SUPPORTING INFORMATION ASSOCIATED WITH THE ALLOCATION PRIORITIES FOR CLEAN WATER FUND BOARD

	Table 2: State Agency Recommendations – Agency of Agriculture, Food and Markets						
#	Sector	Agency	Funding Program	Supporting Information			
1	Agriculture	AAFM	On-Farm Implementation (Grants & Contracts); Supports: Capital projects, farm agronomic practices	Approx. 95% of the respondents to the August clean water questionnaire cited agriculture, the largest phosphorus source in the Lake Champlain Basin (LCB), as a priority for investment. Additionally, the recently completed survey of farms in the northern Lake Champlain Basin (referred to as the Northern Lake Survey) show a substantial need for infrastructure improvement on small farms, which will be required as part of the farms' certificate of compliance with state regulations. The funds will: (a) provide match to the recently received USDA funds, such as the USDA RCPP, to address implementation needs in critical areas, as required under the Lake Champlain TMDL; (b) target the current funding gap for agronomic practices; (c) address critical small farm infrastructure needs; and (d) support conservation practice implementation for major water quality resource concerns outside the LCB which currently is not supported by USDA. Funding priority projects outside the LCB is necessary because there is not sufficient USDA funding to address these			
2	Agriculture	AAFM	Grants & Contracts; Supports: Incentives, technological solutions, applied research farm, alternative strategies, farm acquisition	needs. Last year, USDA provided financial assistance for farmstead practices on only two 2 farms outside the LCB. This allocation will support a suite of agricultural sector-based programs (described under "Activities") that are not supported by existing state and federal funding. The allocation will support the development of projects that focus on non-traditional reduction strategies that could lead to new and innovative implementation policies. For example, areas where livestock agricultural densities are increasing are also the areas where water quality impacts can be significant, signifying the importance of developing strategies to that influence the import and export of nutrients If these types of alternative solutions are not implemented, it is unlikely that overall water quality goals will be met, despite substantial financial support for conservation practices.			

	Table 2: State Agency Recommendations – Agency of Agriculture, Food and Markets							
#	Sector	Agency	Funding Program	Supporting Information				
3	Agriculture	AAFM	Operating; Supports: Staff capacity to support regulatory requirements	Act 64 directed the Board to provide this allocation to support Agency of Agriculture's s	taff capacity need:	S.		
SUB	ΓΟΤΑL (FY16, F	(Y17) = \$2	,650,000		\$675,000	\$1,975,000		

	Table 2: State Agency Recommendations – Agency of Natural Resources						
#	Sector	Agency	Funding Program	Supporting Information			
4	All Sectors	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: Technical & educational assistance	Minimizing precipitation-driven polluted runoff & erosion fundamentally means changin requires education & technical assistance. Municipalities managing stormwater runoff corparking lots, farmers, loggers, and other businesses and landowners need opportunities with polluted runoff and understand how they can take action to address the problems. awareness that these same actions can achieve other benefits, such as improved flood recommendation will enable the State to recruit support from partners across the State educational assistance to targeted audiences on a range of water quality and flood resilied. Although the delivery of technical and educational support would largely begin in FY201 includes funds in FY2016 to target the development of agricultural land treatment plans critical for improving water quality by influencing the implementation of practices at bot fields. LTPs are part of the USDA Natural Resources Conservation Service (NRCS) 590 Stamanagement planning. LTPs are required for any farm that receives federal funding for volume to the total proving the planning proving to implement improvements. Developing LTPs takes substantial time and resources. This allocation supplanners, to be under contract with the Vermont Department of Environmental Conservations.	oming off of road to learn about th Education will he esilience. This who can deliver tency-related topi 7, the recommen (LTP); this investing are manageme requirement for the production are to be percentage of the production are to the percentage of the production are to the percentage of the percentage of the poorts 3-4 land tr	ming off of roads and of learn about the problems ducation will help raise silience. This who can deliver technical and ney-related topics. The recommendation areas and farm dard for nutrient este management systems. The equirement for certified percentage of the smalling infrastructure	
5	All Sectors	ANR	Ecosystem Restoration Program, Grants & Contracts Supports: LaRosa Analytical Services Partnership	The LaRosa Analytical Services Partnership Program offers financial support to locally-ba for analytical services from the VDEC laboratory to facilitate volunteer water quality test the effectiveness of project implementation. Partners participating in the program comproject planning to ensure that resulting data are of use to the Department of Environment structured process in place for project development, volunteer training, sample submiss assurance, and reporting to the Department. LaRosa partnerships have been awarded in State. Data have been used to identify possible discharges, characterize impaired waters	nalytical Services Partnership Program offers financial support to locally-based watershed organizations services from the VDEC laboratory to facilitate volunteer water quality testing projects and help track ness of project implementation. Partners participating in the program commit to quality assurance ing to ensure that resulting data are of use to the Department of Environmental Conservation. There is a ocess in place for project development, volunteer training, sample submission, scheduling, data quality and reporting to the Department. LaRosa partnerships have been awarded in most watersheds across the lave been used to identify possible discharges, characterize impaired waters, find water quality violations, renewal of discharge permits, track improvements and support a variety of water quality initiatives.		
SUB	Analytical assist in the renewal of discharge permits, track improvements and support a variety of Services					\$1,08	

	Table 2: State Agency Recommendations – Agency of Natural Resources					
#	Sector	Agency	Funding Program	Supporting Information		
6	Agriculture	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: Three existing partner agronomists	Over the last few years, the Lake Champlain Basin Program (LCBP) has provided the initial seed funding to support a highly successful agricultural technical assistance program called the Agronomy & Conservation Assistance Program (ACAP), housed at partner organizations (the University of Vermont Extension and the Poultney-Mettowee Natural Resources Conservation District). The program uses three agronomists – agricultural water quality advisors — in the Lake Champlain Basin to help farms reduce soil and nutrient loss and improve water quality. Each agronomist works with approximately 30-50 farmers annually. In the first two years, this program already resulted in technical assistance to 178 farms, 36,000 linear feet of livestock fencing installed, 1,672 acres planted with a no-till grain drill, and 2,860 acres planted in cover crops.		
				The LCBP initially supported the program with the understanding that the State would eventually assume program oversight. The likelihood of continuing to fund the program through the LCBP into the future is now uncertain. This allocation will enable the State to assume the management of the program.		
7	Municipal Stormwater	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: Municipal	Stormwater runoff that degrades surface and groundwater comes from impervious surfaces and all land clearing and land use conversion activities (such as open-land conversion to developed areas). This allocation supports the development of 10-20 municipal-based comprehensive stormwater management plans that identify, prioritize and target stormwater mitigation practices. We will identify the municipalities using the "Tactical Basin Planning" process (the state-sponsored process that involves the development of plans that assess water quality throughout a watershed and identify and prioritize actions to improve water quality).		
			stormwater project identification & prioritization	Historically almost all municipalities have responded to stormwater runoff or drainage problems when they arise, which is often during an emergency or after a structural failure has occurred. Stormwater management planning supports the management of stormwater runoff before-structural failures occur or before the waters become impaired. This approach saves money, since prevention is cheaper than restoration. This methodology engages the public in project planning, which helps to build participation and buy-in at the local level. This methodology stresses the importance of preserving natural features and functions of a watershed in order to enhance resilience to future flooding. It also allows for the consideration of alternative stormwater management approaches to traditional pipe (gray) infrastructure, such as more efficient and economic low impact (green) infrastructure. The outcome of the planning effort is a list of priority projects and actions, offering a community "road-map" to achieve and protect water quality.		

	Table 2: State Agency Recommendations – Agency of Natural Resources					
#	Sector	Agency	Funding Program	Supporting Information		
8	Municipal Stormwater	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: Municipal Stormwater projects	On an acre-for-acre basis, developed land areas generate a disproportionate amount of the nutrient and sediment loading to the state's waters. Developed land involves the construction of buildings, roads, and parking areas. These are impervious surfaces that reduce infiltration of precipitation and speed the delivery of runoff into surface waters. VDEC has identified numerous projects for implementation through the "Tactical Basin Planning" process. This allocation represents a number of priority stormwater mitigation projects already identified, designed and ready for implementation.		
9	Municipal Stormwater	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: Municipal Capital Equipment Assistance	This allocation will support a modest pilot incentive program to help strengthen municipalities' capacity in stormwater management by making available financial assistance for the acquisition of capital equipment. Examples of equipment include high efficiency street sweepers and catch basin cleaning technologies. These technologies help keep sand, grit, dirt, leaves, fertilizers and other materials out of storm sewer systems and ultimately out of receiving waters. Hydroseeding systems are another technology to reduce erosion and sedimentation of nearby waterways. Offering a grant program to support these technologies will facilitate municipal adoption and use of these approaches.		

			Table 2: State	Agency Recommendations – Agency of Natural Resources (continued)	
#	Sector	Agency	Funding Program	Supporting Information		
10	Natural Resources	ANR	Ecosystem Restoration Program, Grants & Contracts; Supports: wetland & floodplain restoration	Widespread and historic stream channelization (such as dredging, berming, straightening resulted in increased erosion and therefore increased sediment and nutrient pollutant locativities and structural controls such as riprap may prevent flooding and erosion at one downstream and contribute to destabilizing the stream system. These activities increase increasing stream bed and bank erosion, property damages and risks to public safety. Managing rivers and floodplains to attain and maintain dynamic equilibrium conditions (least erosive, naturally stable conditions) provides for greater flood resilience and public sediment and nutrient pollution. This allocation meets EPA's expectations under the TM restoration. It involves working with municipalities and landowners to restore floodplain and riparian areas. This allocation will also focus on river and wetland easement projects resilient to future flooding and limit future increases in phosphorus loading. Healthy forests translate into functional ecosystems that bind phosphorus and water, profits allocation will focus on: (a) management practices to prevent erosion, particularly a skid trails and truck roads; (b) prioritized areas for riparian forest buffer restoration and development as a "green stormwater infrastructure" strategy; and (c) trainings on composition of the province of the	i.e., the vertically safety while reduced by the conduct act so river corridors, at that help municing eventing addition t stream crossing municipal urban for the stream crossing municipal urban for site, and the site site site site site site site sit	e erosion ods thereby estable and ucing vive wetlands palities be and along forest
11	Wastewater Treatment	ANR	FED State Revolving Fund Loan Program Supports: Municipal Wastewater Treatment	Additional nutrient removal treatment at municipal wastewater facilities will be required state. This allocation, albeit small compared to the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide financial need, will help lever funds to provide municipal assistance in complying with nutrient-based TMDLs, such as in the statewide funds to provide municipal assistance in the statewide financial need, with the statewide financial need, with the statewide funds to provide municipal assistance in the statewide financial need, with the statewide financial need, with the statewide funds to provide municipal assistance in the statewide funds to provide municipal need for the statewide funds to provide municipal need for the statewide funds to provide municipal need	verage additional	federal
SUB	TOTAL (FY16,	FY17) = \$	4,670,000		\$800,000	\$3,870,000

#	Sector	Agency	Funding	Supporting Information		
			Program			
12	Technical	ACCD	Vermont Center	his allocation provides some of the state match to a federal grant that will enable Vermont to acquire LiDAR mapping		
	Support		for Geographic	for a large portion of the Connecticut River Basin, specifically Windsor, Caledonia and Orange counties. LiDAR (Light		
			Information	Detection and Ranging) is a mapping technology that offers high resolution geographic information used to identify		
				priority sources of polluted runoff across all sectors, from roads and abandoned logging roads to stormwater runoff		
			Supports:	sites. LiDAR serves other important public uses, such as floodplain and river corridor map	oping for flood re	siliency
			LiDAR Mapping	planning, emergency management mapping needs (such as dam failure and ice jam analyses, landslide prone areas		
	and evacuation planning), transportation planning including bridge scour assessments and land use planning.					
SUBTOTAL (FY16, FY17) = \$430,000 \$430,000						

#	Sector	Agency	Funding Program	Supporting Information			
13	Municipal Roads	VTrans	Municipal Mitigation Grant Program;	This allocation supports municipal gravel road stormwater mitigation projects through the VTrans Municipal Mitigation Grant Program. The grants will help municipalities comply with the state road general permit, currer under development by DEC, and required as part of Act 64.			
			Supports: Gravel road projects	Unpaved roads are one of highest per-acre sources of phosphorus. The "best management practices" (BMPs) us address unpaved roads are among the most cost-effective actions to reduce phosphorus. BMP implementation also enhance municipalities' resilience to flood damages and will help reduce long-term maintenance costs. The Municipal Mitigation Grant Program will establish scoring criteria that prioritize funding for those projects that I maximum water quality, resilience and cost saving benefits.			
14	Municipal Roads	VTrans	Municipal Mitigation Grant Program;	This allocation supports municipal paved road-related stormwater mitigation projects thr Mitigation Grant Program. The grants will help municipalities comply with the state road under development by DEC, and required as part of Act 64.	_	•	
			Supports: Paved road projects	The State has identified a number of roadway stormwater and culvert improvements through the Ta Planning process (the state-sponsored watershed assessment process). The Municipal Mitigation G establish scoring criteria that place an emphasis on meeting the roadway stormwater and culvert impriorities of the Tactical Basin Planning process. Grant criteria will account for factors such as water transport blockage, vulnerability to failure, aquatic habitat restoration potential, and readiness for i			

Table 2: State Agency Recommendations by Sector			
Agency Summary	State	State	Total
	FY16	FY17	
Agriculture	\$675,000	\$2,460,000	\$3,135,000
Municipal (roads, stormwater)	\$800,000	\$3,200,000	\$4,000,000
Municipal Wastewater		\$500,000	\$500,000
Natural Resources		\$1,150,000	\$1,150,000
All Sectors – LiDAR Mapping	\$430,000	1	\$430,000
All Sectors – Partner Support	\$100,000	\$1,085,000	\$1,185,000
TOTAL	\$2,005,000	\$8,325,000	\$10,400,000

Table 2: State Agency Recommendations by Administering Agency							
Agency Summary	State	State	Total				
	FY16	FY17					
Agency of Agriculture	\$675,000	\$1,975,000	\$2,650,000				
Agency of Natural Resources	\$900,000	\$4,955,000	\$5,855,000				
Agency of Commerce and Community Development	\$430,000		\$430,000				
Agency of Transportation		\$1,465,000	\$1,465,000				
TOTAL	\$2,005,000	\$8,325,000	\$10,400,000				