

Catchment ID: UT05

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

Subwatershed: Unnamed Tributary				
Location of Catchment Centroid on ADC Map:	Year: 2000	Page: <u>17</u>	Grid: J8	
State Plane Coordinates of Outfall Location:	X: <u>1397866</u>	Y:	481400	
Closest Road Intersection to Outfall: Priest Brid	dge Road and Espey Cou	rt		
Outfall SDI ID or Outfall Description: unknown				
Objective: Demonstration / Impairment(s) (She	et 1)			
Drainage Area (ac): 3.7	_ Impervious Area	(ac): <u>3.3</u>		
Percent Impervious: 89%	Soil Recharge Fa	actor (S): 0.38		
WQ _v (required): 0.26	Re _v (required): 0	.10		
Predominant Land Use: commercial	_ Mean Depth to G	Ground Water:	unknown	
Sanitary System: Septic Municipal Sewer	Water Supply:	On Site Well	Public Water	
Storm Drainage System Within Catchme	ent			
Piped:Open Channels	0%			
Area Drained by System: 100%				
Location in Catchment: Headwaters Midd	dle Lower 🗸 All			
Open Channel Lining- Vegetation: 0%	Riprap: 0%	Concrete: 0%	Other: 0%	6
Existing IMP(s) / BMP(s)				
SDI ID: Type (number from Sh	neets 4 & 5):	Age:	_	
Closest Road Intersection to IMP / BMP:				
Catchment Area Treated (ac) :	Percentage C	Catchment Treated:		
WQ _v Provided: YES NO Re _v Prov	ided: YES NO	C _p Provided:	YES NO	
SDI ID: Type (number from Sh	neets 4 & 5):	Age:	_	
Closest Road Intersection to IMP / BMP:				
Catchment Area Treated (ac) :	Percentage C	Catchment Treated:		
WQ_v Provided: \square YES \square NO Re_v Prov	rided: YES NO	C _p Provided:	YES NO	
SDI ID: Type (number from Sh	neets 4 & 5):	Age:	_	
Closest Road Intersection to IMP / BMP:				
Catchment Area Treated (ac) :	Percentage C	Catchment Treated:		
WQ_v Provided: \square YES \square NO Re_v Prov	rided: YES NO	C _p Provided:	YES NO	

Catchment ID: UT05

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

CATCHMENT SUM	MARY		
WQ _v (provided):	0.146	Re _v (provided) :	0.084
Area Treated (ac):	3.19	Impervious Area Treated (ac):	2.89
Area Treated (%):	86%	Impervious Area Treated (%):	88%
Comments			

Site ID: <u>32</u> Catchment ID: <u>UT05</u>

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

Site Name:		Address: 2	2145 and	2147 Pries	st Bridge Roa	ad
Site Owner:						
State Plane Coordinates of Site Centroid:	X:	1398004	,	Y: <u>481</u>	1 <u>69</u> Da	ate: <u>5/28/03</u>
Personnel: PM		Weather: _	rain, 60F	deg		
Area (ac): 3.6		Impervious A	rea (ac):		3.3	
Percent Impervious: 90%	_	Soil Recharge	e Factor	(S):	0.38	ı
WQ _v (required): 0.26	_	Re _v (required	l):	0.1		
Property Area (ac): 6.3		Property Area	a Include	d in Site:	57%	1
Amount of Catchment Occupied by Site:	97%					
Storm Drainage System Within Site						
Piped:Open Channels:	0%	Area	a Drained	by Syste	em: <u>10</u> 0	0%_
Open Channel Lining - Vegetation: 0%	Riprap:	0%	Concret	:e:	<u>0%</u> Oth	ner: 0%
Existing IMP(s) / BMP(s) (Indentified	on Page 1	I, FORM 1, Ca	atchment	t Informat	ion)	
SDI ID:	Condition	n: Excellent [Good	Average	e 🗌 Fair	Poor
SDI ID:	Condition	n: Excellent	Good	Average	e Fair	Poor
SDI ID:	Condition	n: Excellent	Good	Average	e Fair	Poor
Site Information						
Type of Pavement:	crete	Gravel Gr	id Pavers	Other		
Pavement Condition:	Good	✓ Average	Fair	Poor		
Underdrains can be easily directed to exis	ting storm	drains or day	/lighted:	✓ YE	s 🗌 N	0
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 🗸 Av	verage [Limited	None
Steep Slopes Present:	Moderat	e Average	Limit	ed 🗸	None	
Existing Landscaping:	Moderat	e 🗸 Average	Limit	ed	None	
Mature / Specimen Trees:	Moderat	e 🗸 Average	Limit	ed	None	
Area Available for Aboveground BMPs:	Exten	sive Modera	ate A	verage [✓ Limited	None
Existing Cover of Potential Aboveground E	BMP Loca	_	Grass ✓ L Pavement	Landscaped Other	Gravel [Other Pervious

Site ID: 32 Catchment ID: UT05

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

Comr	mercial / Insti	tutional					
Islands Present: ☑ YES ☐ NO Curb Present Around Island: ☑ YES				✓ YES			
Ground Level of Island Relative to Pavement:							
Island	Sland Landscaping: Impervious Bare Earth Gravel Gravel Grass Mulch Herbaceous Plants Shrubs Trees (<2 in. DBH) Trees (2 - 6 in. DBH) Trees (>6 in. DBH)						
Trees	have sufficient	spacing to allow IMPs	✓ YES NO				
Parkin	g area that can	be directed to potential t	reatment area with little grading:	60%			
SITE	SUMMARY						
WQ _v (provided):	0.146	Re _v (provided):	0.084			
Area 1	reated (ac):	3.19	Impervious Area Treated (ac):	2.89			
Area 1	reated (%):	89%	Impervious Area Treated (%):	88%			
Photo	ographs	Description: look	ring couth along cost side of property				
No.	144	·	ring south along east side of property				
	145	·	king west along north side of property	_			
No.	146	·	ring west between buildings				
No.	147	·	king west along south side of property	_			
No.	148	·	ring north along east side of property				
No.	149	·	king north along west side of property				
No.	150	·	ing east along south side of property				
No.	151	·	king east between buildings				
No.	152	·	king south along west side of property				
No.	153	Description: <u>look</u>	ring east along north side of property	_			
Comr		•	paved area to be converted from parking	·			
		•	al between 2145 and 2147 is reserved for flee	et parking and			
	employees. There is a great deal of truck traffic.						
				_			
				_			

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





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Site ID: 32 Catchment ID: UT05

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





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IMP / BMP ID: 1	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ✓ New	SWM BMP □	Type (Sheets 4 & 5):	roof gardens
State Plane Coordinates of IMP / BMP Centroid:	X: varies	Y:	varies
Sketch Location of Footprint (with Approximate Dimer	nsions) and Drainage	Boundary on Site Ma	ар
Identify all Impairments Addressed by Recommendati	on (Sheet 1):		
Treatment Area Ownership: Transportation ROW Other	Utility ROW County	y Other Government	✓ Private
Infrastructure / Structures / Buildings Impacted:	YES VNO		
Limited Impact to Adjacent Properties:	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:	ephone Cable Wat	ter Sewer Other	
Utilities Impacted: ✓ None ☐ Natural Gas ☐ Electric ☐ Tel	ephone Cable Wat	ter Sewer Other	
Impacted Utilities: Above Gound Underground			
Critical Area Impacted: ☐ YES ☑ NO			
Mature / Specimen Trees Impacted:			
Existing Landscaping Impacted:			
Underdrain Needed: ☐ YES ☑ NO Unde	erdrains Can Discharç	ge: □YES □NO	
Soils are Suitable: YES NO Grou	nd Water Table Leve	el Suitable:	□NO
Estimate IMP / BMP drainage area included on site:	<u>1.11</u> a	С	100%
Retrofit of Existing SWM BMP			
SDI ID:	Add Forebay:	YES NO	
Modify Outlet Stucture: ☐ YES ☐ NO	Add Aquatic Bench	i: YES NO	
Grade Bottom of Facility: ☐ YES ☐ NO	Plant Native Vegeta	ation: YES NO	
Provide Additional Storage Volume: ☐ YES ☐ NO			
Excavation / Raise the Embankment:	NO		

IMP / BMP ID: 1	Site ID:	32	Catchment ID: UT05

IMP / BMP SUMI	MARY			
WQ _v (provided):	unknown	_	Re _v (provided):	0.000
Area Treated (ac):	1.11		Impervious Area Treated (ac):	1.11
Photographs				
No. <u>158</u>		Description:	building 2145 ("a")	
No. <u>160</u>		Description:	building 2147 ("b")	
No		Description:		
No.		Description:		
No		Description:		
No.		Description:		
No.		Description:		
No.		Description:		
Comments Location of IMPs:		-	on of both green roofs.	
1a: X=1397916, Y= 1b: X=1397975, Y=				
IMP size = $48,197$				
0.20 .0,101	7 T 11			





IMP / BMP ID: 2	Site ID:	32	Catchment ID: UT05	

New LID IMP ☑ SWM BMP Retrofit □ New SWM BMP □ Type (Sheets 4 & 5): 60
State Plane Coordinates of IMP / BMP Centroid: X: varies Y: varies
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:
Limited Impact to Adjacent Properties: ☑ YES ☐ NO
Area Accessible for Construction:
Area Accessible for Maintenance: VES NO
Limited Permitting Issues: VES NO
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present: None Natural Gas
Utilities Impacted:
Impacted Utilities: Above Gound Underground
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: YES VO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: VES NO Ground Water Table Level Suitable: VES NO
Estimate IMP / BMP drainage area included on site: 0.22 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 2	Site ID:	32	Catchment ID: UT05

IMP / BMP SUMMA	RY		
WQ _v (provided):	0.017	Re _v (provided):	0.017
Area Treated (ac):	0.22	Impervious Area Treated (ac):	0.22
Photographs			
No. <u>171</u>	Description	: looking east	
No. <u>159</u>	Description	: looking west	
No.	Description	: .	
No.	 Description	:	
No.	Description	:	
No.	 Description	:	
No.	 Description	:	
No.	 Description	:	
Comments Pa	arking spaces are at a premi	um. Access is needed to the loading docks.	
Previous island is loca	ated between "2a" and "2b".	The area cannot be used because of	
	and telephone junction.		
Location of IMPs:			
2a: X=1397909, Y=48			
2b: X=1398047, Y=48		and Oh	
	hows combined results for 2a	a and 2D.	
IMP size = $9,360$ sq ft			





IMP / BMP ID: 3	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397870 Y: 481414
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted:
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: 0.24 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 3	Site ID:	32	Catchment ID: UT05	

IMP / BMP SUM	MARY		
WQ _v (provided):	0.016	Re _v (provided): 0.0)16
Area Treated (ac):	0.24	Impervious Area Treated (ac):0	.18
Photographs			
No. <u>154</u>	Description:	looking north	
No. <u>155</u>	Description:	looking west	
No	Description:		
Comments IMP size = 1,323 s	Configure bioretention area to mi	nimize disturbance to trees.	





IM	P / BMP ID: 4	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397740 Y: 481353
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues: VES NO
Jurisdictional Wetlands Impacted: YES VO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted:
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: 0.21 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:
Excavation / Raise the Embankment:

|--|

IMP/BN	IP SUMN	MARY		
WQ _v (prov	vided):	0.014	Re _v (provided):	0.014
Area Trea	ated (ac):	0.21	Impervious Area Treated (ac):	0.17
Photogra	aphs			
No.	174	Description:	looking north	
No.	175	Description:	looking east	
No.	176	Description:	looking west	
No.		Description:		
Commer		Configure bioretention area to mi	nimize disturbance to trees.	







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IMP / BMP ID: 5	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397772 Y: 481171
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: YES 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: 0.16 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 5	Site ID:	32	Catchment ID: UT05

IMP / BMP SUMMARY		
WQ _v (provided):	0.011	Re _v (provided): 0.011
Area Treated (ac):	0.14	Impervious Area Treated (ac): 0.14
Photographs		
No. <u>172</u>	Description:	looking north
No. <u>173</u>	Description:	looking west
No	Description:	
No	Description:	
No.	Description:	
be used for parking. Max		dumpster sotrage and is marked off so as not to equivalent to 5 parking spots.





IMP / BMP ID: 6	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397817 Y: 481048
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities: Above Gound Underground
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted: ☑ YES ☐ NO
Existing Landscaping Impacted: YES NO
Underdrain Needed: ☐ YES ☑ NO Underdrains Can Discharge: ☐ YES ☐ NO
Soils are Suitable: VES NO Ground Water Table Level Suitable: VES NO
Estimate IMP / BMP drainage area included on site: 0.08 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 6	Site ID:	32	Catchment ID: UT05	

IMP / BMP SUMMAF	RY		
WQ _v (provided):	0.008	Re _v (provided):	0.008
Area Treated (ac):	0.08	Impervious Area Treated (ac):	0.08
Photographs			
No. <u>169</u>	Description:	looking north	
No. <u>170</u>	Description:	looking west	
No.	Description:		
	nfigure bioretention area to mi	nimize disturbance to existing trees and their reded.	oot
	des 140% treatment as sized.		
IMP size = 723 sq ft			





IMP / BMP ID: 7	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397946 Y: 481028
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted:
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted:
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: 0.17 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 7	Site ID:	32	Catchment ID: UT05

BMP SUMMARY			
rovided):	0.014	Re _v (provided):	0.005
Area Treated (ac): 0.17		Impervious Area Treated (ac):	0.17
graphs			
167	Description:	looking west	
168	Description:	looking east	
	Description:		
ents <u>Config</u> e = 1,189 sq ft	gure bioretention area to mi	nimize disturbance to trees.	
	ents Config	provided): eated (ac): graphs 167 Description: Description:	rovided): 0.014 Re _v (provided): eated (ac): 0.17 Impervious Area Treated (ac):





IMP / BMP ID: 8	Site ID:	32	Catchment ID: UT05

New LID IMP □ SWM BMP Retrofit □ New SW	M BMP □ I y	pe (Sheets 4 & 5):	41
State Plane Coordinates of IMP / BMP Centroid:	X: <u>1398152</u>	Y:	481178
Sketch Location of Footprint (with Approximate Dimension	ns) and Drainage Bo	oundary on Site Ma	р
Identify all Impairments Addressed by Recommendation	(Sheet 1):		
Treatment Area Ownership: Transportation ROW Uti	lity ROW	Other Government	✓ Private
Infrastructure / Structures / Buildings Impacted:	✓ NO		
Limited Impact to Adjacent Properties:			
Area Accessible for Construction: YES NO			
Area Accessible for Maintenance: YES NO			
Limited Permitting Issues: YES NO			
Jurisdictional Wetlands Impacted: YES VO			
Forest Retention Area Impacted:			
Conservation Easement Impacted:			
Utilities Present:	ne Cable Water	Sewer Other	
Utilities Impacted:	ne 🗌 Cable 🔲 Water	Sewer Other	
Impacted Utilities:			
Critical Area Impacted: YES VNO			
Mature / Specimen Trees Impacted: ☐ YES ☑ NO			
Existing Landscaping Impacted: YES NO			
Underdrain Needed: ☑ YES ☐ NO Underdra	ains Can Discharge:	YES NO	
Soils are Suitable: YES NO Ground	Water Table Level S	uitable: 🗌 YES [NO
Estimate IMP / BMP drainage area included on site:	<u>0.18</u> ac		70%
Retrofit of Existing SWM BMP			
SDI ID:	dd Forebay: ☐ YE	s 🗌 NO	
Modify Outlet Stucture:	dd Aquatic Bench: [YES NO	
Grade Bottom of Facility:	lant Native Vegetatio	on: YES NO	
Provide Additional Storage Volume: YES NO			
Excavation / Raise the Embankment:			

IMP / BMP ID: 8	Site ID:	32	Catchment ID: UT05

IMP/	BMP SUMMARY			
WQ _v (p	provided):	0.015	Re _v (provided):	0.000
Area T	reated (ac):	0.25	Impervious Area Treated (ac):	0.19
Photo	graphs			
No.	161	Description:	looking east	
No.	162	Description:	looking north	
No.		Description:		
Comn IMP/BN		cannot be used for biorete mes 100% treatment from F	ntion because Site 31 is higher. Filterra (to be sized).	



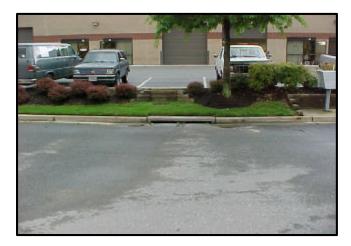


IMP / BMP ID: 9	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 41
State Plane Coordinates of IMP / BMP Centroid: X: 1398105 Y: 481305
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted: ☐ YES ☑ NO
Existing Landscaping Impacted: YES 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: 0.29 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:
Excavation / Raise the Embankment:

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IMP / BMP SUM	MARY	
WQ _v (provided):	0.017	Re _v (provided): 0.000
Area Treated (ac)	0.29	Impervious Area Treated (ac): 0.2
Photographs		
No. <u>163</u>	Description:	looking east
No. <u>164</u>	Description:	looking south
No	Description:	
Comments IMP/BMP Summa	Island cannot be used for biorete ry assumes 100% treatment from	_





IMP / BMP ID: 10	Site ID:	32	Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1397994 Y: 481451
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: YES NO
Area Accessible for Maintenance:
Limited Permitting Issues: VES NO
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted:
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: 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 10 Site ID: 32 Catchment ID: UT05

IMP / BMP SUMMAR	YY		
WQ _v (provided):	0.010	Re _v (provided):	0.004
Area Treated (ac):	0.18	Impervious Area Treated (ac):	0.12
Photographs			
No. <u>156</u>	Description:	looking east	
No. <u>157</u>	Description:	looking north	
No	Description:		
No	Description:		
No.	Description:		
No	Description:		
No	Description:		
No	Description:		
Comments Cor IMP size = 849 sq ft	nfigure bioretention area to mi	nimize disturbance to trees.	





IMP / BMP ID: 11 Site ID: 32 Catchment ID: UT05

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1398091 Y: 481079
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:
Limited Impact to Adjacent Properties:
Area Accessible for Construction: VES NO
Area Accessible for Maintenance: VES NO
Limited Permitting Issues:
Jurisdictional Wetlands Impacted: YES NO
Forest Retention Area Impacted:
Conservation Easement Impacted:
Utilities Present:
Utilities Impacted:
Impacted Utilities:
Critical Area Impacted: YES VNO
Mature / Specimen Trees Impacted:
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: 0.3 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:
Excavation / Raise the Embankment:

IMP / BMP ID: 11 Site ID: 32 Catchment ID: UT05	
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IMP/BMI	P SUMMARY		
WQ _v (provi	ided):	0.024	Re _v (provided): 0.00
Area Treat	ed (ac):	0.30	Impervious Area Treated (ac):0.3
Photogra	phs		
No.	165	Descriptio	on: looking west
No.	166	Description	on: looking east
No.		Description	on:
Comment IMP size =	ts <u>Confi</u> 2,0592 sq ft	gure bioretention area to	o minimize disturbance to trees.



