STORMWATER LOCAL ASSISTANCE FUND (SIAF): PIANS	AND SPECIFICA	TIONS C	HECKLIST	
Locality:	SLAF Grant #:			
Project Name:	Date:			
Prepared by:	Title:			
Email:	Phone #:			
DEQ Approved:	Date:			
INSTRUCTIONS				
Complete sections A through E and G. The questionnaire should be completed electron design plans, used in the preparation of this questionnaire.	ically. Please submit al	l documents,	including	
A. SCOPE/DESCRIPTION of WORK				
B. PIAN AND DESIGN			T =	
Item Item	authorization Lattor?	YES/NO	For DEQ Use	
(If no, DEQ staff will refer to Section F to reconfirm project eligibility.)	Authorization Letter?			
2. Are the Plans at 100% design and are bid-ready?				
B. Have the Final Plans, dated , been approved by local VESMP Authority	·			
 All elements included in the submitted design are reasonable and necessary costs as deriving the water quality benefits of the BMP or Stream Restoration project. (If no, comments section or attachment.) 	ssociated with please describe in			
Is there a separation of costs for eligible and non-eligible items? (If applicable, please comments section or attachment.)	e describe in			
3. The appropriate table in Sections 1, 2 & 3 below, are free of any discrepancies betwee details from the SIAF application to final design (If no, please describe in comments attachment.)	een the project section or			
COMMENTS:	<u> </u>			
C. REQUIRED DOCUMENTATION			_	
Item		YES/NO	For DEQ Use	
L. Local VESMP Authority Plan Approval Letter (Choose Applicable Design Approval Letter)	ter).			
 Design Certification for each practice (Choose BMP or Stream Restoration). Pollutant Credit Calculation Worksheet. 				
 Folutant Credit Calculation Worksheet. Electronic copy of final approved plans and one hard copy plan set (11x17) to the DF All plans must be signed & sealed by a professional engineer. 	EQ project manager.			
5. Electronic copy of final Project Specifications.				
6. Surface Water Impact (SWI) Certification (Surface Water Impact Certification).				
7. All required environmental permits as listed on the SWL				
Responsibilities and Maintenance Plan (must be received no later than thirty (30) da the Notice of Substantial Completion).	ys from the date of			
COMMENTS:				

D. PROJECT SPECIFICATIONS						
Item	YES/NO	Location of Information	For DEQ Use			
1. Substantial Completion procedures.						
2. Erosion and Sediment Control procedures.						
3. "Or Equal" clause allowing for the substitution of equipment, materials, or provisions.						
4. As-Built Drawing procedures.						
COMMENTS:						
E. PROJECT COSTS						
SIAF Application	1					
SELECT Opinion of Probable Total Project Cost based on pl	lan design level:	□Concept, □35%, □	65%, □95%			
Opinion of Probable Tota		\$				
BMP: Cost per pound of		<u> </u>				
Stream Restoration: Cost		<u> </u>				
Stream Restoration: Cost per pound of						
Plan Design		\$				
100% Plan Design Opinion of Probable Tota BMP: 100% Plan Design Cost per pound of		\$				
Stream Restoration: Cost p		\$				
Stream Restoration: Cost per pound of		\$				
F. PROJECT ELIGIBILITY (For use by DEQ staff only)						
Item		For DEQ Use	For DEQ Use			
 The existing and post project nutrient reduction crediting is in accordan Program TMDL Protocols, DEQ TMDL Guidance, and SIAF Program Guidelin 						
 Fiscal Year Priority Ranking Review – review was performed, and project was consistent in cost effectiveness and water quality benefit. 	ns deemed					
3. Cost per pound of total phosphorus (TP) was below the maximum set.						
4. Capital projects for reducing and treating stormwater runoff.						
5. Costs are associated with the planning, design, permitting, inspection, and c	construction.					
Supports a need for an existing stormwater pollution problem and prevents environmental problem due to stormwater runoff.	s a future					
 Designed in accordance with applicable USEPA Chesapeake Bay Program TN Program Guidelines. 	MDL and SLAF					
 The existing and post pollutant reduction crediting calculation methodology comparable to those used in the application. If not, provide explanation in the section below. 		re				
COMMENTS:						
G. CLICK THE LINK BELOW THAT CORRESPONDS WITH YOUR P	ROJECT TYPE A	AND COMPLETE THE R	EQUIRED			

#1: STRUCTURAL BMPS

#2: URBAN STREAM RESTORATION AND OUTFALL STABILIZATION

#3: LIVING SHORELINE

#1: PROJECT TYPE	E: STRUCTURAL BMP				• •		
Type of Stormwater		oject Calculation	ns Submitted at S	LAF Appl	ication		
Type of Stormwater	wettont.		al Pollutant Loadii	าฮ			
Metho	od Used:	111(1	ar i Ondituint Louin	* 5			
		BMP Draina	ge Basin Informati	on (acre	s)		
Pervious Cover=	Impervious Cover=		ime of Concentration			ng Drainage Area=	
		tarting Pollutan	nt Load in Drainag	e Area (I		<u> </u>	
Total Phosphorus=		Total Nitrogen=			Total Suspended S	Solids=	
	Existing BMP Typ	e:			Proposed	BMP Type:	
Existing BMP Efficiency (%)	Downward Modification(s)	Downward Modification (%)	Revised Existing Efficiency Modification(s) (%)	Proposed BMP Efficiency (%)		Net Increase in Retrofit Efficiency (%)	
	Select All that Apply (Maximum of 5):	Select the Total Percentage:	Existing Efficiency (%) - (Downward Modification (%) x Existing Efficiency (%))			Proposed BMP Efficiency (%) - Revised Existing Efficiency Modification(s) (%)	
TP =	□No Sediment Forebay		TP =	TP =		TP =	
TN=	□No Micro-pool		TN=	TN=		TN=	
IIV=	☐ No Outlet Protection ☐ Short-Circuiting		IIN=	IN=		IIV=	
TSS=	□Undersized TV		TSS=	TSS=		TSS=	
P D- T D-	Other(describe below)	(T/)					
*Total Phosphorus =	eduction Drainage Area	(ms/ yr) *Total Nitrogen =			*Total Suspended	Solids -	
Offset Requirements Add		Total Nitrogen –			Total Suspended	Solids –	
onset wequirements riud	respect.	Project Calcu	ılations at Final Pl	an Desig	m		
Type of Stormwater I	Retrofit:	Joseph					
		Initia	al Pollutant Loadii	ıg			
Metho	d Used:						
			ge Basin Informati		s)		
Pervious Cover=	Impervious Cover=		ime of Concentration	` ′		ng Drainage Area=	
			nt Load in Drainag	e Area (I			
*Total Phosphorus =		*Total Nitrogen =		4.	*Total Suspended	Solids =	
	Existing BMP Typ		l Efficiency Calcula	tions	Dronocod	BMP Type:	
	Existing Divir Typ	е.			rioposeu	bivir Type.	
Existing BMP Efficiency (%)	Downward Modification(s)	Downward Modification (%)	Revised Existing Efficiency Modification(s) (%)	Proposed BMP Efficiency (%)		Net Increase in Retrofit Efficiency (%)	
	Select All that Apply (Maximum of 5):	Select the Total Percentage:	Existing Efficiency (%) - (Downward Modification (%) x Existing Efficiency (%))	(Downward fication (%) x		(Proposed BMP Efficiency (%) - (Revised Existing Efficiency Modification(s) (%)	
TP=	□No Sediment Forebay		TP=	TP=		TP=	
TN=	No Micro-poolNo Outlet ProtectionShort-Circuiting		TN=	TN=		TN=	
TSS=	☐ Undersized TV ☐ Other(describe below)			TSS=		TSS=	
im . Inl			d Reduction Drain	age Area		10.101	
*Total Phosphorus =		Total Nitrogen =	nnandi- m\.		*Total Suspended	Solids =	
_	ressed (DEQ Guidance Men	no GM20-2003; A	уррепаіх ш):				
Comments							
*Final Pollutant Load Reduct	ion Credit = (Starting Pollutant	Load) x (Net Increa	se in Retrofit Efficiency	/ (%))			

#2: PROJECT	TYPE: URBAN S	TREAM RESTORA	TION & OUTFALL	STABILIZATION		
		Project Cal	culations Submitte	d at SIAF Applicat	ion	
Watershed Size (ac): Impervious Cover (%): Managed Turf (%): Length of Restoration (lf):						
Does restoratio Describe:	on include changes i	in Pattern, Profile, an	d/or Dimension? YES	S□/NO□		
Soil Data						
Number of Soil Borings:		Stream Segment 1	nt Stream Segment Stream Segment 2 3		Stream Segment 4	Stream Segment 5
Campasita	BD (lb/ft³)					
Composite Average	TP (lb/T)					
	TN (lb/T)					
	utant Reductions					
Protocol 1 Cred		diment 50% Effective		1		
	Protocol 1	Protocol 2	Protocol 3*	Protocol 4	Protocol 5	TOTAL Load
C II	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	Reduction (lb/yr)
Sediment TP						
TN						
111		Droing	L t Calculations at Fi	nal Plan Dasion		
Watershed Size	(ac): Im	pervious Cover (%):		d Turf (%):	Length of Restorat	ion (lf):
		in Pattern, Profile, an			penger or restorie	wa (a).
Soil Data						
Number of Soil Borings:		Stream Segment 1	Stream Segment 2	Stream Segment 3	Stream Segment 4	Stream Segment 5
Composite	BD (lb/ft³)					
Average	TP (lb/T)					
	TN (lb/T)					
	utant Reductions					
Protocol 1 Cred		diment 50% Effective	` ' '			
	Protocol 1	Protocol 2	Protocol 3*	Protocol 4	Protocol 5	TOTAL Load
	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	(lb/yr)	Reduction (lb/yr)
Sediment						
TP						
TN						

^{*}Protocol 3: <u>Application</u>: Credit for Floodplain Reconnection Volume is an estimate; final credit determined with post-construction As-Built record drawing and modeled floodplain reconnection. <u>Final</u>: Credit for final Floodplain Reconnection Volume as determined by post-construction As-Built record drawing and modeled floodplain reconnection.

#3: PROJECT	TYPE: 1	IVING SHORELIN						
			oject Cal	<u>lculations Su</u>	bmitted at SLA	AF App	<u>lication</u>	
SELECT Type of L			_					
Does Project Meet □	the Qualif	ying Conditions? YES□/N	0□					
	fringe habit	regetated, and excess sedin at (for non-structural & hy			h/dune habitat (for	hybrid w	// breakwater) will be created	d, enhanced, or
k Submerged Ac	juatic Veg	etation (SAV) present?	YES□/NO	 O□				
		f SAV based on VIMS SA			□/NO□			
Or on-s	site SAV Su	ırvey? YES□/NO□						
		s provided for shoreline						
	Sediment	Erosion Rate (E, ft/yr) h	ased on V	/IMS Shoreline	Change Online Vi	ewer?	YES□/NO□	
If No, Describe:	values us	ed in place of 1 or more	of the pr	otocol dofault v	alues for			
						or N se	diment concentration (0.	000205 lb P/lb
							s/yr), Sedimentation TP or	
							P or TN load reduction ((
		n plantings/yr)? YES□/I						
		ts describing source an				ed.		
		e additional sheets for a						
Length of Sh	oreline	Estimated Shoreline	Erosion	0	Bank Height	1	mated Bank Instability	Area of Marsh Plantings
(ft)		Rate (ft/yr)			(ft)		Reduction (%)**	(ac)
Estimated Pollut	ant Reduc	ctions			,		,	
Pollutant		Protocol 1 (lb/yr)	Proto	col 2 (lb/yr)	Protocol 3 (lb	/yr)	Protocol 4 (lb/yr)	TOTAL (lb/yr)
TP								
TN								
TSS								
			Proje	ect Calculatio	ns at Final Pla	n Desi	gn	
SELECT Type of L	iving Shor	eline:						
Does Project Meet	the Qualif	ying Conditions? YES \square /N	0□					
	fringe habit	regetated, and excess sedin at (for non-structural & hy			h/dune habitat (for	hybrid w	// breakwater) will be created	d, enhanced, or
k Submerged Ac	matic Veg	etation (SAV) present?	VFS \ /N(<u></u>				
		f SAV based on VIMS SA			□/NO □			
-		rvey? YES□/NO□	., 1,101110		_,,,, <u>_</u>			
		s provided for shoreline	grading	steeper than th	e angle of repose	? YES□]/ NO □	
		Erosion Rate (E, ft/yr) b						
If No, Describe:								
		ed in place of 1 or more						
							ediment concentration (0	
							s/yr), Sedimentation TP o IP or TN load reduction ((
		h plantings/yr)? YES□/		iisii piaiitiiigs/yi	i), Maish Reunen	I MALIU I	IF OI IN IOAU TEUUCHON (0.3 ID 1F 01 0.83
		its describing source an		s for site-snecif	ic values heing us	æd.		
		e additional sheets for a				· ·		
Length of Sh		Estimated Shoreline			Bank Height	Estir	mated Bank Instability	Area of Marsh Plantings
(ft) Rate (ft/yr) (ft) Reduction (%)** (ac)								
Estimated Pollutant Reductions								
Pollutant Protocol 1 (lb/yr) Protocol 2 (lb/yr) Protocol 3 (lb/yr) Protocol 4 (lb/yr) TOTAL (lb/yr)								
TP			22010	(20. g2)		J-7	(ID, J1)	_ 0 2.122 (20, J1)
TN								
TSS					1			
	ing angle of i	repose exceeds the slope stal	oility thresho	old a detailed site s	∥ lope and bank stabilit	y analysis	to documenting that no addition	al sediment and associated pollutants
								iment was removed affeite so that the

will enter the nearshore waters, to include the following conditions: 1) the project was graded and vegetated so that the bank is stable, and 2) excess sediment was removed offsite so that the sediment does not enter the nearshore waters. Bank analysis can demonstrate the site is stable with a minimum risk of erosion. This should be coordinated with appropriate DEQ personnel to ensure proper methods, reporting, and requirements are met, and the project meets this basic qualifying condition. The local or state agency may decide not to issue the credit based on the information regarding site slope and stability assessment that is provided.