

Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 1 -- Catchment Information

Subwatersned: Bea	r Branch				
Location of Catchment	Centroid on ADC Map:	Year: 2001	Page: 4	Grid:	E5
State Plane Coordinate	es of Outfall Location:	X: <u>1350845</u>	Y:	518060	
Closest Road Intersect	ion to Outfall: Marymont D	rive			
Outfall SDI ID or Outfal	I Description: <u>54582, Cor</u>	ntract No. 87112A			
Objective: Demonstrat	ion / Impairment(s) (Sheet	1) Water Qua	ality		
Drainage Area (ac):	9.8	Impervious Area	(ac): <u>6.6</u>		
Percent Impervious:	68%	Soil Recharge Fa	actor (S): 0.111		
WQ_v (required): 0.53	39	Re _v (required): 0	.060		
Predominant Land Use	Apartments	Mean Depth to G	Ground Water:	n/a	
Sanitary System: Se	eptic Municipal Sewer	Water Supply:	On Site Well	Public Water	
Storm Drainage Sys	tem Within Catchment				
Piped:100%_	Open Channels:				
Area Drained by Syster	m: <u>100%</u>				
Location in Catchment:	✓ Headwaters	☐ Lower ✓ All			
Open Channel Lining-	Vegetation:	Riprap:	Concrete:	Other:	
Existing IMP(s) / BM	IP(s)				
SDI ID: 85127A	Type (number from Shee	ets 4 & 5): 16	Age: 17		
Closest Road Intersect	ion to IMP / BMP: Lau	ırel PI & Cherry La		_	
Catchment Area Treate	ed (ac): 8.32	Percentage C	atchment Treated:	85%	
WQ _v Provided: ☐ YE	Re _v Provide	ed: ☐YES ☑NO	C _p Provided:	YES	✓NO
SDI ID:	Type (number from Shee	ets 4 & 5):	Age:	_	
Closest Road Intersect	ion to IMP / BMP:				
Catchment Area Treate	ed (ac) :	Percentage C	atchment Treated:		
WQ _v Provided: ☐ YE	S □NO Re _v Provide	ed: YES NO	C _p Provided:	YES	□NO
SDI ID:	Type (number from Shee	ets 4 & 5):	Age:	_	
Closest Road Intersect	ion to IMP / BMP:				
Catchment Area Treate	ed (ac) :	Percentage C	atchment Treated:		
WQ _v Provided: ☐ YE	s □no Re _v Provide	ed: ☐YES ☐NO	C _p Provided:	YES	□NO

Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 1 -- Catchment Information (concluded)

CATCHMENT SUM	MARY		
WQ _v (provided):	0.47	Re _v (provided) :	0.06
Area Treated (ac):	8.32	Impervious Area Treated (ac):	5.83
Area Treated (%):	85%	Impervious Area Treated (%):	88%
Comments			

Site ID: MARY Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information

Site Name: Marymont Apartments		Address:	Mulberry Stre	eet		
Site Owner: Equity Residential Properties						
State Plane Coordinates of Site Centroid	: X:	1350845	Y:	518060	Date:	5/20/03
Personnel: PM		Weather:	sunny, 70F	deg		
Area (ac): 9.8		Impervious A	vrea (ac):	6.6		
Percent Impervious: 68°	<u>%</u>	Soil Recharg	e Factor (S)):	0.111	
WQ _v (required): 0.539		Re _v (required	d):	0.06	_	
Property Area (ac): 9.8		Property Area	a Included ii	n Site:	100%	
Amount of Catchment Occupied by Site:	100%					
Storm Drainage System Within Site Piped: 100% Open Channel		Are	a Drained b	v Svstem:	100%	
Open Channel Lining - Vegetation: 0		•	Concrete:			0%
	<u></u>		•			
Existing IMP(s) / BMP(s) (Indentified	d on Page 1	, FORM 1, Ca	atchment In	formation)		
SDI ID:	Condition	n: Excellent	Good	Average	Fair] Poor
SDI ID:	Condition	1: Excellent	Good	Average	Fair] Poor
SDI ID:	Condition	n: Excellent	Good	Average	Fair	Poor
Site Information						
Type of Pavement: ☑ Bituminous ☐ Co	oncrete	Gravel G	rid Pavers [Other		
Pavement Condition: Excellent	Good	✓ Average	Fair	Poor		
Underdrains can be easily directed to ex	isting storm	drains or day	lighted:	✓ YES	□NO	
Gutter/Exterior Downspouts Present:	✓ YES	□NO				
Roof Connected Directly to Storm Drain:	YES	✓ NO				
Roof Drains onto Impervious Surface:	YES	☑ NO				
Obvious Existing Drainage Problems:	☐ Exten	sive Modera	ate Avera	age 🗸 Liı	mited N	one
Steep Slopes Present: Extensive	Moderat	e Average	Limited	None	•	
Existing Landscaping:	e Moderat	e 🗸 Average	Limited	None	•	
Mature / Specimen Trees: Extensive	e	e 🗸 Average	Limited	None	;	
Area Available for Aboveground BMPs:	☐ Exten	sive Modera	ate Avera	age 🔽 Liı	mited N	one
Existing Cover of Potential Aboveground	BMP Locat	_	_	dscaped 🔲		er Pervious

Site ID: MARY Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information (concluded)

Com	merciai / insti	tutional					
Islands Present: ☑ YES ☐ NO			Curb Present Around Island:	✓ YES NO			
Grour	nd Level of Islan	d Relative to Pavement:	✓ Above ☐ Equal ☐ Below				
Island	Landscaping:	☐ Impervious ☐ Bare Ea☐ Trees (<2 in. DBH)	arth Gravel Grass Mulch Herbac Trees (2 - 6 in. DBH) Trees (>6 in. DBH)	ceous Plants Shrubs			
Trees	have sufficient	spacing to allow IMPs	☐YES ☑NO				
Parkir	ng area that can	be directed to potential	treatment area with little grading:	100%			
SITE	SUMMARY						
WQ_v	(provided):	0.47	Re _v (provided):	0.06			
Area ⁻	Treated (ac):	8.32	Impervious Area Treated (ac):_	5.83			
Area [·]	Treated (%):	85	Impervious Area Treated (%):_	88			
Phot	ographs	Description: loc	oking east along southern (front) portion of p	oroperty			
No.	851	Description: looking north along west portion of property					
No.	852	Description: looking north along east portion of property					
No.	853	Description: looking west along south (front) portion of property					
No.	854	Description: loc	Description: looking south between eastern-most buildings				
No.	855	Description: looking west along north side of property					
No.	856	Description: typical building with downspouts					
No.	857	Description: typ	oical retaining wall				
No.	858	Description: loc	oking south along west portion of property				
No.	859	Description: loc	oking east along north side of property				
No.	860	Description: bri	ck retaining wall on north side of property				
exces	s parking. Site	is steep with timber reta	ngs. Parking spots cannot be used for BMF ining walls throughout property. A brick ret ery little open area that is only grass or shru	aining wall			

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information





850 851





852 853





Site ID: MARY Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information (concluded)





856 857





858 859



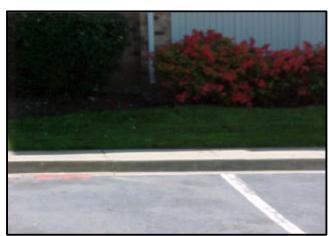
IMP / BMP ID	1 Site ID: MARY	Catchment ID: BB11

New LID IMP ☑ SWM BMP Retrofit □ New SWM BMP □ Type (Sheets 4 & 5): 5
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 7, 16
Treatment Area Ownership: Transportation ROW Utility ROW County Other Government Private
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: VYES NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: YES NO
Conservation Easement Impacted: TYES NO
Utilities Present: □ None □ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer □ Other
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities:
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: YES NO Ground Water Table Level Suitable: YES NO
Estimate IMP / BMP drainage area included on site: 2.53 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay:NO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 1	Site ID: MARY	Catchment ID: BB11

IMP / E	BMP SUMI	MARY		
WQ_v (provided): Area Treated (ac):		Undetermined	Re _v (provided): 0.0	000
		2.53	Impervious Area Treated (ac): 2	.53
Photo	graphs			
No.	861	Des	scription: grass discharge	
No.	862	Des	scription: landscaped discharge	
No.		Des	scription:	
No.		Des	scription:	
No.		Des	scription:	
No.		Des	scription:	
No.		Des	scription:	
No.		Des	scription:	
Comm	nents	Rain barrels/cisterns a	s well as planter boxes will be installed as space allows.	





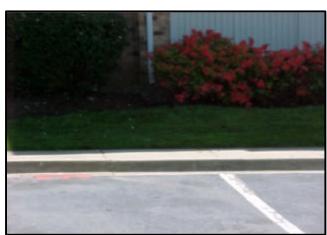
IMP / BMP ID: 2	Site ID: MARY	Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 45
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ✓ YES NO
Area Accessible for Maintenance: VYES NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: TYES NO
Conservation Easement Impacted: TYES NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☐ Other
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities:
Critical Area Impacted: YES NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: VES NO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No
Estimate IMP / BMP drainage area included on site: 2.53 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay:NO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: TYES NO
Excavation / Raise the Embankment:

IMI	P / BMP ID: 2	Site ID: MARY	Catchment ID: BB11

IMP / E	BMP SUMN	//ARY			
WQ _v (p	rovided):	Undetermined		Re _v (provided):	0.000
Area Treated (ac):		2.53		Impervious Area Treated (ac):	2.53
Photo	graphs				
No.	861		Description:	grass discharge	
No.	862		Description:	landscaped discharge	
No.			Description:		
No.			Description:		
No.			Description:		
No.			Description:		
No.			Description:		
No.			Description:		
Comm	nents	Planter boxes as we	ell as rain barı	rels/cisterns will be installed as space allows.	





IMP / BMP I	D: 3 Site	e ID: MARY (Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 40
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1):
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: VYES NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted:
Conservation Easement Impacted: TYES NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☐ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound
Critical Area Impacted: YES NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: VES NO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site:acacac
Retrofit of Existing SWM BMP
SDI ID: Add Forebay:NO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BM	P ID: 3	Site ID: MARY	Catchment ID: BB11	

IMP /	BMP SUMMARY		
WQ _v (p	orovided):	0.020	Re _v (provided): 0.003
Area T	reated (ac):	0.37	Impervious Area Treated (ac): 0.24
Photo	graphs		
No.	876	Description:	looking north
No.	870	Description:	looking south
No.		Description:	
Comn	nents		
IMP Si	ze = 2,467 sq ft		





IMF	P / BMP ID: 4	Site ID: MARY	Catchment ID: BB11

New LID IMP \square SWM BMP Retrofit \square New	SWM BMP ☐ Type (Sheets 4 & 5): <u>39</u>	
State Plane Coordinates of IMP / BMP Centroid:	X:Y:	
Sketch Location of Footprint (with Approximate Dime	nsions) and Drainage Boundary on Site Map	
Identify all Impairments Addressed by Recommendat	tion (Sheet 1): <u>1, 2, 3, 4, 7, 16</u>	
Treatment Area Ownership: Transportation ROW Other	Utility ROW County Other Government Priva	ate
Infrastructure / Structures / Buildings Impacted:	YES INO	
Limited Impact to Adjacent Properties: ✓ YES N	10	
Area Accessible for Construction: ✓ YES NO		
Area Accessible for Maintenance: ☑ YES ☐ NO		
Limited Permitting Issues: ✓ YES ☐ NO		
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO		
Forest Retention Area Impacted: ☐ YES ☑ NO		
Conservation Easement Impacted: ☐ YES ☑ NO		
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Tele	lephone	
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Tele	lephone	
Impacted Utilities: ☐ Above Gound ☑ Underground		
Critical Area Impacted: ☐ YES ☑ NO		
Mature / Specimen Trees Impacted: ☐ YES ☑ NO		
Existing Landscaping Impacted:		
Underdrain Needed: ☐YES ☑NO Unde	erdrains Can Discharge: 🗹 YES 🔲 NO	
Soils are Suitable: ☑ YES ☐ NO Grou	ınd Water Table Level Suitable: ☑YES ☐NO	
Estimate IMP / BMP drainage area included on site:	<u>0.04</u> ac <u>10</u>	00%
Retrofit of Existing SWM BMP		
SDI ID:	Add Forebay: ☐YES ☐NO	
Modify Outlet Stucture: ☐ YES ☐ NO	Add Aquatic Bench: ☐ YES ☐ NO	
Grade Bottom of Facility: ☐ YES ☐ NO	Plant Native Vegetation: ☐ YES ☐ NO	
Provide Additional Storage Volume: ☐ YES ☐ NO		
Excavation / Raise the Embankment:	NO	

IMP	/ BMP ID: 4	Site ID: MARY	Catchment ID: BB11

0.003	Re _v (provided): 0.001
0.04	Impervious Area Treated (ac): 0.03
Description:	looking south
Description:	
eats 38% of the drainage a	
	Description:



875

IMP / BMP ID: 5	Site ID: MARY	Catchment ID: BB11

New LID IMP ☑ SWM BMP Retrofit □ New SWM BMP □ Type (Sheets 4 & 5): 39
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ☑YES ☐NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: VES NO
Conservation Easement Impacted: ☐ YES ☑ NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☑ Water ☑ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound Underground
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site: 0.04 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 5	Site ID: MARY	Catchment ID: BB11

IMP/BMP	SUMMARY		
WQ _v (provide	ed):	0.030	Re _v (provided): 0.001
Area Treated	d (ac):	0.04	Impervious Area Treated (ac): 0.04
Photograph	hs		
No. <u>87</u>	'4	Description:	looking south
No		Description:	
Comments IMP size = 2		reats 34% of the drainage a	area



874

IMP / BMP ID: 6	Site ID: MARY	Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 39
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ✓ YES NO
Jurisdictional Wetlands Impacted: ☐YES ☑NO
Forest Retention Area Impacted: ☐ YES ☑ NO
Conservation Easement Impacted: ☐YES ☑NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☑ Water ☑ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound Underground
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site:acac100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 6 Site ID: MARY Catchment ID: BB11
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IMP / B	MP SUMMAR	RY		
WQ _v (pr	ovided):	0.003	Re _v (provided):	0.001
Area Treated (ac): 0.04		0.04	Impervious Area Treated (ac): _	0.03
Photog	ıraphs			
No.	873	Description:	looking south	
No.		Description:		
Commo	ents <u>IMI</u> e = 226 sq ft	P treats 55% of the drainage a	area	

Catchment ID: BB11

UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 3 -- Opportunities and Constraints of Potential Management Practice



IMP / BMP ID: 7	Site ID: MARY	Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 39
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ✓ YES NO
Jurisdictional Wetlands Impacted: ☐YES ☑NO
Forest Retention Area Impacted: ☐ YES ☑ NO
Conservation Easement Impacted: ☐YES ☑NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☑ Water ☑ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound Underground
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site:acac100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 7 Site ID: MARY Catchment ID: BB11
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IMP/	BMP SUMMARY		
WQ _v (provided): 0.018		0.018	Re _v (provided): 0.002
Area T	reated (ac):	0.37	Impervious Area Treated (ac): 0.22
Photo	graphs		
No.	871	Description:	looking south
No.	872	Description:	looking north
No.		Description:	
Comn	nents		
IMP si	ze = 1,642 sq ft		





IMP / BMP ID: 8	Site ID: MARY	Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 39
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ✓ YES NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted: ☐ YES ☑ NO
Conservation Easement Impacted: ☐ YES ☑ NO
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☑ Water ☑ Sewer ☐ Other
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities: Above Gound Underground
Critical Area Impacted: ☐ YES ☑ NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted:
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO
Estimate IMP / BMP drainage area included on site: 0.18 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 8	Site ID: MARY	Catchment ID: BB11

IMP / I	BMP SUMMAR	Y	
WQ _v (p	orovided):	0.010	Re _v (provided): 0.001
Area T	reated (ac):	0.18	Impervious Area Treated (ac): 0.13
Photo	graphs		
No.	877	Description:	looking south
No.	878	Description:	looking north
No.		Description:	
Comn IMP siz	nents IMP ze = 897 sq ft	treats 46% of the drainage a	irea





IMP / BMP ID: 9	Site ID: MARY	Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41
State Plane Coordinates of IMP / BMP Centroid: X: Y:
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map
Identify all Impairments Addressed by Recommendation (Sheet 1):
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction: ☑ YES ☐ NO
Area Accessible for Maintenance: ☑ YES ☐ NO
Limited Permitting Issues: ☑ YES ☐ NO
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO
Forest Retention Area Impacted:
Conservation Easement Impacted: TYES INO
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other
Impacted Utilities:
Critical Area Impacted: YES NO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: YES NO
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No
Estimate IMP / BMP drainage area included on site: 0.07 ac 100%
Retrofit of Existing SWM BMP
SDI ID: Add Forebay: DNO
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO
Provide Additional Storage Volume: YES NO
Excavation / Raise the Embankment:

IMP / BMP ID: 9	Site ID: MARY	Catchment ID: BB11

IMP / BMP SUMMARY				
WQ _v (provided):	0.004	Re _v (provided):		
Area Treated (ac):	0.07	Impervious Area Treated (ac):		
Photographs				
No. <u>869</u>	Description:	looking southeast		
No	Description:			
Comments				



869

Catchment ID: BB11

IMP / BMP ID: 10 Site ID: MARY Catchment ID: BB11

New LID IMP \square SWM BMP Retrofit \square New	SWM BMP □	Type (Sheets 4 & 5):	39
State Plane Coordinates of IMP / BMP Centroid:	X:	Y	
Sketch Location of Footprint (with Approximate Dime	nsions) and Drainage	Boundary on Site M	lap
Identify all Impairments Addressed by Recommendat	ion (Sheet 1): 1,	2, 3, 4, 7, 16	
Treatment Area Ownership: Transportation ROW Other	Utility ROW County	Other Government	✓ Private
Infrastructure / Structures / Buildings Impacted:	YES VNO		
Limited Impact to Adjacent Properties: ✓ YES □ N	0		
Area Accessible for Construction: ✓ YES NO			
Area Accessible for Maintenance: ☑ YES ☐ NO			
Limited Permitting Issues: ✓ YES ☐ NO			
Jurisdictional Wetlands Impacted: ☐ YES ✓ NO			
Forest Retention Area Impacted: ☐ YES ☑ NO			
Conservation Easement Impacted: ☐ YES ✓ NO			
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☐ Tele	ephone 🗌 Cable 🔽 Wate	er Sewer Other	
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☐ Tele	ephone 🗌 Cable 🔲 Wate	er Sewer Other	
Impacted Utilities: ☐ Above Gound ☑ Underground			
Critical Area Impacted: ☐ YES ☑ NO			
Mature / Specimen Trees Impacted: ☐ YES ☑ NO			
Existing Landscaping Impacted: YES VO			
Underdrain Needed: ☐YES ☑NO Unde	rdrains Can Discharg	je: ✓YES □NO	
Soils are Suitable: ☑ YES ☐ NO Grou	nd Water Table Leve	I Suitable: ☑ YES	□NO
Estimate IMP / BMP drainage area included on site:	<u>0.25</u> ac	;	100%
Retrofit of Existing SWM BMP			
SDI ID:	Add Forebay:	YES NO	
Modify Outlet Stucture: ☐ YES ☐ NO	Add Aquatic Bench	YES NO	
Grade Bottom of Facility: ☐ YES ☐ NO	Plant Native Vegeta	ation: YES NO	
Provide Additional Storage Volume: ☐ YES ☐ NO			
Excavation / Raise the Embankment:	IO		

IMP / BMP ID: 10 Site ID: MARY Catchment ID: BB11

IMP / E	BMP SUMMARY			
		0.015	Re _v (provided):	0.002
		0.25	Impervious Area Treated (ac):	
Photo	graphs			
No.	868	_ Description:	looking east	
No.		Description:		
No.		Description:		
No.		Description:		
No.		_ Description:		
No.		_ Description:		
No.		_ Description:		
No.		_ Description:		
Comm	nents			
	ze = 1,478 sq ft			



868

IMP / BMP ID: 11 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 43				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16				
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other				
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO				
Limited Impact to Adjacent Properties: ☐ YES ☑ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: ☑ YES ☐ NO				
Limited Permitting Issues: ✓ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐YES ☑NO				
Forest Retention Area Impacted: ☐ YES ☑ NO				
Conservation Easement Impacted: ☐ YES ☑ NO				
Utilities Present: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☐ Other				
Utilities Impacted: ☐ None ☐ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☐ Water ☐ Sewer ☐ Other				
Impacted Utilities: Above Gound Underground				
Critical Area Impacted: ☐ YES ☑ NO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted:				
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: ☑YES ☐NO Ground Water Table Level Suitable: ☑YES ☐NO				
Estimate IMP / BMP drainage area included on site:acac95%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay: DNO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 11 Site ID: MARY Catchment ID: BB11

IMP /	BMP SUMMARY			
WQ _v (provided): Area Treated (ac):		0.060	Re _v (provided):	0.007
		1.15	Impervious Area Treated (ac):	
Photo	ographs			
No.	887	Description:	looking east	
No.	888	Description:	looking west	
No.	889	Description:	looking south	
No.		Description:		
Comn	nents			
IMP si	ze = 5,570 sq ft			





887 888



889

IMP / BMP ID: 12 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1):				
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other				
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: ☑ YES ☐ NO				
Limited Permitting Issues: ☑ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO				
Forest Retention Area Impacted:				
Conservation Easement Impacted: TYES INO				
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: None Natural Gas Electric Telephone Cable Water Sewer Other				
Impacted Utilities:				
Critical Area Impacted: YES NO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted: YES NO				
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No				
Estimate IMP / BMP drainage area included on site: 1.07 ac 100%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay: DNO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 12 Site ID: MARY Catchment ID: BB11

IMP / BN	MP SUMMARY			
WQ _v (provided): Area Treated (ac):		0.067	Re _v (provided):	0.000
		1.07	Impervious Area Treated (ac): _	0.82
Photogr	aphs			
No.	879	Description:	looking southwest	
No.		Description:		
Comme	nts			



879

IMP / BMP ID: 13 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1):				
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other				
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: ☑ YES ☐ NO				
Limited Permitting Issues: ☑ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO				
Forest Retention Area Impacted:				
Conservation Easement Impacted:				
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Impacted Utilities:				
Critical Area Impacted: ☐ YES ☑ NO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted:				
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No				
Estimate IMP / BMP drainage area included on site: 1.00 ac 100%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay:NO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 13 Site ID: MARY Catchment ID: BB11

IMP / BMP SUMMARY			
WQ _v (provided):	0.058	Re _v (provided):	0.000
Area Treated (ac):	1.00	Impervious Area Treated (ac):	0.72
Photographs			
No. <u>880</u>	Description:	looking southwest	
No.	Description:		
No	Description:		
No.	Description:		
No	Description:		
Comments			
			-



880

IMP / BMP ID: 14 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1): 4				
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other				
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: VYES NO				
Limited Permitting Issues: ☑ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO				
Forest Retention Area Impacted:				
Conservation Easement Impacted: TYES NO				
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: None Natural Gas Electric Telephone Cable Water Sewer Other				
Impacted Utilities:				
Critical Area Impacted: YES NO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted: YES NO				
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No				
Estimate IMP / BMP drainage area included on site: 0.46 ac 100%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay: DNO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 14 Site ID: MARY Catchment ID: BB11

IMP / BMP SUMMARY	<u> </u>		
WQ _v (provided):	0.027	Re _v (provided):	0.000
Area Treated (ac):	0.46	Impervious Area Treated (ac):	
Photographs			
No. <u>881</u>	Description:	looking southwest	
No	Description:		
Comments			



881

IMP / BMP ID: 15 Site ID: MARY Catchment ID: BB11

New LID IMP ■ SWM BMP Retrofit ■ New SWM BMP ■ Type (Sheets 4 & 5): 41				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1):				
Treatment Area Ownership: Transportation ROW Utility ROW County Other Government Private				
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: ☑ YES ☐ NO				
Limited Permitting Issues: ☑ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO				
Forest Retention Area Impacted:				
Conservation Easement Impacted: TYES INO				
Utilities Present: ✓ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Impacted Utilities: Above Gound Underground				
Critical Area Impacted: YES VNO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted: TYES NO				
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No				
Estimate IMP / BMP drainage area included on site: 0.42 ac 100%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay:NO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 15 Site ID: MARY Catchment ID: BB11

IMP/BMPS	SUMMARY			
WQ _v (provided): Area Treated (ac):		0.023	Re _v (provided):	0.000
		0.42	Impervious Area Treated (ac):	
Photograph	าร			
No. <u>88</u> 2	2	Description:	looking southeast	
No		Description:		
Comments				
-				
-				



882

IMP / BMP ID: 16 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 43				
State Plane Coordinates of IMP / BMP Centroid: X: Y:				
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16				
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other				
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO				
Limited Impact to Adjacent Properties: ☑ YES ☐ NO				
Area Accessible for Construction: ☑ YES ☐ NO				
Area Accessible for Maintenance: ☑ YES ☐ NO				
Limited Permitting Issues: ✓ YES ☐ NO				
Jurisdictional Wetlands Impacted: ☐YES ☑NO				
Forest Retention Area Impacted: ☐ YES ☑ NO				
Conservation Easement Impacted: ☐YES ☑NO				
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other				
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other ☐				
Impacted Utilities: Above Gound Underground				
Critical Area Impacted: ☐ YES ☑ NO				
Mature / Specimen Trees Impacted: ☐ YES ☑ NO				
Existing Landscaping Impacted:				
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: ☑YES ☐NO Ground Water Table Level Suitable: ☑YES ☐NO				
Estimate IMP / BMP drainage area included on site: 0.43 ac 100%				
Retrofit of Existing SWM BMP				
SDI ID: Add Forebay: DNO				
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO				
Excavation / Raise the Embankment:				

IMP / BMP ID: 16 Site ID: MARY Catchment ID: BB11

IMP/	BMP SUMMAI	RY	
WQ _v (provided): 0.021 Area Treated (ac): 0.43		0.021	Re _v (provided): 0.002
		0.43	Impervious Area Treated (ac): 0.25
Photo	graphs		
No.	866	Description:	looking west
No.	865	Description:	looking east
No.		Description:	
Comn IMP si	nents <u>IM</u> ze = 1,826 sq ft	P treats 41% of the drainage a	area





865 866

IMP / BMP ID: 17 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM	I BMP □ Type (Sheets 4 & 5): <u>43</u>				
State Plane Coordinates of IMP / BMP Centroid:	X:Y:				
Sketch Location of Footprint (with Approximate Dimension	s) and Drainage Boundary on Site Map				
Identify all Impairments Addressed by Recommendation (S	Sheet 1): <u>1, 2, 3, 4, 7, 16</u>				
Treatment Area Ownership: Transportation ROW Utility	y ROW County Other Government Private				
Infrastructure / Structures / Buildings Impacted:	☑ NO				
Limited Impact to Adjacent Properties: ☑YES ☐NO					
Area Accessible for Construction: ✓ YES NO					
Area Accessible for Maintenance: ✓ YES □ NO					
Limited Permitting Issues: ☑YES ☐NO					
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO					
Forest Retention Area Impacted: YES NO					
Conservation Easement Impacted: ☐ YES ☑ NO					
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone	Cable Water Sewer Other				
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone	Cable Water Sewer Other				
Impacted Utilities:					
Critical Area Impacted: ☐ YES ☑ NO					
Mature / Specimen Trees Impacted: ☐ YES ☑ NO					
Existing Landscaping Impacted:					
Underdrain Needed: ☐YES ☑NO Underdrain	ns Can Discharge: ☑ YES ☐ NO				
Soils are Suitable: ☑ YES ☐ NO Ground W	/ater Table Level Suitable: ☑ YES ☐ NO				
Estimate IMP / BMP drainage area included on site:	<u>0.51</u> ac <u>100%</u>				
Retrofit of Existing SWM BMP					
SDI ID: Add	d Forebay: ☐ YES ☐ NO				
Modify Outlet Stucture: ☐YES ☐NO Add	d Aquatic Bench: ☐ YES ☐ NO				
Grade Bottom of Facility:	nt Native Vegetation: ☐ YES ☐ NO				
Provide Additional Storage Volume: TYES NO					
Excavation / Raise the Embankment:					

IMP / BMP ID: 17 Site ID: MARY Catchment ID: BB11

0.023	Re _v (provided): 0.003
0.51	Impervious Area Treated (ac):0.28
Description:	looking west
Description:	looking east
Description:	
eats 75% of the drainage a	ırea
	Description: Description: Description: Description: Description: Description: Description: Description: Description:





863 864 IMP / BMP ID: 18 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 38					
State Plane Coordinates of IMP / BMP Centroid: X: Y:					
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map					
Identify all Impairments Addressed by Recommendation (Sheet 1): 1, 2, 3, 4, 7, 16					
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other					
Infrastructure / Structures / Buildings Impacted: ☐ YES ☑ NO					
Limited Impact to Adjacent Properties: ☐ YES ☑ NO					
Area Accessible for Construction: ☑ YES ☐ NO					
Area Accessible for Maintenance: ☑ YES ☐ NO					
Limited Permitting Issues: ☑ YES ☐ NO					
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO					
Forest Retention Area Impacted: VES NO					
Conservation Easement Impacted: ☐YES ☑NO					
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Impacted Utilities: Above Gound Underground					
Critical Area Impacted: ☐ YES ☑ NO					
Mature / Specimen Trees Impacted: ☐ YES ☑ NO					
Existing Landscaping Impacted:					
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☐ YES ☑ NO					
Soils are Suitable: ☑ YES ☐ NO Ground Water Table Level Suitable: ☑ YES ☐ NO					
Estimate IMP / BMP drainage area included on site: 0.45 ac 95%					
Retrofit of Existing SWM BMP					
SDI ID: Add Forebay: DNO					
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO					
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO					
Provide Additional Storage Volume: TYES NO					
Excavation / Raise the Embankment:					

IMP / BMP ID: 18 Site ID: MARY Catchment ID: BB11

IMP / I	BMP SUMMARY			
WQ _v (provided): 0.030		0.030	Re _v (provided):	0.002
Area T	reated (ac):	0.48	Impervious Area Treated (ac):	0.37
Photo	graphs			
No.	885	Description:	looking east	
No.	886	Description:	looking west	
No.		Description:		
Comn IMP siz	nents IMP to ze = 2,590 sq ft	reats 96% of the drainage a	ırea	





885 886

IMP / BMP ID: 19 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41					
State Plane Coordinates of IMP / BMP Centroid: X: Y:					
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map					
Identify all Impairments Addressed by Recommendation (Sheet 1): 4					
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other					
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO					
Limited Impact to Adjacent Properties: ☑ YES ☐ NO					
Area Accessible for Construction: ✓ YES □ NO					
Area Accessible for Maintenance: VYES NO					
Limited Permitting Issues: ☑ YES ☐ NO					
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO					
Forest Retention Area Impacted:					
Conservation Easement Impacted: TYES NO					
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Impacted Utilities:					
Critical Area Impacted: YES NO					
Mature / Specimen Trees Impacted: ☐ YES ☑ NO					
Existing Landscaping Impacted: YES NO					
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO					
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No					
Estimate IMP / BMP drainage area included on site: 0.48 ac 100%					
Retrofit of Existing SWM BMP					
SDI ID: Add Forebay: DNO					
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO					
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO					
Provide Additional Storage Volume: YES NO					
Excavation / Raise the Embankment:					

IMP / BMP ID: 19 Site ID: MARY Catchment ID: BB11

IMP / BI	MP SUMMARY			
WQ _v (provided): 0.028 Area Treated (ac): 0.48		0.028	Re _v (provided):	0.000
		0.48	Impervious Area Treated (ac):	0.35
Photogi	raphs			
No.	883	Description:	looking east	
No.		Description:		
No.		Description:		
No.	-	Description:		
No.		Description:		
Comme	nts			



883

IMP / BMP ID: 20 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41					
State Plane Coordinates of IMP / BMP Centroid: X: Y:					
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map					
Identify all Impairments Addressed by Recommendation (Sheet 1): 4					
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other					
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO					
Limited Impact to Adjacent Properties: ☑ YES ☐ NO					
Area Accessible for Construction: ☑ YES ☐ NO					
Area Accessible for Maintenance: VYES NO					
Limited Permitting Issues: ☑ YES ☐ NO					
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO					
Forest Retention Area Impacted:					
Conservation Easement Impacted: TYES NO					
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Impacted Utilities:					
Critical Area Impacted: YES NO					
Mature / Specimen Trees Impacted: ☐ YES ☑ NO					
Existing Landscaping Impacted: YES NO					
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO					
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No					
Estimate IMP / BMP drainage area included on site: 0.46 ac 100%					
Retrofit of Existing SWM BMP					
SDI ID: Add Forebay: DNO					
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO					
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO					
Provide Additional Storage Volume: TYES NO					
Excavation / Raise the Embankment:					

IMP / BMP ID: 20 Site ID: MARY Catchment ID: BB11

IMP/B	MP SUMMARY			
WQ _v (provided): Area Treated (ac):		0.028	Re _v (provided):	0.000
		0.46	Impervious Area Treated (ac):	
Photog	ıraphs			
No.	884	_ Description:	looking west	
No.		Description:		
No.		Description:		
No.		Description:		
No.		_ Description:		
No.		_ Description:		
No.		_ Description:		
No.		Description:		
Comme	ents			



884

IMP / BMP ID: 21 Site ID: MARY Catchment ID: BB11

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41					
State Plane Coordinates of IMP / BMP Centroid: X: Y:					
Sketch Location of Footprint (with Approximate Dimensions) and Drainage Boundary on Site Map					
Identify all Impairments Addressed by Recommendation (Sheet 1):					
Treatment Area Ownership: ☐ Transportation ROW ☐ Utility ROW ☐ County ☐ Other Government ☑ Private ☐ Other					
Infrastructure / Structures / Buildings Impacted: ☑ YES ☐ NO					
Limited Impact to Adjacent Properties: ☑ YES ☐ NO					
Area Accessible for Construction: ☑ YES ☐ NO					
Area Accessible for Maintenance: ☑ YES ☐ NO					
Limited Permitting Issues: ☑ YES ☐ NO					
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO					
Forest Retention Area Impacted:					
Conservation Easement Impacted: TYES INO					
Utilities Present: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Utilities Impacted: ☑ None ☐ Natural Gas ☐ Electric ☐ Telephone ☐ Cable ☐ Water ☐ Sewer ☐ Other					
Impacted Utilities:					
Critical Area Impacted: YES NO					
Mature / Specimen Trees Impacted: ☐ YES ☑ NO					
Existing Landscaping Impacted: YES NO					
Underdrain Needed: ☑ YES ☐ NO Underdrains Can Discharge: ☑ YES ☐ NO					
Soils are Suitable: Tes No Ground Water Table Level Suitable: Tes No					
Estimate IMP / BMP drainage area included on site: 0.51 ac 100%					
Retrofit of Existing SWM BMP					
SDI ID: Add Forebay: DNO					
Modify Outlet Stucture: ☐ YES ☐ NO Add Aquatic Bench: ☐ YES ☐ NO					
Grade Bottom of Facility: ☐ YES ☐ NO Plant Native Vegetation: ☐ YES ☐ NO					
Provide Additional Storage Volume: TYES NO					
Excavation / Raise the Embankment:					

IMP / BMP ID: 21 Site ID: MARY Catchment ID: BB11

IMP / BMP SUMN	MARY		
WQ_v (provided):	0.031	Re _v (provided):	0.004
Area Treated (ac):	0.51	Impervious Area Treated (ac): _	0.38
Photographs			
No. <u>867</u>	Description:	looking east	
No	Description:		
Comments			



867

Catchment ID: BB11