

Attachment 4 to Item 10.3.4.

Macdonald River, Colo River, Webbs Creek and Greens Creek Flood Study Report and Macdonald River, Colo River, Webbs Creek and Greens Creek Flood Risk Management Study and Plan – Maps

Date of meeting: 29 July 2025 Location: Council Chambers

Time: 6:30pm

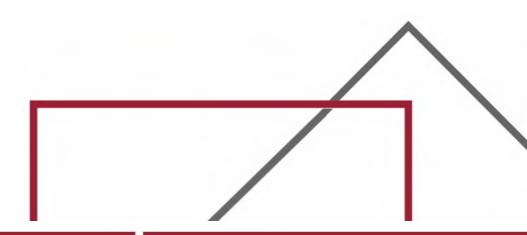






Macdonald River, Colo River, Webbs Creek & Greens Creek Flood Study and Floodplain Risk Management Study and Plan

Map Compendium







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Document Control

Rev	Effective Date	Description of Revision	Prepared by:	Reviewed by:
0	March 2024	Phase 1 draft, issue to Council	DR / OG / JV	RST / DT
01	December 2024	Draft Flood study and FRMSP Mapping	DR / OG / JV	RST
02	February 2025	Draft for Public Exhibition	OG	

Prepared For: Hawkesbury City Council

Project Name: Macdonald River, Colo River, Webbs Creek & Greens Creek Flood Study

Rhelm Reference: J1382

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The report has been prepared and reviewed by suitably qualified persons. The scope of the report is based on the client brief and/or the Rhelm written fee proposal and assumes information provided by the client and sourced from other third parties is fit for purpose unless otherwise stated. The findings rely on a range of assumptions that are noted in the report.





Maps

RG-00-310

PMF Hazard

Map Number	Description	Map Number	Description
RG-00-001-1	Calibration July 2022 Colo River	RG-00-401	Flood Function - 1% AEP
RG-00-001-2	Calibration July 2022 MacDonald River	RG-00-402	Flood Function - 1 in 200 AEP (0.5% chance per year)
RG-00-002-1	Calibration March 2022 Colo River	RG-00-403	Flood Function - 1 in 500 AEP (0.2% chance per year)
RG-00-002-2	Calibration March 2022 MacDonald River	RG-00-404	Flood Function - PMF
RG-00-003-1	Calibration February 2020 Colo River		
RG-00-003-2	Calibration February 2020 MacDonald River	RG-00-501	Sensitivity - High Blockage -20% AEP
RG-00-004-1	Calibration March 1978 Colo River	RG-00-502	Sensitivity - High Blockage 1% AEP
RG-00-004-2	Calibration March 1978 MacDonald River	RG-00-503	Sensitivity - Low Blockage 20% AEP
		RG-00-504	Sensitivity - Low Blockage 1% AEP
RG-00-101	20% AEP Peak Depth and Level	RG-00-505	Sensitivity - High Roughness -20% AEP
RG-00-102	10% AEP Peak Depth and Level	RG-00-506	Sensitivity - High Roughness 1% AEP
RG-00-103	5% AEP Peak Depth and Level	RG-00-507	Sensitivity - Low Roughness 20% AEP
RG-00-104	2% AEP Peak Depth and Level	RG-00-508	Sensitivity - Low Roughness 1% AEP
RG-00-105	1% AEP Peak Depth and Level		
RG-00-106	1 in 200 AEP (0.5% chance per year) Peak Depth and Level	RG-00-601	Climate Change 2050 SSP3 – 1% AEP
RG-00-107	1 in 500 AEP (0.2% chance per year) Peak Depth and Level	RG-00-602	Climate Change 2100 SSP3 – 1% AEP
RG-00-108	1 in 1000 AEP (0.1% chance per year) Peak Depth and Level		
RG-00-109	1 in 2000 AEP (0.05% chance per year) Peak Depth and Level	RG-00-701	Building Inundation - First Flooded Above Floor
RG-00-110	PMF Peak Depth and Level	RG-00-702	Road Crossings
		RG-00-703	Infrastructure and Facilities
RG-00-201	20% AEP Peak Velocity		
RG-00-202	10% AEP Peak Velocity	RG-00-801	Land Zoning
RG-00-203	5% AEP Peak Velocity	RG-00-802	Flood Planning Area
RG-00-204	2% AEP Peak Velocity	RG-00-803	Flood Planning Constraint Categories
RG-00-205	1% AEP Peak Velocity		
RG-00-206	1 in 200 AEP (0.5% chance per year) Velocity	RG-00-901	Emergency Management Classifications
RG-00-207	1 in 500 AEP (0.2% chance per year) Velocity		
RG-00-208	1 in 1000 AEP (0.1% chance per year) Velocity		
RG-00-209	1 in 2000 AEP (0.05% chance per year) Velocity		
RG-00-210	PMF Peak Velocity		
RG-00-301	20% AEP Peak Hazard		
RG-00-302	10% AEP Peak Hazard		
RG-00-303	5% AEP Peak Hazard		
RG-00-304	2% AEP Peak Hazard		
RG-00-305	1% AEP Peak Hazard		
RG-00-306	1 in 200 AEP (0.5% chance per year) Hazard		
RG-00-307	1 in 500 AEP (0.2% chance per year) Hazard		
RG-00-308	1 in 1000 AEP (0.1% chance per year) Hazard		
RG-00-309	1 in 2000 AEP (0.05% chance per year) Hazard		
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