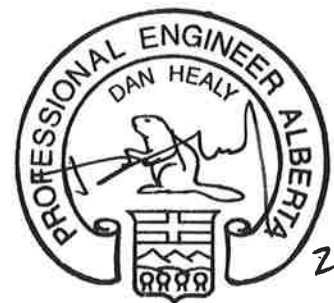


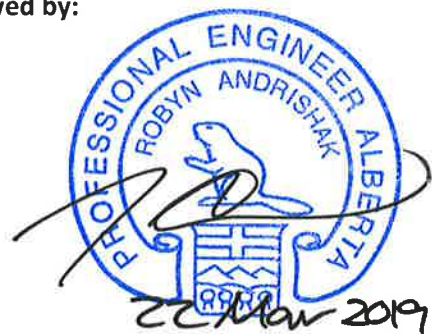
APEGA Permit to Practice - P654

Prepared by:

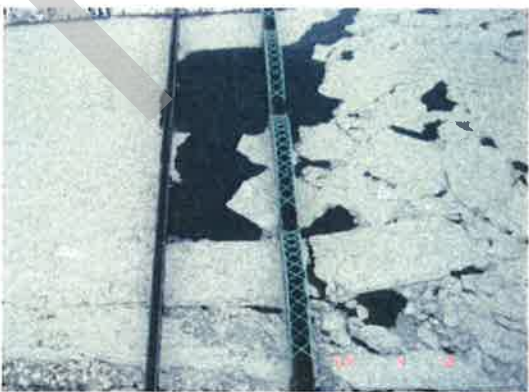


Dan Healy, PhD, PEng  
Principal

Reviewed by:



Robyn Andrishak, MSc, PEng  
Principal



PEACE RIVER HAZARD STUDY

ICE JAM MODELLING ASSESSMENT &  
FLOOD HAZARD IDENTIFICATION

ICE JAM FLOOD INUNDATION MAPS

Prepared for:



15 June 2018

NHC Ref. No. 1001119



DISCLAIMER

This report has been prepared by Northwest Hydraulic Consultants Ltd. in accordance with generally accepted engineering practices, for the benefit of Alberta Environment and Parks for specific application to the Peace River Hazard Study in Alberta. The information and data contained herein represent Northwest Hydraulic Consultants Ltd.'s best professional judgment based on the knowledge and information available to Northwest Hydraulic Consultants Ltd. at the time of preparation.

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200-YEAR ICE JAM FLOOD INUNDATION MAP (22 SHEETS)

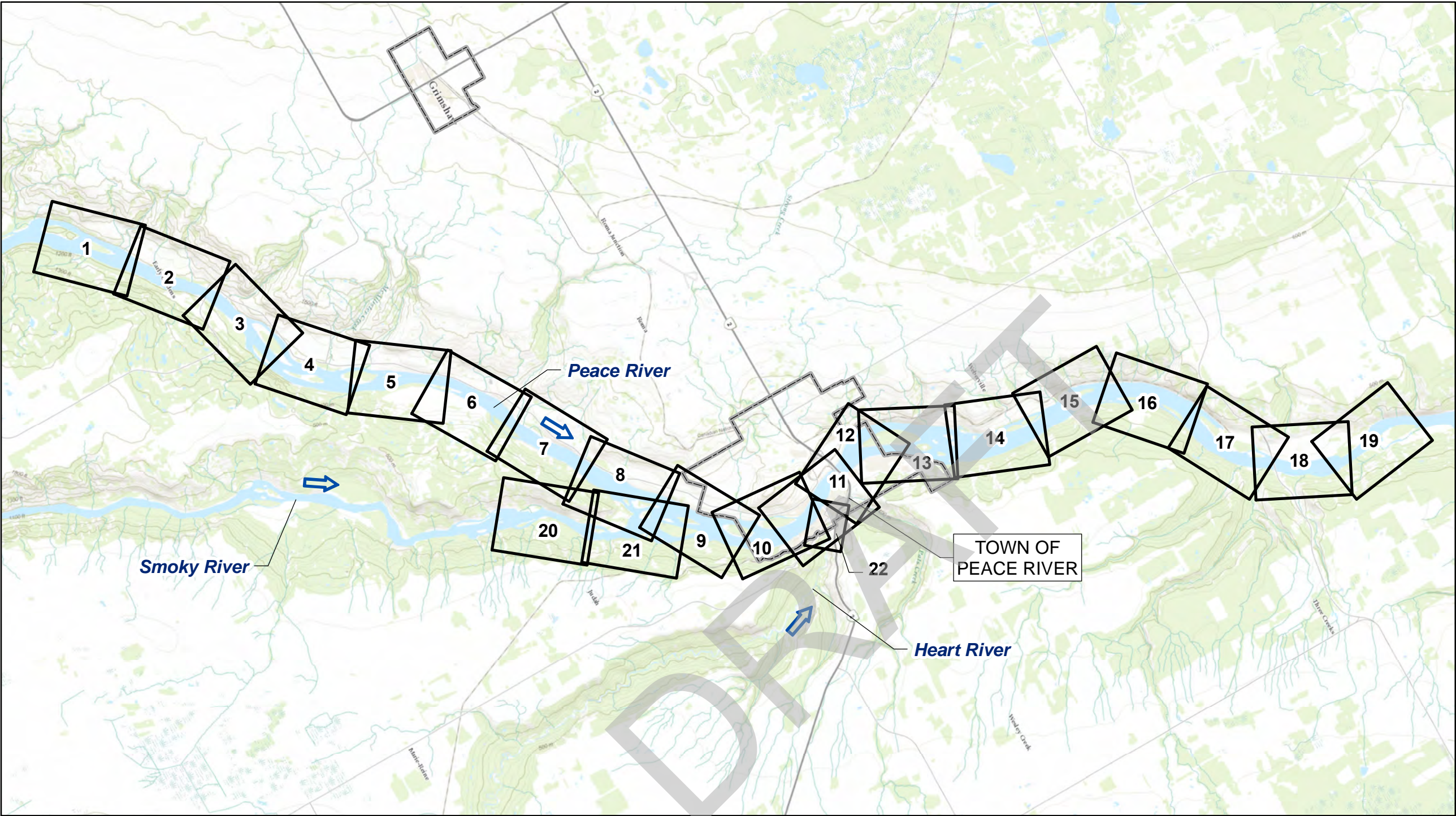
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## ICE JAM FLOOD INUNDATION INDEX MAP

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**Notes to Users:**

- 1. Please refer to the accompanying **Peace River Hazard Study – Ice Jam Modelling Assessment and Flood Hazard Identification Report** (issued on 15 June 2018) for important information concerning these maps.
- 2. Within the flood inundation areas shown on this map, there may be isolated pockets of high ground. To determine whether or not a particular site is subject to flooding, reference should be made to the computed flood levels in conjunction with site-specific surveys where detailed definition is required.
- 3. Non-riverine and local sources of water have not been considered, and structures such roads, railways or barriers such as levees can restrict water flow and affect local flood levels. Channel obstruction, local stormwater inflow, groundwater seepage or other land drainage can cause flood levels to exceed those indicated on the map. Lands adjacent to a flooded area may be subject to flooding from tributary streams not indicated on the maps.
- 4. Backwater flood inundation along the Smoky River near the mouth was considered using simulated water levels from the Peace River near the mouth of the Smoky River.
- 5. The flood inundation area is shown above the line work for bridges and flood control structures that are below flood levels.

**Definitions:**

**Flood Inundation Mapping** - Delineates flood inundation areas, showing the extent of one or more flood scenarios under existing conditions. Depending on the particular flood scenario, the mapping may be divided into multiple zones. Flood inundation mapping is typically used for near real-time emergency response planning and operations.

**Flood Inundation Area** - The area inundated during a particular flood scenario under existing conditions. The flood inundation area may be divided into multiple zones, including areas inundated due to potential flood control structure failure and isolated areas that may become inundated due to groundwater seepage or other subsurface connections. Flood inundation areas may change as a result of future development or flow obstructions.

**Flood Scenario** - Flow conditions that describe a particular flood event. Flood scenarios typically represent a range of flows, based either on flood frequency analysis or set flow intervals. The flood scenarios included with this map set include the 50-year, 100-year, and 200-year ice jam flood events.

**Data Sources and References:**

- 1. Orthophoto imagery acquired by ORTHOSHOP Geomatics Ltd. (3 May 2016) for Alberta Environment and Parks.
- 2. Base data from Town of Peace River, Alberta Environment and Parks, AltaLIS, and NRCan.
- 3. Additional base mapping from Esri.

029005800M

SCALE - 1:150,000

Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119      Date: 31-MAY-2018

PEACE RIVER HAZARD STUDY

ICE JAM FLOOD

INUNDATION INDEX MAP

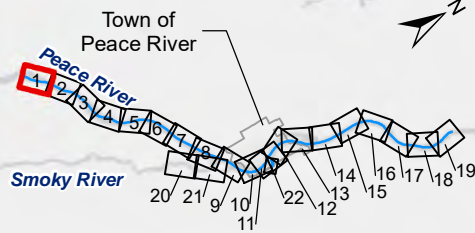
INDEX MAP



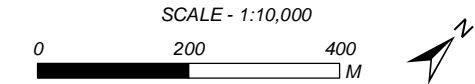
**50-YEAR ICE JAM FLOOD INUNDATION MAP**  
**(SHEETS 1 TO 22)**

DRAFT





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 50-YEAR FLOOD INUNDATION EXTENT
- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

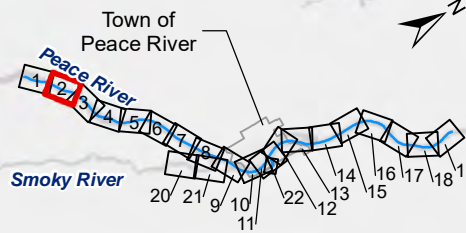


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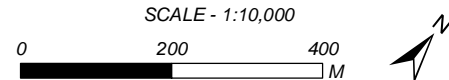
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

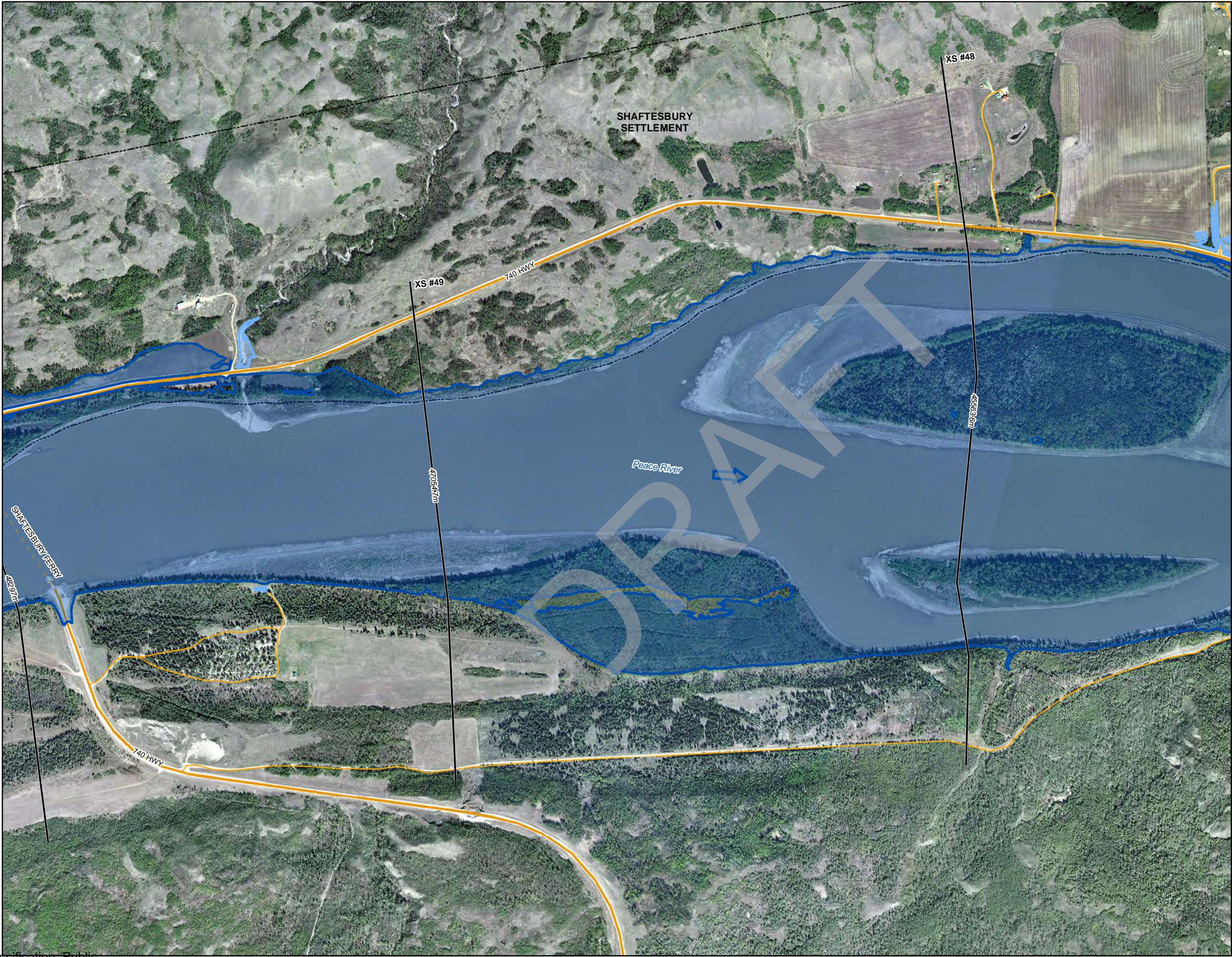


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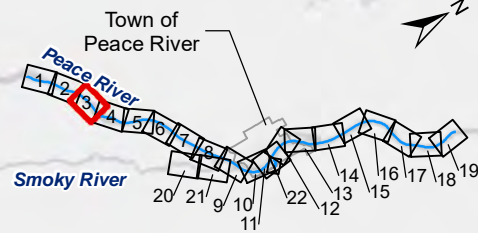
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



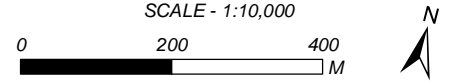


SHEET 2 ↑

↓ SHEET 4



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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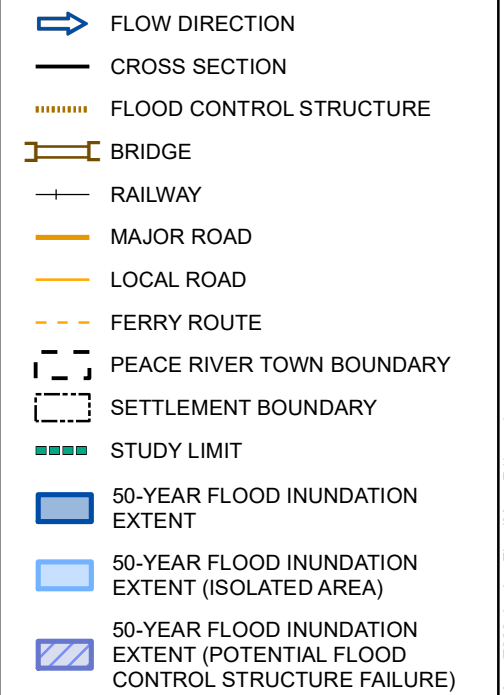


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Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP

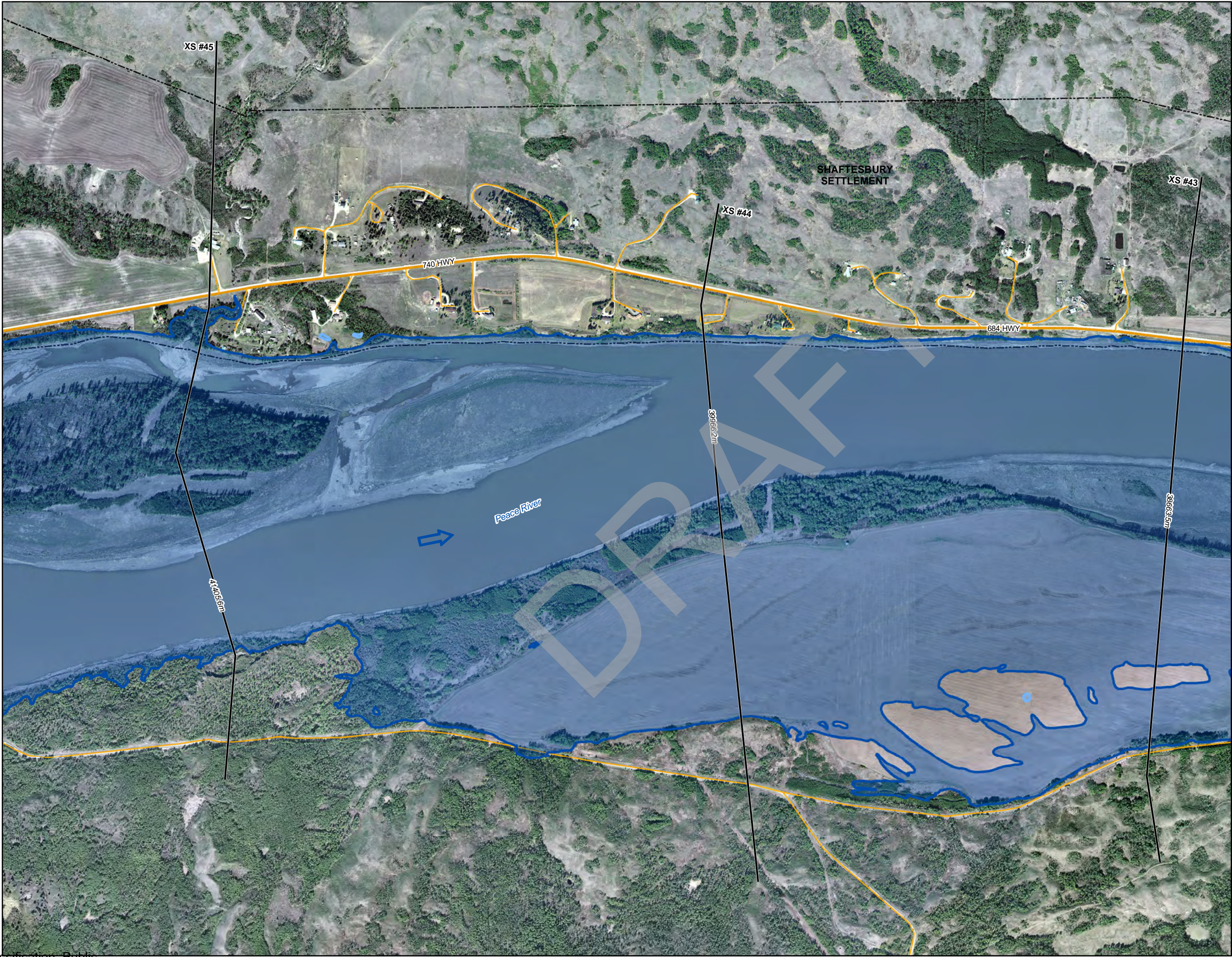




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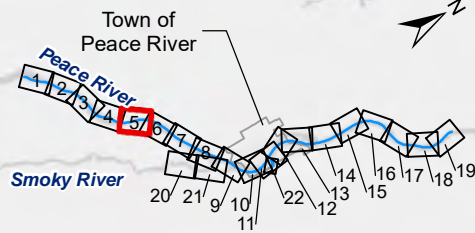
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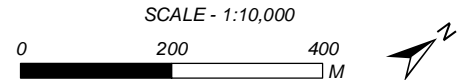


SHEET 4 ↑

↓ SHEET 6



- ➡ FLOW DIRECTION
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- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

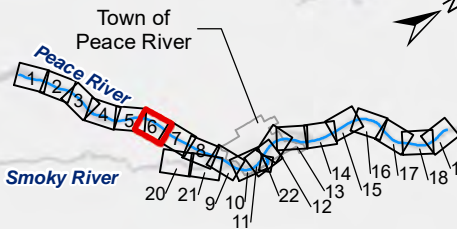


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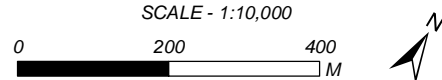
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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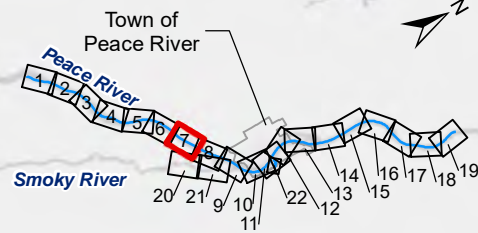


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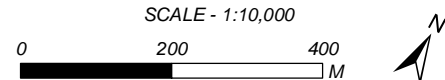
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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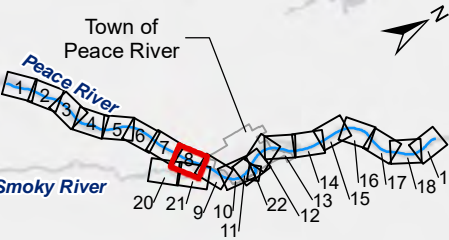
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



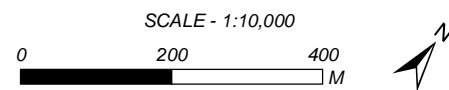


SHEET 7 ↑

↓ SHEET 9



- ➡ FLOW DIRECTION
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- ..... FLOOD CONTROL STRUCTURE
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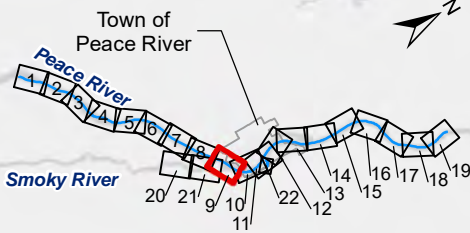


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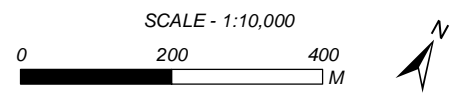
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**PEACE RIVER HAZARD STUDY**  
**50-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
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- ..... FLOOD CONTROL STRUCTURE
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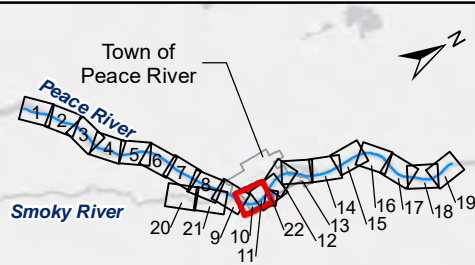
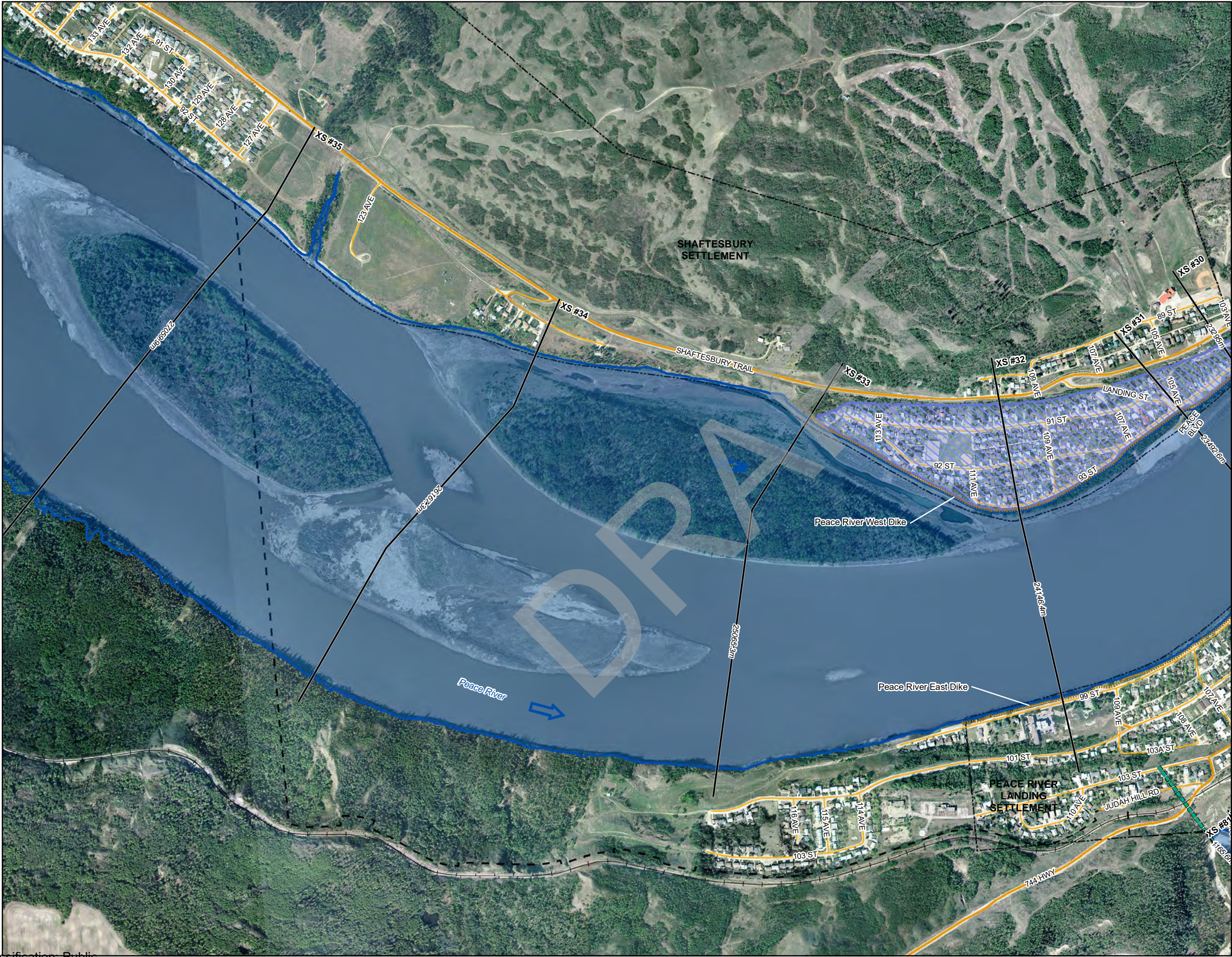


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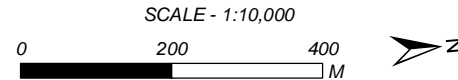
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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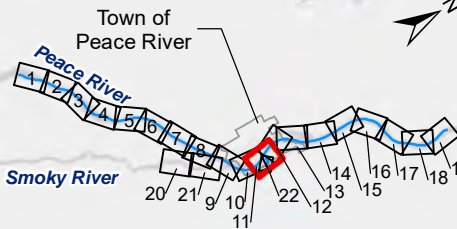
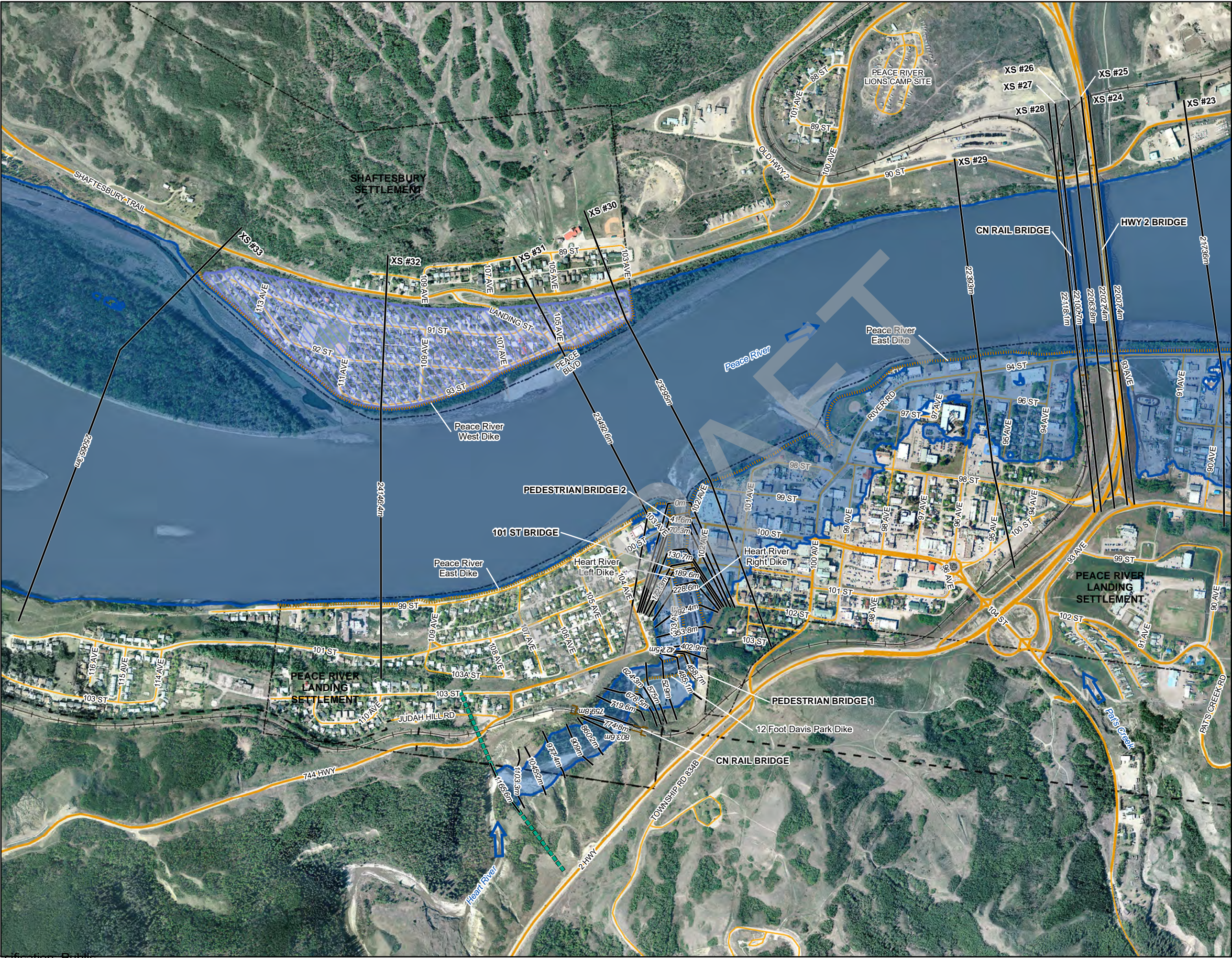
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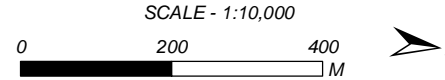
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



SHEET 10 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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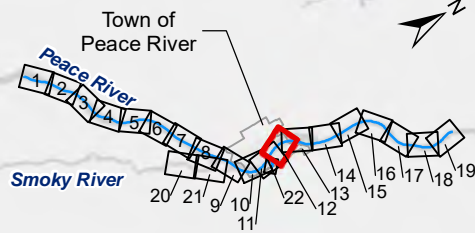


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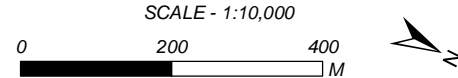
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

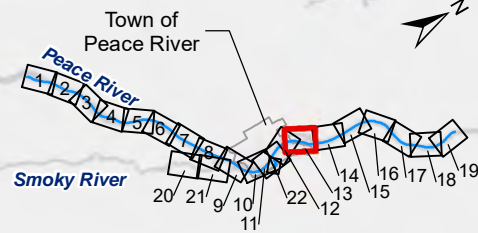
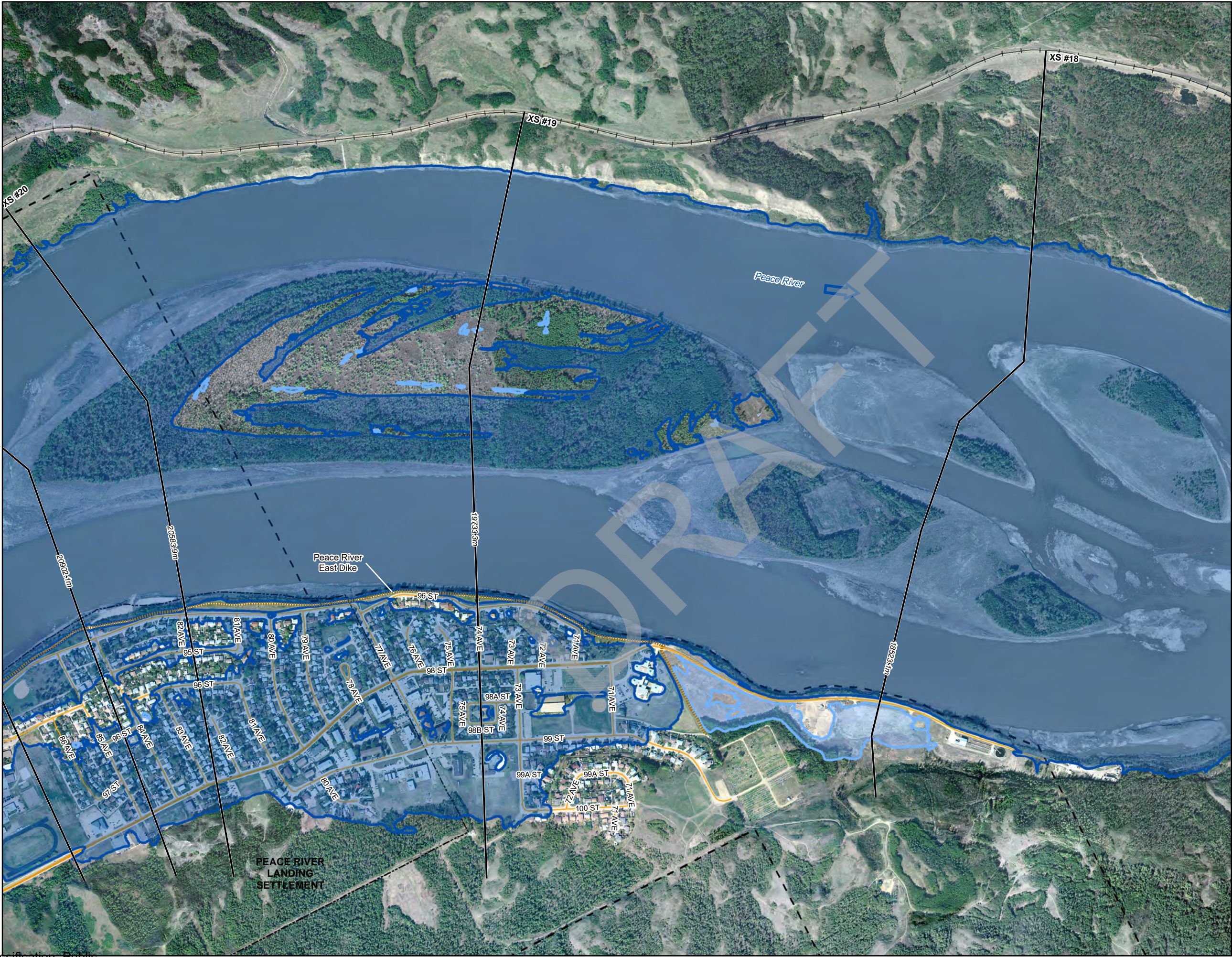


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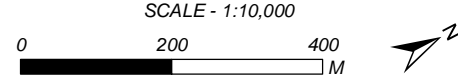
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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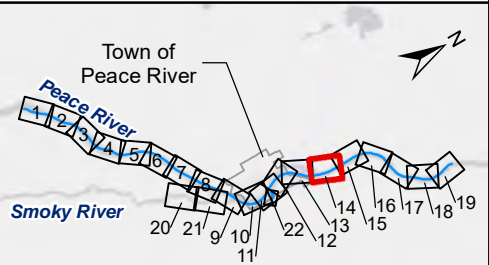
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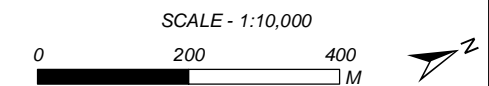
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



SHEET 13 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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Job: 1001119      Date: 29-MAY-2018

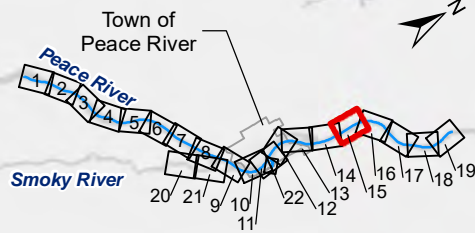
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



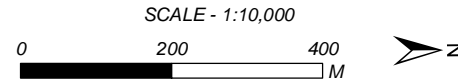


SHEET 14 ↑

↓ SHEET 16



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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Job: 1001119 | Date: 29-MAY-2018

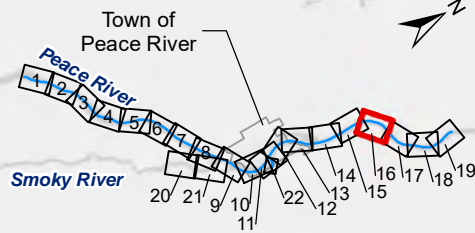
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



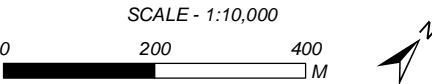


SHEET 15 ↑

↓ SHEET 17



- FLOW DIRECTION
- CROSS SECTION
- FLOOD CONTROL STRUCTURE
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- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

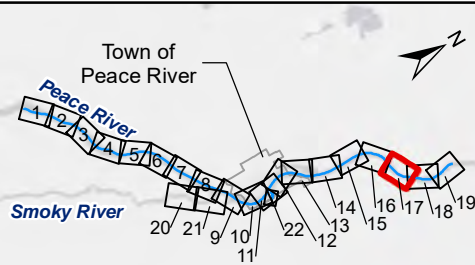


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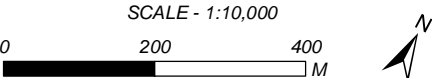
Job: 1001119      Date: 29-MAY-2018

**PEACE RIVER HAZARD STUDY**  
**50-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 50-YEAR FLOOD INUNDATION EXTENT
- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

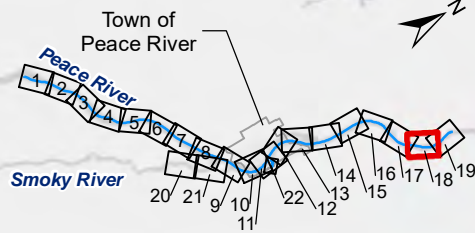
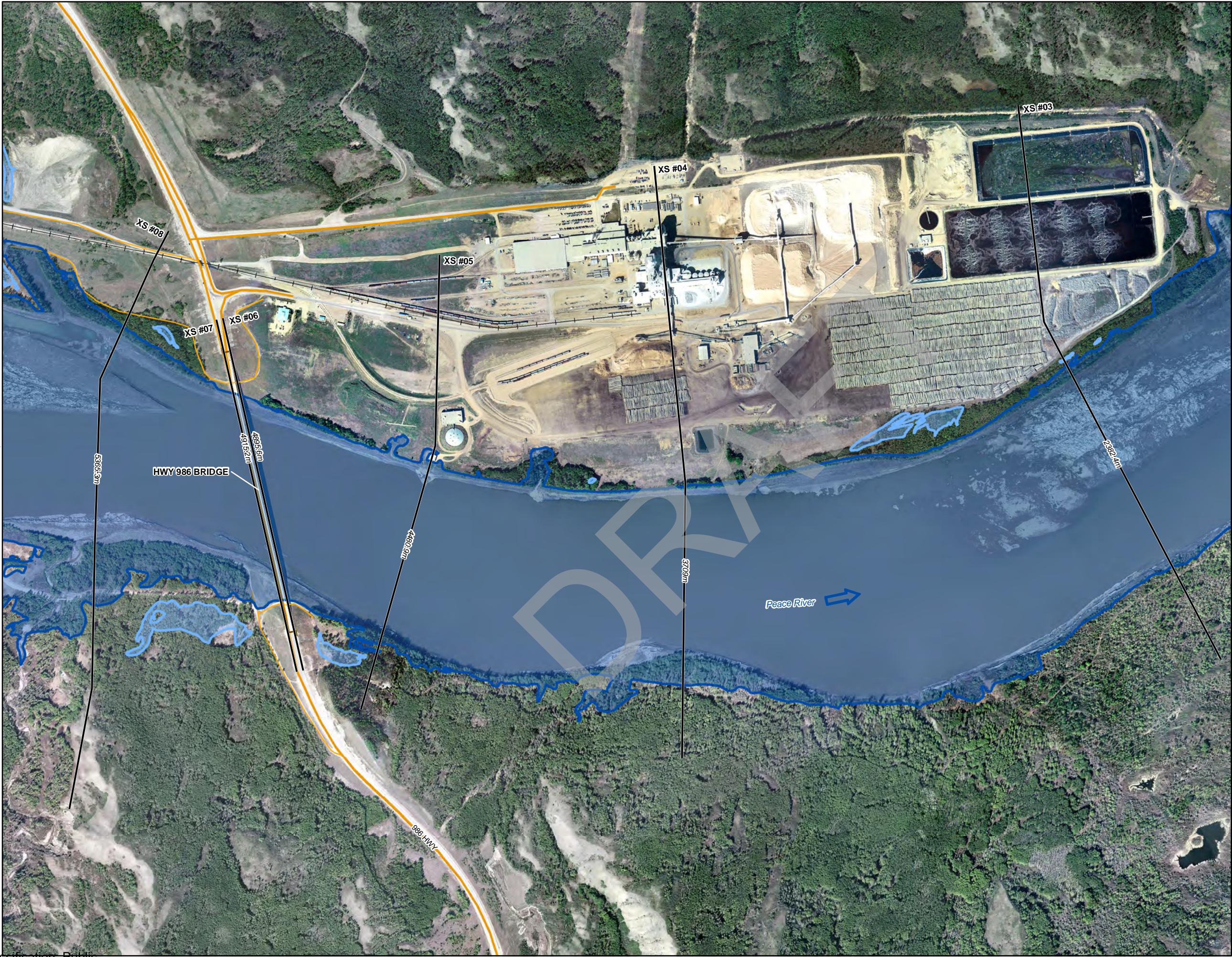


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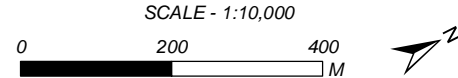
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
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- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
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- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

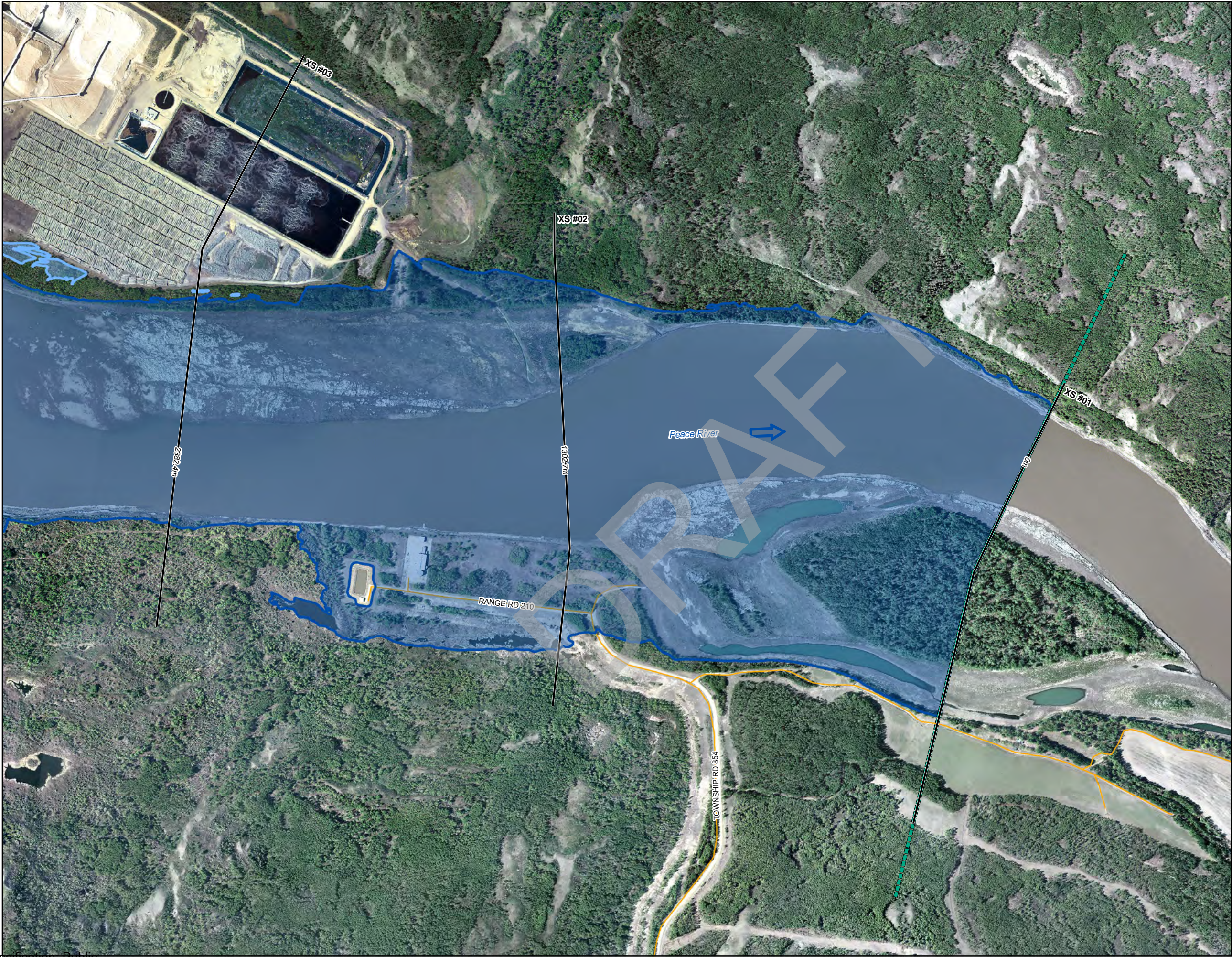


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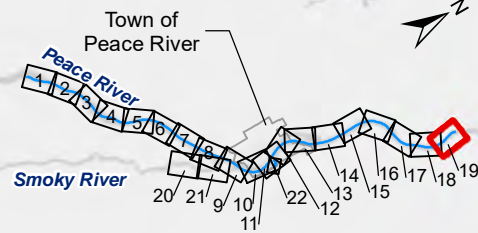
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP

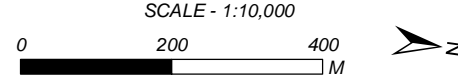




SHEET 18 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
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- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

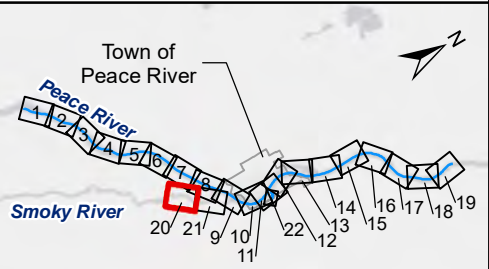


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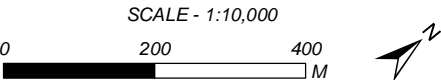
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
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- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



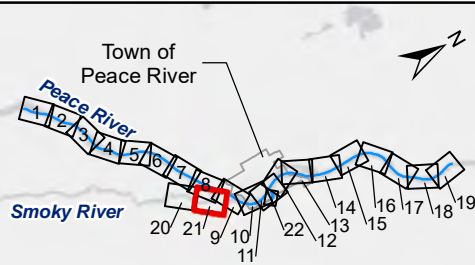
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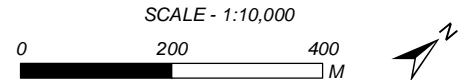
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



SHEET 20 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
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- 50-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

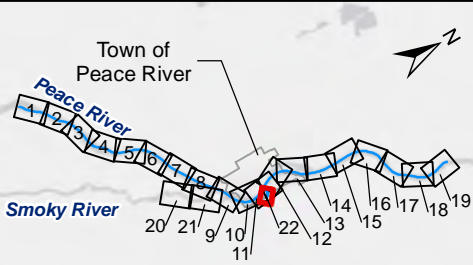


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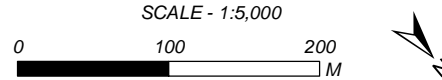
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PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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- 50-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

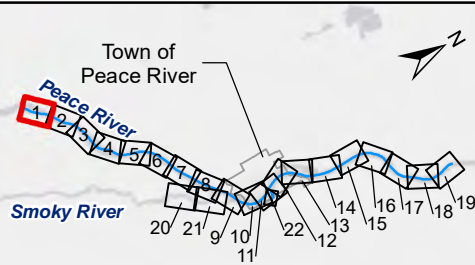
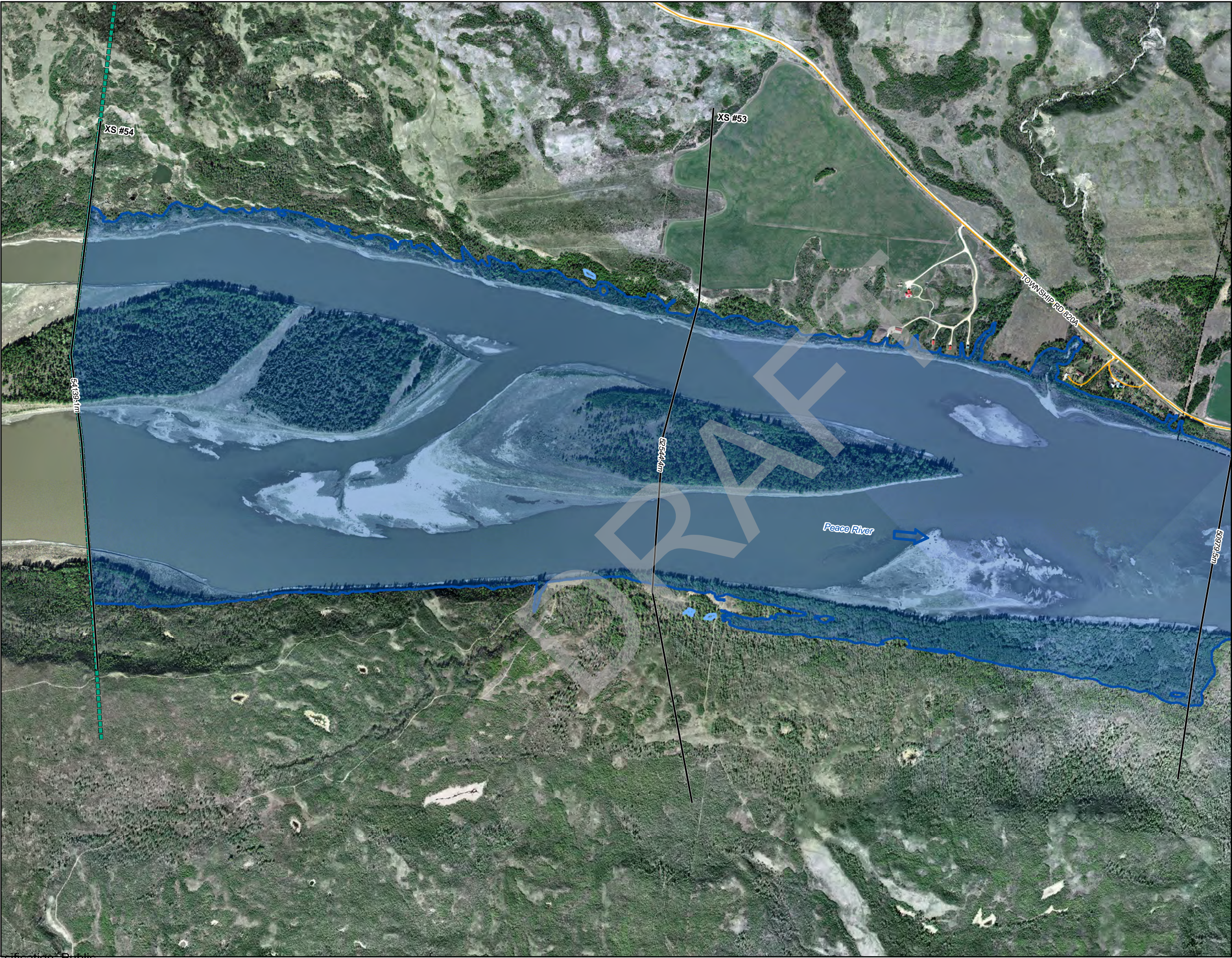
PEACE RIVER HAZARD STUDY  
50-YEAR ICE JAM  
FLOOD INUNDATION MAP



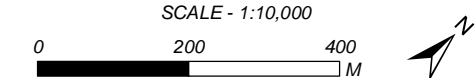
**100-YEAR ICE JAM FLOOD INUNDATION MAP**  
**(SHEETS 1 TO 22)**

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- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

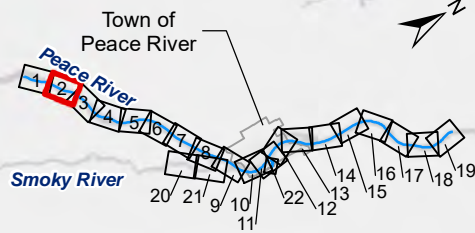


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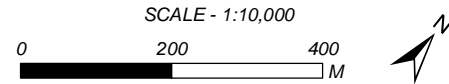
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PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
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- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

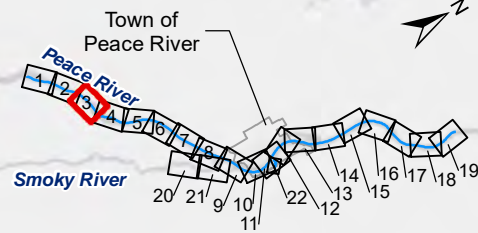
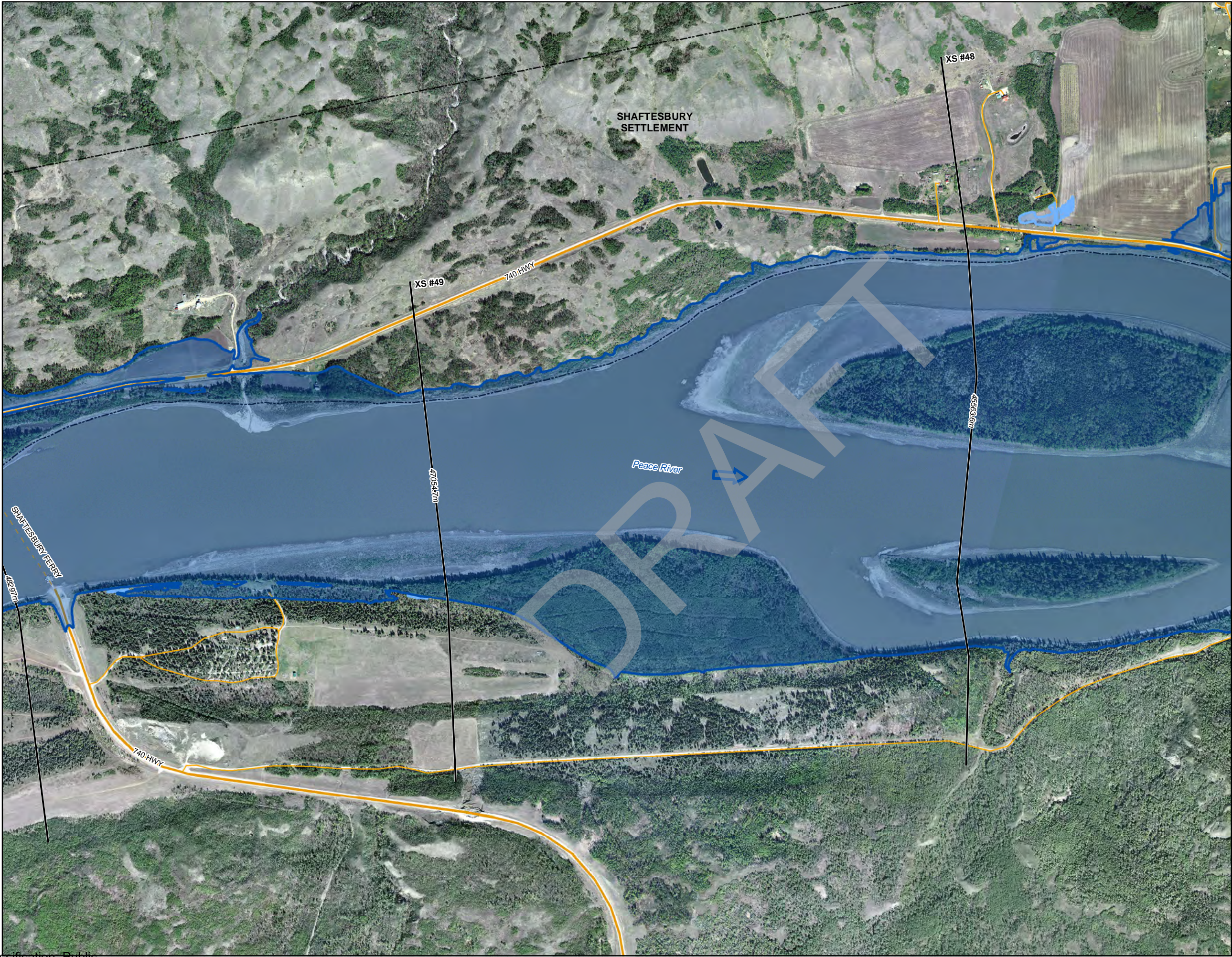


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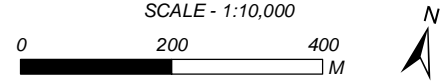
Job: 1001119      Date: 29-MAY-2018

**PEACE RIVER HAZARD STUDY**  
**100-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
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- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

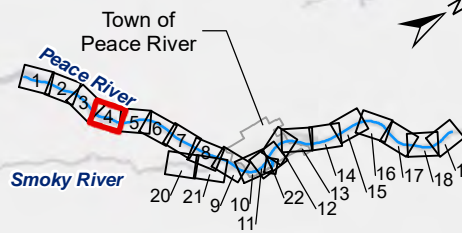
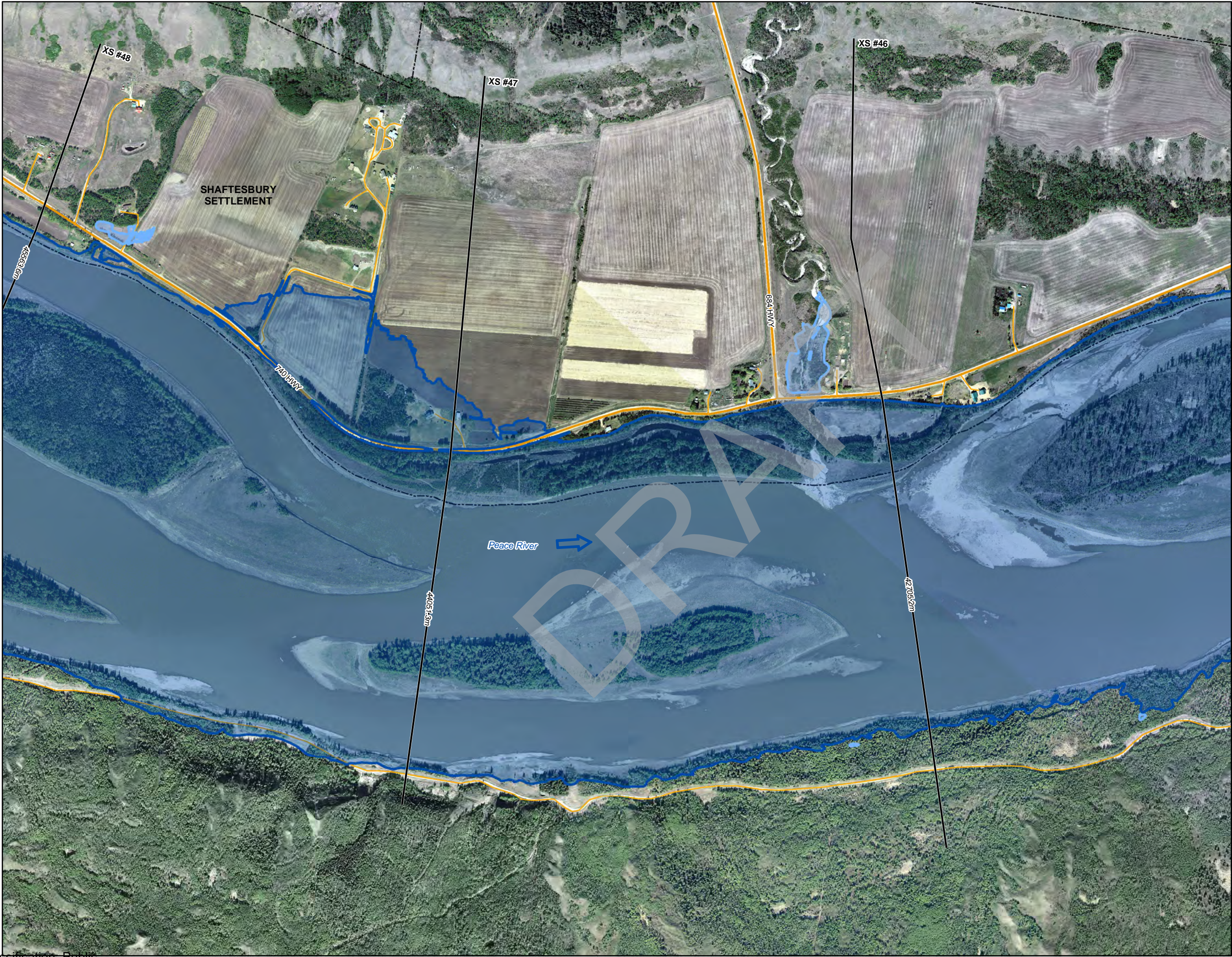


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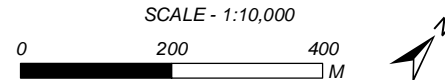
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

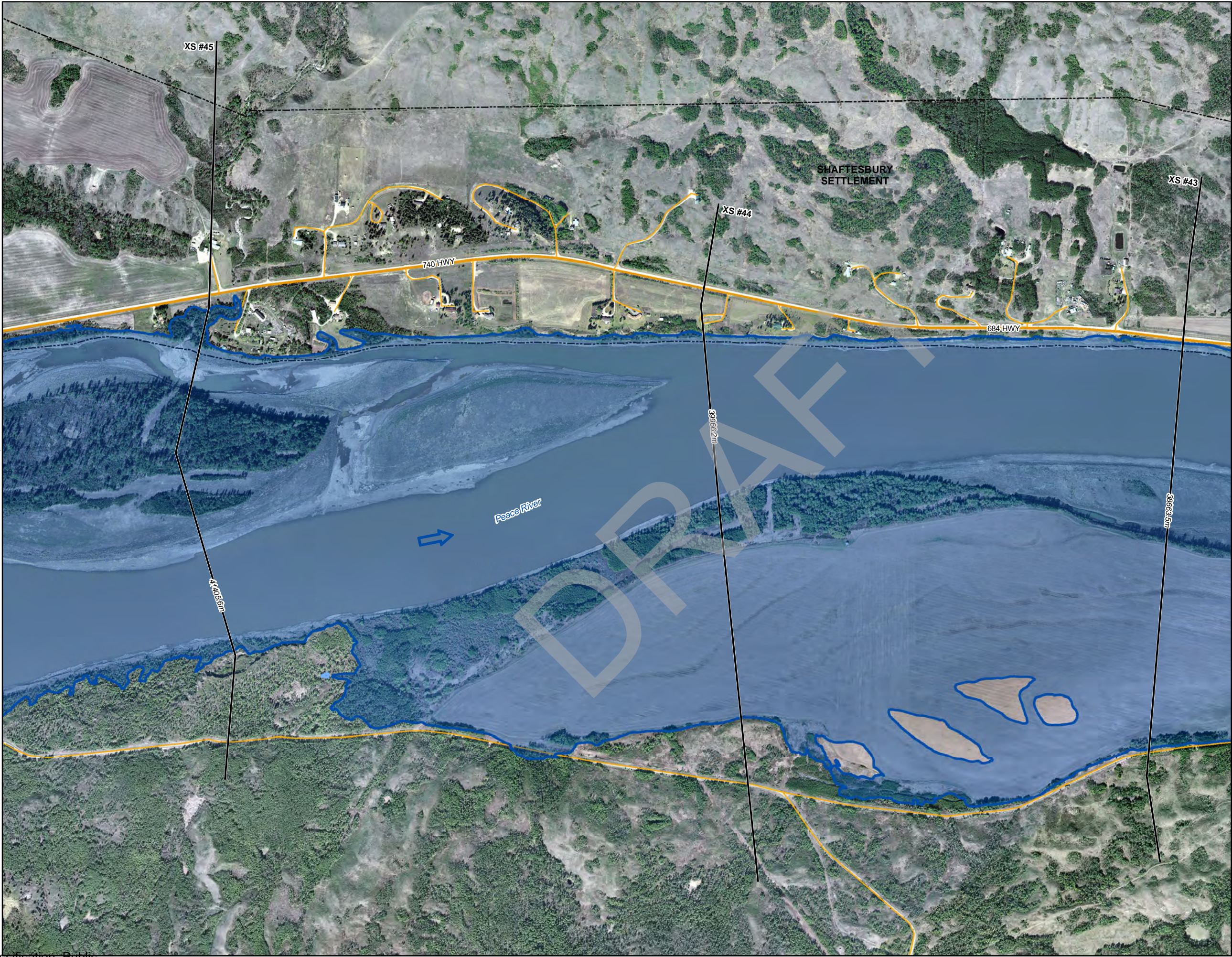


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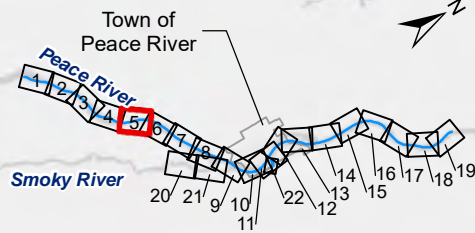
PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP



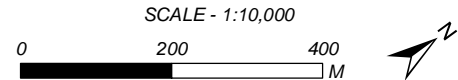


SHEET 4 ↑

↓ SHEET 6



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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- LOCAL ROAD
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- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

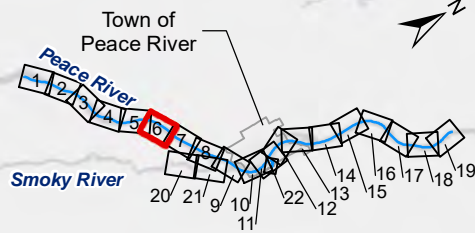


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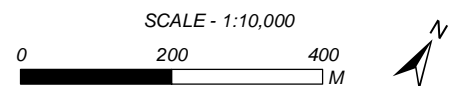
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
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- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

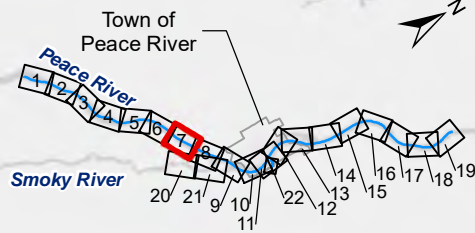


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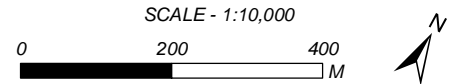
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PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 | Date: 29-MAY-2018

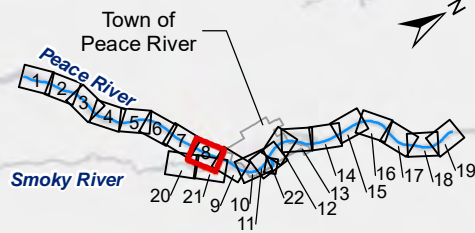
PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP



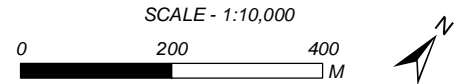


SHEET 7 ↑

↓ SHEET 9



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

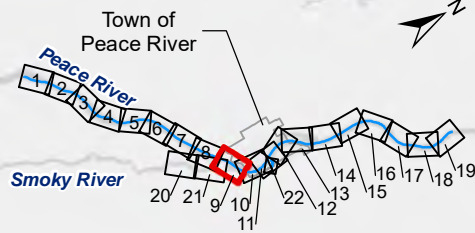


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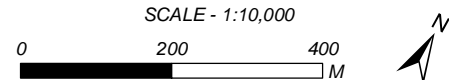
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
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- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

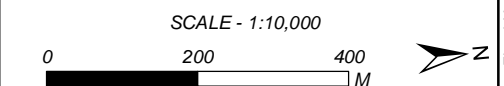
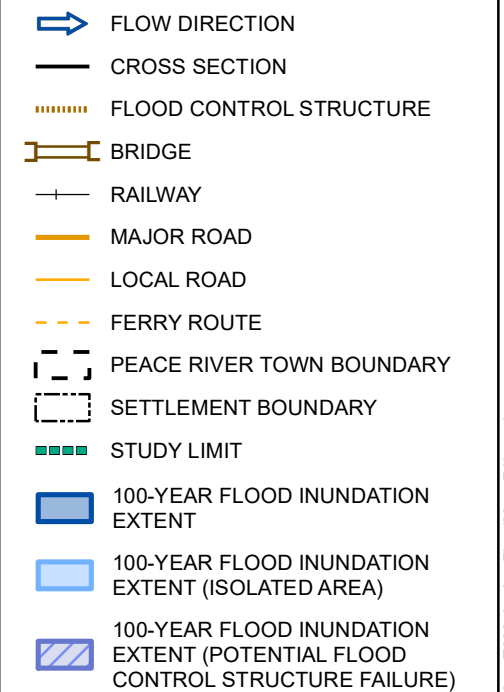


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Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





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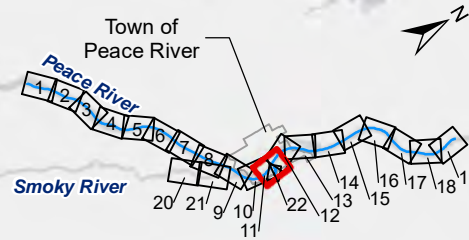
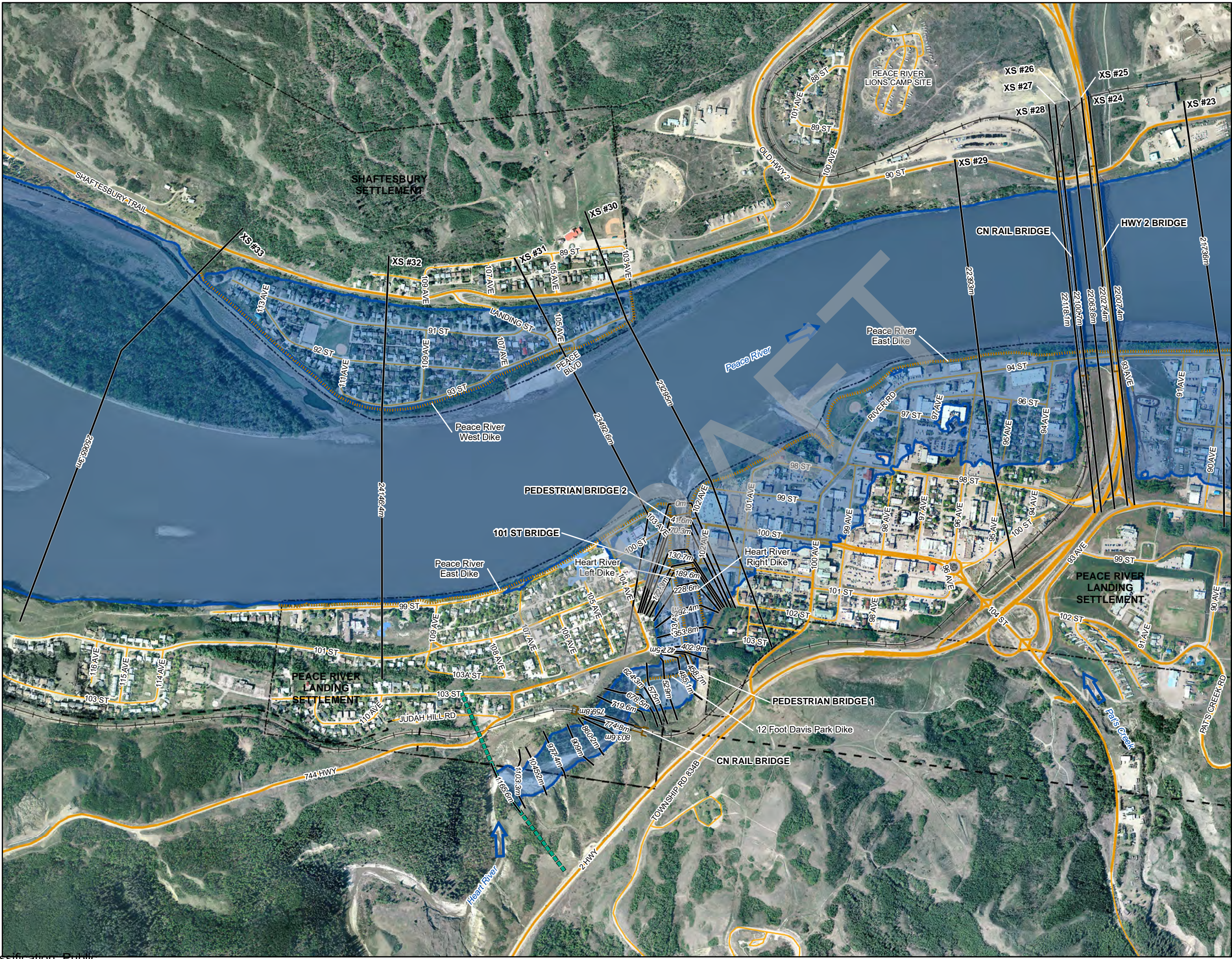
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PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP

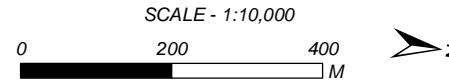
*SHEET 10 OF 22*



SHEET 10 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
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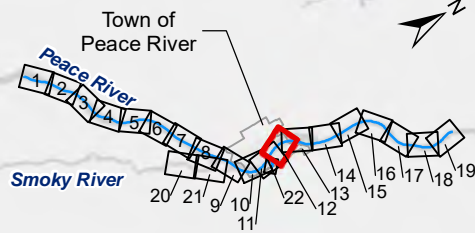
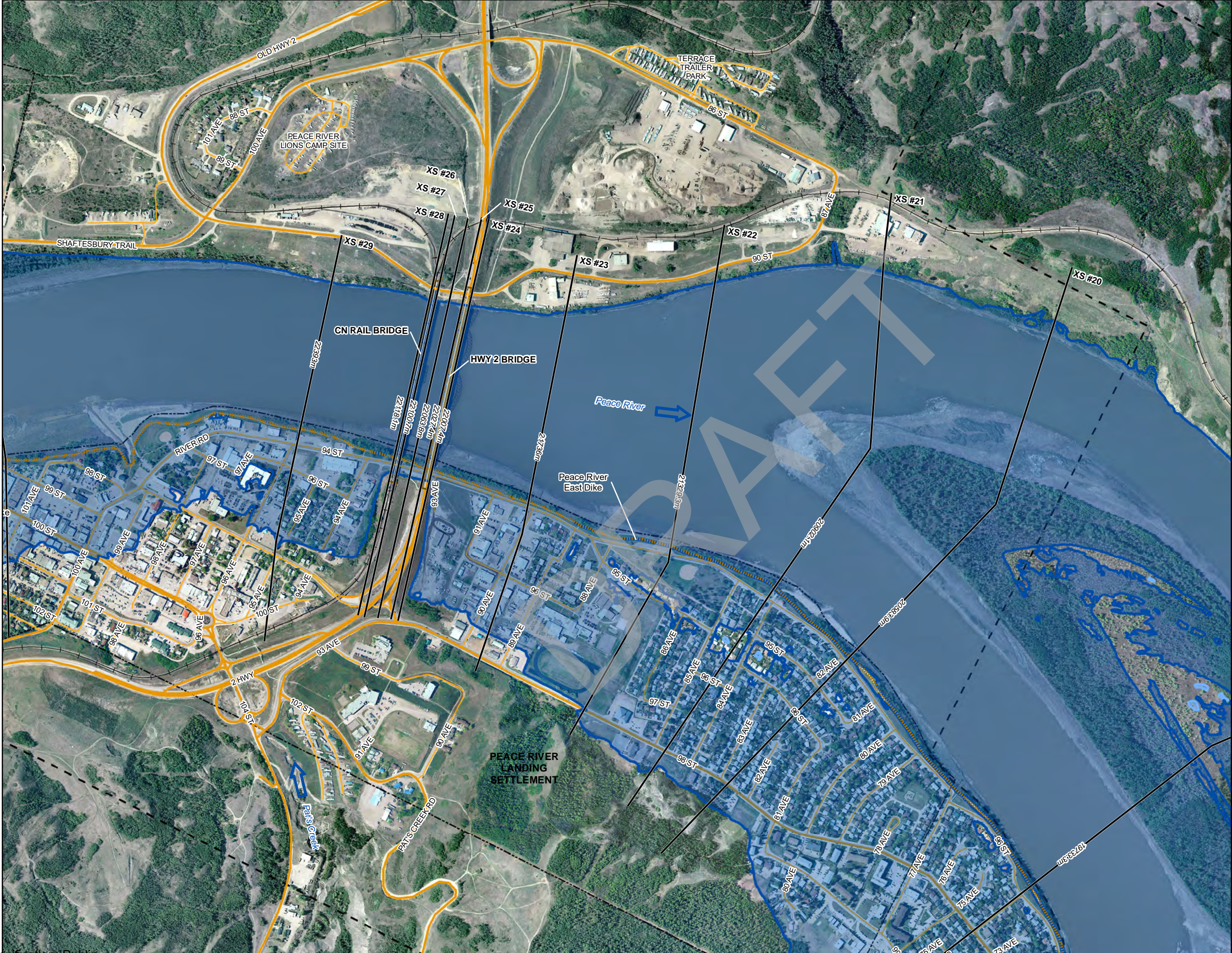
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Job: 1001119      Date: 29-MAY-2018

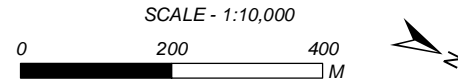
PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP

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- ➡ FLOW DIRECTION
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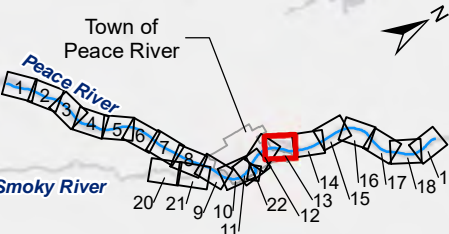


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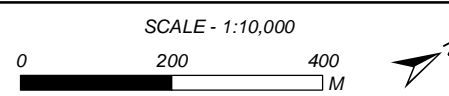
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- FLOW DIRECTION
- CROSS SECTION
- FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- FERRY ROUTE
- PEACE RIVER TOWN BOUNDARY
- SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

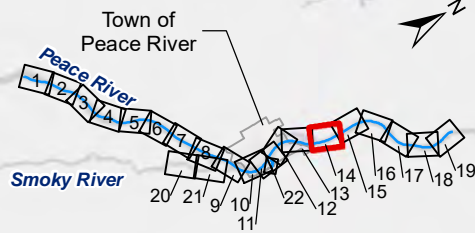


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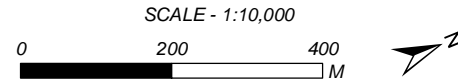
Job: 1001119      Date: 29-MAY-2018

**PEACE RIVER HAZARD STUDY**  
**100-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP

SHEET 13 ↑

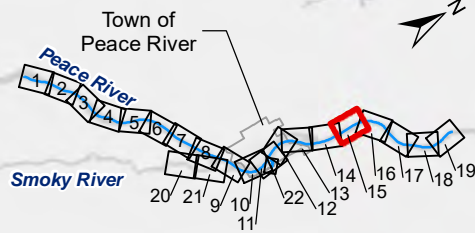
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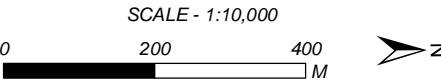


SHEET 14 ↑

↓ SHEET 16



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
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Job: 1001119      Date: 29-MAY-2018

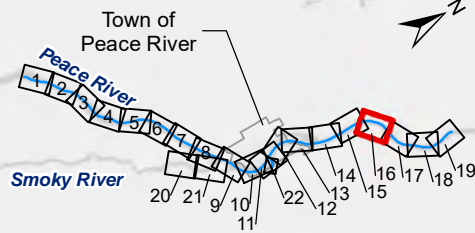
PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP



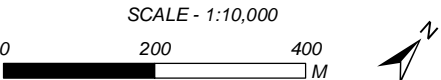


SHEET 15 ↑

↓ SHEET 17



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- ▨ 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

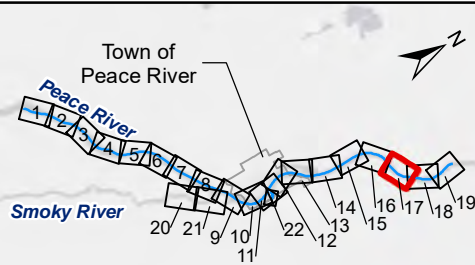


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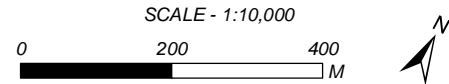
Job: 1001119      Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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- LOCAL ROAD
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- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

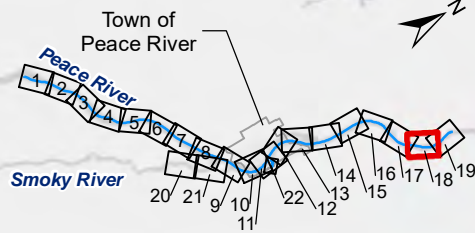


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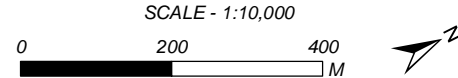
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
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- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

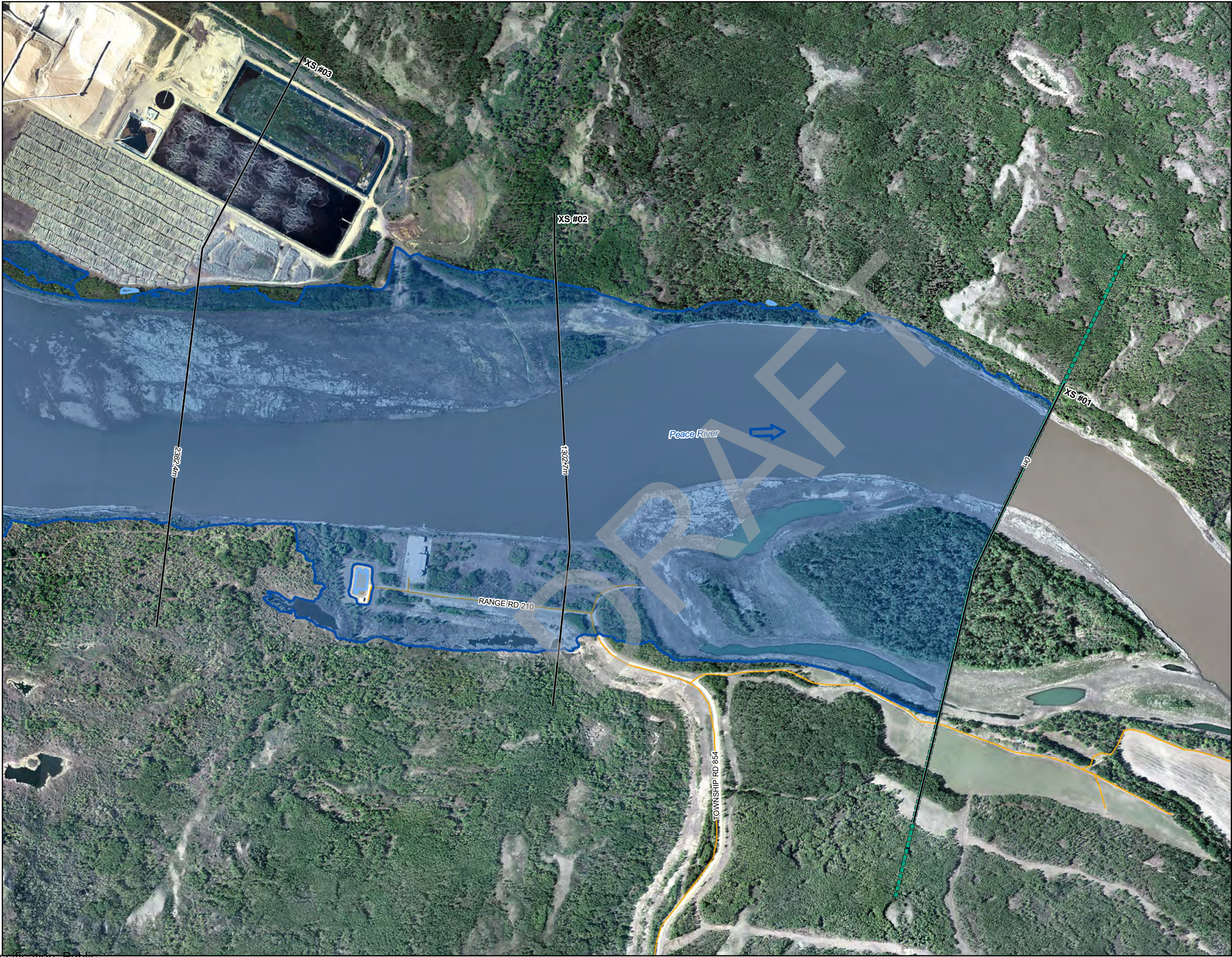


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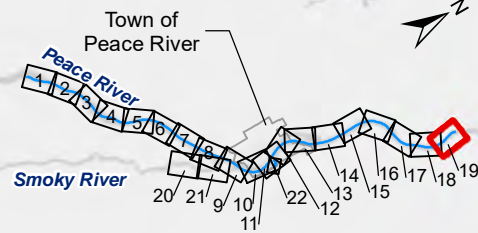
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP

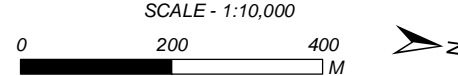




SHEET 18 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

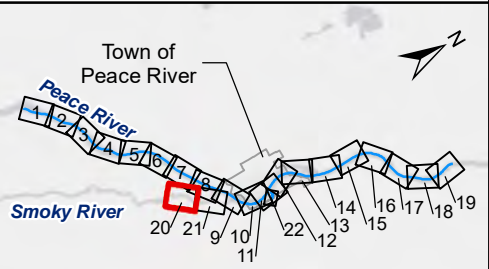


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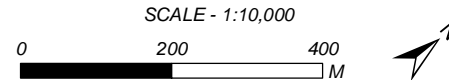
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



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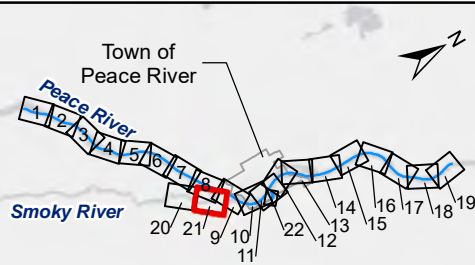
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP

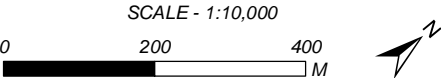




SHEET 20 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

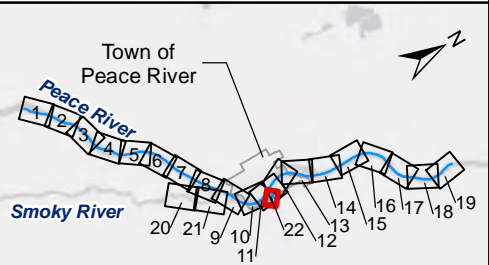


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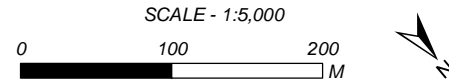
Job: 1001119      Date: 29-MAY-2018

**PEACE RIVER HAZARD STUDY**  
**100-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 100-YEAR FLOOD INUNDATION EXTENT
- 100-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 100-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

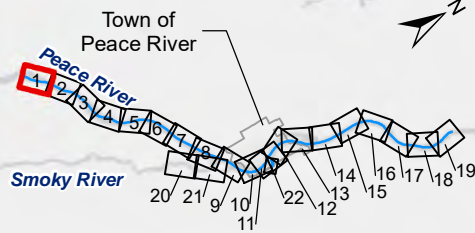
PEACE RIVER HAZARD STUDY  
100-YEAR ICE JAM  
FLOOD INUNDATION MAP



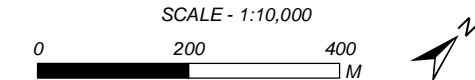
**200-YEAR ICE JAM FLOOD INUNDATION MAP**  
**(SHEETS 1 TO 22)**

DRAFT





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

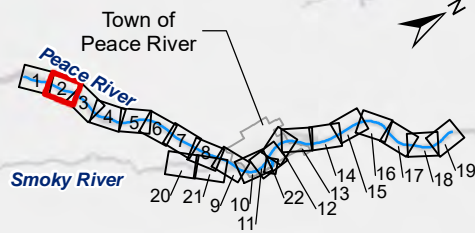
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



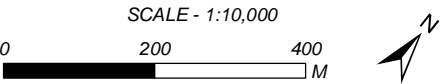


SHEET 1 ↑

↓ SHEET 3



- FLOW DIRECTION
- CROSS SECTION
- FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- FERRY ROUTE
- PEACE RIVER TOWN BOUNDARY
- SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

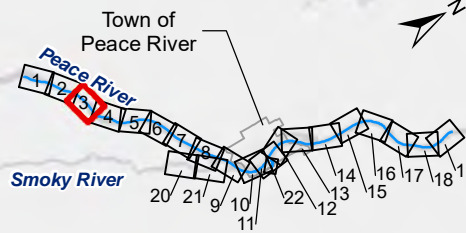
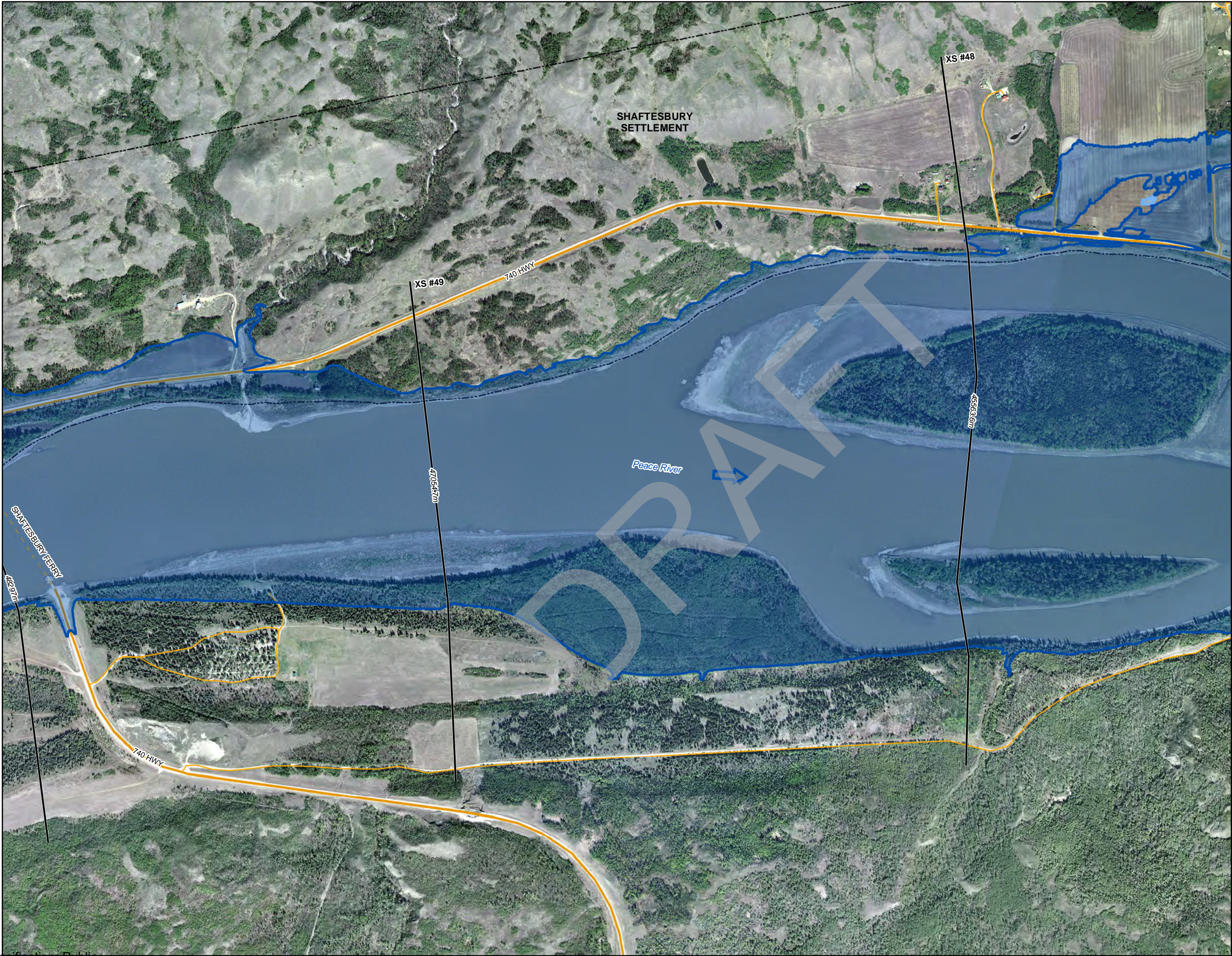


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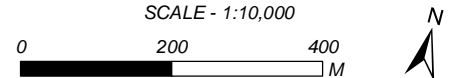
Job: 1001119      Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
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- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

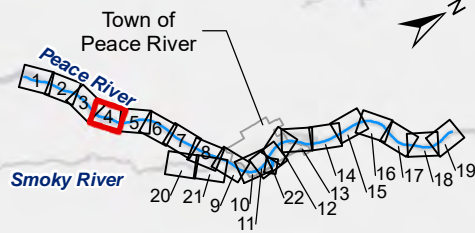
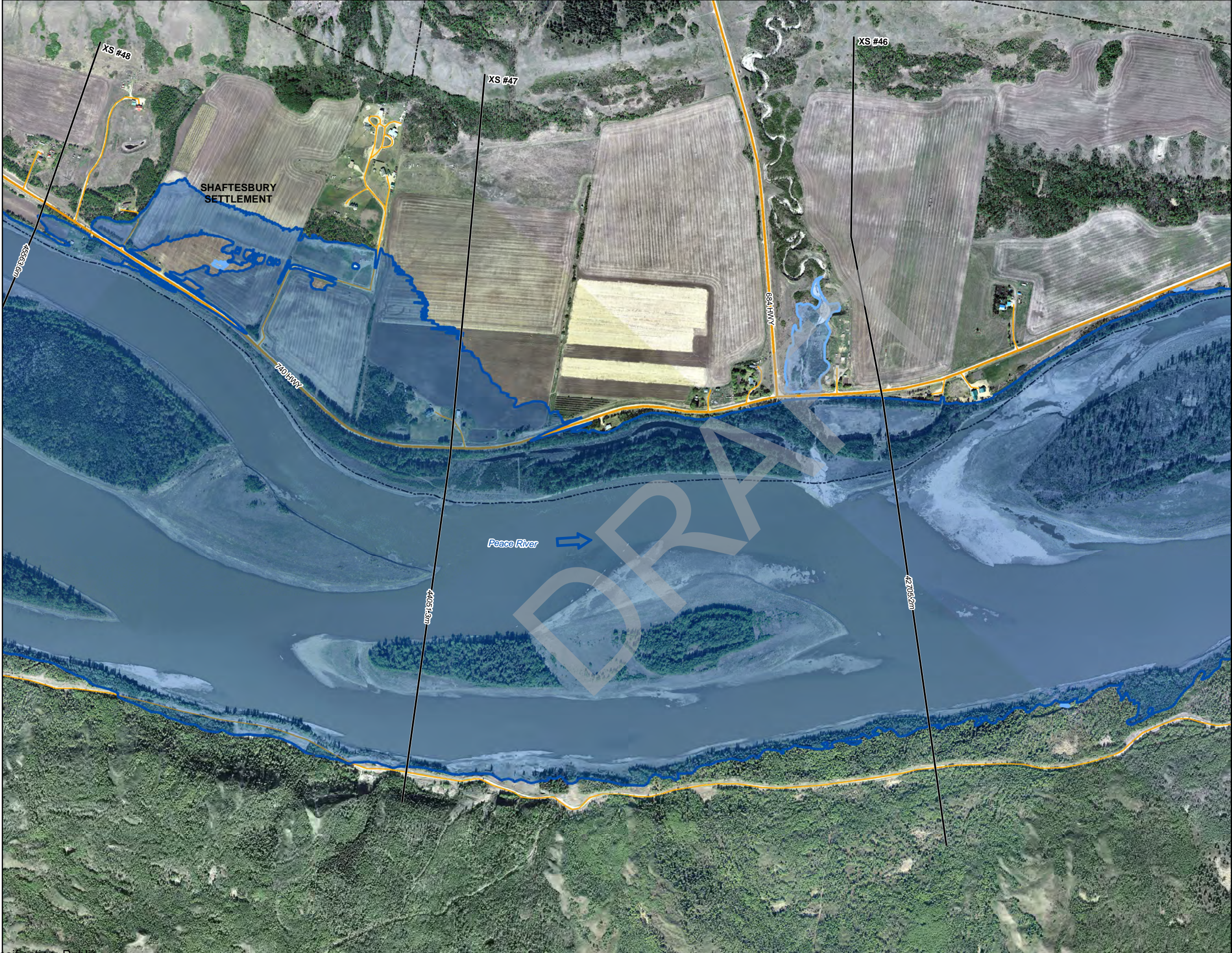


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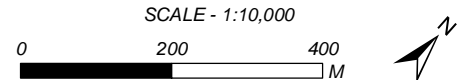
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- .... STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

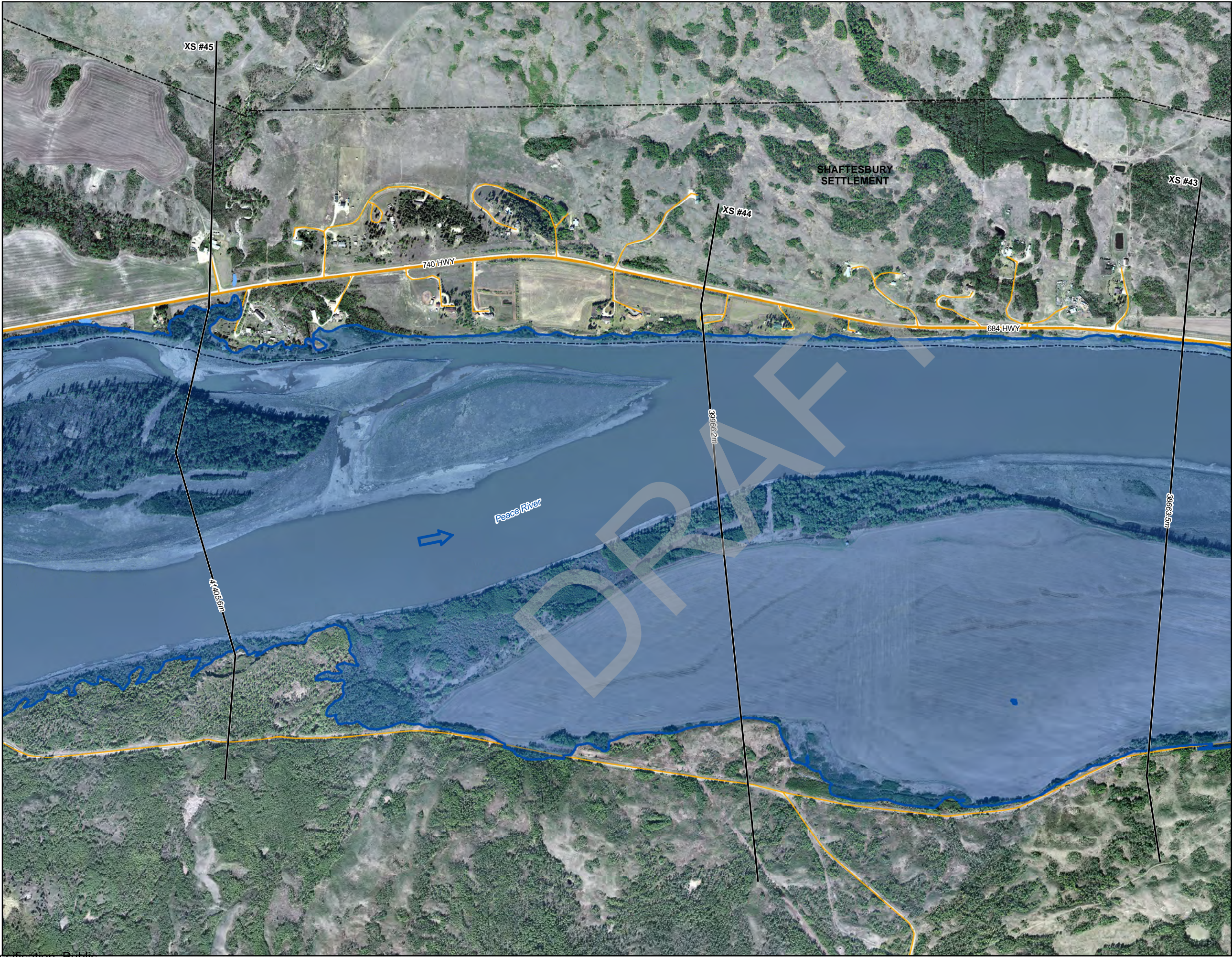


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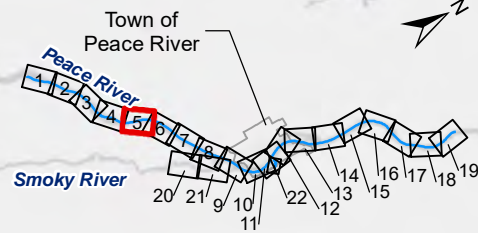
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



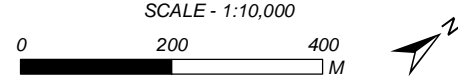


SHEET 4 ↑

↓ SHEET 6



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 | Date: 29-MAY-2018

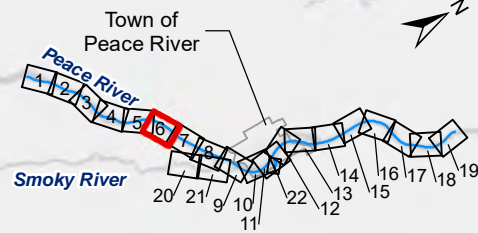
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



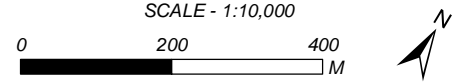


SHEET 5 ↑

↓ SHEET 7



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 | Date: 29-MAY-2018

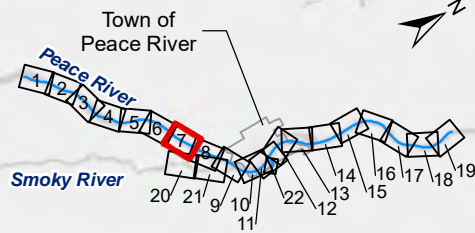
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



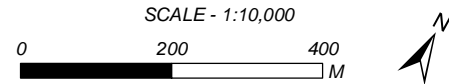


SHEET 6 ↑

↓ SHEET 8



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 | Date: 29-MAY-2018

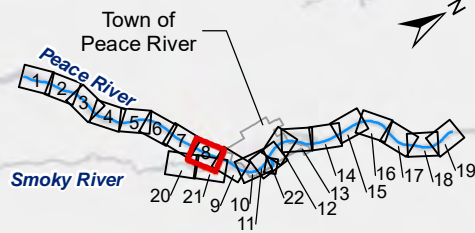
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



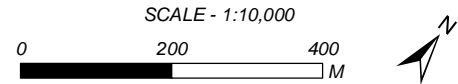


SHEET 7 ↑

↓ SHEET 9



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- .... STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

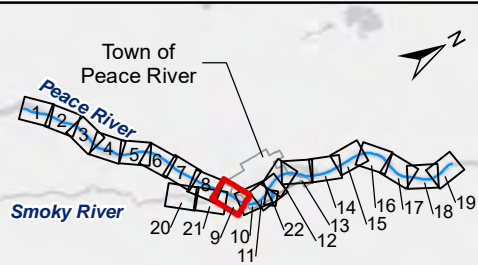


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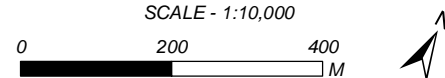
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

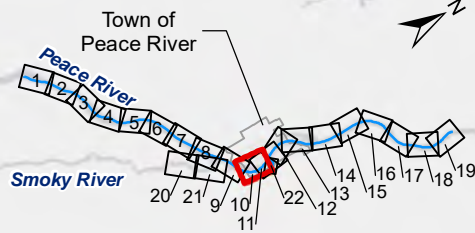
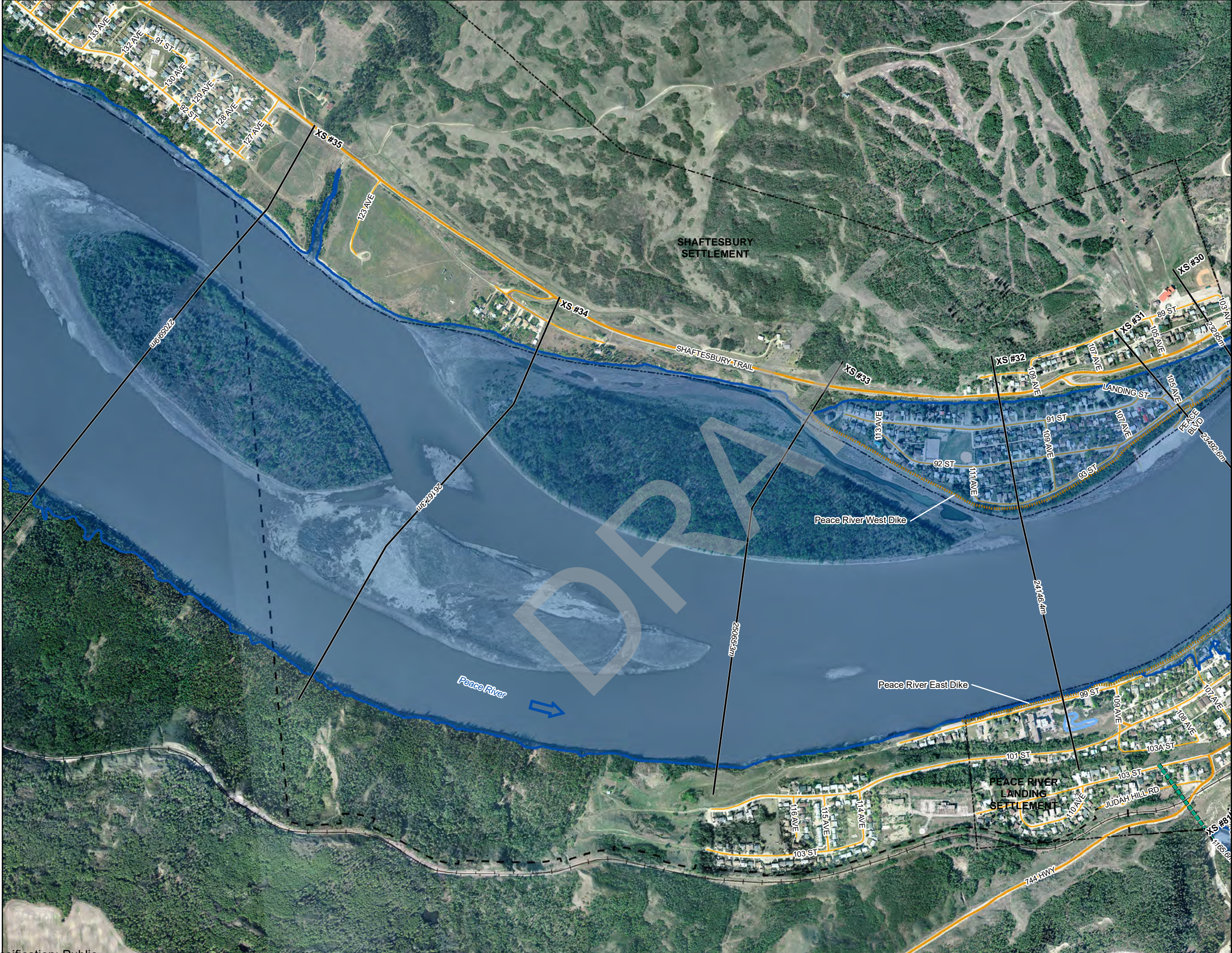


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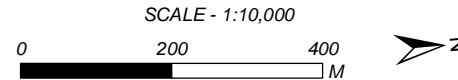
Job: 1001119 | Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



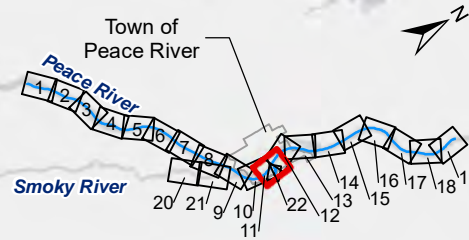
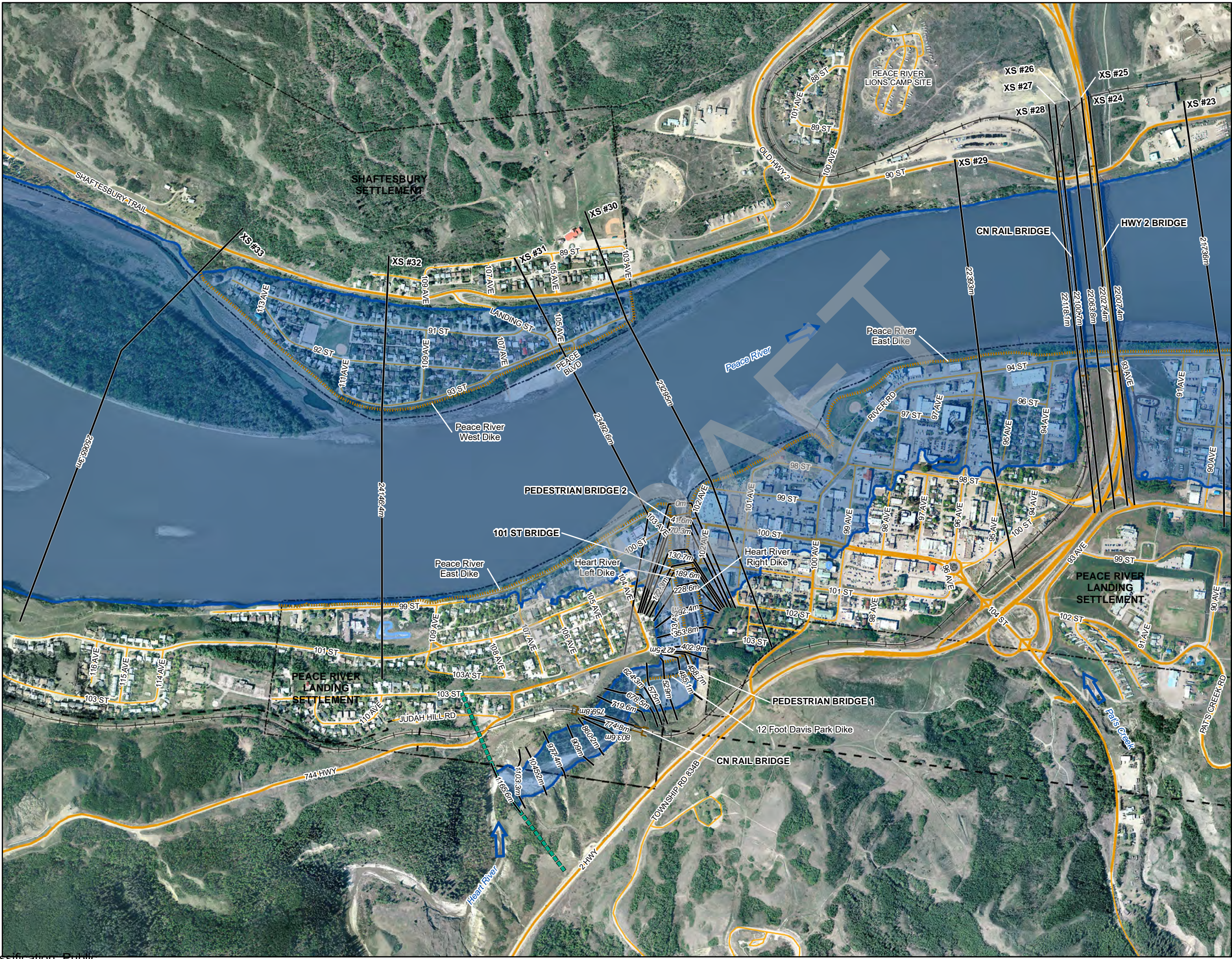
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Units: METRES

Job: 1001119 | Date: 29-MAY-2018

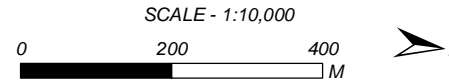
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



SHEET 10 ↑



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

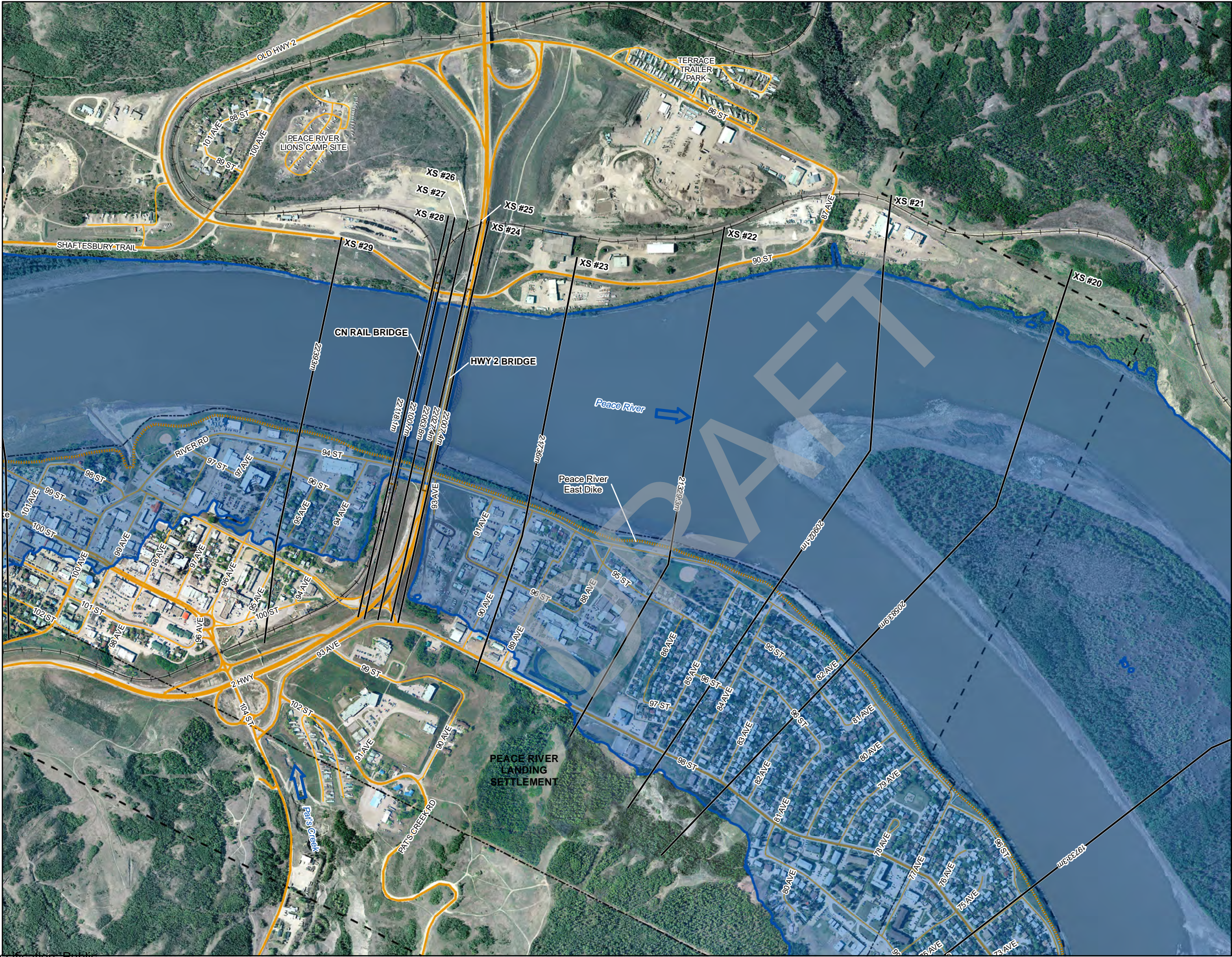


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Job: 1001119      Date: 29-MAY-2018

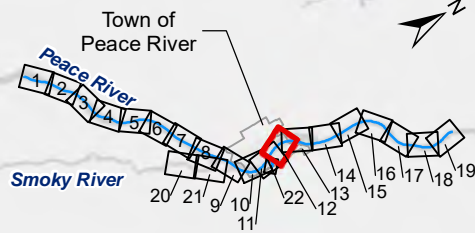
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



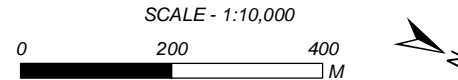


SHEET 11 ↑

↓ SHEET 13



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

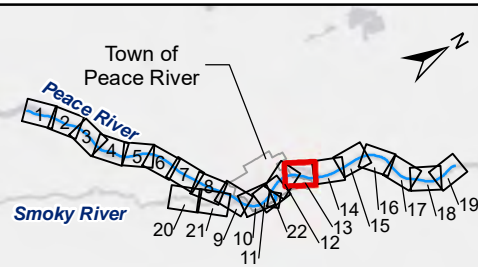


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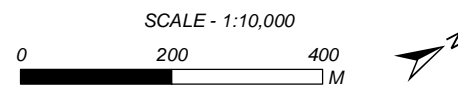
Job: 1001119      Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- ..... STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

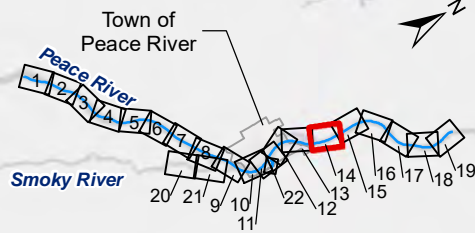


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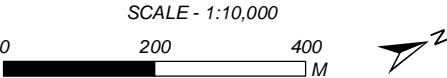
Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119      Date: 29-MAY-2018

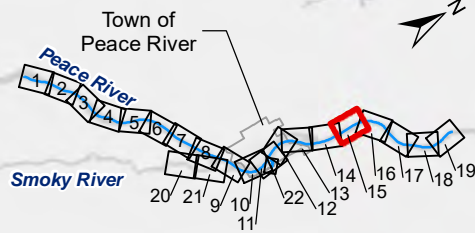
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



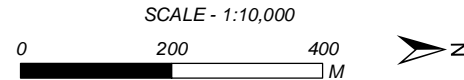


SHEET 14 ↑

↓ SHEET 16



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

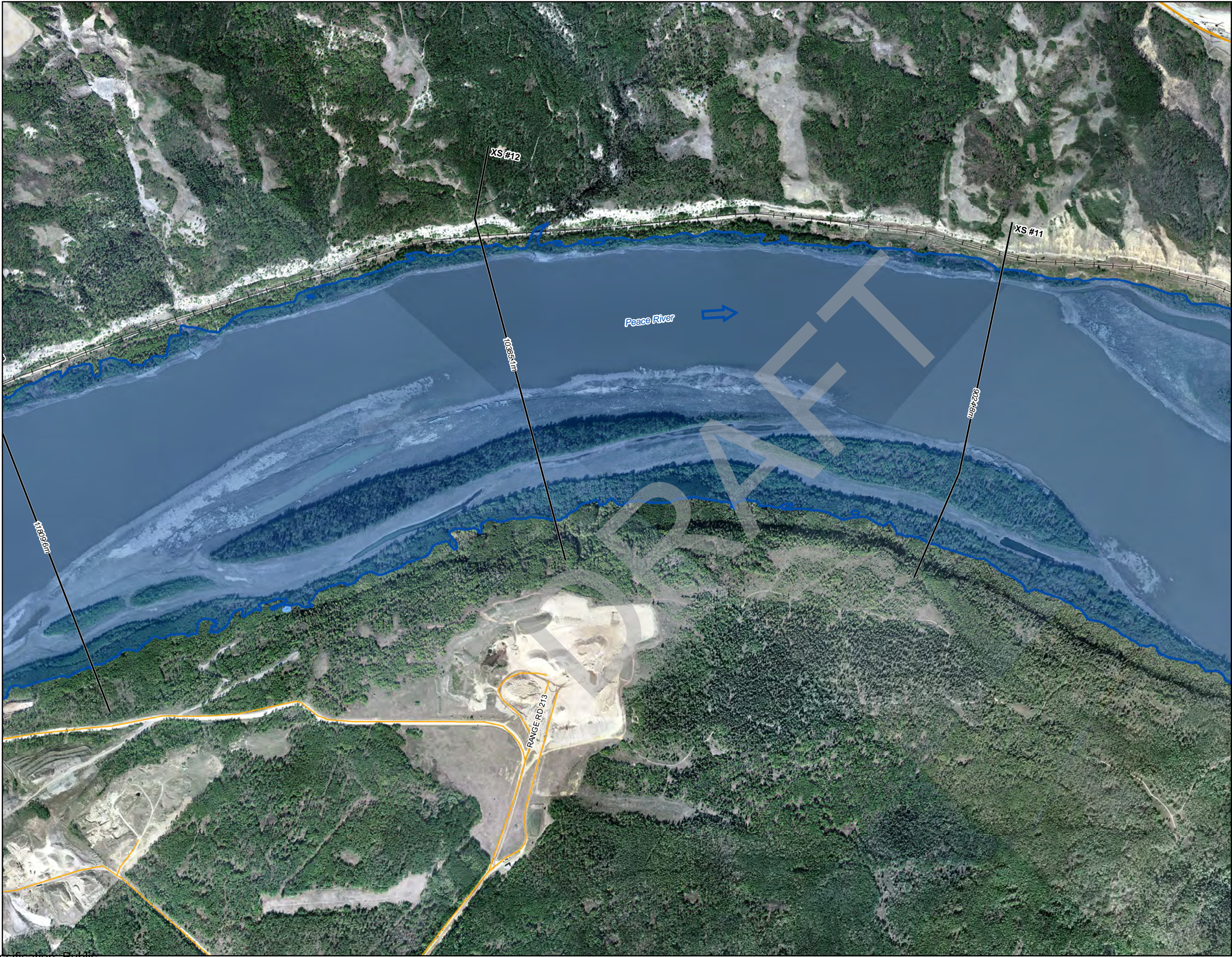


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Job: 1001119      Date: 29-MAY-2018

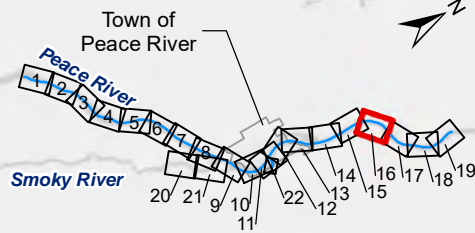
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



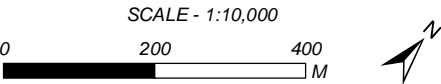


SHEET 15 ↑

↓ SHEET 17



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
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- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

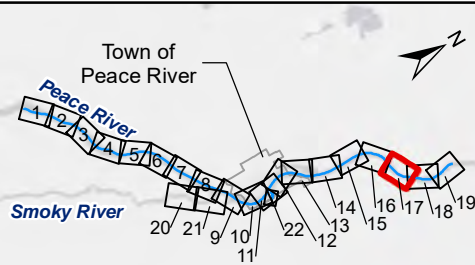


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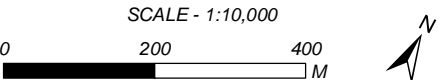
Job: 1001119      Date: 29-MAY-2018

**PEACE RIVER HAZARD STUDY**  
**200-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
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- LOCAL ROAD
- - - FERRY ROUTE
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- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

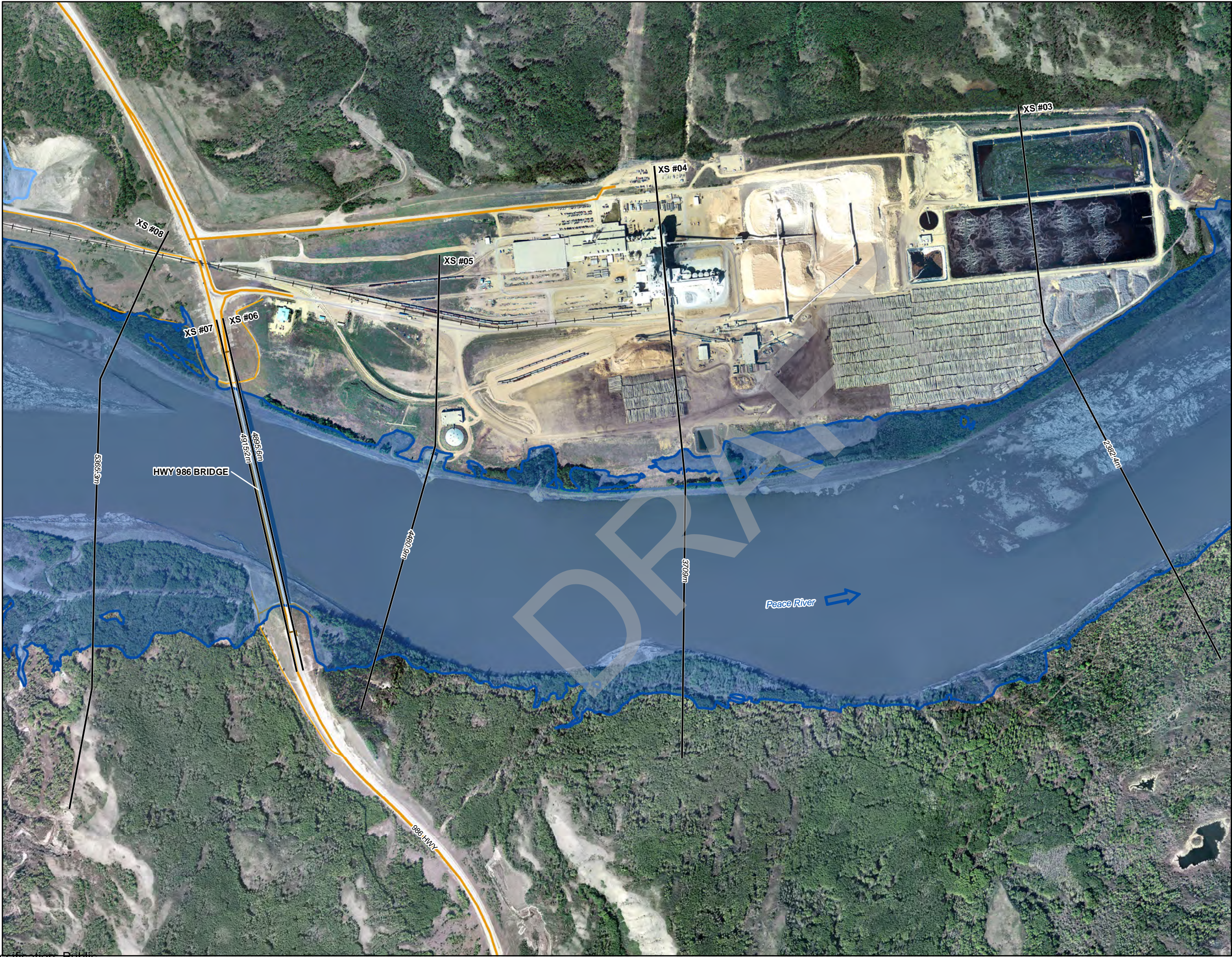


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Job: 1001119 Date: 29-MAY-2018

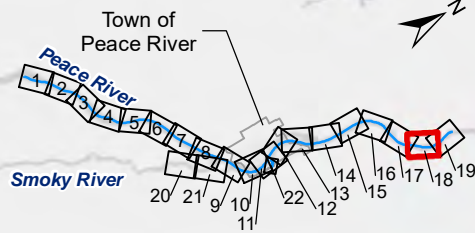
PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP



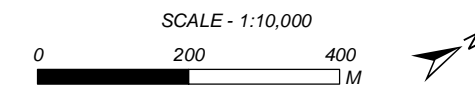


SHEET 17 ↑

↓ SHEET 19



- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
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- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

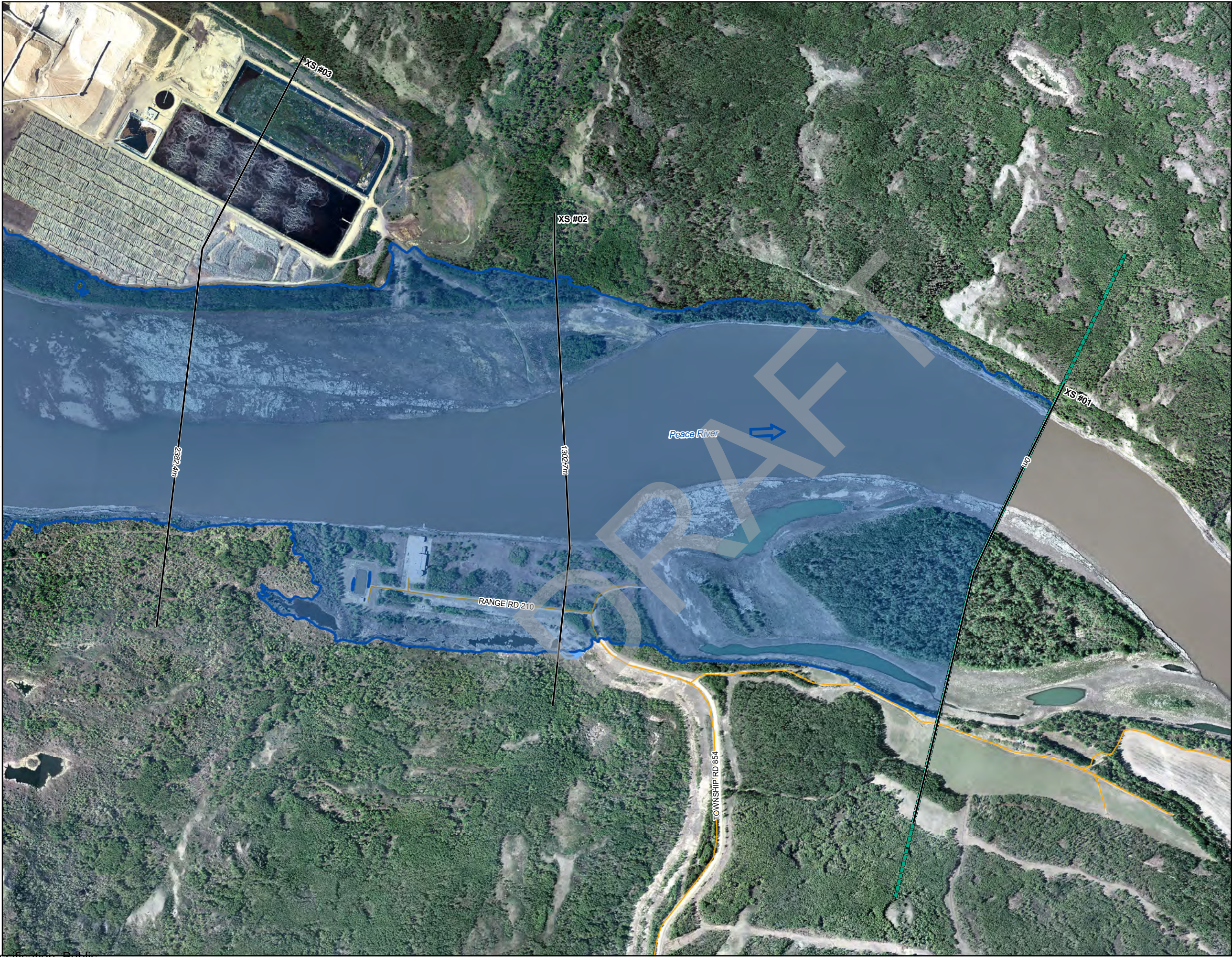


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Job: 1001119      Date: 29-MAY-2018

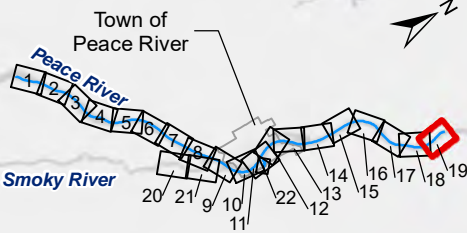
**PEACE RIVER HAZARD STUDY**  
**200-YEAR ICE JAM**  
**FLOOD INUNDATION MAP**





SHEET 18 ↑





➡ FLOW DIRECTION

— CROSS SECTION

..... FLOOD CONTROL STRUCTURE

— BRIDGE

— RAILWAY

— MAJOR ROAD

— LOCAL ROAD

- - - FERRY ROUTE

- - - PEACE RIVER TOWN BOUNDARY

- - - SETTLEMENT BOUNDARY

--- STUDY LIMIT

200-YEAR FLOOD INUNDATION EXTENT

200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)

200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

SCALE - 1:10,000

0 200 400 M



Coordinate System: NAD 1983 CSRS 3TM 117

Units: METRES

Job: 1001119

Date: 29-MAY-2018

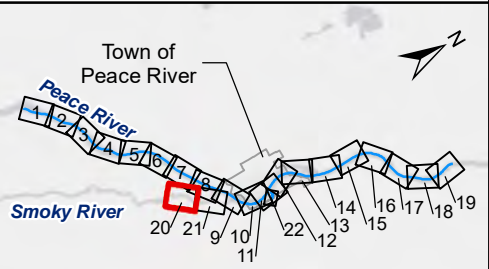
PEACE RIVER HAZARD STUDY

200-YEAR ICE JAM

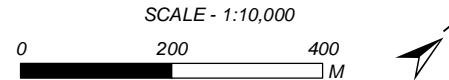
FLOOD INUNDATION MAP

SHEET 19 OF 22





- ➡ FLOW DIRECTION
- CROSS SECTION
- ..... FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- - - FERRY ROUTE
- - - PEACE RIVER TOWN BOUNDARY
- - - SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP







SHEET 20 ↑






 FLOW DIRECTION

 CROSS SECTION

 FLOOD CONTROL STRUCTURE

 BRIDGE


 RAILWAY


 MAJOR ROAD


 LOCAL ROAD


 FERRY ROUTE


 PEACE RIVER TOWN BOUNDARY

 SETTLEMENT BOUNDARY

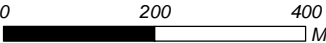
 STUDY LIMIT


 200-YEAR FLOOD INUNDATION EXTENT

 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)

 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)

SCALE - 1:10,000

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Coordinate System: NAD 1983 CSRS 3TM 117

Units: METRES

Job: 1001119

Date: 29-MAY-2018

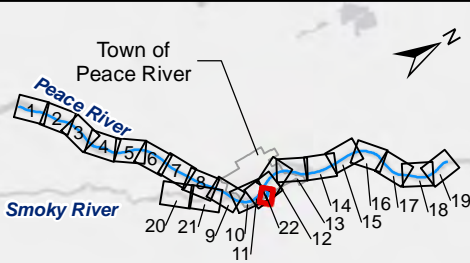
PEACE RIVER HAZARD STUDY

200-YEAR ICE JAM

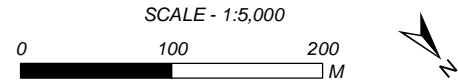
FLOOD INUNDATION MAP

SHEET 21 OF 22





- FLOW DIRECTION
- CROSS SECTION
- FLOOD CONTROL STRUCTURE
- BRIDGE
- RAILWAY
- MAJOR ROAD
- LOCAL ROAD
- FERRY ROUTE
- PEACE RIVER TOWN BOUNDARY
- SETTLEMENT BOUNDARY
- STUDY LIMIT
- 200-YEAR FLOOD INUNDATION EXTENT
- 200-YEAR FLOOD INUNDATION EXTENT (ISOLATED AREA)
- 200-YEAR FLOOD INUNDATION EXTENT (POTENTIAL FLOOD CONTROL STRUCTURE FAILURE)



Coordinate System: NAD 1983 CSRS 3TM 117  
Units: METRES

Job: 1001119 Date: 29-MAY-2018

PEACE RIVER HAZARD STUDY  
200-YEAR ICE JAM  
FLOOD INUNDATION MAP