

Ms. Rebecca Studer-Halbach, P.Eng.
Project Manager
Public Services and Procurement Canada – Western Region
Environmental Services and Contaminated Sites
Management
Government of Canada
5th Floor, ATB Place, 10025 Jasper Avenue
Edmonton, Alberta T5J 1S6 **Error! Reference source not found.**

Date
October 15, 2021

Project #
60608868

Dear Rebecca,

**Subject: Kwetj paà (Rayrock) Remediation Project
2021 Field Investigation Summary – Winter Road Crossing Imagery**

AECOM Canada Ltd. (AECOM) is pleased to provide Public Services and Procurement Canada (PSPC) these results of aerial photo collection at two potential winter road crossings associated with the Rayrock remediation project.

Remediation activities are proposed to be undertaken at Rayrock and the associated project sites in 2022. Winter road construction is required to mobilize equipment to the site. A component of winter road construction includes the construction of winter river crossings over either the Emile River or the Marian River. The purpose of the 2021 imagery collection was to obtain data that would facilitate an understanding of the crossing locations for potential project bidders.

Data collected included:

- Sub-Arctic Surveys Ltd. used a drone to collect aerial imagery and ground topographic information of both river crossings. This data is provided as Figures 1 and 2 in **Appendix A**.
- Figures 1 and 2 identify the approximate location of the historical winter roads with the approximate width of the rivers identified at the crossing locations.
- Photographs collected at each site are provided in **Appendix B**.

We trust this submission meets your requirements. Please contact the undersigned should you have any questions regarding this submission.

Sincerely,
AECOM Canada Ltd.



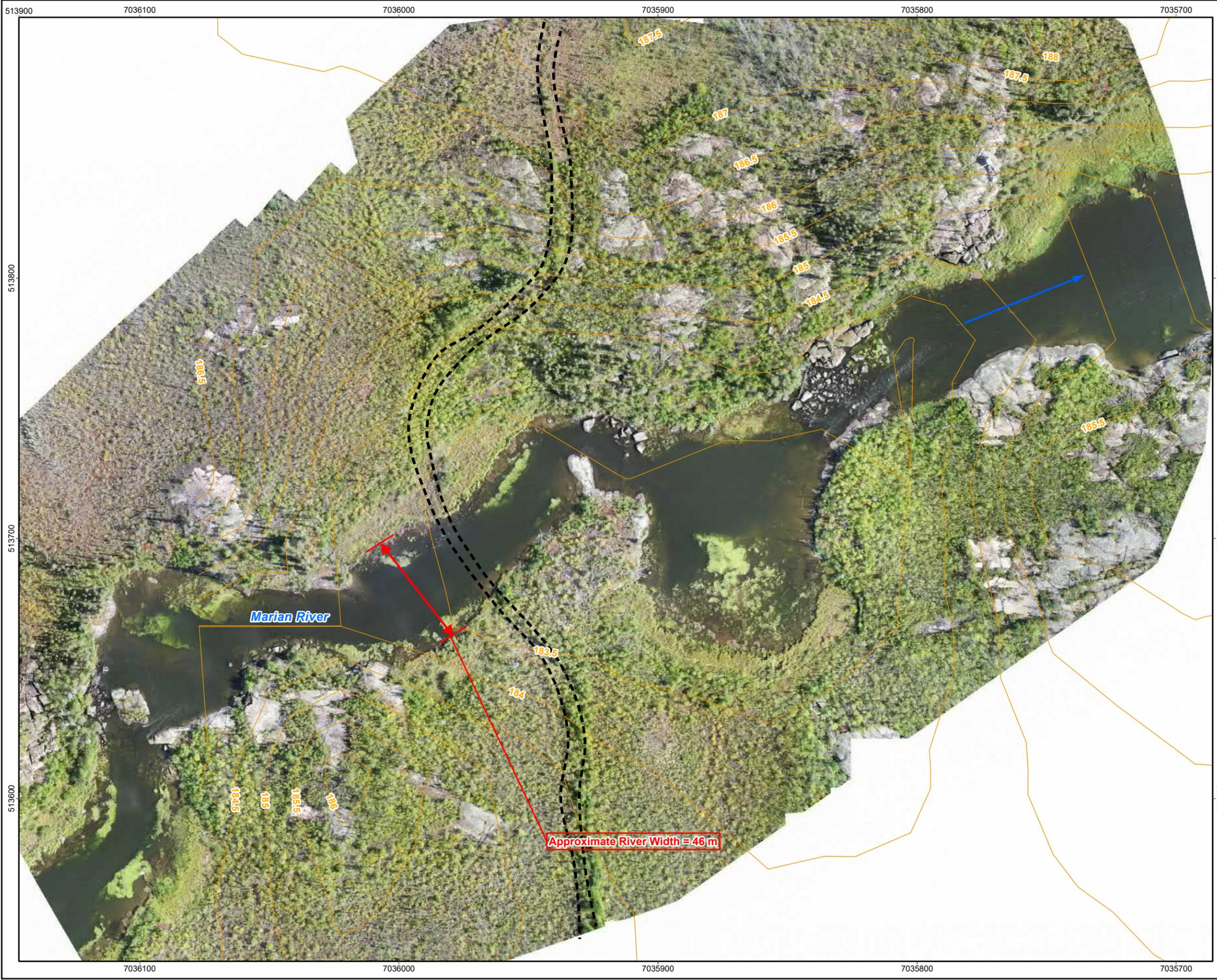
Joël Nolin, P.Eng.
Senior Project Manager
joel.nolin@aecom.com



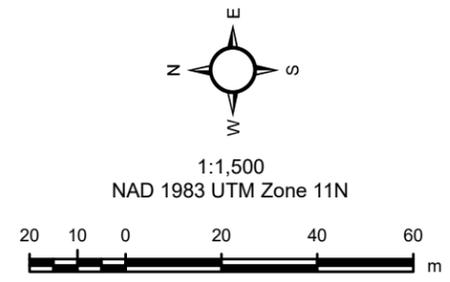
Mike Gunderson, B.Sc.
Environmental Scientist
mike.gunderson@aecom.com

Appendix **A**

Last saved by: RAJEE CROSSMAN (2021-10-15)
File name: L:\CALGARY\CAD\LEGACY\CAD\REFS\501\PROJ\PROJ\PROJECTS\60608868\000\CAD_CUST\000_000 (GIS_CB\PHICS)\02_MAX\02\001_RIVER_CROSSING_REPORT\001_00000000.MXD
Project Management Initials: Designer: Checked: Approved: ANS/B 279.4mm x 431.8mm



- Legend**
- Topographic Contours (0.5 m)
 - - - Suspected Historical Winter Road Alignment
 - Flow Direction



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Appendix **B**

Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 1	Date 8/28/2021
Direction Photo Taken North	
Description East side of Emile River facing north.	

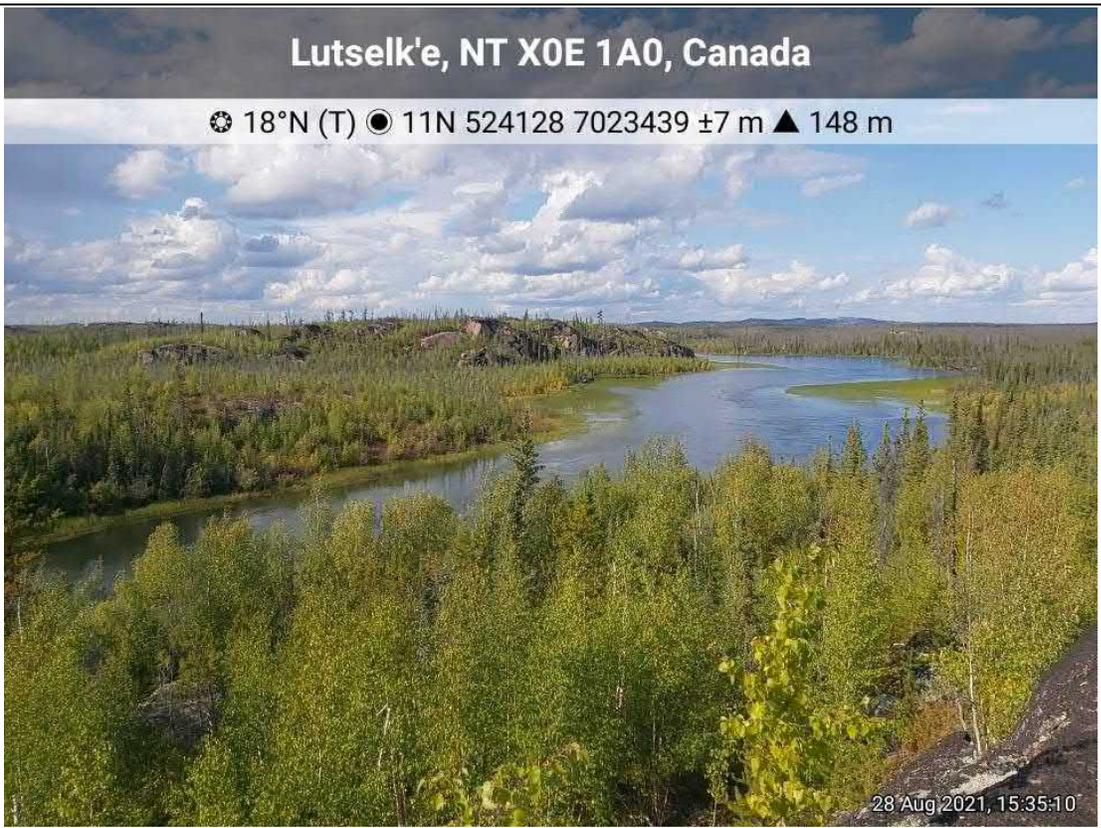
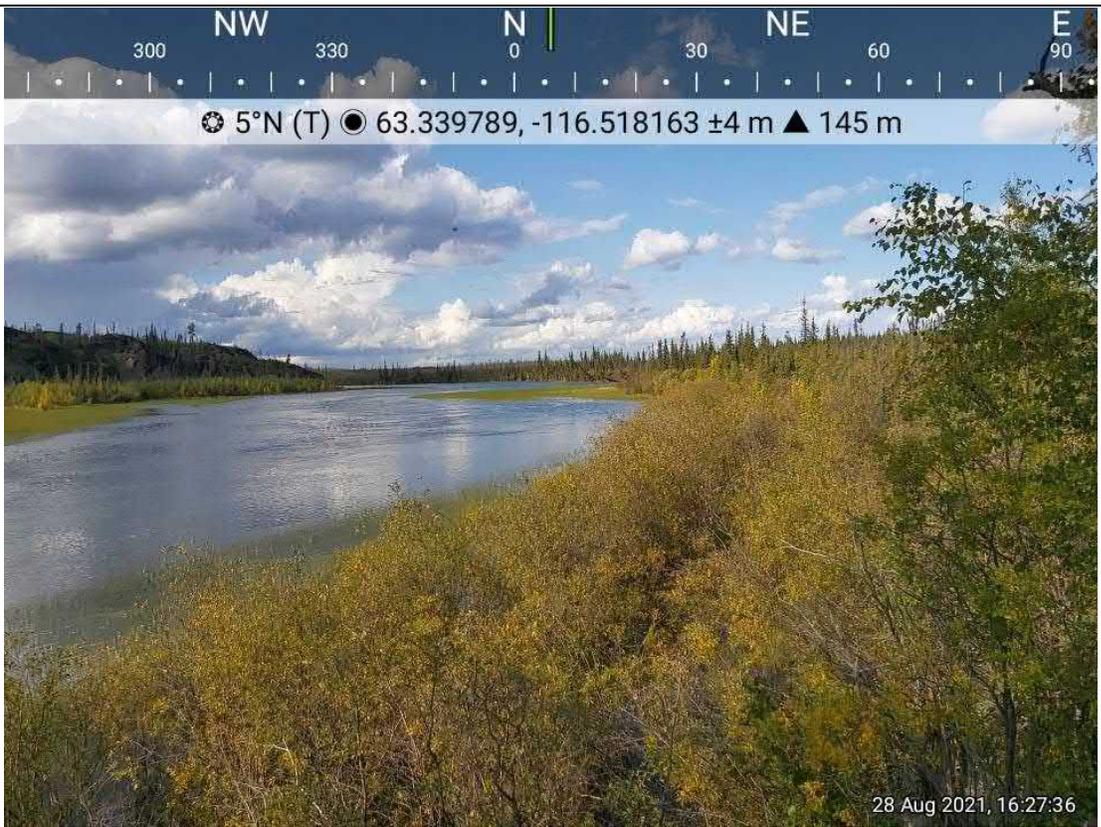


Photo No. 2	Date 8/28/2021
Direction Photo Taken North	
Description East side of Emile River facing north.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 3	Date 8/28/2021
Direction Photo Taken North	
Description East side of Emile River facing north.	

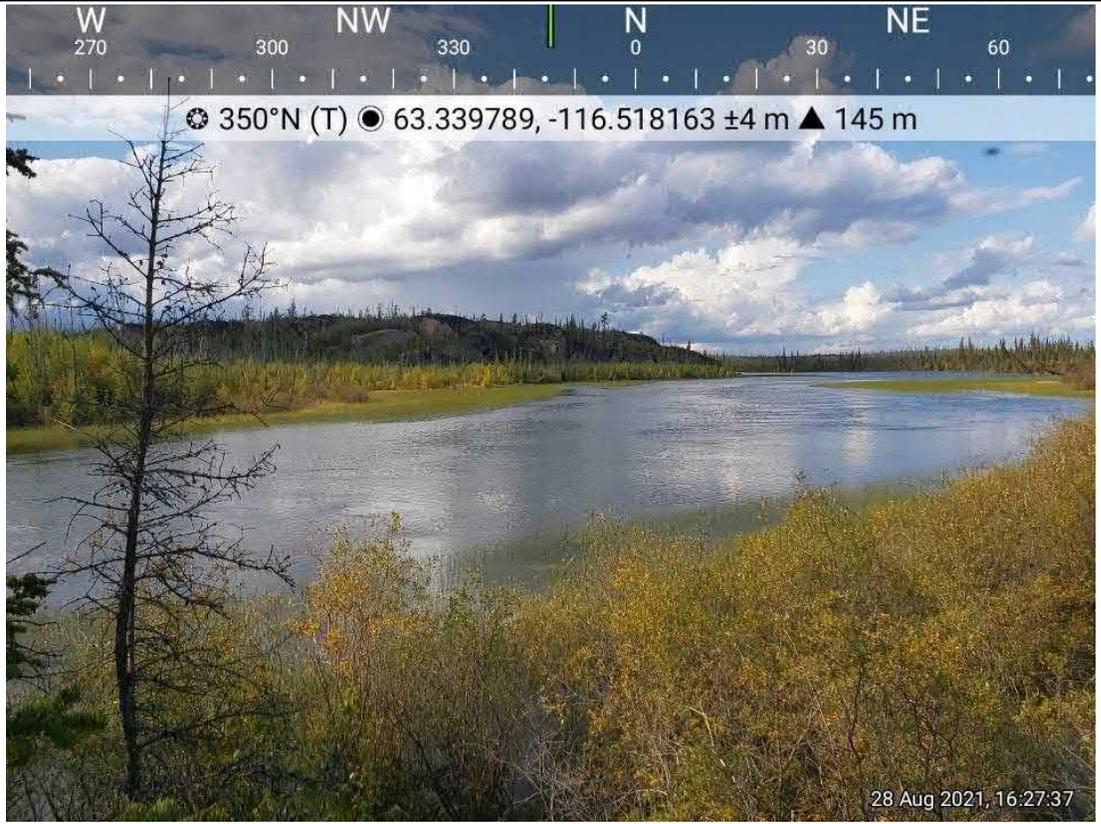


Photo No. 4	Date 8/30/2021
Direction Photo Taken Northwest	
Description East side of Emile River facing northwest.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 5	Date 8/30/2021	
Direction Photo Taken West		
Description Standing on the historical winter road on the east side of Emile River, facing west.		

Photo No. 6	Date 8/30/2021	
Direction Photo Taken West		
Description Standing on the historical winter road on the east side of Emile River, overlooking the water to the west.		

Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 7	Date 8/28/2021
Direction Photo Taken Northwest	
Description East side of Marian River facing northwest.	



Photo No. 8	Date 8/28/2021
Direction Photo Taken North	
Description West side of Marian River, standing near the helicopter landing area facing north.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 9	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River, standing near the helicopter landing area facing northeast.	



Photo No. 10	Date 8/28/2021
Direction Photo Taken North	
Description West side of Marian River facing north.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 11	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River facing northeast.	

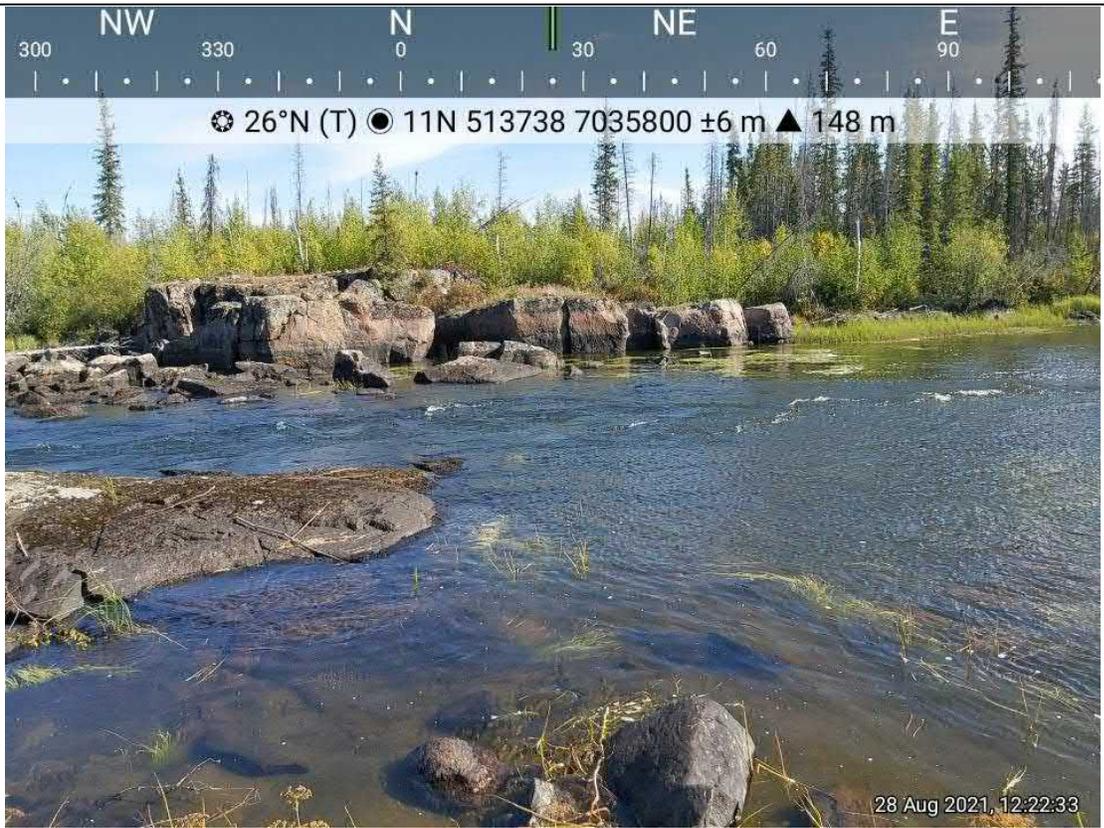
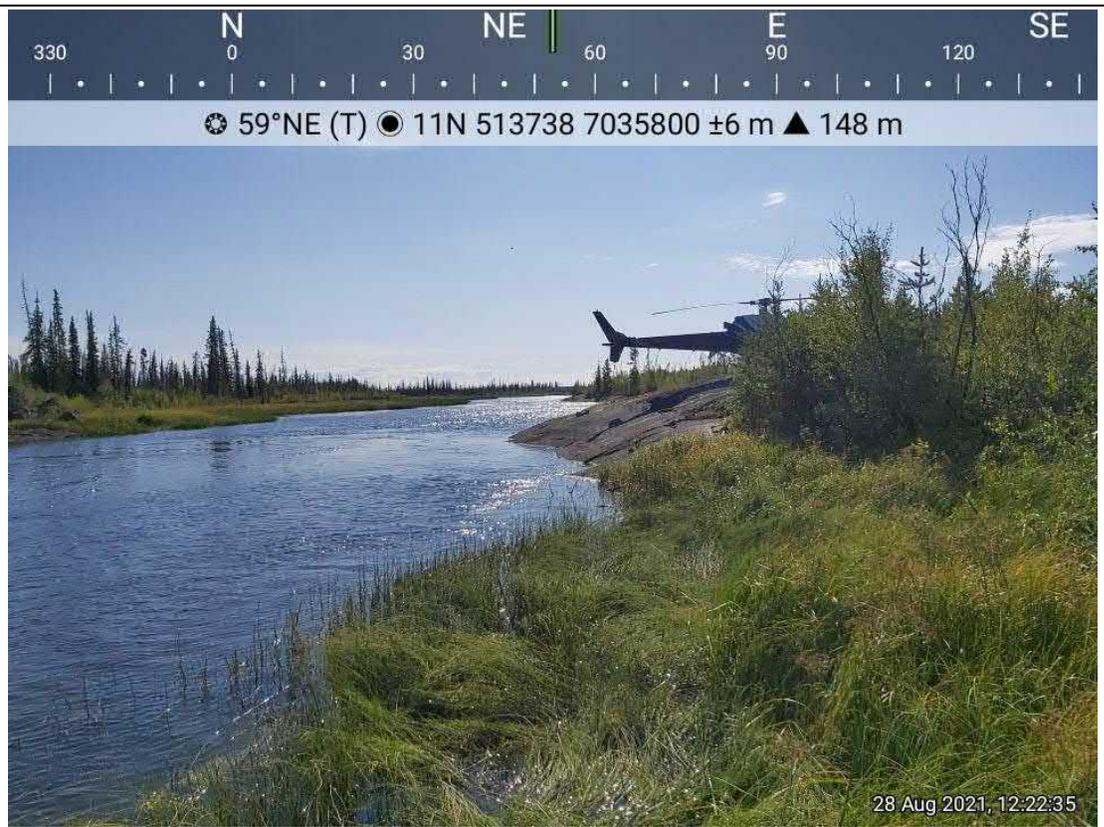


Photo No. 12	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River facing northeast.	



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Photo No. 13	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River facing northeast.	

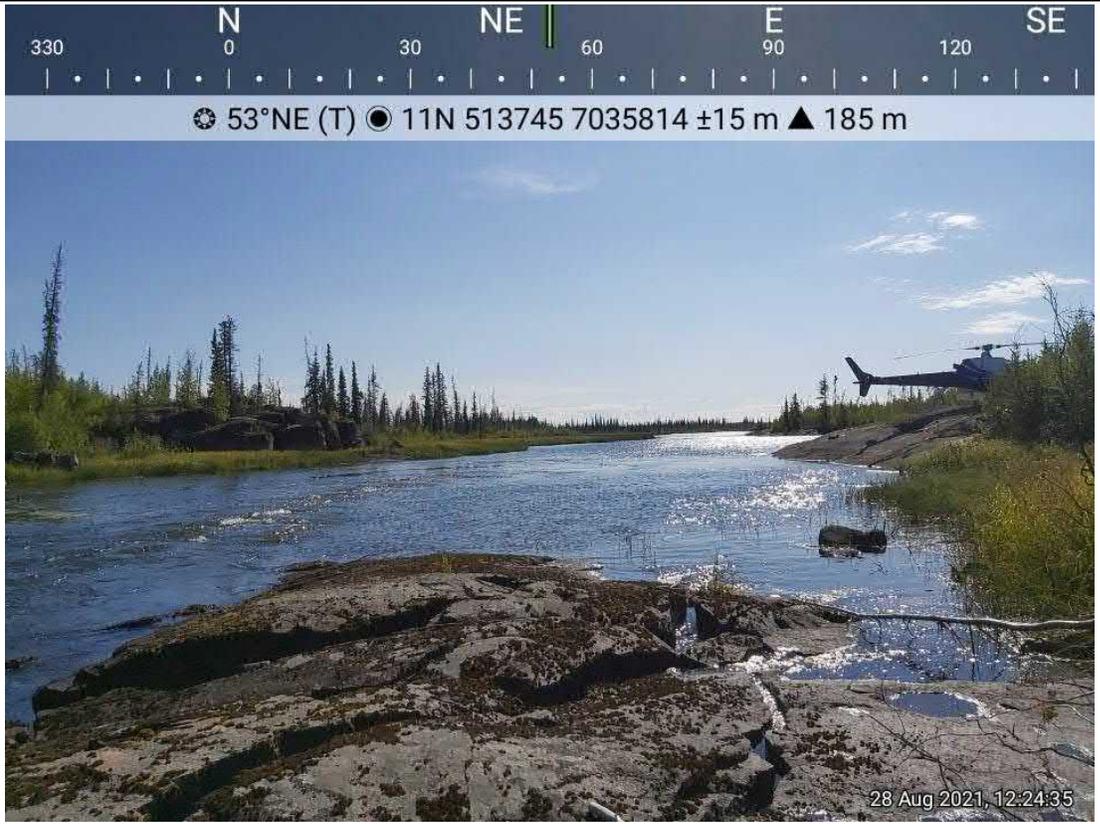
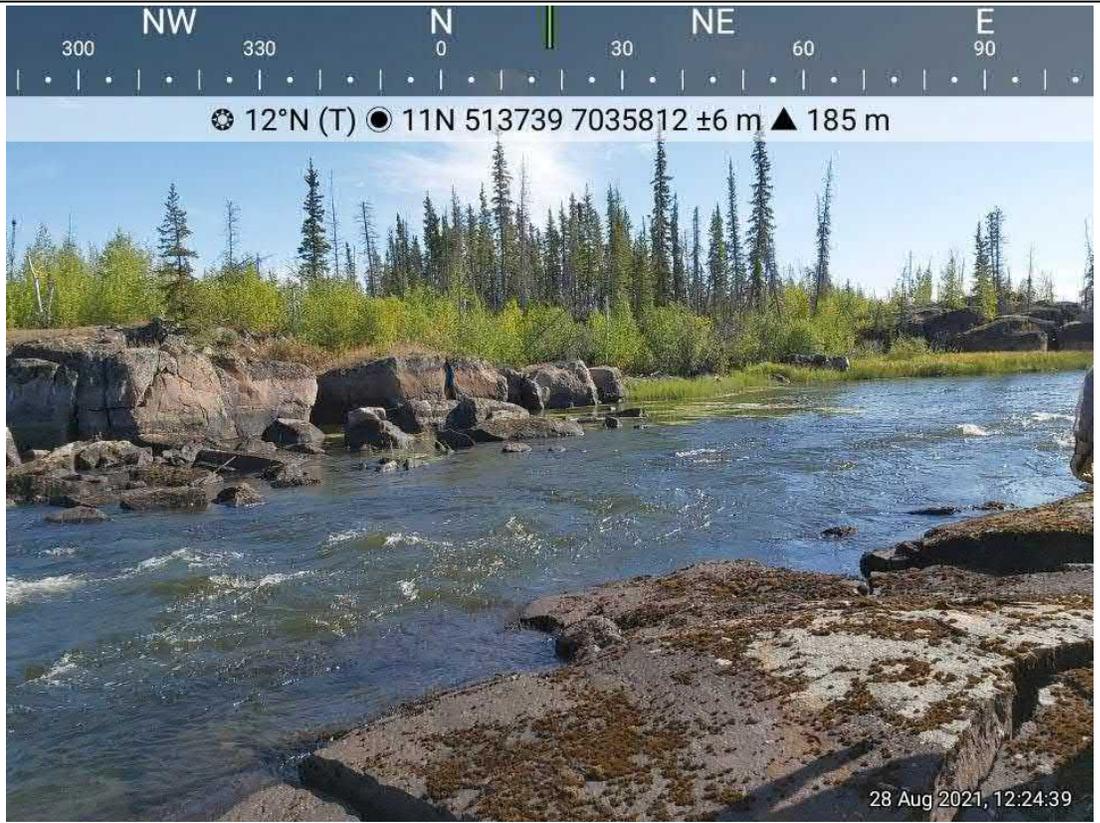


Photo No. 14	Date 8/28/2021
Direction Photo Taken North	
Description West side of Marian River facing north.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 15	Date 8/28/2021
Direction Photo Taken Northwest	
Description West side of Marian River facing northwest.	

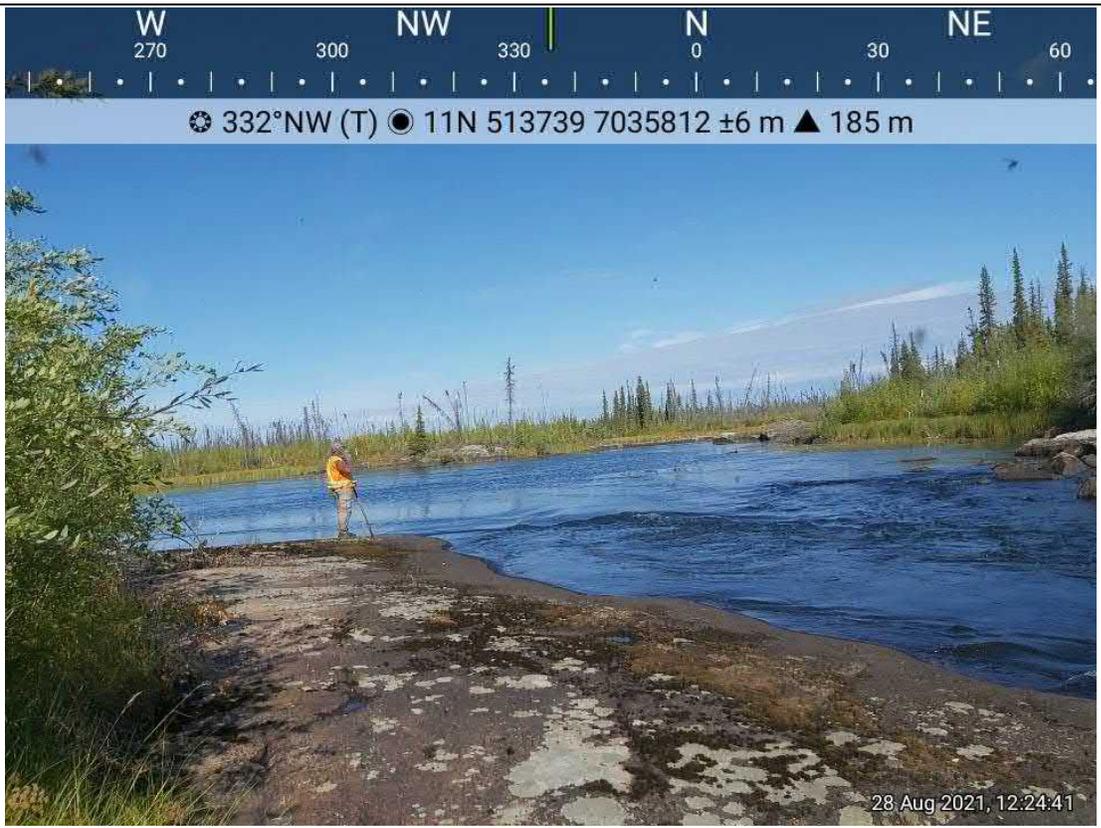
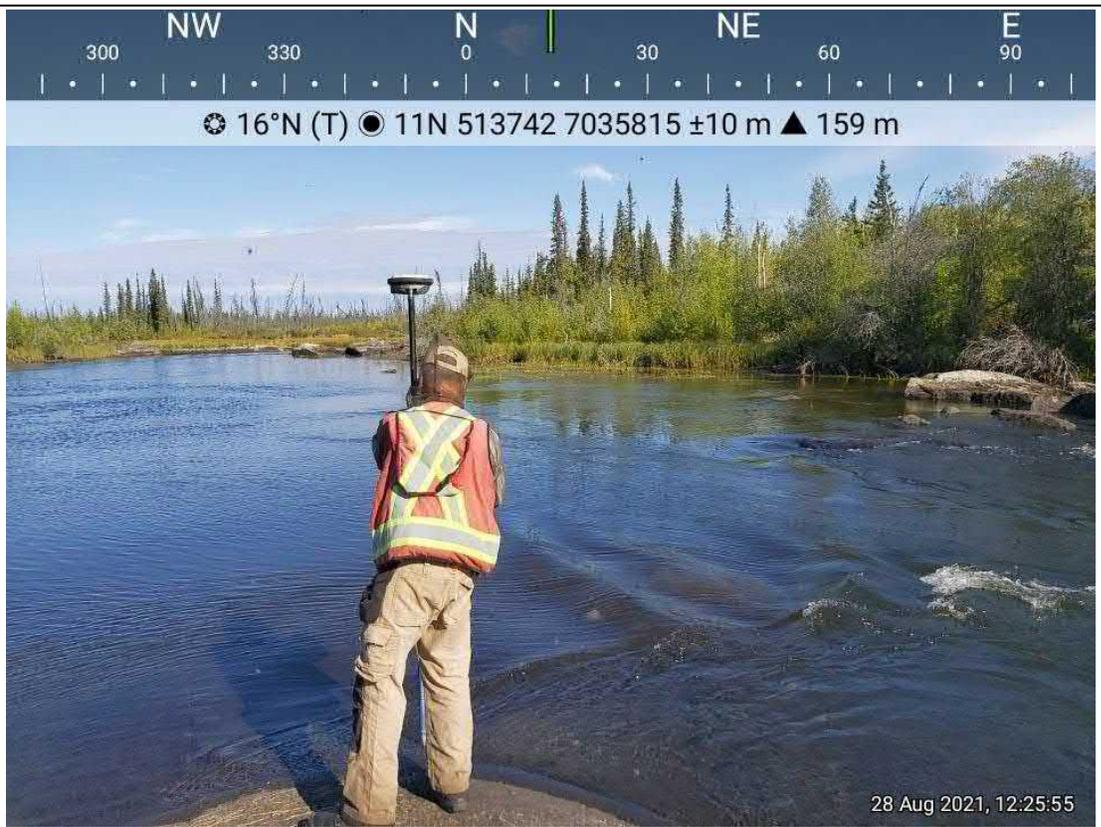


Photo No. 16	Date 8/28/2021
Direction Photo Taken North	
Description West side of Marian River facing North.	



Client Name: Public Services and Procurement Canada	Site Location Emile River Crossing, Near the former Rayrock Mine, NWT	Project No. 60608868
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Photo No. 17	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River facing northeast.	

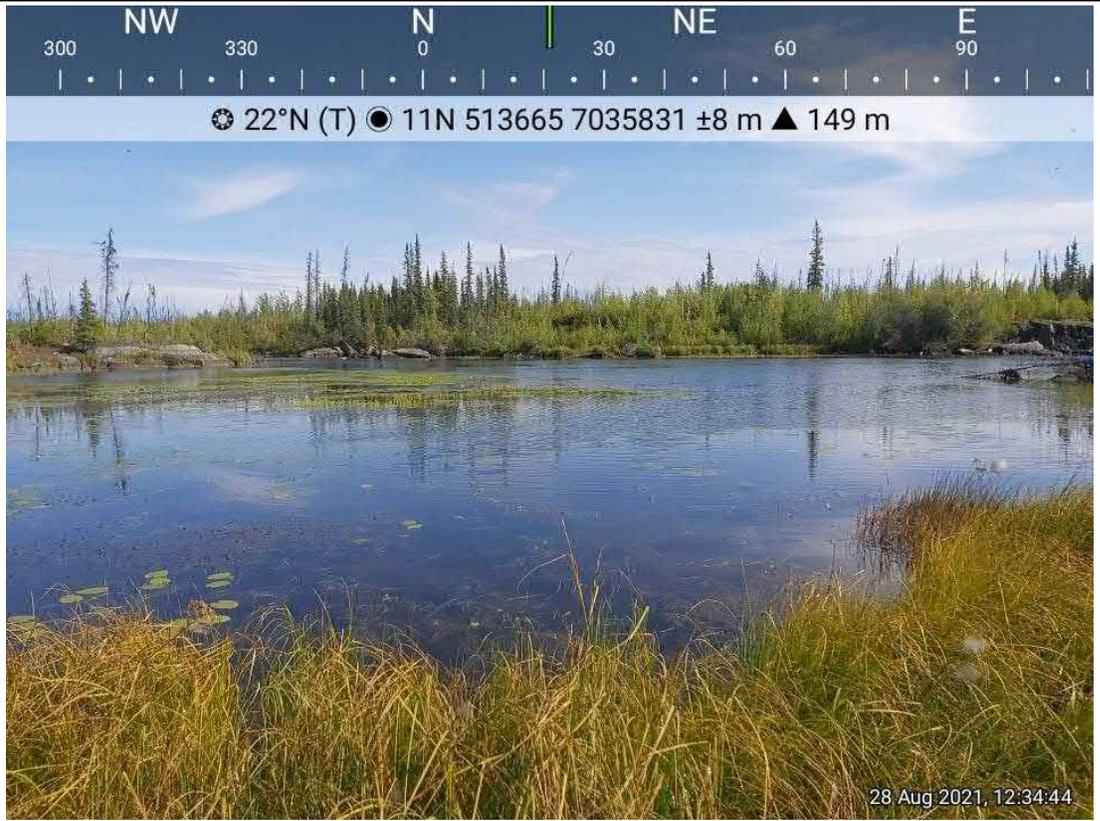


Photo No. 18	Date 8/28/2021
Direction Photo Taken Northeast	
Description West side of Marian River facing northeast.	

