



Meeting Date:	June 16, 2021
Contact:	Robert Tremblay, CAO rtremblay@whitewaterregion.ca 613-646-2282, Ext. 126

**Title:**

Request for Proposal - Flood Risk Assessment 2021-27

**Recommendation:**

That Council of the Township of Whitewater Region approve the award of RFP 2021-27 to Jp2G Consultants Inc. for the completion of a Flood Risk Assessment at a total cost of \$68,972.93 inclusive of non-refundable H.S.T.

**Background:**

A report on grant opportunities was presented to Council on March 3, 2021. The Township was informed this spring that it was successful in obtaining a grant under the federal National Disaster Mitigation Program to fund 50% of the costs of the flood risk assessment.

The Township of Whitewater Region wishes to engage a consultant to complete a flood risk assessment for an area south-west of the Westmeath Provincial Park along the Ottawa River which includes a Provincially Significant Wetland, and some grandfathered properties situated in the floodway or flood fringe. This area seasonally floods with the spring freshet and represents a significant and recurring flood risk. The Township has identified flooding in its Hazard Identification and Risk Assessment.

Historically, flooding of the project area has been a threat mainly due to the flat, low-lying topography of the area relative to the adjacent water body, being the Ottawa River. The history of overland flooding from this portion of the Ottawa River has been documented in shoreline studies and damage surveys including the Flood Damage Reduction Program (FDRP) prepared by Environment Canada, the Ontario Ministry of Natural Resources and the former Township of Westmeath in the late 1980's, early 1990's. The FDRP Ottawa Risk Flood Maps project was composed of three phases, of which the project area comprises Phase 1, and indicates that the two-zone approach is applicable (i.e. identification of the floodway and flood fringe areas).

This general area was severely impacted by 2019 flooding with several property owners relying on the Disaster Recovery Assistance for Ontarians (DRAO) Program to address flood damage. More than 75,000 sandbags were deployed to the area. The area generally requires significant sand bagging and pumping efforts each freshet. In 2019 because of flooding, the high water and wave action caused varying amounts of damage. Numerous properties were required to be renovated, raised, reconstructed, or demolished.

Geographic Area: Part of Lots 1 - 30, Westmeath Concession North Front A (area west of the Westmeath Provincial Park along the Ottawa River from Greatview Trail to Moore's Beach Road, including Sunset Trail, Edgeview Trail, McWitt Trail and Sand Point Road). Please refer to Attachment No. 1.

The area encompasses 105 properties. The risk assessment will assist property owners, as well as the Township on ways to mitigate flood risk and response. It will help prioritize funding and potentially reduce claims under the Disaster Recovery Assistance for Ontarians Program (DRAO) and Municipal Disaster Recovery Assistance Program (MDRAP).

The flood risk assessment is intended to evaluate the two-zone flood management policy by:

- Documenting and assessing the condition of the existing flood control measures.
- Documenting the condition of the existing infrastructure, including access.
- Quantifying the risk to the flood-prone areas under various scenarios, including regular seasonal flood, 1:100 Year, 2019 water levels, and other scenarios.
- Preparing a prioritized action plan to address and mitigate the risk of flooding.
- Identifying alternative solutions for flood protection measures in the general area.

### **Analysis:**

RFP submissions received from qualified consulting firms were reviewed as a two envelope package with Envelope 1 containing the proponent's technical proposal and Envelope 2 containing their financial proposal. Technical proposals are graded on particular criteria including:

- Firm's Qualifications and Experience, including demonstrated knowledge of PIEVC Engineering Protocol and hazard technical guidelines

- Firm's Proposal and Approach, including public and agency engagement, and workplan
- Upset Cost Estimate – Submitted separately
- References

A total of two submissions were received from qualified consulting firms. Overall scoring is as follows. Bids were evaluated by the CAO, Managers of Community Development & Public Works, and the Council Liaison for Protective Services (Emergency Management):

KGS Group	86 points
Jp2G Consulting	87 points

Project cost totals for the project are as follows based on the approved grant's budget:

KGS Group	\$79,087.57 including HST
Jp2G Consulting	\$71,220.81 including HST.

In addition to engineering work completed for the Township, the successful bidder also conducted a flood assessment study for the Royal Military College in Kingston, a floodplain mapping review for the City of Ottawa, and a feasibility study for flood proofing a roadway in the Towns of Perth. Their workplan includes over 600 hours of consultant hours and significant public engagement with property owners, including on-site visits.

**Strategic Plan Departmental Workplan:**

This project supports a key strategy under the Environment in the 2020-2030 Strategic Plan:

- Minimize impacts of drainage, stormwater, flooding and climate change.

The 2021 Departmental workplan also identified actions associated with ensuring continued emergency preparedness:

- Adopt subplans on flooding, pandemic, and emergency evacuation.
- Complete a revised Hazard Identification and Risk Assessment.

**Engagement Consultation:**

Significant engagement is expected as part of the assignment, including consultation with affected property owners and agency partners.

**Financial Implications:**

Total costs after HST rebate are \$68,972.93 with the grant covering 50%. The Township's portion will be funded in the 2022 budget as the work will be completed in Q1 2022.

**Next Steps:**

Staff will proceed with award of the RFP and execute a professional services agreement. A draft report is expected by December 2021, with a presentation to Council in January 2022 and a final report by end of February 2022.

**Attachments:**

Map

Prepared by:	Robert Tremblay, Chief Administrative Officer
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Reviewed by:	Lane Cleroux, Manager of Public Works
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Reviewed by:	Ivan Burton, Manager of Community Development
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Reviewed by:	Sean Crozier, Treasurer/Deputy CAO
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Approved by:	Robert Tremblay, Chief Administrative Officer
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# Township of Whitewater Region Flood Risk Assessment Project Area

