




City of Richmond

Report to Committee

To: Public Works and Transportation Committee **Date:** November 8, 2017
From: John Irving, P.Eng. MPA **File:** 10-6060-05-01/2017-Vol 01
 Director, Engineering
Re: 2017 Union of BC Municipalities Community Emergency Preparedness Fund

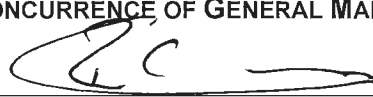

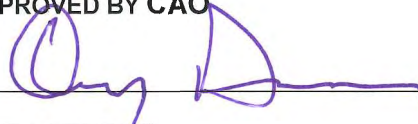
Staff Recommendation

1. That the Dike Master Plan Phase 5 submission to the 2017 Union of BC Municipalities (UBCM) Community Emergency Preparedness Fund be endorsed.
2. That should the Dike Master Plan Phase 5 submission be successful, the Chief Administrative Officer and General Manager, Engineering and Public Works be authorized to negotiate and execute the funding agreements with UBCM.



John Irving, P.Eng. MPA
 Director, Engineering
 (604-276-4140)

Att. 1

REPORT CONCURRENCE	
CONCURRENCE OF GENERAL MANAGER	
	
REVIEWED BY STAFF REPORT / AGENDA REVIEW SUBCOMMITTEE	INITIALS:
	
APPROVED BY CAO	
	

Staff Report

Origin

On March 15, 2017 the Province announced \$80 million in funding for partners to perform emergency preparedness activities in flood protection and prevention. UBCM manages \$20 million to plan and implement structural flood protection projects in British Columbia. The application deadline for funding was on October 27, 2017; staff have submitted an application for funding for the Dike Master Plan Phase 5 project. The application guidelines state that projects must be endorsed by Council to be considered for funding. Staff are requesting Council's endorsement for the Dike Master Plan Phase 5 submission to the UBCM Community Emergency Preparedness Fund.

Completion of the Dike Master Plan is identified in the City of Richmond 2008 – 2031 Flood Protection Strategy as a key action in the effort to prevent flooding and minimize the effects of flood damage. Phase 5 of the Dike Master Plan has been included in the 2018 capital program that will be presented to Council for consideration in a subsequent report.

Analysis

The City of Richmond is made up of 3 main islands; Lulu Island is the focus of the first 4 phases of the Dike Master Plan (Attachment 1) and phase 5 will focus on dike improvements for Sea Island and Mitchell Island.

The scope of work for the Dike Master Plan Phase 5 project includes:

1. Develop 3D terrain model of existing dikes
2. Geotechnical review of dikes
3. Develop options for upgrading dikes to 4.7m geodetic expandable to 5.5m geodetic
4. Identification of environmental impacts of diking options
5. Stakeholder consultation
6. Recommendation of preferred diking options
7. Finalization of Dike Master Plan Phase 5

The UBCM Community Emergency Preparedness Fund can contribute up to 100% of the project costs to a maximum of \$150,000. The estimated cost to complete the Dike Master Plan Phase 5 is \$200,000. Should the City be successful in winning the UBCM grant, staff recommend that costs beyond the grant allocation be funded from the Drainage and Diking Utility. Staff have included the Dike Master Plan Phase 5 in the 2018 capital program for Council's consideration.

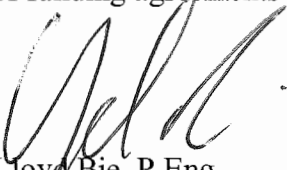
Staff also recommend that authority be given to the Chief Administrative Officer and General Manager, Engineering and Public Works to negotiate and execute funding agreements for this project if approved for funding by UBCM as part of the 2017 Community Emergency Preparedness Fund.

Financial Impact

None.

Conclusion

The Union of BC Municipalities has requested funding applications from local governments for emergency preparedness activities in flood protection and prevention. Staff have submitted an application for funding and recommend that Council endorse the project in accordance with the grant program guidelines. Staff are seeking Council authority for the negotiation and execution of funding agreements should the City's application be successful.

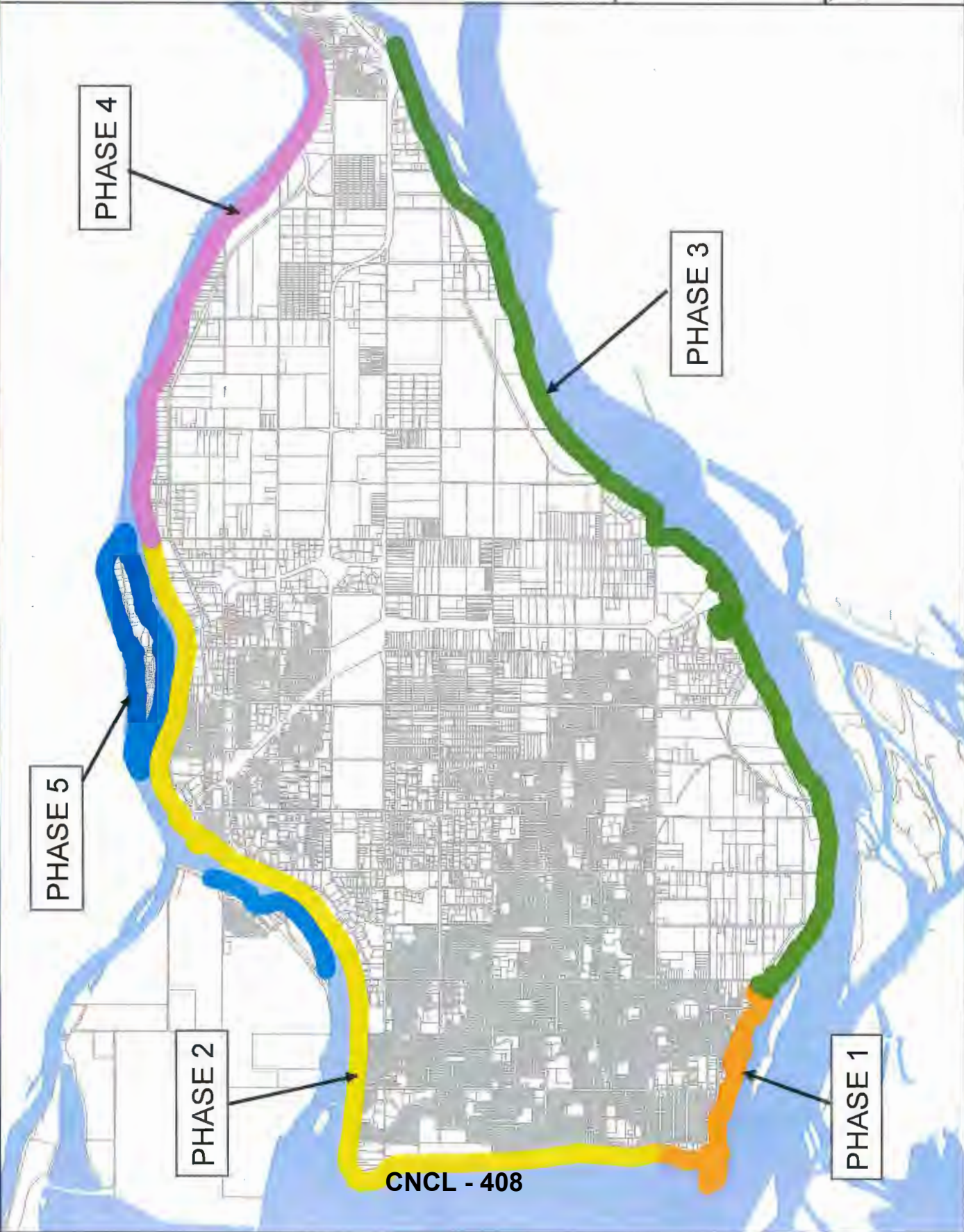


Lloyd Bie, P.Eng.
Manager, Engineering Planning
(604-276-4075)

LB:cc

Att. 1: Dike Master Plan Phases Map

- Legend**
- PHASE 1
 - PHASE 2
 - PHASE 3
 - PHASE 4
 - PHASE 5



PHASE 5

PHASE 4

PHASE 2

PHASE 3

PHASE 1

CNCL - 408

Note:
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