

Project List

Project Page #	Project Name	Mgmt. Unit	Priority	Priority Justification							Opinion of Probable Cost			Pot. Funding sources	Volunteer Opp.?	Project Duration		
				Low Cost/High Value	Urgency/Imminent Threat?	Ecological Benefit	Safety	Visitor/Aesthetic Value	Funding Opportunities	Significance to campus community	Design	Construction/Implementation	Yearly Maintenance (avg 5 Yrs)			Design	Construction/Implementation	Maintenance
VEGETATION MANAGEMENT																		
20	Crum Meadow Floodplain Restoration	5	1	H	L	H	L	H	M	H	\$15,000	\$50,000	\$5,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	5 yr.
25	English Ivy Removal - Historic Tree Protection	3-6	1	H	H	H	M	H	M	H	n/a	\$15,000	\$2,500	C2P2, DCED, NFWF	Yes	n/a	2 mo.	10 yr.
26	English Ivy Removal - Leading Edges	3-6	1	M	H	H	L	H	M	M	n/a	\$15,000	\$4,500	C2P2, DCED, NFWF	Yes	2 wk	4 mo.	10 yr.
28	English Ivy Removal - Interior Patches	3-6	3	L	H	M	L	M	M	M	n/a	\$15,000	\$4,500	C2P2, DCED, NFWF	Yes	2 wk	4 mo.	10 yr.
29	Restoration of the Sewer Right-of-way (by MU)	1 & 3	1	M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 mo.	2 mo.	5 yr.
		2 & 6		M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500			2 mo.	2 mo.	5 yr.
		5		M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500			2 mo.	2 mo.	5 yr.
32	Maintenance of SEPTA Right-of-way	All	1	H	H	H	L	H	H	H	n/a	n/a	\$6,500	SEPTA, C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	n/a	n/a	5 yr.
35	Deer Fencing in Southern Red Oak Woods	6	1	L	H	H	L	H	M	H	\$500	\$30,000	\$2,000	C2P2, DCED, PENNVEST, PFBC, NFWF, SFI, PSRF	No	2 mo.	1 mo.	10 yr.
37	Godfrey Meadow at Rogers Lane	3	2	H	L	H	L	H	M	L	\$6,000	\$35,000	\$1,500	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 mo.	1 yr	5 yr.
39	Clark House Ecological Enhancements	3	2	L	M	H	M	H	M	M	\$8,500	\$175,000	\$6,000	C2P2, DCED, PENNVEST, PFBC, NFWF, SFI, PSRF	Yes	4 mo.	1 yr	10 yr.
42	Castanea House Meadow Buffer - Edge Softening	3	2	H	M	H	L	H	M	M	\$1,200	\$8,000	\$750	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 wk	1 wk	5 yr.
44	Management Unit 3 - Invasive Woody Removal	3	2	M	H	H	L	M	M	H	\$0	\$15,000	\$1,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.
46	Management Unit 3 - Planting and Seeding	3	2	M	H	H	L	H	M	M	\$0	\$13,000	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.
47	Management Unit 4 - Invasive Woody Removal	4	2	M	H	H	L	M	M	H	\$0	\$27,000	\$1,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.
49	Management Unit 4 - Planting and Seeding	4	2	M	H	H	L	H	M	M	\$0	\$23,000	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.
50	Management Unit 5 - Invasive Woody Removal	5	2	M	H	H	L	M	M	H	\$0	\$35,000	\$1,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.
52	Management Unit 5 - Planting and Seeding	5	2	M	H	H	L	H	M	M	\$0	\$30,000	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.
53	Crum Creek Corridor - Invasive removal	1 & 2	2	M	H	H	L	M	M	H	\$500	\$11,800	\$2,500	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.
55	Crum Creek Corridor - Planting and seeding	1 & 2	2	M	H	H	L	H	M	M	\$5,000	\$70,000	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.
56	Skunk Cabbage Hollow - Invasive removal	5	2	M	H	H	L	M	M	H	\$500	\$7,500	\$1,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.
58	Skunk Cabbage Hollow - Planting and seeding	5	2	M	H	H	L	H	M	M	\$1,500	\$75,000	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.
59	Oxbow Swamp - Invasive removal	1	2	M	H	H	L	M	M	H	\$0	\$2,500	\$500	SEPTA, C2P2, DCED, NFWF	No	2 wk	6 mo.	10 yr.
61	Oxbow Swamp - Planting and seeding	1	2	M	H	H	L	H	M	M	\$0	\$6,500	\$1,000	C2P2, DCED, PENNVEST, PFBC, NFWF	No	4 mo.	3 mo.	10 yr.
WATER RESOURCES																		
63	Lang Ditch Restoration	4	1	L	H	H	H	H	M	H	\$40,000	\$260,000	\$1,000	Capital Budget Set-aside (already funded)	No	6 mo.	2 wk	5 yr.
66	Crum Ledge Ditch Restoration	5	2	L	H	H	M	H	M	M	\$35,000	\$165,000	\$2,500	C2P2, DCNR, PENNVEST, NFWF	No	6 mo.	1 mo.	5 yr.
68	Harris' Dam Removal Feasibility Study	2	1	H	M	H	L	H	M	H	n/a	\$65,000	n/a	C2P2, DCNR, PENNVEST, PSRF	No	n/a	1 yr	n/a
70	Harris' Dam Removal - Design	2	3	L	L	H	M	H	H	H	\$200,000	\$1,750,000	\$2,500	C2P2, DCNR, PENNVEST, NFWF	No	9 mo.	6 mo.	10 yr.
71	Crum Creek Restoration - Design	1 & 2	2	M	M	H	L	L	L	M	\$60,000	n/a	n/a	C2P2, DCNR, PENNVEST, NFWF	No	9 mo.	n/a	n/a
73	Crum Creek Restoration - Installation	1 & 2	2	L	L	H	M	M	M	M	n/a	\$350,000	\$2,500	C2P2, DCNR, PENNVEST, NFWF	No	n/a	3 mo.	10 yr.
74	Stormwater Treatment at Composting Facility	6	2	L	H	H	L	L	M	L	\$8,000	\$25,000	\$1,500	C2P2, DCED, PENNVEST, NFWF	Yes	6 mo.	1 mo.	5 yr.
RECREATIONAL USE																		
77	Safety at Alligator rock	4	2	M	H	L	H	L	L	H	\$2,000	\$10,000	n/a	C2P2, DCNR, DCED, PENNVEST	No	1 mo.	1 mo.	n/a
79	Improve or Retire Trails	6	3	M	M	M	M	M	L	M	n/a	\$25,000	\$500	C2P2, DCED, PENNVEST	Yes	n/a	6 mo.	10 yr.
81	Educational Signage	All	3	M	L	L	M	H	L	H	\$2,000	\$500 - \$2,000	n/a	C2P2, DCNR, DCED	No	5 mo	1 mo.	n/a
82	More Accessible Trail Loop	5	3	M	L	L	H	L	M	M	\$5,000	\$10,000	n/a	C2P2, DCED, PENNVEST	Yes	2 mo.	1 mo.	n/a
84	Enhance Pedestrian Access Points	4 & 5	4	H	L	L	L	M	M	M	\$5,000	TBD	n/a	C2P2, DCNR, DCED, PENNVEST	Yes	2 mo.	1 mo.	n/a
85	Pedestrian Connections across Creek	1 & 2	4	L	L	L	L	L	L	M	\$25,000 - \$80,000	\$145,000 - \$500,000	n/a	C2P2, DCNR, DCED, PENNVEST	No	6 mo.	1 mo.	n/a
87	Site Furnishings	5	4	L	L	M	L	L	L	M	\$1,500	\$4,000	\$500	C2P2, DCNR, DCED	Yes	1 mo.	1 wk	10 yr.
EDUCATION + RESEARCH																		
90	Castanea House - Agroecology Study Site	6	3	H	L	M	L	M	L	H	\$500	\$4,000	\$1,000	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	No	6 mo.	1 yr	10 yr.
92	Long-Term Water Quality Study Points	1 & 2	3	H	L	H	L	L	L	M	\$500	\$500	\$500	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	2 mo.	2 mo.	10 yr.
93	Study Plots for Faunal Monitoring		3	H	M	H	L	L	L	M	\$250	\$7,500 avg per taxa	n/a	C2P2, DCNR, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	2 mo.	1 yr	10 yr.
94	Conduct <i>Ficaria</i> Removal Research	3	3	H	L	H	L	M	L	L	\$1,500	\$1,500	\$500	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	n/a	1 yr	10 yr.
95	Mill Pond Bypass Study	6	4	M	L	H	L	L	L	L	\$0	\$3,000	\$0	C2P2, PFBC, NUCFAC, NOAA, SFI, PSRF	No	n/a	4 mo.	n/a
97	Crum Woods Carbon Sequestration & Storage Analysis	All	4	M	L	L	L	L	L	M	\$500	\$2,500	\$0	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	6 mo.	10 yr	n/a

Priority 1 Projects

Project Page #	Project Name	Mgmt. Unit	Priority	Priority Justification								Opinion of Probable Cost				Pot. Funding sources	Volunteer Opp.?	Project Duration		
				Low Cost/High Value	Urgency/Imminent Threat?	Ecological Benefit	Safety	Visitor/Aesthetic Value	Funding Opportunities	Significance to campus community	Design	Construction / Implementation	Yearly Maintenance	Maintenance over Project Duration	Design			Construction/Implementation	Maintenance	
20	Crum Meadow Floodplain Restoration	5	1	H	L	H	L	H	M	H	\$15,000	\$50,000	\$5,000	\$25,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	5 yr.	
25	English Ivy Removal - Historic Tree Protection *	6-Mar	1	H	H	H	M	H	M	H	n/a	\$15,000	\$2,500	\$25,000	C2P2, DCED, NFWF	Yes	n/a	2 mo.	10 yr.	
26	English Ivy Removal - Leading Edges *	3-6	1	M	H	H	L	H	M	M	n/a	\$15,000	\$4,500	\$45,000	C2P2, DCED, NFWF	Yes	2 wk	4 mo.	10 yr.	
29	Restoration of the Sewer Right-of-way (by MU)	1 & 3	1	M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500	\$12,500	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 mo.	2 mo.	5 yr.	
		2 & 6		M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500	\$12,500			2 mo.	2 mo.	5 yr.	
		5		M	H	H	L	H	H	M	\$15,000	\$25,000	\$2,500	\$12,500			2 mo.	2 mo.	5 yr.	
32	Maintenance of SEPTA Right-of-way	All	1	H	H	H	L	H	H	H	n/a	n/a	\$6,500	\$32,500	SEPTA, C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	n/a	n/a	5 yr.	
35	Deer Fencing in Southern Red Oak Woods	6	1	L	H	H	L	H	M	H	\$500	\$30,000	\$2,000	\$20,000	C2P2, DCED, PENNVEST, PFBC, NFWF, SFI, PSRF	No	2 mo.	1 mo.	10 yr.	
63	Lang Ditch Restoration	4	1	L	H	H	H	H	M	H	\$40,000	\$260,000	\$1,000	\$5,000	Capital Budget Set-aside (already funded)	No	6 mo.	2 wk	5 yr.	
68	Harris' Dam Removal Feasibility Study	2	1	H	M	H	L	H	M	H	n/a	\$65,000	n/a	n/a	C2P2, DCNR, PENNVEST, PSRF	No	n/a	1 yr	n/a	
SUBTOTAL COSTS											\$100,500	\$510,000	\$29,000	\$190,000						
TOTAL PRIORITY 1 COSTS											\$800,500									
Cost Escalation - 2% annually											3 years				\$848,530	* Project could be escalated more than 2% per year				
											6 years				\$896,560					
											9 years				\$944,590					

Priority 2 Projects

Project Page #	Project Name	Mgmt. Unit	Priority	Priority Justification								Opinion of Probable Cost				Pot. Funding sources	Volunteer Opp.?	Project Duration		
				Low Cost/High Value	Urgency/Imminent Threat?	Ecological Benefit	Safety	Visitor/Aesthetic Value	Funding Opportunities	Significance to campus community	Design	Construction / Implementation	Yearly Maintenance	Maintenance over Project Duration	Design			Construction/Implementation	Maintenance	
37	Godfrey Meadow at Rogers Lane	3	2	H	L	H	L	H	M	L	\$6,000	\$35,000	\$1,500	\$7,500	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 mo.	1 yr	5 yr.	
39	Clark House Ecological Enhancements	3	2	L	M	H	M	H	M	M	\$8,500	\$175,000	\$6,000	\$60,000	C2P2, DCED, PENNVEST, PFBC, NFWF, SFI, PSRF	Yes	4 mo.	1 yr	10 yr.	
42	Castanea House Meadow Buffer - Edge Softening	3	2	H	M	H	L	H	M	M	\$1,200	\$8,000	\$750	\$3,750	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	2 wk	1 wk	5 yr.	
44	Management Unit 3 - Invasive Woody Removal*	3	2	M	H	H	L	M	M	H	\$0	\$15,000	\$1,000	\$10,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.	
46	Management Unit 3 - Planting and Seeding	3	2	M	H	H	L	H	M	M	\$0	\$13,000	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.	
47	Management Unit 4 - Invasive Woody Removal*	4	2	M	H	H	L	M	M	H	\$0	\$27,000	\$1,000	\$10,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.	
49	Management Unit 4 - Planting and Seeding	4	2	M	H	H	L	H	M	M	\$0	\$23,000	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.	
50	Management Unit 5 - Invasive Woody Removal*	5	2	M	H	H	L	M	M	H	\$0	\$35,000	\$1,000	\$10,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.	
52	Management Unit 5 - Planting and Seeding	5	2	M	H	H	L	H	M	M	\$0	\$30,000	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.	
53	Crum Creek Corridor - Invasive removal*	1 & 2	2	M	H	H	L	M	M	H	\$500	\$11,800	\$2,500	\$25,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.	
55	Crum Creek Corridor - Planting and seeding	1 & 2	2	M	H	H	L	H	M	M	\$5,000	\$70,000	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.	
56	Skunk Cabbage Hollow - Invasive removal*	5	2	M	H	H	L	M	M	H	\$500	\$7,500	\$1,000	\$10,000	C2P2, DCED, NFWF	Yes	2 wk	6 mo.	10 yr.	
58	Skunk Cabbage Hollow - Planting and seeding	5	2	M	H	H	L	H	M	M	\$1,500	\$75,000	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	Yes	4 mo.	3 mo.	10 yr.	
59	Oxbow Swamp - Invasive removal*	1	2	M	H	H	L	M	M	H	\$0	\$2,500	\$500	\$5,000	SEPTA, C2P2, DCED, NFWF	No	2 wk	6 mo.	10 yr.	
61	Oxbow Swamp - Planting and seeding	1	2	M	H	H	L	H	M	M	\$0	\$6,500	\$1,000	\$10,000	C2P2, DCED, PENNVEST, PFBC, NFWF	No	4 mo.	3 mo.	10 yr.	
66	Crum Ledge Ditch Restoration	5	2	L	H	H	M	H	M	M	\$35,000	\$165,000	\$2,500	\$12,500	C2P2, DCNR, PENNVEST, NFWF	No	6 mo.	1 mo.	5 yr.	
71	Crum Creek Restoration - Design	1 & 2	2	M	M	H	L	L	L	M	\$60,000	n/a	n/a	n/a	C2P2, DCNR, PENNVEST, NFWF	No	9 mo.	n/a	n/a	
73	Crum Creek Restoration - Installation	1 & 2	2	L	L	H	M	M	M	M	n/a	\$350,000	\$2,500	\$25,000	C2P2, DCNR, PENNVEST, NFWF	No	n/a	3 mo.	10 yr.	
74	Stormwater Treatment at Composting Facility	6	2	L	H	H	L	L	M	L	\$8,000	\$25,000	\$1,500	\$7,500	C2P2, DCED, PENNVEST, NFWF	Yes	6 mo.	1 mo.	5 yr.	
77	Safety at Alligator rock	4	2	M	H	L	H	L	L	H	\$2,000	\$10,000	n/a	n/a	C2P2, DCNR, DCED, PENNVEST	No	1 mo.	1 mo.	n/a	
SUBTOTAL COSTS											\$128,200	\$1,084,300	\$27,750	\$246,250						
TOTAL PRIORITY 2 COSTS											\$1,458,750									
Cost Escalation - 2% annually											3 years				\$1,546,275	* Project could be escalated more than 2% per year				
											6 years				\$1,633,800					
											9 years				\$1,721,325					

Priority 3 Projects

Project Page #	Project Name	Mgmt. Unit	Priority	Priority Justification								Opinion of Probable Cost				Pot. Funding sources	Volunteer Opp.?	Project Duration		
				Low Cost/High Value	Urgency/Imminent Threat?	Ecological Benefit	Safety	Visitor/Aesthetic Value	Funding Opportunities	Significance to campus community	Design	Construction / Implementation	Yearly Maintenance	Maintenance over Project Duration	Design			Construction/Implementation	Maintenance	
28	English Ivy Removal - Interior Patches*	3-6	3	L	H	M	L	M	M	M	n/a	\$15,000	\$4,500	\$45,000	C2P2, DCED, NFWF	Yes	2 wk	4 mo.	10 yr.	
70	Harris' Dam Removal - Design	2	3	L	L	H	M	H	H	H	\$200,000	\$1,750,000	\$2,500	\$25,000	C2P2, DCNR, PENNVEST, NFWF	No	9 mo.	6 mo.	10 yr.	
79	Improve or Retire Trails	6	3	M	M	M	M	M	L	M	n/a	\$25,000	\$500	\$5,000	C2P2, DCED, PENNVEST	Yes	n/a	6 mo.	10 yr.	
81	Educational Signage	All	3	M	L	L	M	H	L	H	\$2,000	\$500 - \$2,000	n/a	n/a	C2P2, DCNR, DCED	No	5 mo	1 mo.	n/a	
82	More Accessible Trail Loop	5	3	M	L	L	H	L	M	M	\$5,000	\$10,000	n/a	n/a	C2P2, DCED, PENNVEST	Yes	2 mo.	1 mo.	n/a	
90	Castanea House - Agroecology Study Site	6	3	H	L	M	L	M	L	H	\$500	\$4,000	\$1,000	\$10,000	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	No	6 mo.	1 yr	10 yr.	
92	Long-Term Water Quality Study Points	1 & 2	3	H	L	H	L	L	L	M	\$500	\$500	\$500	\$5,000	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	2 mo.	2 mo.	10 yr.	
93	Study Plots for Faunal Monitoring		3	H	M	H	L	L	L	M	\$250	\$7,500 avg per taxa	n/a	n/a	C2P2, DCNR, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	2 mo.	1 yr	10 yr.	
94	Conduct <i>Ficaria</i> Removal Research	3	3	H	L	H	L	M	L	L	\$1,500	\$1,500	\$500	\$5,000	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	n/a	1 yr	10 yr.	
SUBTOTAL COSTS											\$209,750	\$1,814,000	\$9,500	\$95,000						
TOTAL PRIORITY 3 COSTS											\$2,118,750									
Cost Escalation - 2% annually											3 years		\$2,245,875		* Project could be escalated more than 2% per year					
											6 years		\$2,373,000							
											9 years		\$2,500,125							

Priority 4 Projects

Project Page #	Project Name	Mgmt. Unit	Priority	Priority Justification								Opinion of Probable Cost				Pot. Funding sources	Volunteer Opp.?	Project Duration		
				Low Cost/High Value	Urgency/Imminent Threat?	Ecological Benefit	Safety	Visitor/Aesthetic Value	Funding Opportunities	Significance to campus community	Design	Construction / Implementation	Yearly Maintenance	Maintenance over Project Duration	Design			Construction/Implementation	Maintenance	
84	Enhance Pedestrian Access Points	4 & 5	4	H	L	L	L	M	M	M	\$5,000	TBD	n/a	n/a	C2P2, DCNR, DCED, PENNVEST	Yes	2 mo.	1 mo.	n/a	
85	Pedestrian Connections across Creek	1 & 2	4	L	L	L	L	L	L	M	\$25,000 - \$80,000	\$145,000 - \$500,000	n/a	n/a	C2P2, DCNR, DCED, PENNVEST	No	6 mo.	1 mo.	n/a	
87	Site Furnishings	5	4	L	L	M	L	L	L	M	\$1,500	\$4,000	\$500	\$5,000	C2P2, DCNR, DCED	Yes	1 mo.	1 wk	10 yr.	
95	Mill Pond Bypass Study	6	4	M	L	H	L	L	L	L	\$0	\$3,000	n/a	n/a	C2P2, PFBC, NUCFAC, NOAA, SFI, PSRF	No	n/a	4 mo.	n/a	
97	Crum Woods Carbon Sequestration & Storage Analysis	All	4	M	L	L	L	L	L	M	\$500	\$2,500	n/a	n/a	C2P2, DCNR, DEP, PFBC, NUCFAC, NOAA, SFI, PSRF	Yes	6 mo.	10 yr	n/a	
SUBTOTAL COSTS											\$32,000	\$154,500	\$500	\$5,000						
TOTAL PRIORITY 4 COSTS											\$191,500									
Cost Escalation - 2% annually											3 years		\$202,990		* Project could be escalated more than 2% per year					
											6 years		\$214,480							
											9 years		\$225,970							

Grant Matrix

POTENTIAL FUNDING SOURCES	PROJECT & ACTION TOPICS																			
	Recreation Planning	Conservation Planning	Feasibility Studies *	Scientific Research Planning**	Trail Building or Re-routing	Signage (wayfinding, interpretive)	Park Amenities (trash receptacles, benches, etc.)	Stream and Riparian Restoration	Stormwater Management (green infrastructure, etc.)	Erosion Control	Invasive Plant Control	Habitat Enhancement or Restoration	Short or Long-term Vegetative Management	Deer Exclusion Fencing	Monitoring	Faunal Surveys	Scientific Research**	Environmental Education	Volunteer Training and Supervision***	
STATE AND FEDERAL																				
C2P2: Community Recreation and Conservation Planning	X	X	X	X	X															
C2P2: Park Rehabilitation and Development Funding					X	X	X	X	X											
C2P2: Motorized and Non-motorized Trail Funding					X	X									X	X	X			X
C2P2: Peer and Circuit Rider Funding	X	X	X	X																
C2P2: Rivers Conservation Grants		X	X																	
C2P2: DCNR Riparian Forest Buffers							X	X												
DCNR: Land & Water Conservation Program (LWCP) (flow-thru Federal)			X	X		X	X	X							X	X	X			X
DCNR: WRCP																				
DCEd: GTRP	X				X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
DEP: Environmental Education Grants																				
PENNVEST: CWSRIF			X		X		X	X	X	X	X	X	X	X	X	X	X	X	X	X
PFBC: SWG Grants				X																
NLUCAFAC (USDA-US Forest Service)				X																
NOAA: SeaGrant Pennsylvania																				
USEPA (variety of grants depending on the year and open programs)					X			X	X	X	X	X	X	X	X	X	X	X	X	X
OTHER NATIONAL AND REGIONAL																				
NFWF: Delaware River Restoration Fund							X	X	X	X	X	X	X	X	X	X	X	X	X	X
NFWF: 5-Star and Urban Waters Restoration							X	X	X	X	X	X	X	X	X	X	X	X	X	X
NFWF: Pulling Together							X	X	X	X	X	X	X	X	X	X	X	X	X	X
SFI Conservation Grants				X																
OSI: Delaware River Watershed Fund (Inquire)																				
President's Sustainability Research Fellowship			X	X																
LOCAL & COMMUNITIES (may require partnering with an eligible applicant)																				
PPL Foundation Grants				X														X	X	X
DCCD mini grants (\$500)																				
DCCD (May be other grant sources they can assist with procuring or procure on Swarthmore's behalf as a partner. Check with personnel for open opportunities)	X	X			X		X	X	X	X	X	X	X	X	X	X	X	X	X	X

ABBREVIATIONS	
DCNR	Department of Conservation and Natural Resources
C2P2	Community Conservation Partnership Program
WRCP	Wild Resource Conservation Program
DCED	Department of Commerce and Economic Development
GTRP	Greenways, Trails and Recreation Program
DEP	Department of Environmental Protection
PENNVEST	Pennsylvania Infrastructure Investment Authority
CWSRLF	Clean Water State Revolving Loan Fund
PFBC	Pennsylvania Fish and Boat Commission
SWG	State Wildlife Grant
NUCFAC	National Urban and Community Forestry Advisory Council (USDA-US Forest Service)
NOAA	National Ocean and Atmospheric Administration
SFI	Sustainable Forestry Initiative
OSI	Open Space Institute
NFWF	National Fish and Wildlife Foundation
PPL	PPL Corporation (PA Power and Light)
DCCD	Delaware County Conservation District
USEPA	United State Environmental Protection Agency
* e.g., dam and culvert removals, severe erosion problems,	
** e.g., eel populations and movement, carbon sequestration, water quality, biodiversity, impacts of Crum on Delaware River	
*** Volunteer labor (e.g., student labor, professional supervision of students) might be eligible as in-kind contributions	