



VERMONT DEPARTMENT OF ENVIRONMENTAL CONSERVATION
WATERSHED MANAGEMENT DIVISION
LAKES & PONDS PROGRAM

MEMORANDUM

To: House Corrections and Institutions Committee

From: Perry Thomas, Manager, Lakes and Ponds Program, Dep't of Environmental Conservation

Re: Allocation of Lake Carmi Crisis Funding

Date: January 10, 2019 (updated February 14, 2019)

The Legislature created the Lake in Crisis Fund during the 2018 session and, by statute, Lake Carmi has been designated a "lake in crisis." Lake Carmi clean water projects are therefore eligible for funding through both the Lake in Crisis Fund and existing grant programs. To support targeted funding for clean water efforts in Lake Carmi in SFY2019 and SFY2020, the Department of Environmental Conservation has proposed the following funding:

	FY19	FY20
Capital Bill		
Lake Carmi Aerator	\$ 1,600,000	
Lakes in Crisis Fund	\$ -	\$ 50,000
Clean Water Fund		
Lakes in Crisis Fund	\$ 50,000	\$ 50,000

With stakeholders, DEC developed a Lake Carmi "Crisis Response Plan" to describe projects that are needed to support clean up of Lake Carmi. DEC proposes to use invest in the following projects:

- Clean Water Funds (SFY20, \$50,000): pre- and post-aeration monitoring, tributary monitoring, phase I and phase II groundwater studies, and independently ground-truthed land-use/land-cover maps.
- Capital Appropriation (SFY20, \$50,000): optimization of the Lake Carmi Aeration System.

In consultation with the Lake Carmi Implementation Team, DEC is in the process of developing a detailed budget for these needs. Estimates are provided below. Page numbers refer to the *Crisis Response Plan*, available at:

https://dec.vermont.gov/sites/dec/files/wsm/lakes/docs/2018_08_22_Lake_Carmi_Crisis_Response_Plan_2.0.pdf

Lake in Crisis Fund Allocations	FY19 (\$K)	FY20 (\$K)	Explanation (page numbers refer to the Crisis Response Plan)
Capital:			
Aeration Project Installation	1,600		Includes final design, engineering, and installation (page 14)
Optimization of Aeration		50	Additional engineering to optimize design (page 14)
Total	1,600	50	
Clean Water Fund (non-capital):			
Lake Monitoring	15	25	Intensive monitoring pre-and post-aeration with sediment cores (page 14)
Tributary Monitoring	7	12	Bracketed monitoring above and below BMPs, pre/post installation
P Loading from Groundwater	13	13	Phase I and Phase II Groundwater Studies of Phosphorus Loading (pages 9 - 10)
Land Use/Land Cover	15		Resolution of discrepancies across maps produced using different datasets (page 9)
Total	50	50	