

## MINISTRY OF FORESTS, LANDS, NATURAL RESOURCE OPERATIONS AND RURAL DEVELOPMENT POST-WILDFIRE RISK ANALYSIS – RECONNAISSANCE REPORT

NOTE: The results given on this form are preliminary in nature and are intended to be a warning of potential hazards and risks. It is not a final risk analysis and further work may alter the conclusions. Please contact the author for more information.

FIRE: Michaud Creek (N51765)	FIRE YEAR:	FIRE YEAR: 2021 DATE OF RE		ORT: Nove	ember 3, 2021	
AUTHOR: Sarah Crookshanks						
REPORT PREPARED FOR: District Manager, Southeast Fire Centre						
FIRE SIZE, LOCATION, AND LAND STATUS: 14032 ha. West shore of Arrow Lakes north of Renata. Mostly Crown						
land, with some parcels of private land scattered throughout.						
VALUES AT RISK: Bowman Point Recreation Site		akes (Do	og, Renata and l	Bowman Cre	eeks) and	
dwellings (at Bowman Point, Renata and Cinnamon Lake)						
WATERSHEDS AFFECTED:	TOTAL AREA	AREA BURNED <sup>1</sup>		BURN SEVERITY <sup>2</sup>		
				% High	% Moderate	
Cinnamon Creek	2745 ha		5 ha (49%)	5	27	
Michaud Creek	1436 ha		4 ha (61%)	6	35	
Bowman Creek	6059 ha		'4 ha (23%)	1	9	
Renata Creek	8613 ha		6 ha (28%)	3	13	
Dog Creek	19705 ha	59	8 ha (3%)	0	1	
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1 (% of watershed area)				<sup>2</sup> % of watershed area		
SUMMARY OF HAZARDS AND RISKS:				HAZARD	1 RISK <sup>2</sup>	
Hazards: The most significant hazards are flooding and water quality impacts.						
Risks:  1. Flooding on Renata Creek impacting dwellings				VL		
Plooding on Renata Creek impacting dwellings     Flooding on Dog Creek impacting dwellings				VL VL	L	
Flooding on Boyman Creek impacting dwellings or recreation site				_	L	
4. Water quality impacts to domestic water users on Dog, Renata and Bowman Creeks				L	M	
4. Water quality impacts to domestic water users on Dog, Keriata and Downlan Creeks				L	IVI	
1. Hazard = P(H), the probability of occurrence of a hazardous event						
2. $Risk = Partial \ risk \ P(HA) = P(H) \times the \ probability \ of it reaching or affecting an element at risk$						
FURTHER ACTIONS:						
None recommended.						
POTENTIAL MITIGATION:						
None recommended.						
SIGNATURE:	ATTACH	ATTACHMENTS:				
Original signed and sealed	See atta	See attached report, map and photos for further details.				
Southern Interior Forest Region, preliminary report form version	1 1 2010	·			·	

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## Michaud Creek Fire (N51765) 2021 – further details on the Post-Wildfire Risk Analysis

The Michaud Creek fire began on July 10, 2021 and burned a large area on the west shore of Arrow Lake north of Renata. Most of the fire was on Crown land, with a handful of parcels of private land. An aerial overview was completed for this fire on October 1. No field work was undertaken, because the post fire natural hazard risks were deemed to be low.

Burn severity mapping was produced for this fire in late September by regional geomatics staff. Provincially contracted burn severity mapping was released in early November and it appears to align more closely with the vegetation burn severity captured in the aerial photos. Therefore, the provincial burn severity data were used in this analysis.

As the attached map shows, the fire is primarily composed of low and moderate burn severity. The impacts on Renata Creek, Dog Creek and Bowman Creek will be minimal due to the low proportion of the watershed with moderate or high burn severity. A larger proportion of the Cinnamon Creek and Michaud Creek watersheds burned; however, there are no elements in these watersheds that are at risk due to postfire geohazard events.

Sarah Crookshanks, P.Geo. November 3, 2021

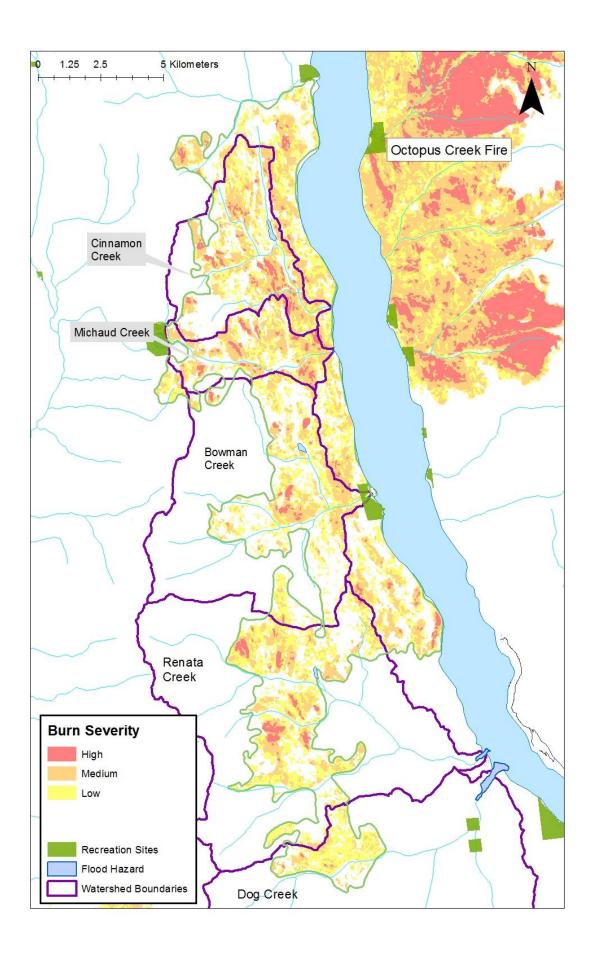




Photo 1. North branch of Renata Creek (view from the South)



Photo 2. Bowman Creek