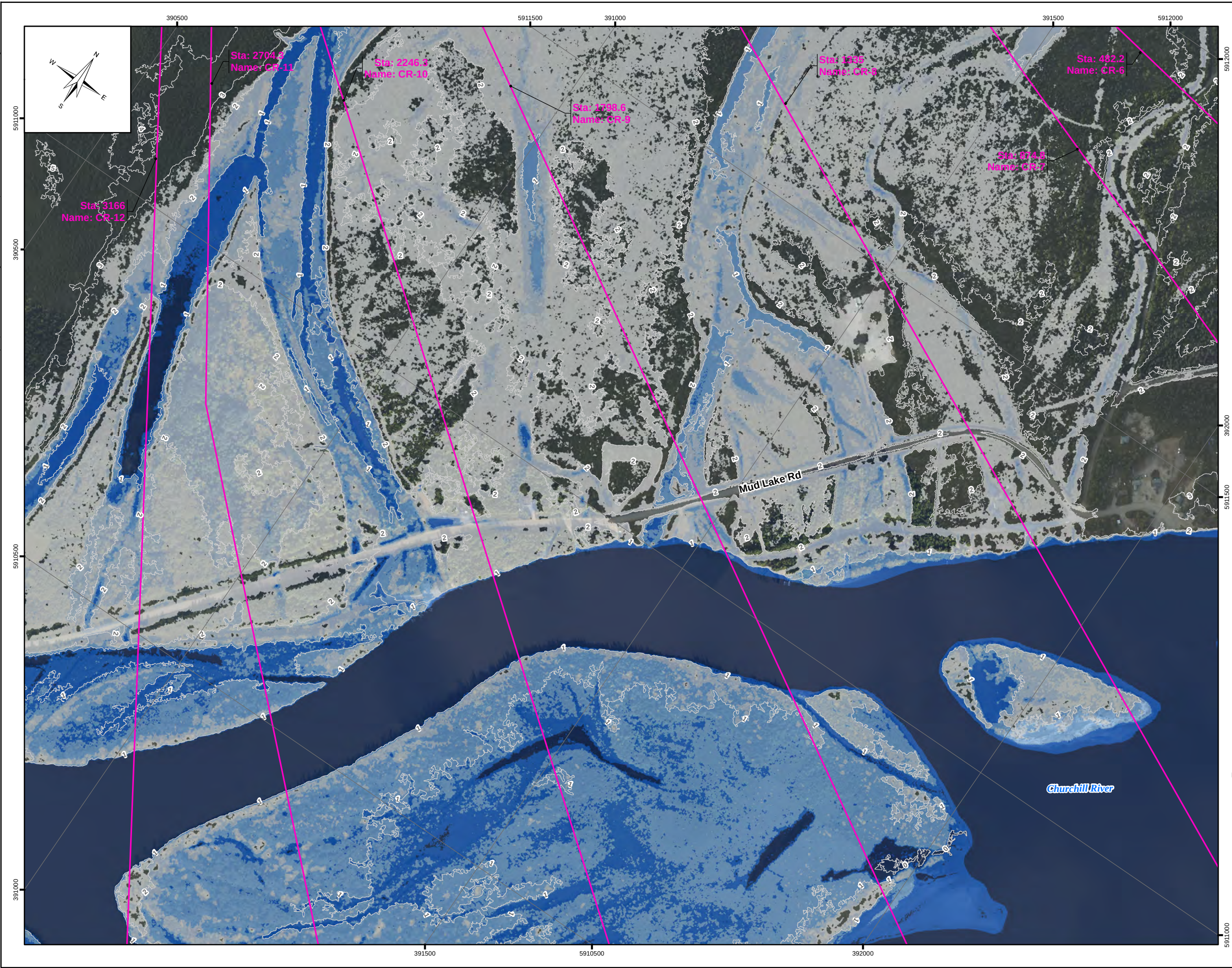
JUNE 2020

FIGURE 6.3

REV: 0

File Name: P:\Projects\2018\18-3217-001\Draw\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.3_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

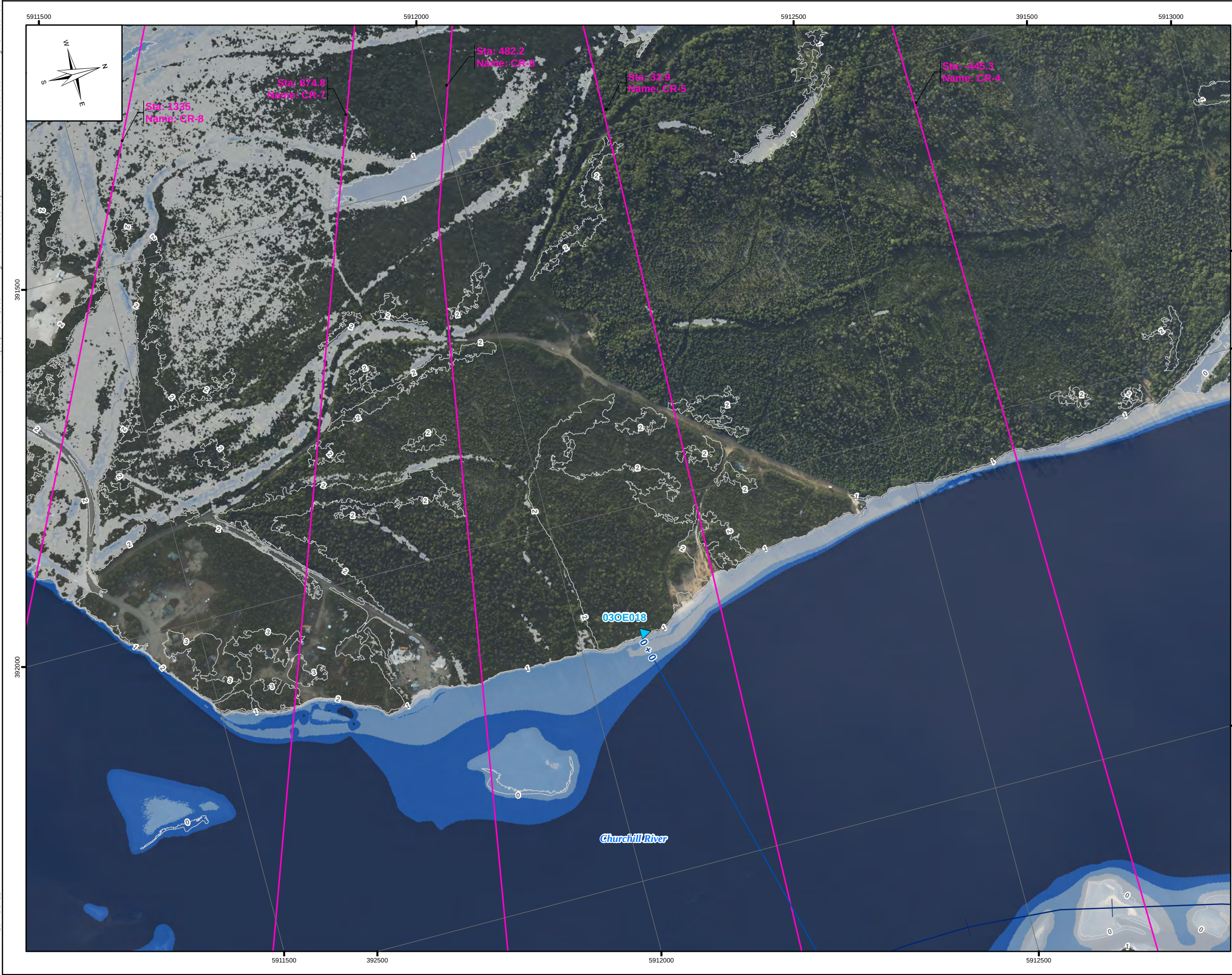
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				
				
CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-16				
JUNE 2020		FIGURE 6.3		REV: 0



LEGEND:

- Sta: 23648
Name: CR-53
- Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

REVISIONS / ISSUE

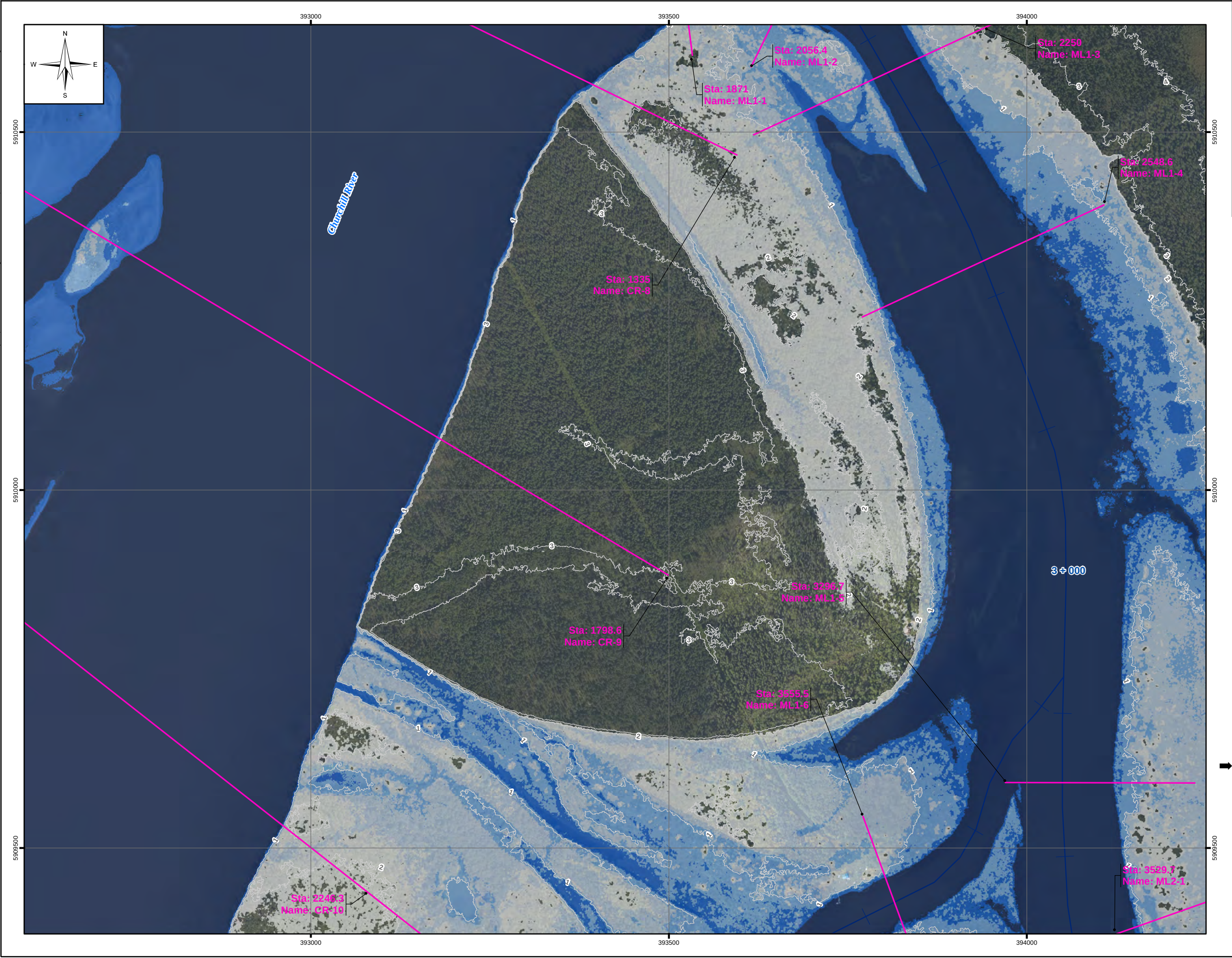
KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-17

JUNE 2020	FIGURE 6.3	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLIS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLIS Geomatics on September 11 – 13, 2019.



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

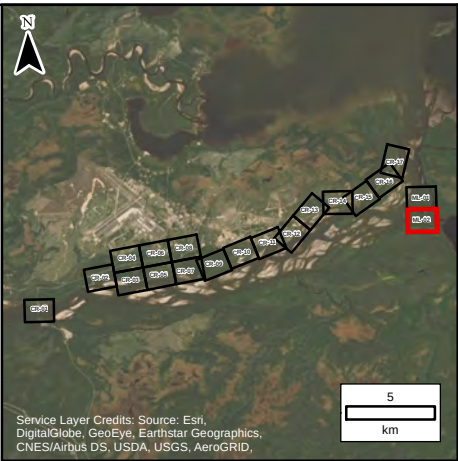
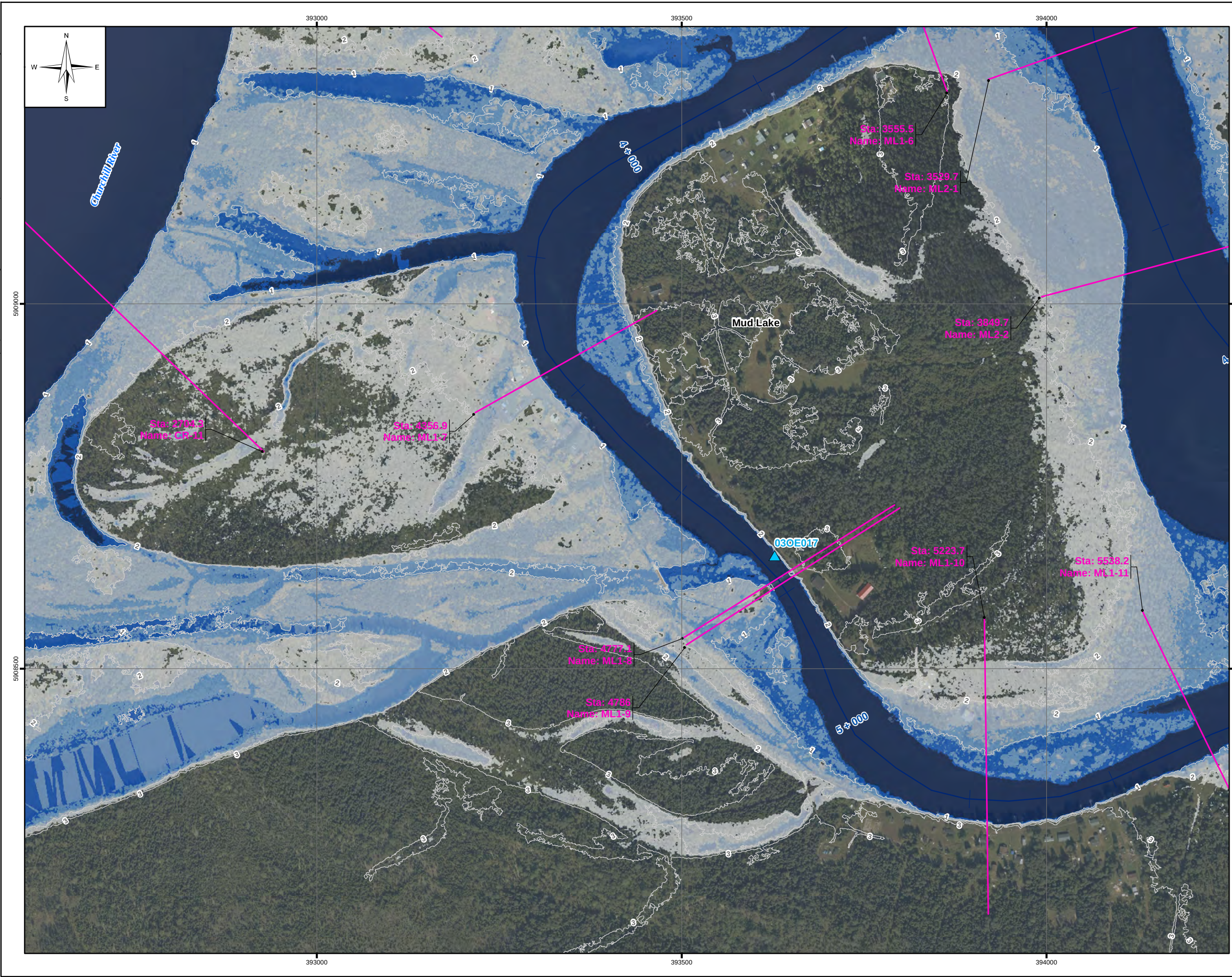
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – ML-01



LEGEND:

- Sta: 23648 Name: CH-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 - 0.5 m
 - 0.5 - 1.0 m
 - 1.0 - 1.5 m
 - 1.5 - 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 - 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 - 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:20 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS - ML-02

JUNE 2020	FIGURE 6.3	REV: 0
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LEGEND:

- Water Survey of Canada Gauge Location
- River Centreline
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m
- Map Extents

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019, and by ESRI and DigitalGlobe, WV02 dated June 3, 2015.



SCALE: 1:100,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

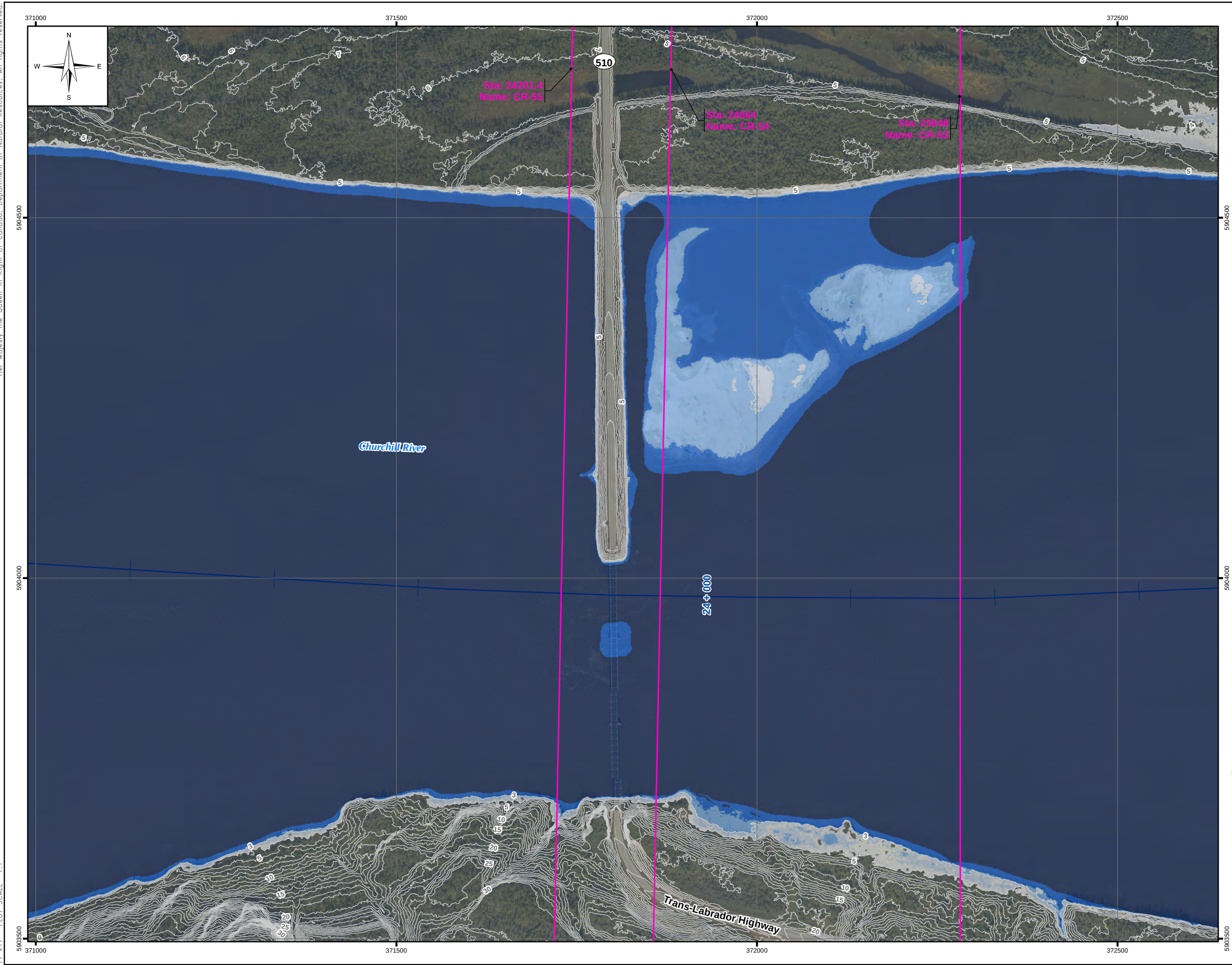
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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – OVERVIEW MAP

JUNE 2020	FIGURE 6.4	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53
Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LiDAR Contour
- Water Depth (m)
- | | |
|--|-------------|
| | 0.0 – 0.5 m |
| | 0.5 – 1.0 m |
| | 1.0 – 1.5 m |
| | 1.5 – 2.0 m |
| | > 2.0 m |

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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	NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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KGS
GROUP
CONSULTING
ENGINEERS

Newfoundland
Labrador

CHURCHILL RIVER FLOOD RISK
AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR
CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-01

JUNE 2020

FIGURE 6.4

REV: 0



LEGEND:

-  S22648
 Name: CR-S3
 Cross Section
 Water Survey of Canada
 Gauge Location
 River Centreline
 1m LiDAR Contour

Water Depth (m)

- | | |
|---|-------------|
|  | 0.0 – 0.5 m |
|  | 0.5 – 1.0 m |
|  | 1.0 – 1.5 m |
|  | 1.5 – 2.0 m |
|  | > 2.0 m |

NOTES

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



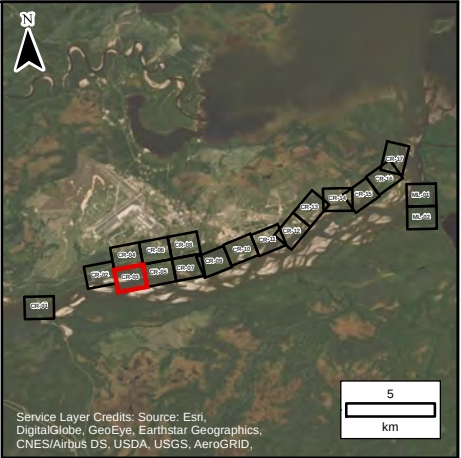
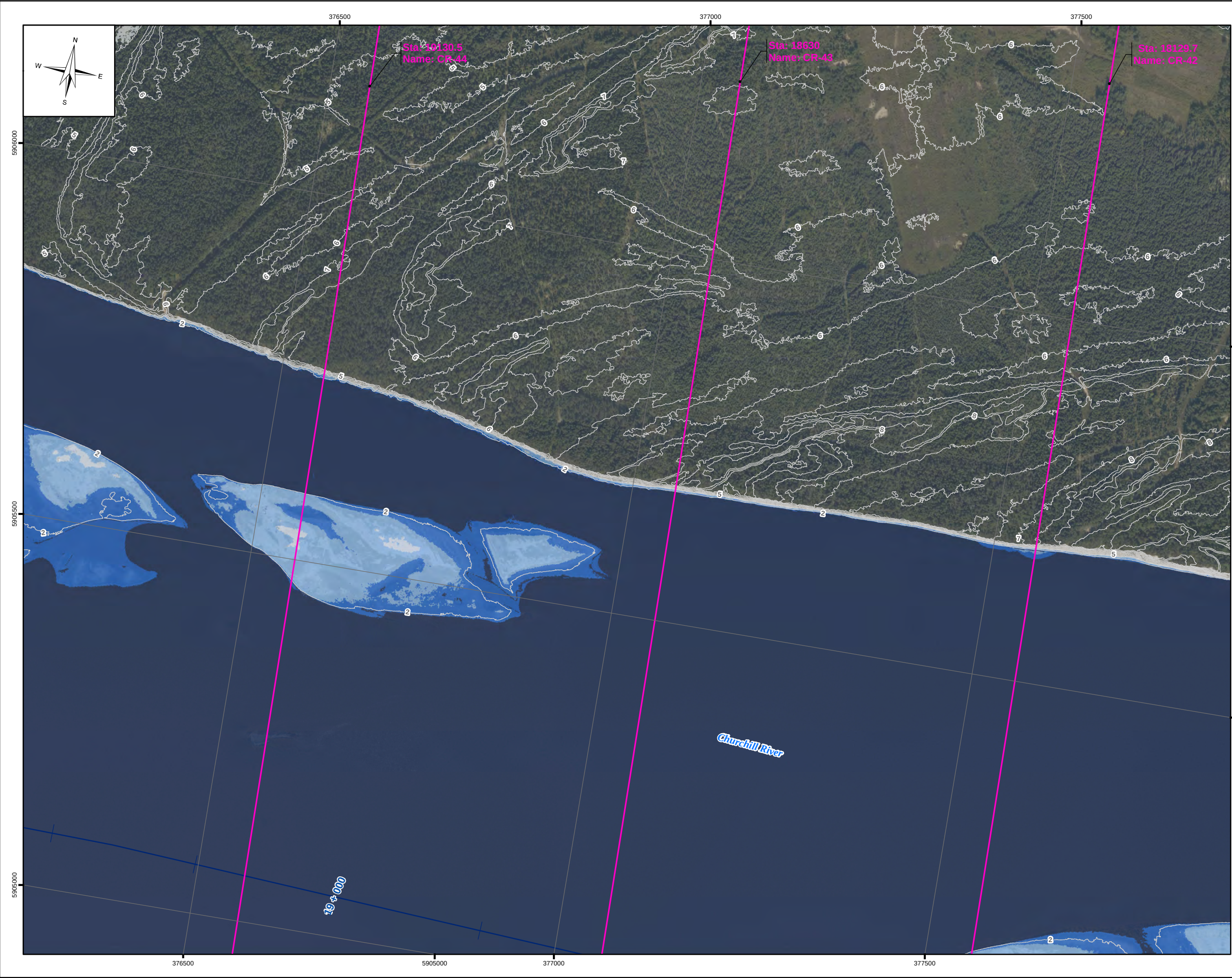
CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR
CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS - CR-02

JUNE 2020

FIGURE 6.4

REV:



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
> 2.0 m color swatch"/>	> 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



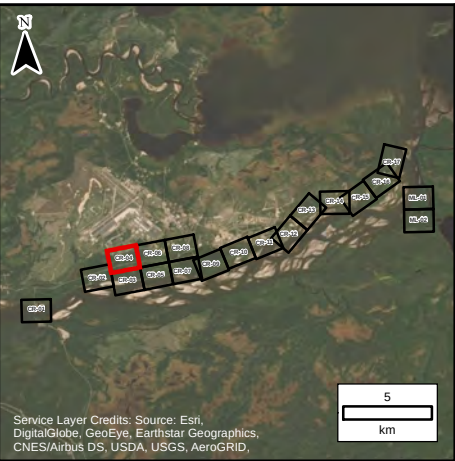
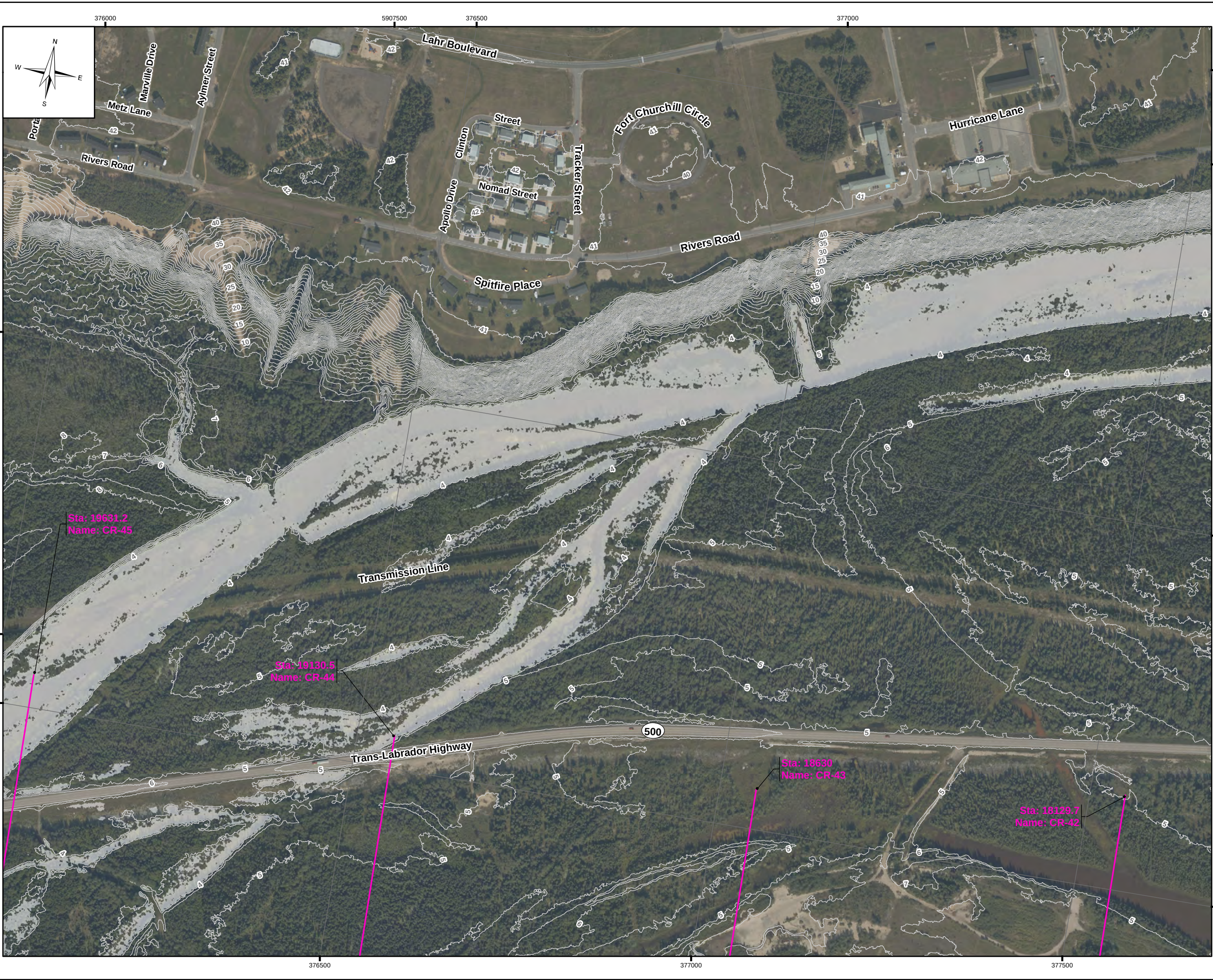
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

➡	0 20/06/30 ISSUED WITH FINAL REPORT		DSB	MSW
	NO. Y1/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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CHURCHILL RIVER FLOOD RISK AND FORECASTING		
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-03		
JUNE 2020	FIGURE 6.4	REV: 0



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

- 0.0 - 0.5 m
- 0.5 - 1.0 m
- 1.0 - 1.5 m
- 1.5 - 2.0 m
- > 2.0 m

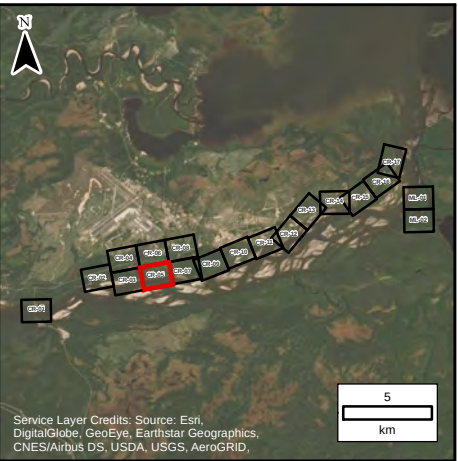
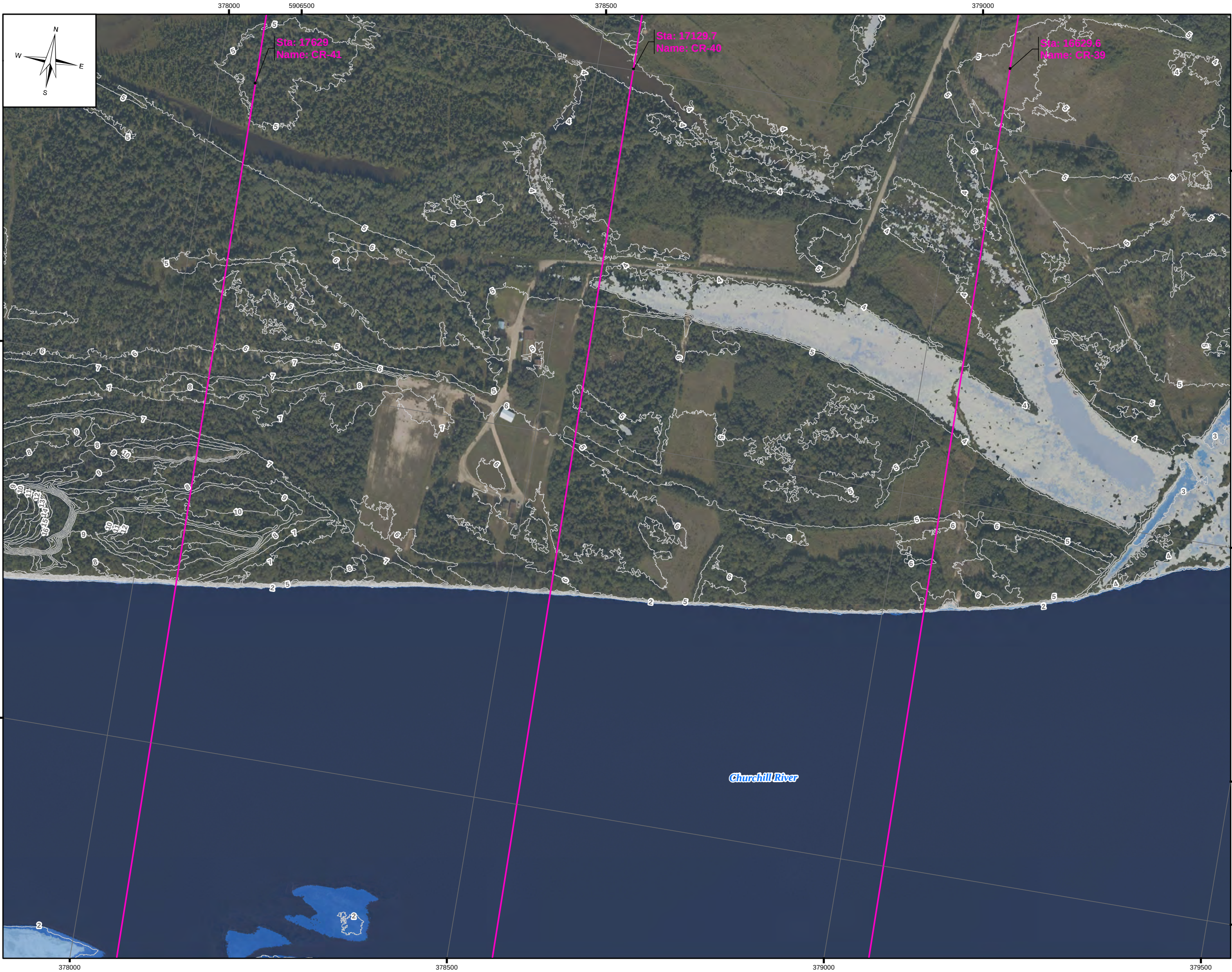
NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 - 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 - 13, 2019.

50 0 50 100 150 200
Metres
SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW	
NO.	YY/MM/DD	DESCRIPTION			ISSUED BY	CHECK BY
REVISIONS / ISSUE						
						
CHURCHILL RIVER FLOOD RISK AND FORECASTING						
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS - CR-04						
JUNE 2020		FIGURE 6.4			REV: 0	

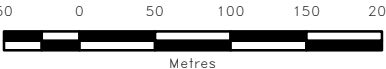


LEGEND:

- Sta: 23648 Name: CR-39 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

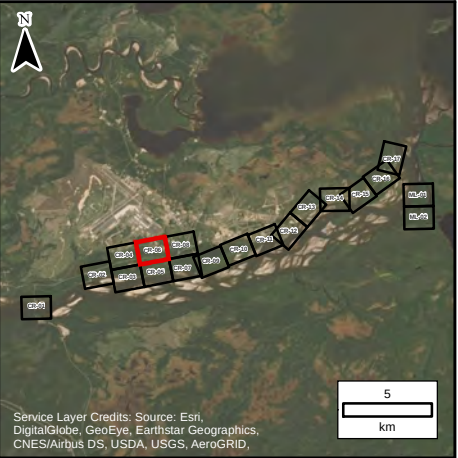
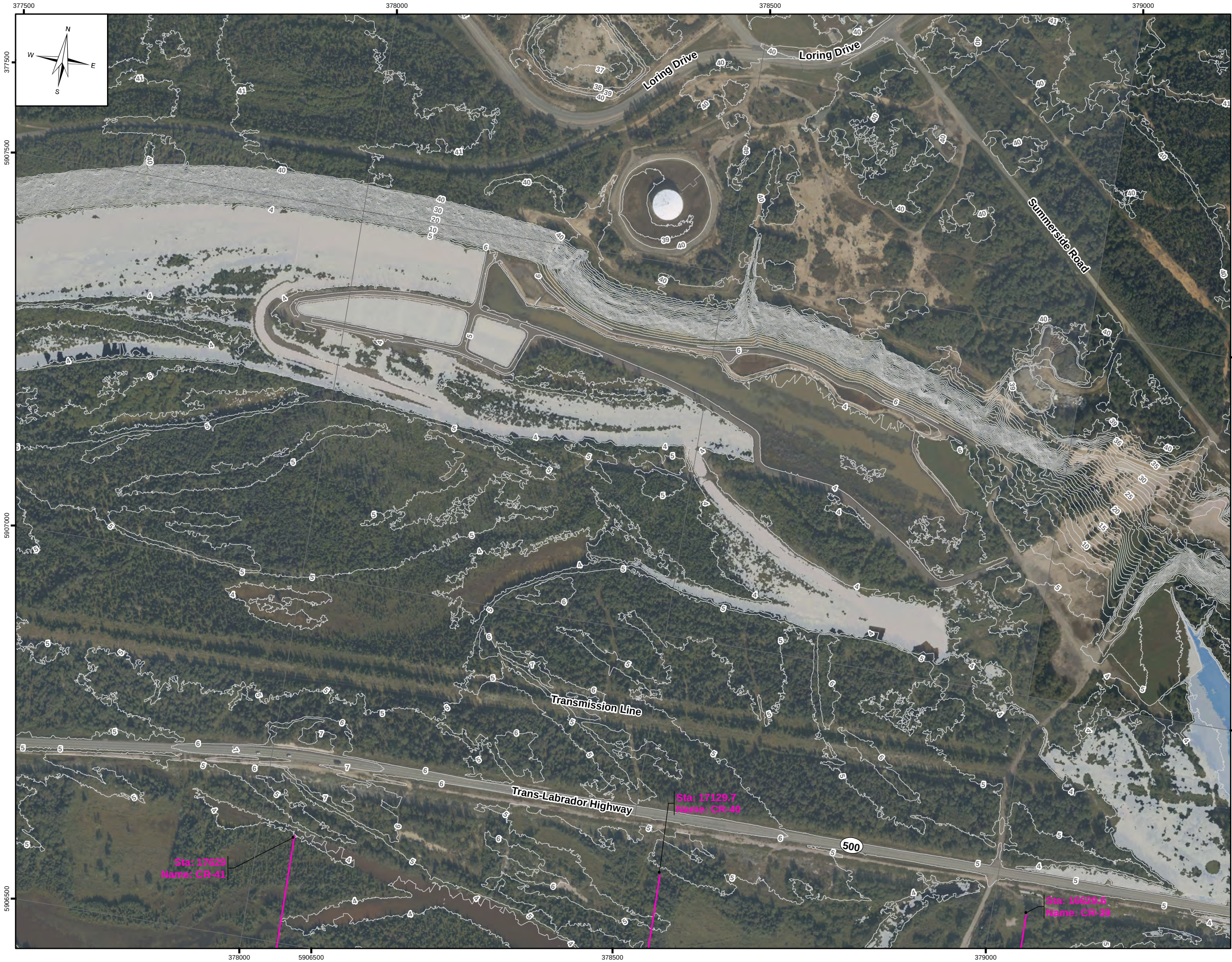
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-05

JUNE 2020	FIGURE 6.4	REV: 0
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LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

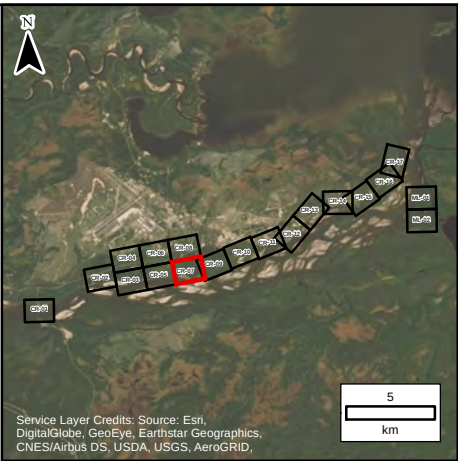
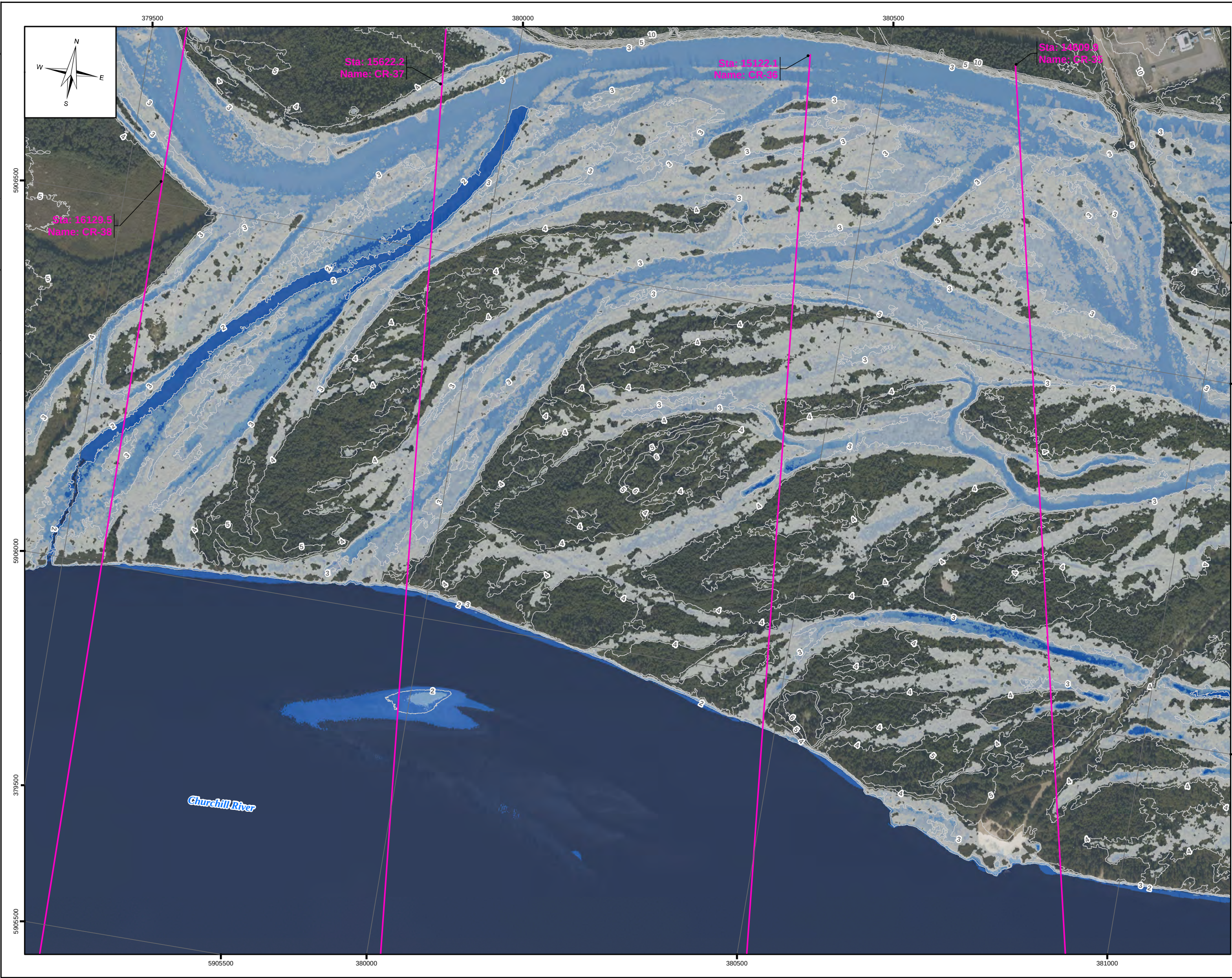
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
REVISIONS / ISSUE					
					
CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-06					
JUNE 2020		FIGURE 6.4			REV: 0



LEGEND:

- Sta. 23648 Name: CR-33
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

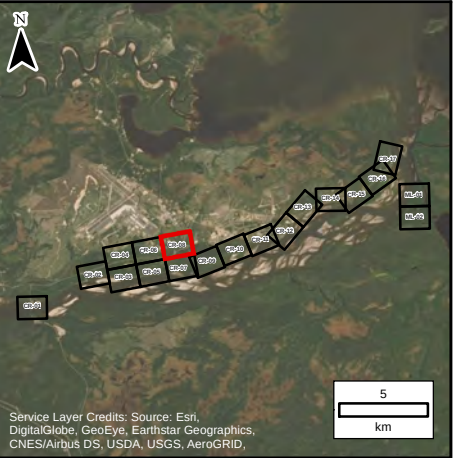
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				



CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-07

JUNE 2020	FIGURE 6.4	REV: 0
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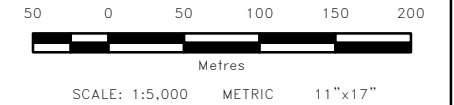
LEGEND:

- Sta: 23648
Name: CR-53
Cross Section
- Water Survey of Canada
Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

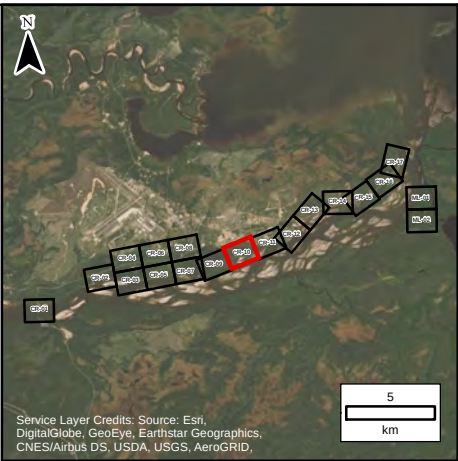
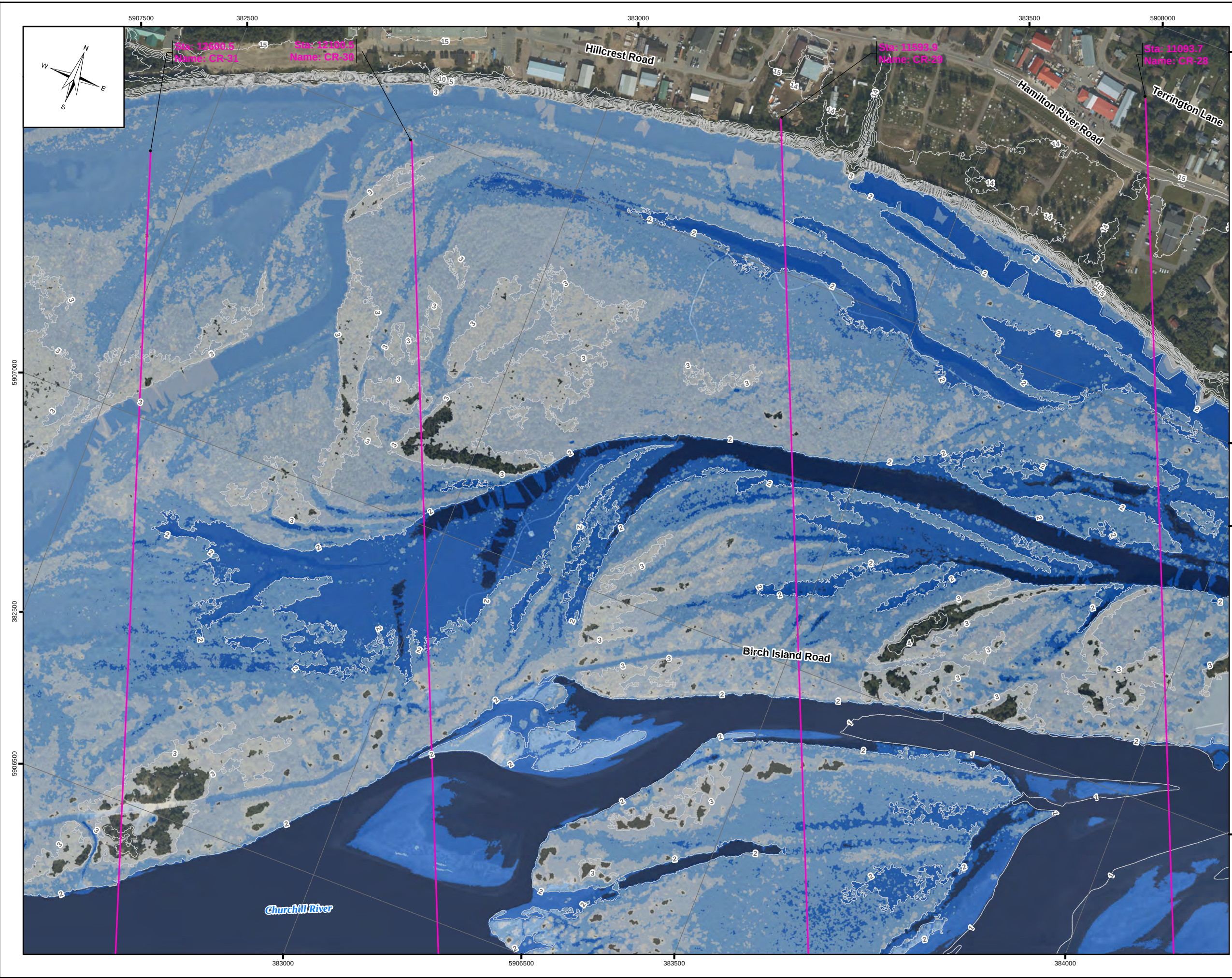
- NOTES:**
1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
 2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



All units are metric and in metres unless otherwise specified.
Horizontal 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).

0 20/06/30		ISSUED WITH FINAL REPORT		DSB	MSW
NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-08					
JUNE 2020		FIGURE 6.4		REV:	0





LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

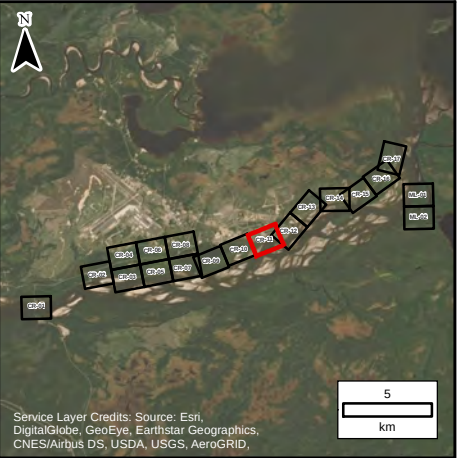
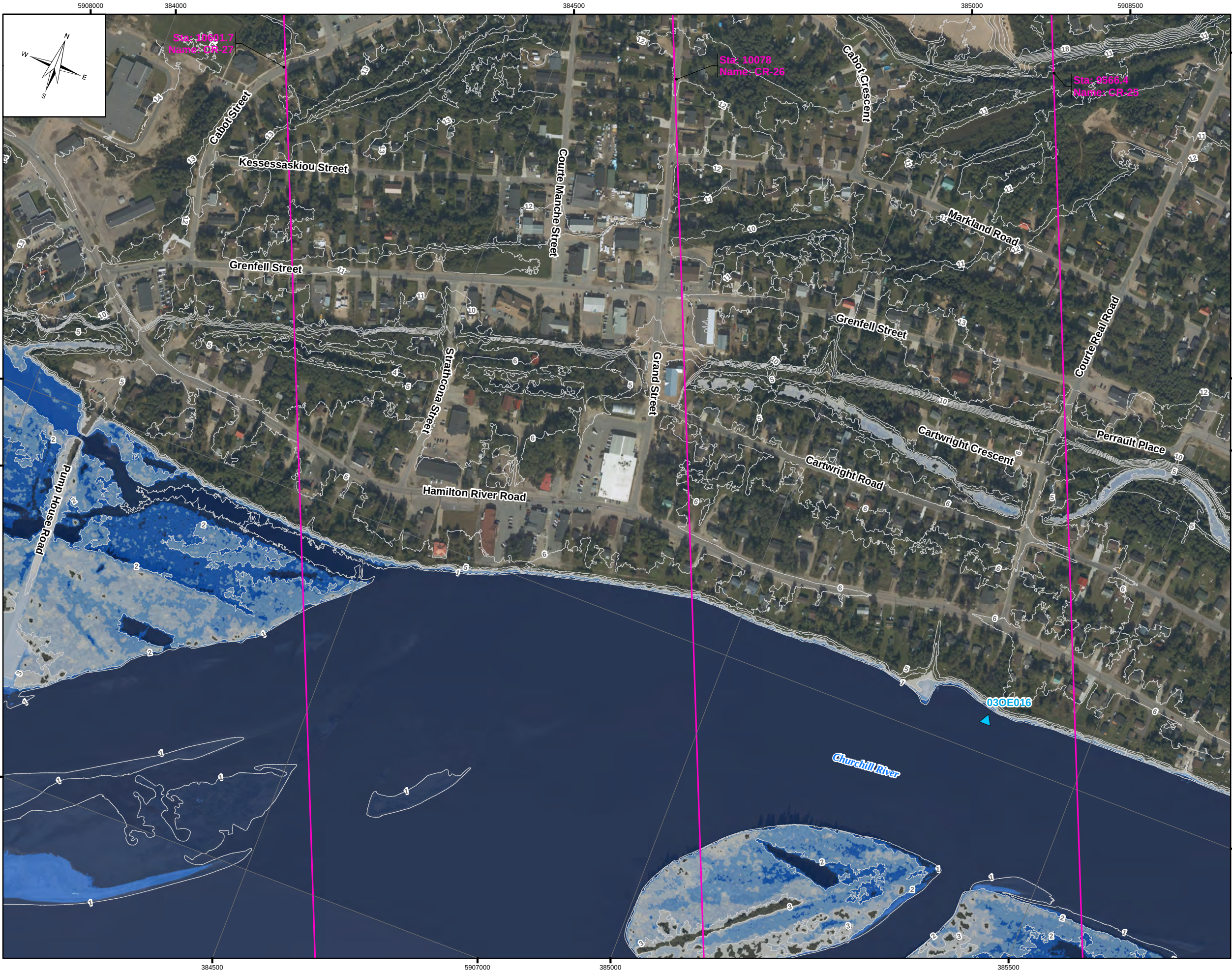


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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NO.	YY/MM/DD	DESCRIPTION		ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING					
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-10					
JUNE 2020		FIGURE 6.4		REV:	0



LEGEND:

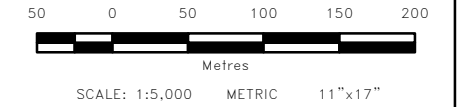
- Sta. 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)

	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



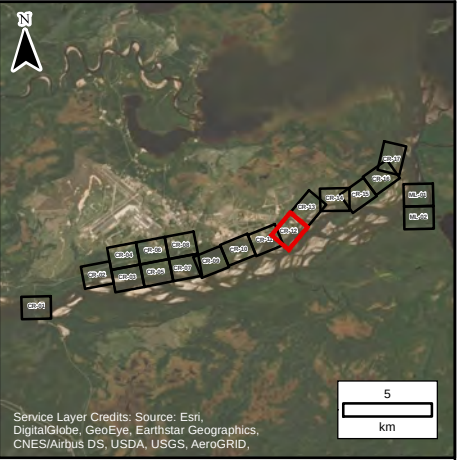
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM)
Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
REVISIONS / ISSUE				

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-11



LEGEND:

- Sta: 23648 Name: CR-23 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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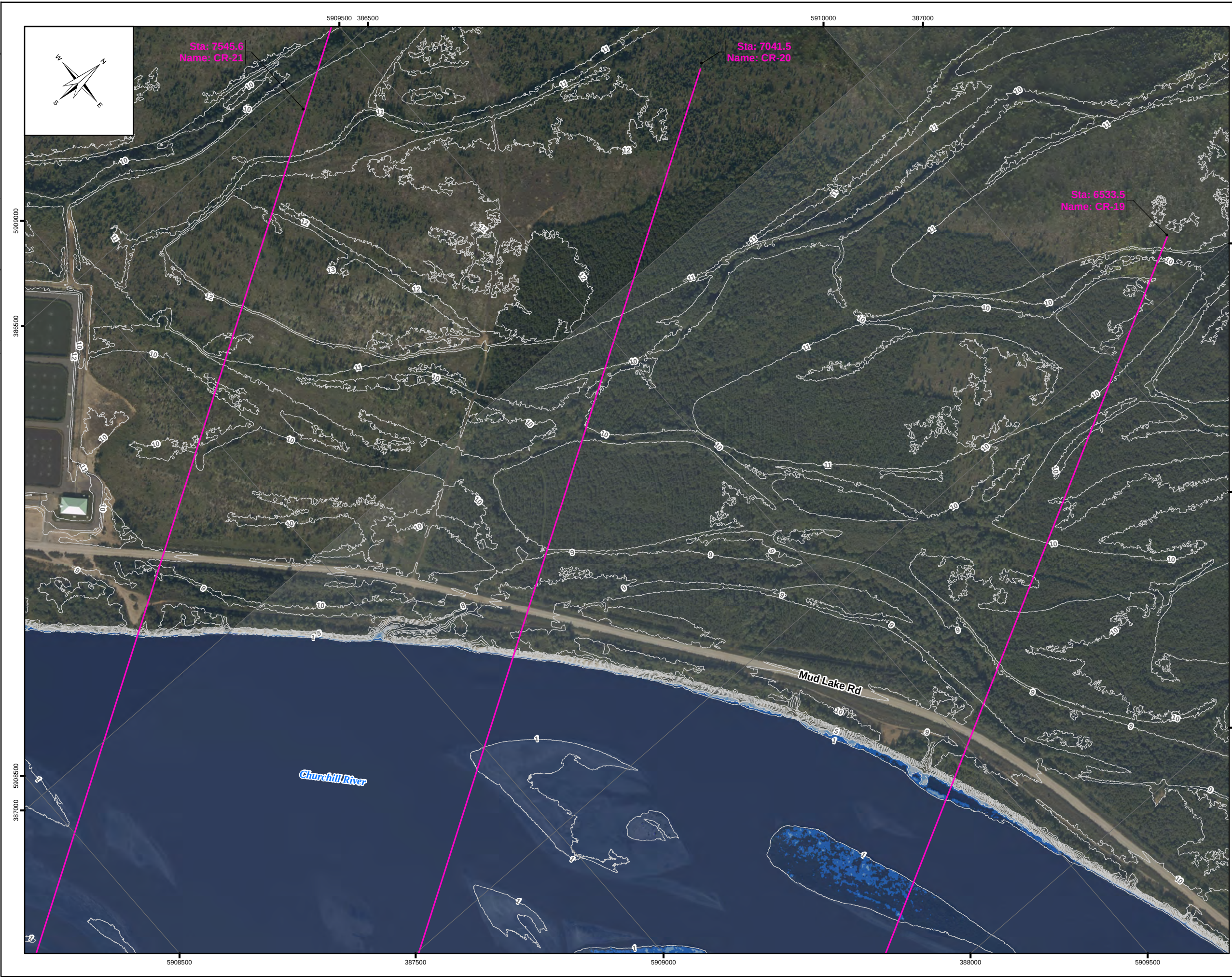
CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-12

JUNE 2020	FIGURE 6.4	REV: 0
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File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
- Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.

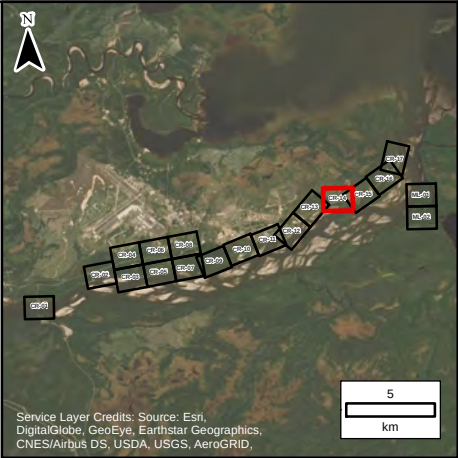
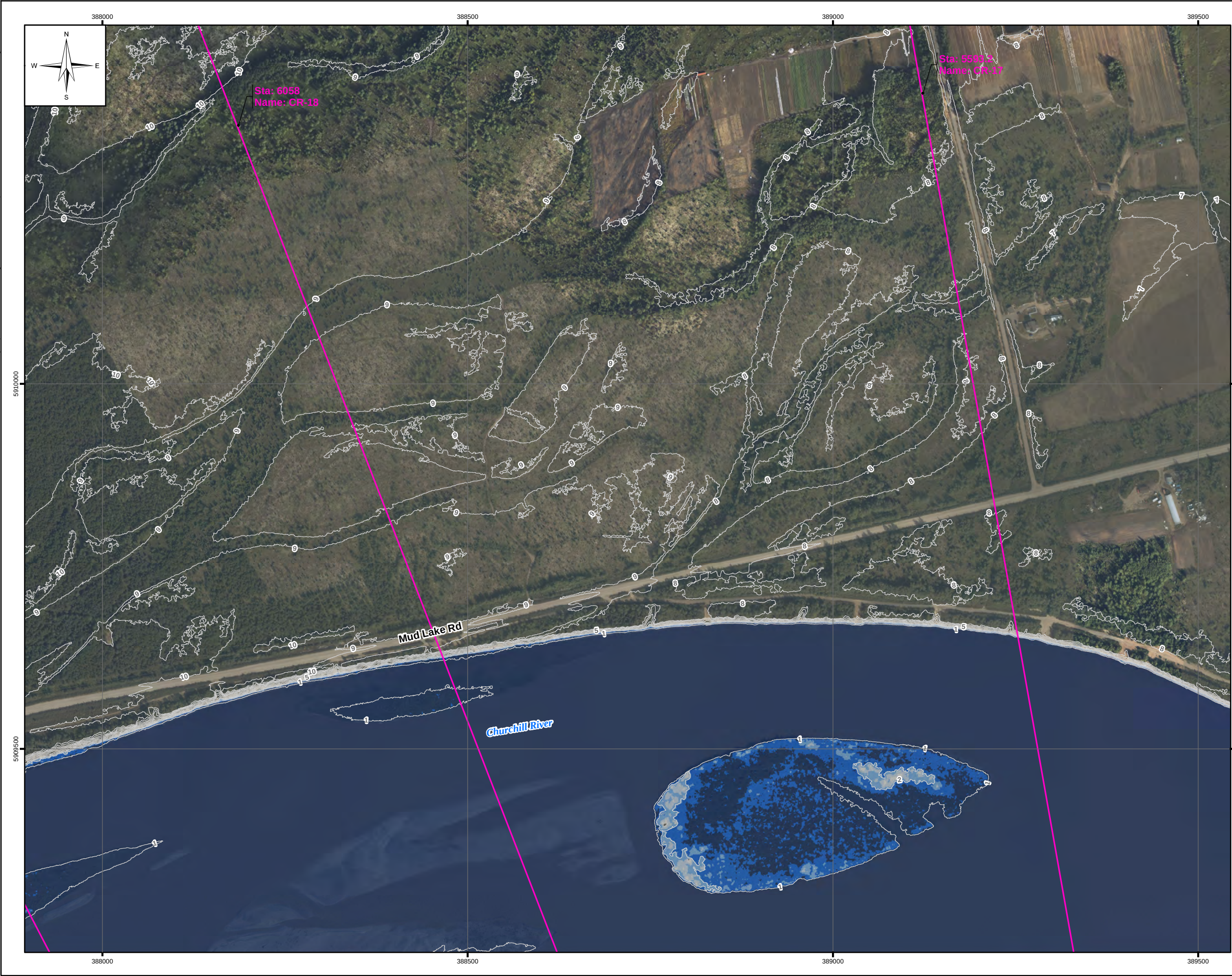


SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY
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CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-13				
JUNE 2020		FIGURE 6.4		REV: 0



LEGEND:

- Sta: 23648 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour

Water Depth (m)	
	0.0 – 0.5 m
	0.5 – 1.0 m
	1.0 – 1.5 m
	1.5 – 2.0 m
	> 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
2. Topography shown was developed by KGS Group from the LiDAR captured by ATLAS Geomatics on September 11 – 13, 2019.



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

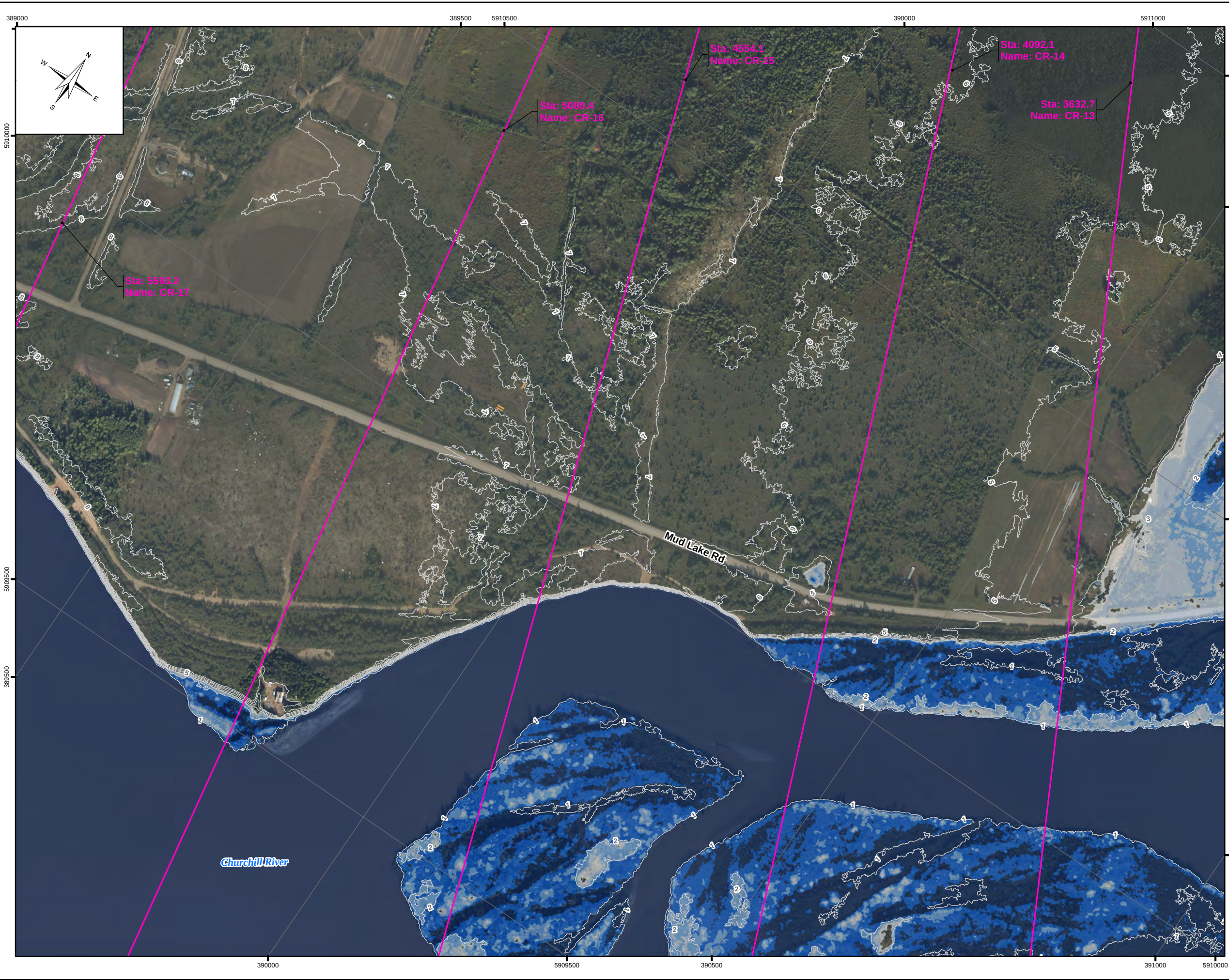
All units are metric and in metres unless otherwise specified.
Horizontal Projection: North American Datum 1983 CSRS (NAD83), Modified Transverse Mercator Projection (MTM) Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-14

JUNE 2020	FIGURE 6.4	REV: 0
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LEGEND:

- Sta: 2364.8 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

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

All units are metric and in metres unless otherwise specified.
Horizontal 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).

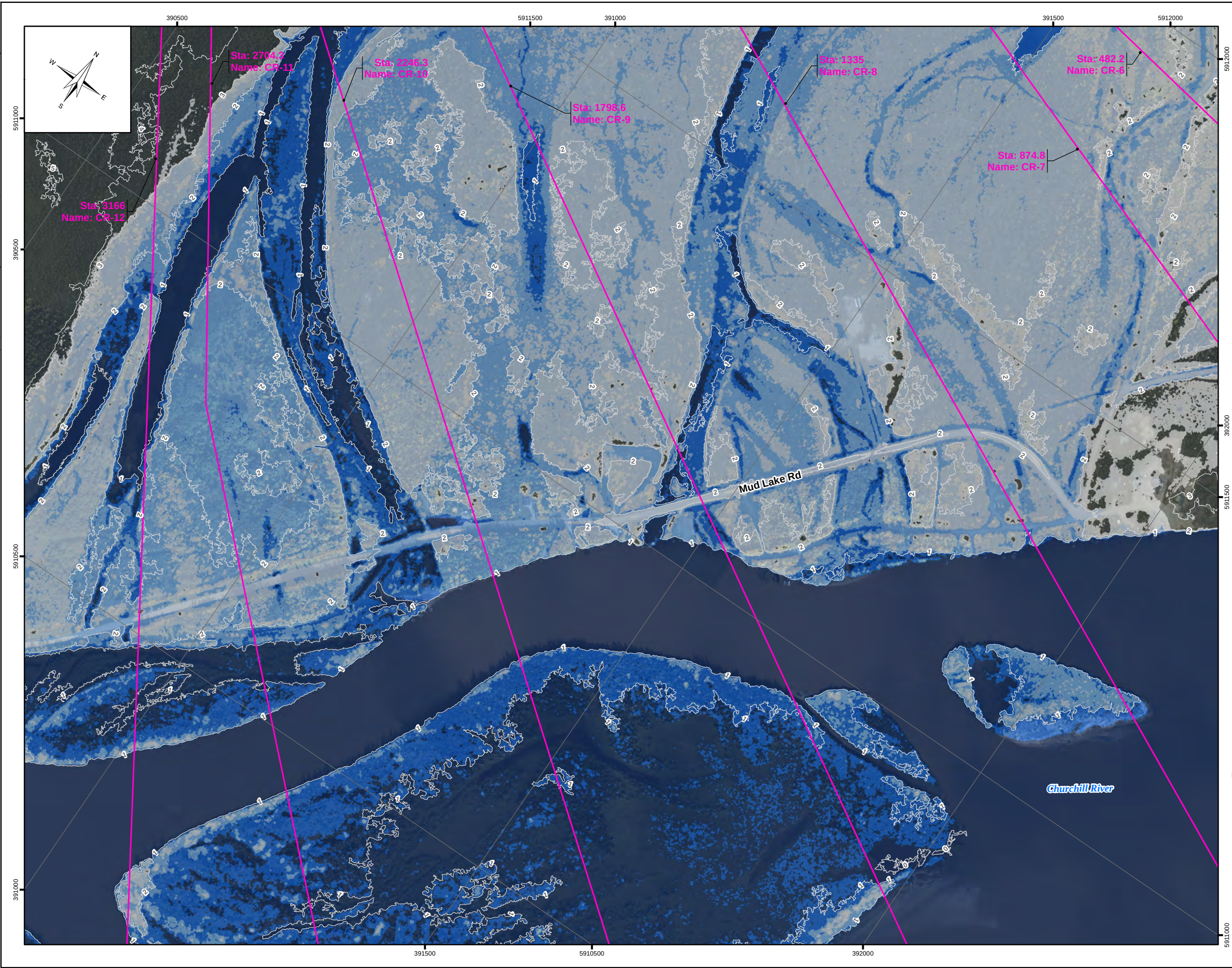
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

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CHURCHILL RIVER FLOOD RISK AND FORECASTING		
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – CR-15		
JUNE 2020	FIGURE 6.4	REV: 0

File Name: P:\Projects\2018\18-3217-001\Drawings\GIS\MXD\Flood_Mapping\18-3217-001_Fig6.4_11x17.mxd
11"x17" PLOT SCALE 1:1

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LEGEND:

- Sta: 2364.8 Name: CR-53 Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m color swatch"/> > 2.0 m

NOTES:

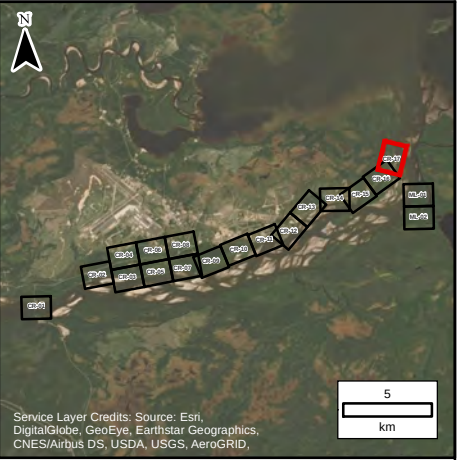
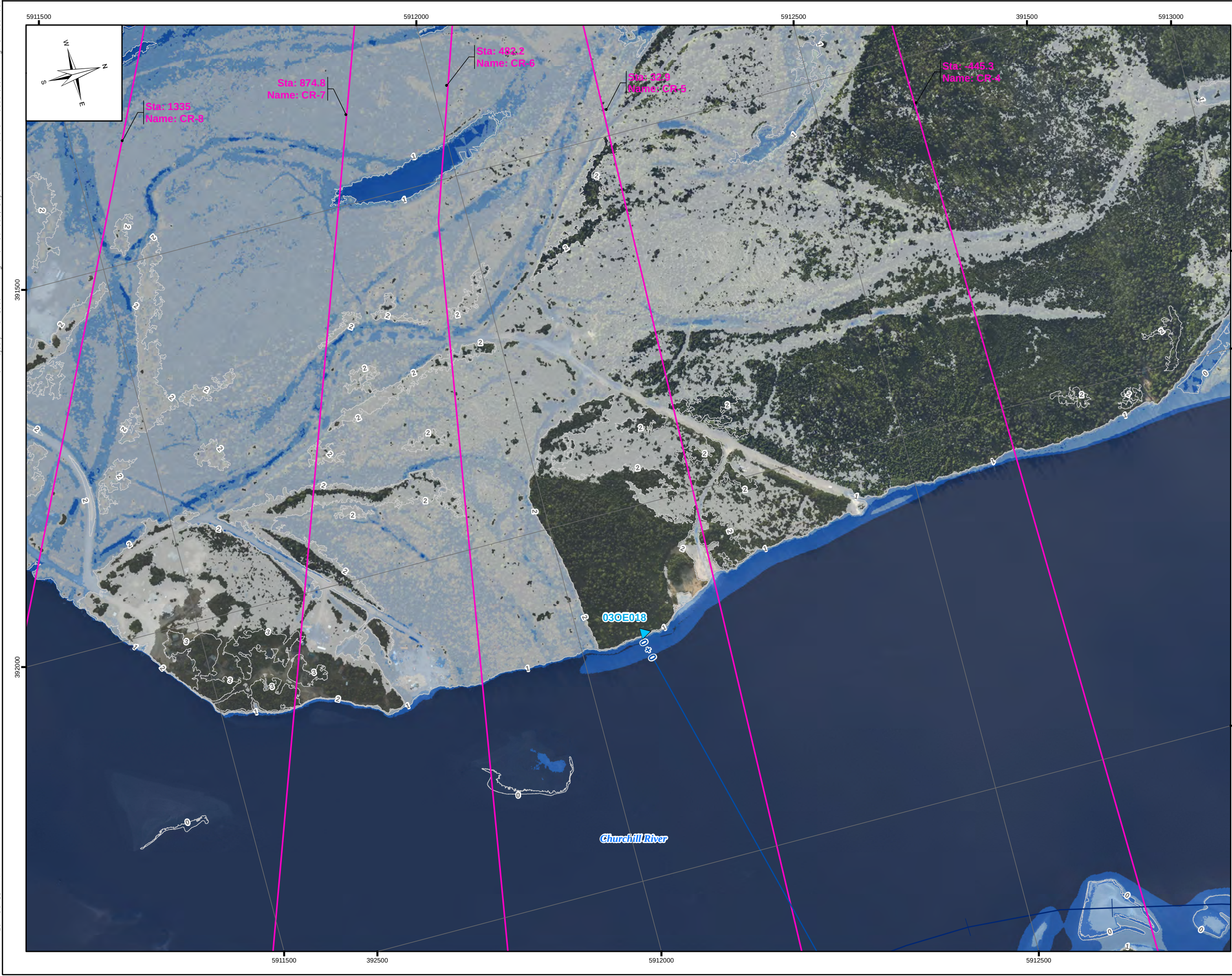
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
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SCALE: 1:5,000 METRIC 11"x17"

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Horizontal 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).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING				
ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS — CR-16				
JUNE 2020		FIGURE 6.4		REV: 0



LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)**
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

1. Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
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SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

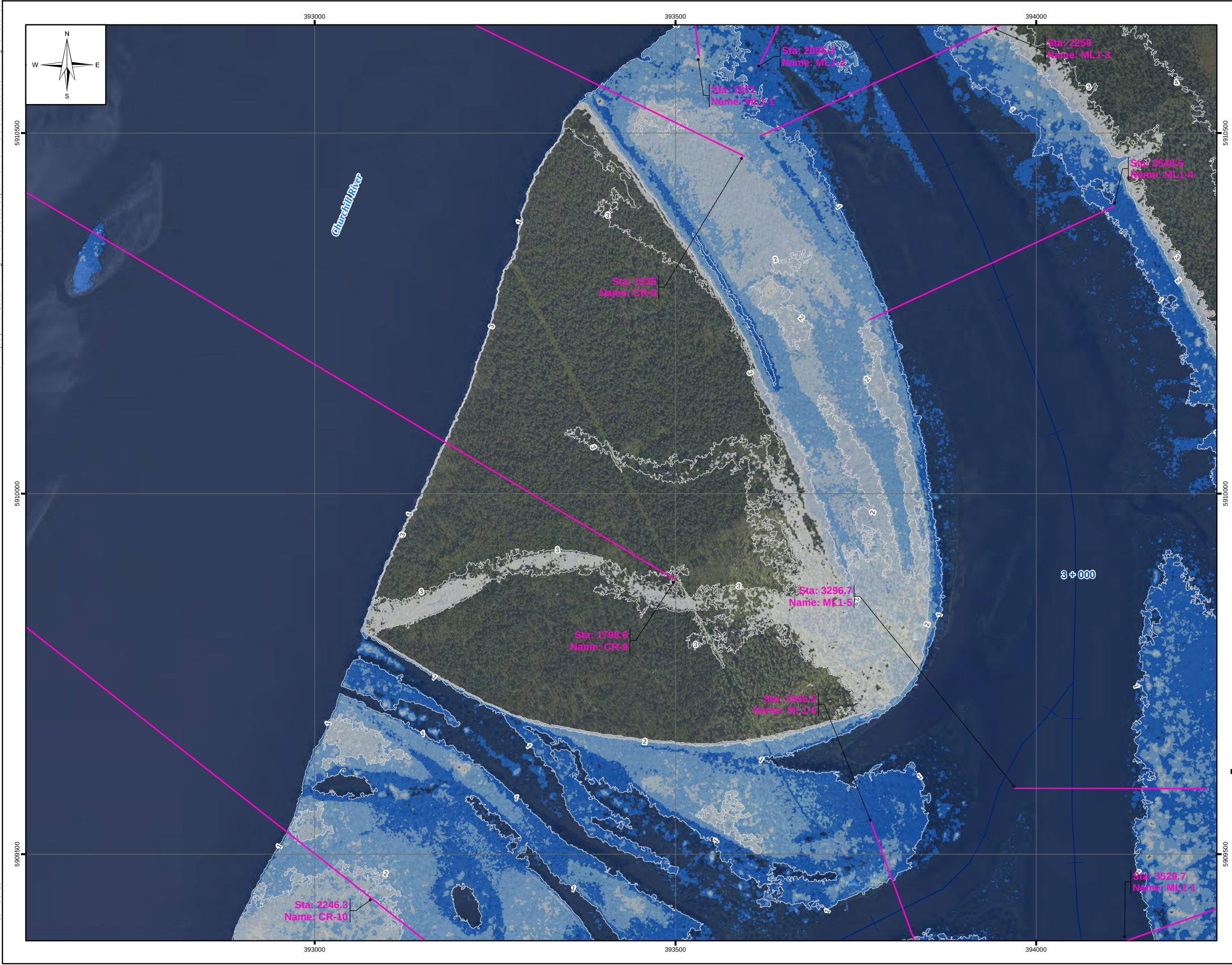
0	20/06/30	ISSUED WITH FINAL REPORT	DSB	MSW
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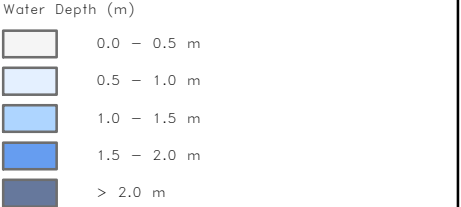
CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – CR-17

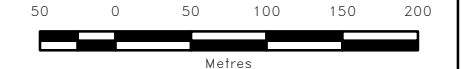
JUNE 2020	FIGURE 6.4	REV: 0
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- LEGEND:
- Cross Section
 - Water Survey of Canada Gauge Location
 - River Centreline
 - 1m LiDAR Contour



- NOTES:
- Imagery is supplied by ATLAS Geomatics and dated as September 11 – 13, 2019.
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SCALE: 1:5,000 METRIC 11"x17"

All units are metric and in metres unless otherwise specified.
Horizontal 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).

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NO.	YY/MM/DD	DESCRIPTION	ISSUED BY	CHECK BY

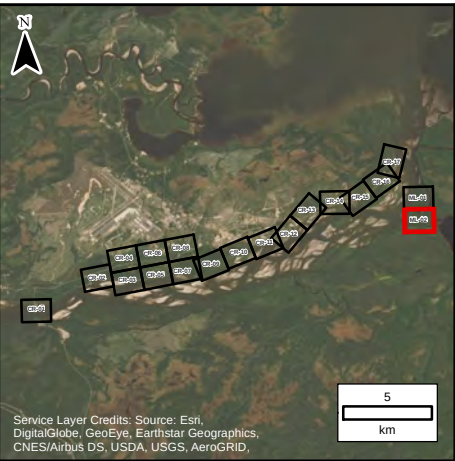
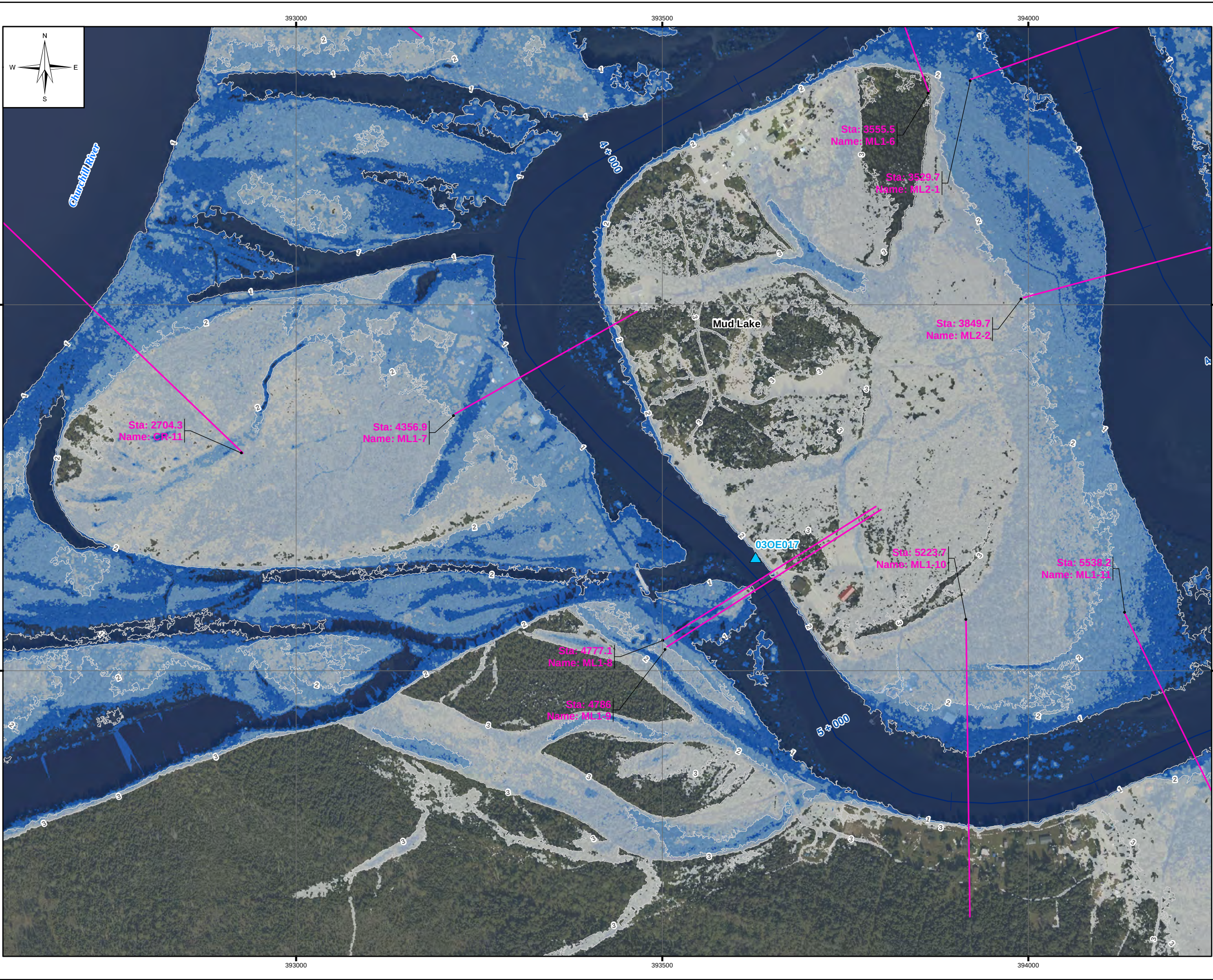
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KGS GROUP CONSULTING ENGINEERS

Newfoundland Labrador

CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD) CONDITIONS – ML-01



LEGEND:

- Sta: 23648 Name: CR-53
- Cross Section
- Water Survey of Canada Gauge Location
- River Centreline
- 1m LiDAR Contour
- Water Depth (m)
 - 0.0 – 0.5 m
 - 0.5 – 1.0 m
 - 1.0 – 1.5 m
 - 1.5 – 2.0 m
 - > 2.0 m

NOTES:

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Zone 4. Elevations are in metres above sea level (MSL), Canadian Geodetic Vertical Datum 2013 (CGVD2013).

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CHURCHILL RIVER FLOOD RISK AND FORECASTING

ICE-AFFECTED 1:100 YEAR INUNDATION DEPTH FOR CURRENT CLIMATE, CURRENT DEVELOPMENT (CC-CD)
CONDITIONS – ML-02

JUNE 2020	FIGURE 6.4	REV: 0
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