Notice Oracle Octoberry	<u> </u>				r				<u> </u>						nary by Cost Subcategory
Major Cost Category		isting	Y	ear 1	<u> </u>	ear 2	<u> </u>	Year 3		Year 4		Year 5	Y	'ear 10	Description (existing)
Cost Subcategory	-														
Administration			1		1		—		—		r				
General Stormwater Program Administration		2,760	\$	4,140	\$	4,140	\$	4,140	\$	4,140	\$	4,140	\$, -	Periodic review and tracking of tasks & subcontractors
Legal Support Services	N/A				\$	5,000					\$	5,000	\$	5,000	
Inter-Agency Coordination (MA hwy, CRWA, EPA)	\$	1,275	\$	1,913	\$	1,913	\$	1,913	\$	1,913	\$	1,913	\$	1,913	Share information, attend workshops & seminars, utilize CRWA fact she for public education
Inter-Municipal Coordination (adj. Towns)	N/A		\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	N/A
Emergency/Disaster Management Coordination	\$	-	\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	N/A
NPDES NOI and SWMP	N/A		\$	36,040	\$	-	\$	-	\$	16,275			\$	36,040	N/A
NPDES Annual Reporting	\$	3,660	\$	-	\$	7,320	\$	7,320	\$	7,320	\$	7,320	\$	7,320	Completed by DPW Director, input & review by Town staff
NPDES MS4 Public Education Programs	\$	3,000	\$	10,170	\$	10,842	\$	4,860	\$	8,940	\$	10,307	\$	9,024	Distribution of fact sheets for stormwater & water resource and Illicit Discharge, CBTV Posting on Runoff/Re-use/recharge and photos of Illici Discharge.
NPDES MS4 Public Involvement Programs	\$	4,275	\$	9,600	\$	9,600	\$	8,600	\$	8,600	\$	8,600	\$	9,000	Water Resource Comm. (WRC) 2 televised public meetings per yr. & Yo summer water awareness program
NPDES MS4 & SPCC Training	\$	1,591	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	5,000	\$	5,000	SPCC & pollution prevention/good housekeeping for DPW, DPW staff tra on IDDE with written memo and photos
RDA Compliance	N/A		\$	-	\$	-	\$	-	\$	-	\$	4,000	\$	800	N/A
Certified Municipal Phosphorous Program (CMPP)	N/A		\$	-	\$	-	\$	-	\$	-	\$	5,000	\$	1,000	N/A
Grants Program (s319, 604b, CZM)	\$	1,860	\$	-	\$	1,860			\$	1,860			\$	1,860	604b pilot study grant, chapter 90 grant (for exist. Transp. Infrastructure improvements)
Subtotal:	\$	18,421	\$	69,413	\$	48,225	\$	34,383	\$	56,598	\$	53,830	\$	83,646	
Billing and Finance (for a Utility)															
Financial Management	N/A														N/A
Indirect Cost Allocations	N/A		\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	N/A
Billing, Finance and Customer Services	N/A														N/A
Cost and Rate Analysis	N/A														N/A
General Government Support	t N/A														N/A
Subtotal:	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	\$	-	
Regulation/Enforcement															
MS4 Stormwater Permit Administration	\$	-	\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	\$	1,275	1 new permit for construction site 1+ Acre (review by consultant paid for developer)
RDA/CMPP Compliance	N/A		\$	-	\$	-	\$	-	\$	-	\$	10,875	\$	2,175	
Stormwater/Drainage System Inspections	\$	900	\$	900	\$	900	\$	900	\$	900	\$	900	\$	900	DPW inspects Town projects; private projects are inspected at the cost to developer or permittee, town inspector inspects some
Illicit Discharge and Dumping Program	\$	-	\$	-	\$	9,750	\$	9,750	\$	9,750	\$	9,750	\$	9,750	Issues are reported through hotline or BOH, very few (1 pursued in 8yrs)
Erosion/sediment Control Inspections	\$	900	\$	1,800	\$	1,800	\$	1,800	\$	1,800	\$	1,800	\$	1,800	DPW inspects Town projects; private projects are inspected at the cost to developer or permittee, town inspector inspects some

Sustainable Stormwater Funding in the Upper Charles Town of Bellingham, Stormwater Cost of Service

1

	Description (future)
	Periodic review and tracking of tasks & subcontractors (50% workload increase due to enhanced program)
	Legal review of regulatory changes in Years 2, 5, & 10
heets	50% increse to existing efforts
	Meet twice a year to review and coordinate programs
_	Meet twice a year to review and coordinate programs
	Prepare NOI and SWMP in Year 1, assume prepared by consultant, Year 4 incorporate PCP plan into SWMP, prepare NOI and update SWMP in Year 10
	100% increase from existing, completed by program director and reviewed by town staff,
llicit	Workload increase from existing; distribute at least 2 messages to each of 4 audiences (residents, commercial, industrial, construction), measure & report message effectiveness
Youth	2x WRC Public meetings, update website w/ annual report&events,river clean-up day, storm drain stencil, rain barrel workshop or similar presentation
^t training	SWPPP training for Transfer Station, DPW Facility & pollution prevention/good housekeeping and IDDE for all DPW; SPCC training at DPW Facility; all training done by a consultant; programs developed and
	Tracking of regulated entities under the RDA that discharge to the MS4
	Recordkeeping, data tracking and correspondence with regulated entities for updating program progress under "Water Quality"
re	Staff efforts to apply for and administer grants received for stormwater programs; assumes one permit every two years
	Costs are included in Indirect Cost Allocations
	Indirect cost allocations are estimated to be 8% of the total program costs
	Costs are based on approximately @@@@ bills per year
	Costs are included in Indirect Cost Allocations Costs are included in Indirect Cost Allocations
or by	Anticipated administration of 3 permits annually- review by consultant paid for by developer, cost of program coordination
	Inspection of facilities to verify accuracy of information submitted under the CMPP
st to the	25% increase in workload due to various programs
vrs)	Includes identification of IDDE sources- assume 50% of dry-weather sampled outfalls have illicit discharge (24 hits over permit cycle-start YR2), estimate cost to identify source \$1200 per hit. Removal costs are borne by owner of source/discharge, staff time for coordination and enforcement
st to the	50% increase in workload due to additional maintenance and construction work

Engineering and Master Planning													
Stormwater Master Planning	/ N/A		\$ 92,600	\$ 88,	100	\$ 75,100	\$ 7	75,100	\$ 1	19,980	\$ 19,980	Master Plan on Hold, CIP on Hold , planning for infrastructure -currently no money	Develop a CIP based on the Phosphorous Control Plan and infrastructure needs, develop PCP by year 4, yr-5 GIS update of new BMPs , resulting TP reductions, YR 5 CIP development by consultant
Illicit Discharge Detection and Elimination plan	≀ N/A		\$ 16,275	\$5,(000	\$-	\$	-	\$	6,275	\$ 5,510		Update IDDE Plan in Year 1 to meet new permit requirements (assume \$10000), Year 1 -Director time for coordination SSO, including delineation of and prioritization of catchments (\$5000) YR1, and coordination with Sewer/Health Dept for mapping requirements, YR 2 update mapping, performed under data collection and mapping task. yr5 detailed report of removals
Catchbasin Inventory Plan (CBIP) Plan and Street sweeping optimization			\$ 6,170	\$3,6	670	\$ 3,670	\$	3,670	\$	3,670	\$	GIS map complete of known infrastructure, pipes&outfalls, cont. updates , currently sweep some streets and catch basins are cleaned infrequently as needed	Year 1 upfront cost of tracking and recordkeeping system, implement CBIF record keeping of CB cleaning and status of CB, investigate CB w/ >50% full sump at 2 consecutive cleanings, SOP year 1 to sweep areas DCIA 2x record miles, YR 10 continue program
Waterfowl & Pet Waste Management Programs	s N/A		\$ 10,000	\$ 2,	175	\$ 2,175	\$	2,175	\$	2,175	\$ 3,740	N/A	Develop programs by end of Year 1, assume cost management plan, annual coordination and reporting
Septic, Inflow, and Infiltration Program	≀ N/A		\$ 1,020	\$ 1,0)20	\$ 1,020	\$	1,020	\$	1,020	\$	Sanitary sewer (I/I) investigations and improvements tracked to document condition and status of system,	Continue existing program; evaluate potential impacts from septic systems (assume this is done in IDDE prioritization mapping), this includes cost of coordination with Health and Sewer Departments
Pesticide, Herbicide, and Fertilizer Program) N/A		\$ 2,550	\$ 2,5	550	\$ 2,550	\$	2,550	\$	2,550	\$ 2,550	Applications follow the principles of an Integrated Pest Management (IPM) Program to reduce chemical applications for pest and turf management,	Continue IPM & Implement fertilizer optimization program Year 1, assume requires coordination with multiple depts.
Spill Response and Cleanup Program	η N/A			\$ 5,	775	\$ 2,550	\$	2,550	\$	7,050	\$ 4,481	No formal program related to stormwater	Year 2 - Develop a priority response program based on high accident areas, significant pollutant potential and proximity to receiving waters; Years 3 & 4 - track program results and coordinate with Town departments; Year 5 - update priority response program and track program results and coordinate with Town departments
Groundwater and Drinking Water Program) N/A		\$ 7,250	\$ 2,5	550	\$ 2,550	\$	2,550	\$	2,550	\$ 3,490	No formal evaluation of priorities & results with respect to water supply	Year 1 - technical review memo of drinking water quantity and quality priority areas; Years 2 through 5 - incorporate program results into planning activities for BMPs to address water quality; review status annually
DPW Project Design Engineering and permitting assistance	∍ N/A		\$ 6,275	\$ 6,2	275	\$ 6,275	\$	6,275	\$ 1	16,375	\$	Design of roadway projects that incorporate stormwater improvements; retrofits designs for existing drainage systems (problem areas)	Increase in workload from existing, 2 projects per year, additional increase in projects for year 5 implementation of PCP
SWPPPs for Transfer Station & DPW Facility	′\$	-	\$ 17,500	\$ 1,2	275	\$ 1,275	\$	1,275	\$	1,275	\$ 1 275	Municipal facility inventory completed (previous to 2010) to evaluate pollution prevention and good housekeeping at municipal facilities	Develop SWPPPs by end of Year 1; implement recommendations by end of Year 2; update every 5 years
Maintenance and Field Engineering Support	t \$	10,000	\$ 12,500	\$ 12,	500	\$ 12,500	\$ 1	12,500	\$1	15,000	\$ 15,000	Engineers assist DPW on an on-call basis	25% increase in workload from existing, 100% increase in YR5+
<u>Drainage</u> -Data Collection,Database Management, Mapping	y \$	7,000	\$ 127,550	\$ 128,	750	\$ 33,050	\$ 3	33,050	\$ 3	33,050	\$ 71,090	Field Data collected for existing infrastructure and new projects (GIS update) - consultant	complete system mapping Year 2 cost includes mapping of entire drainage network (schematic only); continue data collection, field verification and update mapping annually, YR5 tracking and update mapping for IC reduction (PCP implementation)
Sewer -Data Collection,Database Management, Mapping	y		\$ -	\$ 29,0	000	\$ 5,000	\$	5,000	\$	5,000	\$ 8,800	Field Data collected for existing infrastructure and new projects (GIS update) - consultant	sewer infrastructure mapping, (assume that this update includes time to collect plans, schematics, and info from Sewer/Health Dept., incorporate existing attribute data into GIS), continue field verification and update mapping annually, YR 10 continue map updates
Technical Services/Public Assistance (hotlines)	\$	-	\$ 1,860	\$ 1,8	360	\$ 1,860	\$	1,860	\$	1,860	\$ 1,860	Handle calls for Illicit Discharge	increase in workload, handle calls related to illicit discharge and flooding
Code Development and Zoning Support Services	; N/A		\$ 7,500	\$ 17,5	500	\$ 12,500	\$	6,275	\$	6,275	\$ 10.010	N/A-bylaws for illicit discharge , stormwater mgmt and ESC are in place (2007)	Review and update ESC, SW, IDDE as needed by YR2, Report on local regulations affecting impervious areas in Year 2, report on feasibility of green practices and other green techniques in Year 3, Year 4 & 5 ongoing compliance support
Hazard Mitigation Planning and Flood Insurance Updates	3 N/A		\$ -	\$	- [\$ -	\$	- [\$2	25,000	\$ 5,000	N/A	Allowance for H&H analysis (consultant) in Year 5 for specific areas of concern identified during the permit term
Subtotal:	\$	17,000	\$ 309,050	\$ 308,0	000	\$ 162,075	\$ 15	55,850	\$ 14	49,105	\$ 173,851		

Operations and Implementation												
Operations and Maintenance Management	t \$	14,250	\$ 19,250	\$ 14,250	\$ 14,	250	\$ 14,250	\$ 21,3	′5 \$	21,375	DPW coordinates work schedules, equipment and product needs, oversees progress and completion of work (2% DPW Director time + Asst DPW + Foreman)-Labor is fully burdened	50% increase in effort from existing due to new projects and tracking of results and measurable goals for each activity, YR5/YR10 increse in maint. oversight due to PCP implementation
CIP/Infrastructure Implementation											No formal program; infrastructure needs incorporated into Highway Budget for operations, CIP funded through grants or CHP 90 or 319	Annual needs evaluation, incorporate capital projects, evaluate stormwater improvement opportunities (25% increase overall)
PCP implementation												Year 5 - implementation & construciton of BMP's
voluntaryCMPP/RDA implementation	N/A	١										Year 5- implementation of CMPP or construction of BMP
IDDE	E N/A	١	\$ -	\$ -	\$	-	\$ -	\$	- \$	-	IDDE's not detected, cost of private IDDE source elimination to be re- imbursed to town, if applicable per bylaw	Assume cost of removal is borne by owner or sewer dept., cost to identify is included in enforcement category
Storm Sewer and Culvert Maintenance/Repair	\$	1,000	\$ 7,850	\$ 7,850	\$7,	850	\$ 7,850	\$ 7,8	50 \$	7,850		increase due to degraded infrastructure, address and maintain infrastructure
Inlet, Catch Basin, and Manhole Cleaning	\$	25,070	\$ 92,250	\$ 92,250	\$ 92,	250	\$ 92,250	\$ 92,2	50 \$	92,250	Clean some of the 158 catch basins and manholes, disposed of 183 tons material- hgwy budget	Clean/ inspect all catch basins (approx. 2025) and manholes each year
Stormwater BMP Facility Maintenance	\$	13,838	\$ 13,583	\$ 13,583	\$13,	583	\$ 13,583	\$ 14,5	6 \$	17,148	BMPs - 24 cleaned regularly, others as issues arise. Seven in-line bmp structures inspected quarterly and cleaned as needed	Continue cleaning and maintenance of all BMP locations in first 4 years;5% increase year 5 maintenance increase due to PCP plan implementation , 25% increase year 10
Street Sweeping	\$	109,200	\$ -,	\$ 226,400	\$ 226,	400	\$ 226,400	+ - /	-	226,400	continuous sweeping as weather permits ~8mos/yr average once/yr	Sweep streets 2x and directly connected municipal parking areas 2x per year
Fall Leaf-pickup	N/A	١	\$0	\$0		\$0	\$ -	\$ 117,48	80 \$	117,480	N/A - leaf pickup program not in place	Begin leaf collection in Year 5
Maintenance/Repair/Installation of ESC practices	\$	-	\$ 7,850	\$ 7,850	\$7,	850	\$ 7,850	\$ 7,8	50 \$	7,850	Repair of areas in spring damaged by snow plowing; repair of other eroded areas due to major rain events, (road repairs - budgeted amount)	Allowance for repair activities
Stream Restoration/Stabilization					\$ 19,	785			\$	19,785	N/A	Complete one stream restoration project every 3 years; 1 project in Year 10
Ditch and Channel Maintenance	N/A	۱									N/A	N/A
Waterfowl & Pet Waste Management Programs	N/A	ι.	\$ -	\$4,000	\$8,	500	\$6,500	\$6,5	00	\$6,500	N/A	Install waterfowl education signs at congregation areas by Year 2; install pet waste stations at key areas of concern by Year 2; implement waterfowl deterrents by Year 3; maintain programs annually
Public Assistance Program	N/A	ι.	\$ 3,720	\$ 3,720	\$3,	720	\$ 3,720	\$ 3,72	20 \$	3,720	public awareness but No incentive program in place to encourage Relocation of roof leaders into catch basins; disconnection of identified illicit discharges	continue creating public awareness & encourage disconnection of impervious areas
Hazardous / Toxic Materials Collection Program	\$	11,860	\$ 11,860	\$ 11,860	\$11,	860	\$ 11,860	\$ 11,80	\$0 \$	11,860	Annual household hazardous waste collection, 25% participation, includes cost of staff coordination for program.	Continue existing practices
Emergency Drainage Repairs	\$	-	\$ 11,620	\$ 11,620	\$11,	620	\$ 11,620	\$ 11,62	20 \$	17,430	Annual allowance for unexpected repair of failed drainage structures	Allowance for repairs; 50% increase in Year 10 due to aged structures, new/additional infrastructure overall
Land, Easement, and Rights Acquisition	N/A	١					\$ 5,000	\$ 5,0	0 \$	5,000	N/A	estimated legal time asociated with capital projects
Subtotal:	\$	175,218	\$ 394,383	\$ 393,383	\$ 417,	668	\$ 400,883	\$ 526,4	'1 \$	554,648		
Monitoring												
Catchment Assessment & Inventory /Outfall Monitoring (dry weather)	\$	-	\$ 1,275	\$ 54,930	\$ 54,	930	\$ 54,930	\$ 54,9	80 \$	44,199	Inventory completed 2003-permit, 240 outfalls	Assess 50% of catchments by Year 3, monitor 50% of outfalls by Year 4 and 100% of catchments and outfalls by Year 5; 240 outfalls and sampling of 20%; catchment assessments include key junction manhole inspections (i.e., damming of inlet pipes), no additional cost in Year 10
Stormwater Outfall Monitoring (wet weather)	N/A	١	\$ 16,375	\$ 47,300	\$ 47,	300	\$ 47,300	\$ 47,3	00 \$	41,115	N/A	Develop Permittee Specific Monitoring Plan in Year 1; sample 25% of outfalls each year beginning in Year 2
Subtotal:	\$	-	\$ 17,650	\$ 102,230	\$ 102,	230	\$ 102,230	\$ 102,2	80 \$	85,314		
									-			
TOTAL	: \$	212,439	\$ 794,471	\$ 865,563	\$ 730,	081	\$ 729,286	\$ 856,23	5 \$	913,359		Cost in 2011 Dollars
Future Total Including 2.5% Annual Inflation:		212,439	\$ 814,332	\$ 908,841	\$ 784,	837			5 \$	1,170,429		Annual inflation of 2.5% is an average of historic inflation values reported for the last 10 years based on Consumer Price Index
Note:* Unless otherwise noted, Year 10 costs represent the average cost over the 5-	Year p	ermit term										

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					Pro		stration: Exi		re Cost Suppo							
			ontractors (units	= fee)			nnel (rate = s	salary + 50%,	units = FTE)		Expe	enses				
		Consulting	GIS Technician-		Town	55W 51	IT Tech. or		Assistant					Trail	Title	1
	Source Rate	Engineer	Consultant	Legal Counsel	\$187,500	DPW Director \$127,500	Consultant \$84,000	Manager \$58,500	Director DPW \$90,000	Mileage \$0.51	Postage \$0.44	Disposal 1	Other 1	Total Cost	Total FTE	
Administration	# Units			<u> </u>	ψ107,500	ψ121,500	Ψ0 4 ,000	ψ30,300	\$30,000	ψ0.51	ψ0.++	1	I 1	0031	115	
	Existing					0.010			0.010					\$ 2,175	0.02	Periodic review
General Stormwater Program Administration	Proposed					0.015			0.015					\$ 3,263	0.03	Periodic review due to enhance
Legal Support Services	Existing	-		-	-	-		-	-	-	-		-	\$-	0.00	N/A
	Proposed Existing			\$5,000				0.010						\$ 5,000 \$ 585	0.00	Legal review of Assist in mailir
Administrative Support Services	Proposed							0.015						\$ 878	0.01	50% workload
Inter-Agency Coordination (CRWA, MA-HWY, EPA)	Existing					0.010								\$ 1,275	0.01	Share informa public education
	Proposed					0.015								\$ 1,913	0.02	Continue exist
Inter-Municipal Coordination (adj. Towns)	Existing Proposed	-		-	-	- 0.010		-	-	-	-		-	\$- \$1,275	0.00	N/A Meet twice a y
	Existing					0.010								φ 1,275	0.01	N/A
Emergency/Disaster Management Coordination	Proposed					0.010								\$ 1,275	0.01	Meet twice a y
	Existing Proposed-YR1,	-		-	-	-		-	-	-	-		-	\$ -	0.00	N/A Prepare NOI a
NPDES NOI and SWMP	10	\$36,040												\$ 36,040	0.00	assume prepa
	Proposed- YR 4	\$15,000				0.01		0.01	0.00					\$ 16,275	0.01	Year 4 incorpo
	Existing					0.01		0.01	0.02					\$ 3,660	0.04	Completed by 100% increase
NPDES Annual Reporting						0.02		0.02	0.04					\$ 7,320	0.08	staff
	Proposed- Average/Year													\$ 7,320	0.00	100% increase staff
	Existing												3,000.00	\$ 3,000	0.00	Distribution of CBTV Posting
	Proposed-YR 1	\$4,200				0.03		0.03					1,320.00	\$ 10,170	0.05	2 educational r audience (broo
	Proposed-YR 2	\$4,200				0.03		0.03			925		1,585.00	\$ 10,842	0.05	to meet progra 2 educational industrial audio
NPDES MS4 Public Education Programs	Proposed-YR 3	\$3,000				0.01		0.01						\$ 4,860	0.02	Consultant-Su
	Proposed-YR 4	\$3,600				0.03		0.03					690.00	\$ 8,940	0.05	surveys) 2 educational
	Proposed-YR 5	\$3,600				0.03		0.03			925		1,650.00	\$ 10,307	0.05	audience (broo 2 educational r
		\$3,000				0.03		0.03			920		1,050.00	\$ 10,307	0.05	business asso Workload incre
	Proposed- Average/Year													\$ 9,024	0.00	audiences (res message effec Water Resource
	Existing					0.010							3,000.00	\$ 4,275	0.01	summer water
	Proposed-YR 1					0.010	0.010	0.010	0.010			1,000.00	5,000.00	\$ 9,600	0.04	2x water resource events, river cle
NPDES MS4 Public Involvement Programs	Proposed-YR 2					0.010	0.010	0.010	0.010			1,000.00	5,000.00	\$ 9,600	0.04	2x WRC Public up day, storm
	Proposed-YR 3-5					0.010	0.010	0.010	0.010			1,000.00	4,000.00	\$ 8,600	0.04	2x WRC Public up day, storm
	Proposed- Averaged/Year													\$ 9,000	0.00	2x WRC Publi up day, storm
	Existing							0.010	0.010				106.00	\$ 1,591	0.02	SPCC & pollut on IDDE with v
NPDES MS4 & SPCC Training	Proposed	\$5,000												\$ 5,000	0.00	Annual SWPP prevention/goo Facility; all trai
	Existing	-		-	-	-		-	-	-				\$-	0.00	Year 1, refresh N/A
RDA Compliance	Proposed	- \$4,000	<u> </u>	-					-					\$ 4,000	0.00	Tracking of rec
Certified Municipal Phosphorous Program (CMPP)	Existing	-		-	-	-		-	-	-	-		-	\$-	0.00	N/A Recordkeeping
	Proposed	\$5,000												\$ 5,000	0.00	updating progr
Cronto Brown 10040 co.46 0714	Existing					0.010		0.010						\$ 1,860	0.02	604b pilot stud improvements
Grants Program (s319, 604b, CZM)	Proposed					0.010		0.010						\$ 1,860	0.02	Staff efforts to programs; ass
Stormwater Advisory Committee Support	Existing	-		-	-	-		-	-	-	-		-	\$-	0.00	N/A
	Proposed Existing		<u> </u>					<u> </u>						<u>\$</u> - \$-	0.00	Incorporated in Copies, postag
Unspecified Overhead	Proposed													\$-	0.00	50% increase
Emergency/Disaster Management	Existing Proposed	-		-	-	-		-	-	-	-		-	\$ - \$	0.00	N/A Coordinate sto
Total:	Existing	\$0		0	0.000	0.050	0.000	0.040	0.040	0.000	0.000	0.000	6,106	ہ د \$18,421	0.00	Soorumate Sto
	Proposed-YR 1	\$54,240	\$0	\$5,000	0.00	0.09	0.01	0.05	0.03	0.00	\$0	\$1,000	\$6,320	\$69,413	0.17	7
	Proposed-YR 2 Proposed-YR 3	\$18,200 \$17,000	\$0 \$0	\$5,000 \$5,000	0.00	0.12 0.09	0.01	0.08	0.07	0.00	\$925 \$0	\$1,000 \$1,000	\$6,585 \$4,000	\$48,225 \$43,383	0.27	-
	Proposed-YR 4	\$32,600	\$0	\$5,000	0.00	0.13	0.01	0.08	0.07	0.00	\$0	\$1,000	\$4,690	\$56,598	0.28	1
	Proposed-YR 5	\$17,600	\$0	\$5,000	0.00	0.11	0.01	0.07	0.07	0.00	\$925	\$1,000	\$5,650	\$53,830	0.25	

Sustainable Stormwater Funding in the Upper Charles Town of Bellingham, Stormwater Cost of Service

Description
eview and tracking of tasks & subcontractors
eview and tracking of tasks & subcontractors (50% workload increase anced program)
ow of regulatory changes in Vears 2.5.8.10
ew of regulatory changes in Years 2,5 & 10 nailings, preparation of budgets, etc.
oad increase from existing
rmation, attend workshops & seminars, utilitze CRWA fact sheets for cation
existing efforts
a year to review and coordinate programs
a year to review and coordinate programs
OI and SWMP in Year 1, prepare NOI and update SWMP in Year 10, epared by consultant
orporate PCP into SWMP I byDPW director, input & review by Town staff
ease from existing, completed by consultant, input & review by Town
ease from existing, completed by consultant, input & review by Town
n of fact sheets for stormwater & water resource and Illicit Discharge, ting on Runoff/Re-use/recharge and photos of Illicit Discharge.
nal messages one to target residents (radio ad) and one to developer: brochures w/ permit application), program measure of effectiveness
nal messages one to target commercial (mailed brochure) and one to
audience (mailed brochures) t-Survey of educational program effectiveness (1000 telephone
nal messages to target residents (newspaper ad) and developer brochures w/ permit application)
nal messages one to target commercial (mailing &presenation at local issoc. meeting) and one to industrial audience (mailed brochures)
increase from existing; distribute at least 2 messages to each of 4 (residents, commercial, industrial, construction), measure & report
ource Comm. (WRC) 2 televised public meetings per yr. & Youth
vater awareness program esource comm. Public meetings, update website w/ annual report and er clean-up day, and storm drain stencil &supplies
ublic meetings, update website w/ annual report&events,river clean- orm drain stencil, rain barrel workshop or similar presentation
ublic meetings, update website w/ annual report&events,river clean- orm drain stencil, rain barrel workshop or similar presentation
ublic meetings, update website w/ annual report&events,river clean- orm drain stencil, rain barrel workshop or similar presentation
ollution prevention/good housekeeping for DPW, DPW staff training /ith written memo and photos
VPPP training for Transfer Station, DPW Facility & pollution /good housekeeping and IDDE for all DPW; SPCC training at DPW training done by a consultant; programs developed and training in resher training each year thereafter
f regulated entities under the RDA that discharge to the MS4
ping, data tracking and correspondence with regulated entities for rogram progress under "Water Quality"
study grant, chapter 90 grant (for exist. Transp. Infrastructure ents)
s to apply for and administer grants received for stormwater assumes one permit every two years-same level of effort
ed into general stormwater program administration
ostage, consumables
ase from existing
e stormwater program with LEPC, meet twice a year

					Regulation/En	orcement: Exis	ting & Future Co	ost Supporting Da	ata					
		Subc	ontractors (u	ınits = fee)	Fully Burdene	ed Personnel (ra	nte = salary +50%	%, units = FTE)		Expenses				
	Source Rate	Consulting Engineer 1	GIS Technician- Consultant 1	Legal Counsel	Town Administrator \$187,500	DPW Director \$127,500	Asst. DPW Director \$90,000	DPW Office Manager \$58,500	Mileage \$0.51	Postage \$0.44	Other 1	Total Cost	Total FTE	Description
Regulation/Enforcement	# Units		•		· · /	• •	, ,	. ,		<u> </u>				
	Existing											\$-	0.00	No new permits
MS4 Stormwater Permit Administration	Proposed					0.01	0.01					\$ 1,275	0.02	Anticipated administration of 3 permits annually, cost borne by developer
	Existing											\$-	0.00	N/A
RDA/CMPP Compliance	Proposed		\$5,000			0.05	0.05					\$ 10,875	0.10	Inspection of facilities to verify accuracy of information submitted under the CMPP
Stormwater/Drainage System Inspections	Existing						0.010					\$ 900	0.01	Currently conducted by Engineering Department to review compliance of post-construction BMPs or connections with the MS4, \$500 estimate provided by DPW
	Proposed						0.010					\$ 900	0.01	25% increase (round to 1%) in workload due to various programs
	Existing											\$-	0.00	Issues are reported through the stormwater hotline or the Board of Health, mostly related to dumping, very few each year
Illicit Discharge and Dumping Program	Proposed					0.02					\$7,200	\$ 9,750	0.02	Includes identification of IDDE sources- assume 50% of dry-weather sampled outfalls have illicit discharge (24 hits over permit cycle), estimate cost to identify source \$1200 per hit. assume removal costs are borne by property owner or sewer authority - annual cost begin YR2, \$2500 (or 2% director effort)per year for oversight/coordination of enforcement, Source- IDDE Manual-cost per hit
Erosion/sediment Control Inspections	Existing						0.010					\$ 900	0.01	Engineering inspects Town projects; private projects are inspected at the cost of the developer or permittee
Erosion/sediment Control inspections	Proposed						0.020					\$ 1,800	0.02	50% increase (round to 1%) in workload due to additional maintenance and construction work
Total:	Existing	\$0	\$0	\$0	0.00	0.00	0.02	0.00	\$0	\$0	\$0	\$1,800	0.02	
	Proposed-YR1	\$0	\$0	\$0	0.00	0.01	0.04	0.00	\$0	\$0	\$0	\$3,975	0.05	_
	Proposed-YR2	\$0 \$0	\$0	\$0	0.00	0.03	0.04	0.00	\$0 \$0	\$0	\$7,200	\$13,725	0.07	4
	Proposed-YR3	\$0 \$0	\$0 \$0	\$0 \$0	0.00 0.00	0.03	0.04	0.00	\$0 \$0	\$0 \$0	\$7,200	\$13,725 \$13,725	0.07	4
	Proposed-YR4 Proposed-YR5	\$0 \$0	\$0 \$5.000	\$0 \$0	0.00	0.03	0.04	0.00	\$0 \$0	\$0 \$0	\$7,200 \$7,200	\$13,725 \$26,400	0.07	-
L I	11000360-1103	ΨŪ	ψ0,000	ΨŪ	0.00	0.00	0.11	0.00	φU	ψU	ψ1,200	ψ20,400	0.19	

Sustainable Stormwater Funding in the Upper Charles Town of Bellingham, Stormwater Cost of Service Regulation/Enforcement: Existing & Future Cost Supporting Data

						Tow	n of Bellingham,	Funding in the U Stormwater Cost of	Service					
		Subse	mtraatara (unita	(00)			-	Existing & Future C	ost Support	-				
		Consulting	ntractors (units = GIS Technician-	Legal	Fully Burde	ned Personnel	(rate = salary+50%	%, units = FIE)		Expenses				
	Source Rate	Engineer	Consultant	Counsel	Town Administrator \$187,500	DPW Director \$127,500	Asst. DPW Director \$90,000	DPW Office Manager \$58,500	Mileage \$0.51	Postage \$0.44	Other	Total Cost	Total FTE	
Engineering & Master Planning	# Units	1	I	1	\$187,500	\$127,500	\$90,000	\$58,500	\$U.51	\$0.44	I	COSI		
	Existing											\$-	0.00	
Stormwater Master Planning, includes PCP/CIP planning,	Proposed-YR 1	\$82,500	\$5,000			0.04						\$ 92,600	0.04	PCP Development and Adjust IC
link with comp plan; planning for infrastructure needs,	Proposed-YR 2	\$58,000	\$25,000			0.04						\$ 88,100	0.04	PCP development and YR 2 Prog
includes facility inventory for SW retrofit	Proposed-YR 3 Proposed-YR 4	\$70,000 \$60,000		10,000		0.04						\$ 75,100 \$ 75,100	0.04	PCP development PCP development
	Proposed-YR 5	\$15,000	\$1,500	10,000	0.01	0.01		0.01				\$ 19,980	0.03	Annual tracking and update GIS w
	Existing	, .,	, ,									\$ -	0.00	reduction, CIP plan by consultant IDDE Plan developed during 2003
Illicit Discharge Detection and Elimination Plan	Proposed-YR 1	\$10,000	\$5,000			0.010						\$ 16,275	0.01	Update IDDE Plan in Year 1 to me
	Proposed-YR 2 Proposed-YR 5	\$5,000	\$5,000	-		0.010						\$ 5,000 \$ 6,275	0.00	Update catchment delineation bas detailed report of illicit connection
	Existing	40,000				0.010						\$ -	0.00	N/A
Catch Basin Inventory Plan (CBIP) Plan and Street Sweeping Optimization	Proposed-YR 1		\$5,000					0.02				\$ 6,170	0.02	Upfront cost to set up tracking sys Update & Review previous year C
	Proposed-Annual		\$2,500					0.02				\$ 3,670	0.02	at 2 consecutive cleanings, SOP
	Existing					0.01	0.01					\$ -	0.00	N/A
Waterfowl & Pet Waste Management Programs	Proposed Annual	¢10.000				0.01	0.01					\$ 2,175	0.02	Annual coordination
	Proposed YR-1	\$10,000										\$ 10,000	0.00	assume pet & waterfowl locations
Septic, Inflow, and Infiltration Program	Existing Proposed					0.01						\$ 1,020	0.00	Sanitary sewer (I/I) investigations Continue existing program; evaluation
	Existing					0.01						\$ -	0.00	Applications follow the principles of
Pesticide, Herbicide, and Fertilizer Program				-		0.00						•		pest and turf management
	Proposed					0.02						\$ 2,550	0.02	Continue IPM & Implement fertiliz
Toxic and Hazardous Materials Control Program	Existing Proposed											\$ - \$ -	0.00	Annual household hazardous was Continue existing program
	Existing											\$ -	0.00	No formal program related to store
	Proposed YR2	\$4,500				0.01						\$ 5,775	0.01	Develop a priority response progra receiving waters
Spill Response and Cleanup Program	Proposed YR 3-4					0.02						\$ 2,550	0.02	Track program results and coordin
	Proposed YR 5	\$4,500				0.02						\$ 7,050	0.02	Update priority response program
	Existing	¢4 700				0.02						\$ -	0.00	No formal evaluation of priorities & Technical review memo of drinkin
Groundwater and Drinking Water Program	Proposed- YR1	\$4,700				0.02						\$ 7,250	0.02	
	Proposed YR- 2-5					0.02						\$ 2,550	0.02	Incorporate program results into p
DBW Project Design Engineering and Permitting	Existing											\$-	0.00	design of town roadway projects t
DPW Project Design Engineering and Permitting Assistance	Proposed YR- 1-3	\$5,000				0.01						\$ 6,275	0.01	increase in workload from existing
	Proposed YR 5+	\$10,000				0.05						\$ 16,375	0.05	double effort -additional increase
	Existing											\$-	0.00	Municipal facility inventory comple
SWPPPs for Transfer Station & DPW Facility	Proposed -YR1	\$17,500										\$ 17,500	0.00	Assume cost \$2500 per site for sv
	Proposed-YR2-5					0.01						\$ 1,275	0.01	Develop SWPPPs by end of Year annual site inspection by facility m
	Existing	\$10,000										\$ 10,000	0.00	Engineers assist DPW on an on-c
Maintenance and Field Engineering Support	Proposed	\$12,500										\$ 12,500	0.00	25% increase in workload from ex
	Proposed YR5+ Existing	\$15,000 \$7,000										\$ 15,000 \$ 7,000	0.00	50% increase year 5, 100% incre Field data collected for existing in
	Proposed-YR 1	¢1,000	\$125,000			0.02						\$ 127,550	0.02	1/2 of stormwater infrastructure sy
	Proposed-YR 2-		\$126,200			0.02						\$ 128,750	0.02	complete system mapping Year 2
	Drainage Proposed-YR 2-			-										add sewer infrastructure, (assum
	Sewer		\$29,000									\$ 29,000	0.00	Sewer/Health Dept. ,incorporate e
Data Collection, Database Management, Mapping	Proposed-YR 3-5		\$5,000									\$ 5,000	0.00	
	Sewer Proposed-YR 3		\$30,500			0.02						\$ 33,050	0.02	Years 3-5 update septic/ sewer a Years 3 include field mapping an
	Proposed-YR 4		\$30,500			0.02						\$ 33,050	0.02	Years 4 include field mapping an tracking (\$5500) update gis with la
				-										Years 5 include field mapping an
	Proposed-YR5		\$30,500			0.02						\$ 33,050	0.02	tracking (\$5500)update gis with la
Technical Services/Public Assistance (hotlines)	Existing Proposed					0.01		0.01				\$ - \$ 1,860	0.00	Handle calls related to flooding an increase in workload from existing
	Existing					0.01		0.01				\$ 1,000	0.02	Updates completed to comply with
	Proposed-YR 1	\$7,500										\$ 7,500	0.00	Consultant Review ESC, SW, and ESC enforcement
Code Development and Zoning Support Services	Proposed-YR 2	\$17,500										\$ 17,500	0.00	Consultant complete Review of E
,	Proposed-YR 3	\$12,500										\$ 12,500	0.00	Report on feasibility of green prac
	Proposed-YR4 &5	\$5,000				0.01						\$ 6,275	0.01	Year 4 & 5 code compliance supp
	Existing											\$-	0.00	N/A
Hazard Mitigation Planning and Flood Insurance Updates	Proposed YR5	\$25,000										\$ 25,000	0.00	Allowance for H&H analysis (cons review results of FEMA mapping to
Total:	Existing	\$17,000	\$0	0.00	0.00	0.00	0.00	0.00	\$0	\$0	\$0	\$ 17,000	0.00	review results of FEMA mapping t
	Proposed-YR 1	\$149,700	\$140,000	\$0	0.00	0.14	0.00	0.03	\$0	\$0	\$0	\$309,050	0.17	1
	Proposed-YR 2 Proposed-YR 3	\$97,500 \$100,000	\$187,700 \$38,000	\$0 \$0	0.00 0.00	0.16 0.16	0.01 0.01	0.03 0.02	\$0 \$0	\$0 \$0	\$0 \$0	\$308,000 \$162,075	0.20	1
	Proposed-YR 4	\$70,000	\$38,000	\$10,000	0.00	0.18	0.01	0.03	\$0	\$0	\$0	\$155,850	0.22	1
	Proposed-YR 5	\$79,500	\$39,500	\$0	0.01	0.20	0.01	0.04	\$0	\$0	\$0	\$149,105	0.26	

Sustainable Stormwater Funding in the Upper Charles

Description
t IC loads and % removal from 2000-2009, facility retrofit inventory (1/2 yr 1)
Progress Report, facility retrofit inventory (1/2 yr2)
SIS with BMPs installed &TP reductions, annual reporting of new BMPs and resulting TP tant review by staff
2003 permit
to meet new permit requirements, Delineation of and prioritization of catchments,
n based on mapping changes/updates ction/discharge removals, YR5
g system and route planning, YR1
ear CBIP recordkeeping of CB cleaning and status of CB, investigate CB w/ >50% full sump OP year 1 to sweep areas DCIA 2x-record miles, optimize programs
tions identified in retrofit inventory, Cost of consultant producing written managemnet plan
ions and improvements tracked to document condition and status of system,
valuate potential impacts from septic systems; 60% of Town has sewer service
les of an Integrated Pest Management (IPM) Program to reduce chemical applications for
rtilizer optimization program Year 1, assume requires coordination with multiple depts.
waste collection-accounted for in operations and implementation
stormwater
rogram based on high accident areas, significant pollutant potential and proximity to
ordinate with Town departments
gram and track program results and coordinate with Town departments
ties & results with respect to water supply inking water quantity and quality priority areas , includes consultant GIS map exercise
nto planning activities for BMPs to address water quality; review status annually cts that incorporate stormwater improvements
isting to 2 projects,
ase in projects for year 4 implementation of PCP
mpleted to evaluate pollution prevention and good housekeeping at municipal facilities
or swppp and 1/4 of town owned bldgs (7) need swppp Year 1; implement recommendations by end of Year 2; update every 5 years- includes
ity managers & reporting by SWMP director
on-call basis
m existing,
increase year 10 due to increase in BMPs ng infrastructure and new projects (GIS update)
re system mapping
ear 2 cost includes mapping of entire drainage network (schematic only); and
sume that this update includes time to collect plans, schematics, and info from ate existing attribute data into GIS)
wer attributes
ng and verification of drainage attributes
ng and verification of drainage attributes, update with new BMPs and retrofits, IC reduction vith layers from developer,
ig and verification of drainage attributes, update of new BMPs & retrofits, IC reduction
ith layers from developer,
ng and illicit discharges isting
y with 2003 NPDES MS4 Permit
, and IDDE codes, develop or update written procedures for plan review, inspection, and
of ESC, SW, and IDDE codes, review Impervious Cover requirements in codes
practices and other green techniques in Year 3
support
consultant) in Year 5 for specific areas of concern identified throughout the permit term; ing updates for Norfolk County, anticipated within 5 years

							inable Stori Town of Bell	ingham, S	tormwater	Cost of S							
		Subc	ontractors (units	s - foo)	Eully B		sonnel (rate =				Supporting Data	l	Expen	505			T
-		Consulting						DPW					Expen				-
	Source	Engineer/ Subcontractor	GIS Technician- Consultant	Legal Counsel	Town Administrator	DPW Director	Asst. DPW Director	Office Manager	Working Foreman	Seasonal Labor	Equipment Budget	Disposal	Vehicle Parts	Materials & Supplies	Fuel	Other	
F	Rate	1	1	1	\$187,500	\$127,500	\$90,000	\$58,500	\$67,500	\$18,000	1	1	1	1	1	1	1
Operations & Maintenance	# Units																
	Existing					0.05	0.05		0.05								\$
_								-									Ľ
	Proposed YR1	\$5,000				0.05	0.05		0.05								\$
Operations and Maintenance Management								1									1
	Proposed YR2-4					0.05	0.05		0.05								\$
Γ																	
	Proposed YR5+					0.08	0.08		0.08								\$
																	┢
	Existing																
CIP/Infrastructure Implementation																	
Γ	Proposed																
PCP Implementation	Existing	\$0															
r or implomentation	Proposed YR-4+ Existing	\$0		1													<u> </u>
Voluntary CMPP/RDA Implementation	Proposed	φU															1
	Existing	\$0															
Illicit Discharge Removal	Exioting	¢0															L
	Proposed																
Storm Sewer and Culvert Maintenance/Repair	Existing	\$1,000															\$
Storm Sewer and Curven maintenance/repair	Proposed	\$2,000				0.01	0.01		0.01		3,000						\$
	Existing								0.23		2,000	7,320					\$
Inlet, Catch Basin, and Manhole Cleaning	Proposed															\$92,250	\$
	Existing								0.11							\$6,158	\$
Stormwater BMP Facility Maintenance	Proposed YR 1-4								0.11							\$6,158	\$
E	Proposed YR 5								0.12							\$6,466	\$
	Proposed YR 10 Existing			1					0.14		5,000	9,700				\$7,698	\$ \$
	Existing								1.40		3,000	5,700					φ
Street Sweeping	Proposed								2.80		10,000	19,400				\$8,000	\$
	Existing																<u> </u>
Fall Leaf-pickup	Proposed															\$117,480	\$
	Existing															\$0	
Maintenance/Repair/Installation of ESC practices																ψũ	Ļ
	Proposed Existing					0.01	0.01		0.01					5,000			\$
Stream Restoration/Stabilization	Proposed YR 3 & 10					0.01	0.02		0.02	0.02				15,000			\$
	Existing					0.01	0.02		0.02	0.02				10,000			¢ \$
Ditch and Channel Maintenance	Proposed																\$
-	Existing																
Waterfowl & Pet Waste Management Programs	Proposed YR-2	* • • • • •		-										\$4,000			\$
-	Proposed YR-3 Proposed YR 4-5	\$6,000 \$6,000												\$2,500 \$500			\$ \$
	Existing	\$0,000												\$300			φ
Public Assistance Program	Proposed					0.02		0.02									\$
	Existing					0.01		0.01				10,000					\$
Hazardous / Toxic Materials Collection Program	Proposed					0.01		0.01				10,000					\$
	Existing																\$
Emergency Drainage Repairs	Proposed YR 1-5							0.01	0.01	0.02				10,000			\$
Г	Proposed YR 10							0.02	0.02	0.03				15,000			\$
	Existing				İ	ļ		I	İ			İ	İ			İ	Ē
Land, Easement, and Rights Acquisition	Proposed YR 4+			\$5,000													\$
Total:	Existing	\$1,000		\$0	0.00	0.06	0.05	0.00	1.80	0.00	\$7,000	\$17,020	\$0	\$0	\$0	\$6,158	\$
	Proposed-YR 1 Proposed-YR 2	\$7,000 \$2,000	\$0 \$0	\$5,000 \$0	0.00	0.10 0.10	0.07	0.04	2.99 2.99	0.02	\$13,000 \$13,000	\$29,400 \$29,400	\$0 \$0	\$15,000 \$19,000	\$0 \$0	\$106,408 \$106,408	\$
E	Proposed-YR 3 Proposed-YR 4	\$8,000 \$2,000	\$0 \$0	\$0 \$5,000	0.00	0.11 0.10	0.09 0.07	0.04 0.04	3.01 2.99	0.04	\$13,000 \$13,000	\$29,400 \$29,400	\$0 \$0	\$30,500 \$15,000	\$0 \$0	\$106,408 \$106,408 \$224,196	\$

			-
	Total	Total	
	Cost	FTE	Description
\$	14,250	0.15	Highway Foreman coordinates work schedules, equipment and product needs, oversees progress and completion of work
\$	19,250	0.15	Develop detailed O&M program for municipal facilities, parks, buildings, streets, vehicle storage, infrastructure, and SWPPP
\$	14,250	0.15	Highway Foreman coordinates work schedules, equipment and product needs, oversees progress and completion of work
\$	21,375	0.23	50% increase in effort from existing due to new projects and tracking of results (measurable goals) for each activity. Year 5 increase due to pcp implementation & const. of BMP's maintenance oversight
		0.00	No formal program; infrastructure needs incorporated into Highway Budget for operations, CIP funded through grants or CHP 90 or s319; stormwater improvements completed as part of Highway and Water Department Projects, including decreases to roadway width and removal of cul-de-sacs
		0.00	Annual needs evaluation, incorporate capital projects, evaluate stormwater improvement opportunities
		0.00	N/A
		0.00	Year 4 - implementation & construction of BMPs
		0.00	N/A Year 5 - implementation of CMPP or construction of BMP
		0.00	No formal program; no cross connections to MS4 identified thus
		0.00	far; illegal dumping removed by Highway Department and disposal coordinated with Board of Health
		0.00	Year 1 - address illicit discharge & Year 5 report on removals, RDA - within 60 days of occurance,
\$	1,000	0.00	500 LF of storm drain cleaned
\$	7,850	0.03	increase due to degraded infrastructure, address and maintain infrastructure
\$	25,070	0.23	Clean approximately 158 catch basins and manholes per year
\$	92,250	0.00	Clean all catch basins and manholes each year (~2050 structures) \$45/basin
\$	13,838	0.11	BMPs - 24 cleaned regularly, others as issues arise. Seven in- line bmp structures inspected quarterly and cleaned as needed
\$	13,583	0.11	Major cleaning and maintenance of all BMP locations in first 4 vears:
\$	14,566	0.12	5% increase in activities due to imp. Of PCP plan
\$	17,148	0.14	25% increase in activities due to imp. Of PCP plan yr10
\$	109,200	1.40	All streets are swept at least once a year
\$	226,400	2.80	double effort and sweep directly connected municipal parking lots (assume 80% municipal bldgs have parking cost to sweep each 2x per year is \$400)- need to sweep all 2 times per year
		0.00	N/A - leaf pickup program not in place
\$	117,480	0.00	Begin leaf collection in Year 4 Repair of areas in spring damaged by snow plowing; repair of
		0.00	other eroded areas in spring damaged by show plowing, repair of other eroded areas due to major rain events (road repairs - budgeted amount)
\$	7,850	0.03	Allowance for repair activities
		0.00	N/A allowance to adress 1 stream project every 3 years, YR 3 and
\$	19,785	0.07	YR10
\$	-	0.00	N/A
\$	-	0.00	Continue existing maintenance activities N/A
\$	4,000	0.00	install pet waste collection bag stations, stock bags annually
\$	8,500	0.00	implement waterfowl controls (goose egg addling) and pet bags
\$	6,500	0.00	stock appually continue implementation of measures, stock supplies
Ψ	0,500	0.00	contract implementation of measures, stock supplies
\$	3,720	0.04	Create public awareness & incentive program to encourage disconnection of impervious areas to the storm sewer system
\$	11,860	0.02	collection program, administration time accounted for in Administration category
\$	11,860	0.02	continue existing activity
\$	-	0.00	Annual allowance for unexpected repair of failed drainage structures
\$	11,620	0.04	continue existing activity
\$	17,430	0.06	Continue existing practices; 50% increase in Year 10 due to aged structures, new/additional infrastructure overall
		0.00	N/A
\$	5,000	0.00	Future costs reflect estimated legal time asociated with capital projects, 5% town legal time
	175,218	1.91	
	394,383	3.22	-
	393,383 417,668	3.22 3.29	1
	400,883	3.22]
	526,471	3.31	

Sustainable Stormwater Funding in the Upper Charles Town of Bellingham, Stormwater Cost of Service Monitoring: Existing & Euture Cost Supporting Data

						Monit	toring: Existing	g & Future Cost	Supporting Dat	а						
			ntractors (units =			Fully Burdene		rate = salary+50%	%, units = FTE)			Expenses				
	Source	Consulting Engineer	GIS Technician- Consultant	Legal Counsel	Town Administrator	DPW Director	Asst. DPW Director	Working Foreman	Seasonal Labor	DPW Office Manager	Mileage	Postage	Other	Total	Total	
	Rate	1	1	1	\$187,500	\$127,500	\$90,000	\$67,500	\$18,000	\$58,500	\$0.51	\$0.44	1	Cost	FTE	Description
Monitoring	# Units		•	•			•							•		• · · · ·
	Existing													\$-	0	All outfalls inspected once during dry weather conditions during the 2003 permit term-not required
	Proposed YR1					0.01								\$ 1,275	0.01	SWMP director coordination and planning
Catchment Assessment & Outfall Inventory/Monitoring (dry weather)	Proposed YR2-5	\$23,830				0.050	0.10	0.15					\$5,600	\$ 54,930	0.3	Inventory 25% of outfalls each year beginning in Year 2- assume 20% of total 240 outfalls have dry flow and require sampling, coordination effort by program director, Assess Key Junction Manholes for dry weather flow in catchments with potential for illicit discharge. The cost to identify the source is included in IDDE enforcement.
	Existing													\$-	0	N/A
Stormwater Outfall Monitoring (wet weather)	Proposed YR1	\$10,000				0.050								\$ 16,375	0.05	annual monitoring program coordination by program director, Develop Permittee Specific Monitoring Plan in Year 1
,	Proposed YR2-5	\$36,425				0.050	0.05							\$ 47,300	0.1	Sample 25% of outfalls each year beginning in Year 2- assume 80% of 240 outfalls are monitored, complete year 5
Surface Water Quality Monitoring	Existing													\$-	0	N/A
	Proposed YR 3&4	\$0				0.00	0.00							\$-	0	
Total:	Existing	\$0	\$0	\$0	0.00	0.00	0.00	0.00	0.00	0.00	\$0	\$0	\$0	\$-	0	
	Proposed YR1	\$10,000	\$0	\$0	0.00	0.06	0.00	0.00	0.00	0.00	\$0	\$0	\$0	\$ 17,650	0.06]
	Proposed YR2	\$60,255	\$0	\$0	0.00	0.10	0.15	0.15	0.00	0.00	\$0	\$0	\$5,600	\$ 102,230	0.4	
	Proposed YR3	\$60,255	\$0	\$0	0.00	0.10	0.15	0.15	0.00	0.00	\$0	\$0	\$5,600	\$ 102,230	0.4	
	Proposed YR4	\$60,255	\$0	\$0	0.00	0.10	0.15	0.15	0.00	0.00	\$0	\$0	\$5,600	\$ 102,230	0.4	
	Proposed YR5	\$60,255	\$0	\$0	0.00	0.10	0.15	0.15	0.00	0.00	\$0	\$0	\$5,600	\$ 102,230	0.4	