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March 26, 2019

Ms. Siobhan Burland Ross, Acting Director  
Environmental Approvals Branch  
Manitoba Sustainable Development  
1007 Century Street  
Winnipeg, Manitoba R3H 0W4

Dear Ms. Burland Ross

Subject: Red River Floodway Environment Act Licence No. 2691 – Clause 18

Please find encompassed in this letter report a summary of all primary and backup staff for the potential operation of the Red River Floodway during the spring and summer of 2019. This listing of qualified staff covers forecasting and operating positions, and is in compliance with Clause 18 of Environment Act License 2691.

The Red River Floodway operations control staff and qualifications are:

- Primary Staff:
  - *Mr. Peter Johnston, P. Eng., Senior Hydrologic Operations Engineer, Manitoba Infrastructure.* Mr. Johnston has a B.Eng. in Civil Engineering from Lakehead University. Mr. Johnston has been involved in floodway operations and analysis since the spring of 2016, and has 13 years of engineering experience in the field of Water Resources.
  
- Back-up staff:
  - *Ms. Erika Collet, P. Eng., Hydrologic Operations Engineer, Manitoba Infrastructure.* Ms. Collet has a M.Sc. in Civil Engineering from the University of Manitoba. Ms. Collet has been involved in floodway operation and analysis since the spring of 2013, and has 11 years of engineering experience in the field of Water Resources.
  - *Mr. Chris Propp, P. Eng., Manager – Hydrologic Operations, Manitoba Infrastructure.* Mr. Propp has a B.Sc. in Civil Engineering from the University of Manitoba. Mr. Propp has been involved in floodway operation and analysis since the spring of 2013, and has 13 years of engineering experience in the field of Water Resources.

The Red River Floodway forecasting staff and qualifications are:

- Primary Staff:
  - *Dr. Fisaha Unduche, Director - Hydrologic Forecasting & Coordination Branch, Manitoba Infrastructure.* Dr. Unduche has a Doctoral degree in Civil Engineering from the University of Manitoba, a Masters degree in Civil Engineering from the International Institute of Hydraulic Engineering in the Netherlands and a Bachelor of Science Degree from Arbaminch Water Technology Institute, Ethiopia. Since becoming the Director of Hydrologic Forecasting and Coordination Branch in 2014, Dr. Unduche oversees the day to day operation of Manitoba's Hydrologic Forecast Centre to ensure a high level of service to all levels of government and the public. Prior to becoming the Director of Hydrologic Forecasting and Coordination branch, Dr. Unduche had been working for 7 years as the Senior Water Control Systems Planning Engineer for the Province of Manitoba. Dr. Unduche has experience conducting hydro-meteorological analysis, hydrologic modeling, and watershed studies for a number of lakes and rivers to assess and mitigate flooding. He has also been the engineering project manager for a number of large water resources management projects, and he has experience conducting hydraulic designs, technical and economic feasibility studies, planning exercises, project assessments and hydrodynamic modeling of a number of complex water resources management and flood mitigation problems.
  - *Dr. Habtamu Tolossa, Senior Forecaster/Hydrologic Engineer, Manitoba Infrastructure.* Dr. Tolossa earned his doctoral degree in Civil and Environmental Engineering from the University of Stuttgart, Germany; M.Sc. degree in Water Resources Engineering and Management from the University of Stuttgart, Germany; and a B.Sc. degree in Hydraulic Engineering from Arba Minch University, Ethiopia. He has more than ten years of experience in engineering consulting firms and in government sector. Dr. Tolossa specializes in the areas of project management, design and analysis, hydraulic and hydrologic modeling, flood plain mapping, design of hydraulic structures, dam breach analysis, and river engineering. He joined MI in 2015 and since then has developed hydrologic models and provided forecasts for the upper Assiniboine and Red River basins, and is involved in the operation of the Shellmouth dam.
  - *Mr. Jeff Krut, P.Eng., Flood Damage Reduction Hydraulic Engineer, Manitoba Infrastructure.* Mr. Krut has earned a B.Sc. in Civil Engineering from the University of Manitoba. He has 11 years of experience with hydraulic and hydrologic modeling. Since joining MI in 2013 he has provided forecasts and developed hydrodynamic models for a number of rivers in Manitoba including the Red River.

The Red River Floodway Inlet Control Structure operations staff and qualifications are:

- Primary Staff:
  - *Mr. Roger Lemoine, Senior Water Control Technician, Manitoba Infrastructure.* Mr Lemoine has acquired 36 years of experience with the Department and an equal amount of time operating and maintaining the Inlet Control Structure.
  - *Mr. Phil Laberge, Water Resources Supervisor, Manitoba Infrastructure.* Mr. Laberge has acquired 15 years of experience with the Department and an equal amount of time operating and maintaining the Inlet Control Structure.
  - *Mr. Carmen Scarpino, Lead Hand Construction Worker, Manitoba Infrastructure.* Mr. Scarpino has acquired 9 years of experience with the Department and an equal amount of time operating and maintaining the Inlet Control Structure.
  - *Carlos Gavria – Engineering Aid 4, Manitoba Infrastructure.* Mr. Gavria has 2 years of experience in the operation of the Red River Floodway Inlet. He was part of the 24 hour operations crew during the recent 2017 spring runoff event.
  
- Backup Staff:
  - *Mr. Mark Bain, Water Resources Supervisor, Manitoba.* Mr. Bain has acquired 16 years of experience with the Department and 8 years experience operating and maintaining the Inlet Control Structure.
  - *Mr. Don Mroz, Construction Worker, Manitoba Infrastructure.* Mr. Mroz has acquired 15 years of experience with the Department and 11 years experience operating and maintaining the Inlet Control Structure.
  - *Mr. Ted Greschuk, Acting Water Resources Supervisor, Manitoba Infrastructure.* Mr. Greschuk has acquired 10 years experience with the Department and 6 years of experience maintaining the Inlet Control Structure.
  - *Mr. Rick Dubois, Water Resources Supervisor, Manitoba Infrastructure.* Mr. Dubois has 34 years of experience with the Department and has 23 years of experience operating and maintaining the Inlet Control Structure. Mr. Dubois is retired, but can be contacted to return and assist if required.

I trust the above information is satisfactory.

I may be reached by telephone at (204) 771-4941 if additional information is required.

Sincerely,



Kimber Osowy, M.Sc., P. Eng.,  
Manager, Environmental Services

Date: March 26, 2019  
Subject: Red River Floodway Environment Act Licence 2691 - Clause 18

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cc : Eugene Kozera  
Fisaha Unduche  
Chris Propp  
Jason Senyk  
Roger Lemoine  
Bruce Webb  
Peter Johnston