

Catchment ID: UT12

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

Subwatershed: <u>Unnamed Tributary</u>				
Location of Catchment Centroid on ADC Map:	Year: 2000	Page: <u>17</u>	Grid: _	J7
State Plane Coordinates of Outfall Location:	X: <u>1398378</u>		Y: <u>482595</u>	
Closest Road Intersection to Outfall: Defense Hig	hway and Priest Bridge I	Road		
Outfall SDI ID or Outfall Description: unknown				
Objective: Demonstration / Impairment(s) (Sheet	1)			
Drainage Area (ac): 1.5	Impervious Area (	ac): <u>1.25</u>		
Percent Impervious: 83%	Soil Recharge Fac	ctor (S): 0.38		
WQ <sub>v</sub> (required): 0.08	Re <sub>v</sub> (required): 0.0	03		
Predominant Land Use: commercial	Mean Depth to Gr	ound Water:	unknown	
Sanitary System: Septic Municipal Sewer	Water Supply: [	On Site Well	Public Water	
Storm Drainage System Within Catchmen	t			
Piped: 100% Open Channels:	0%			
Area Drained by System: 100%				
Location in Catchment: Headwaters Middle	Lower 🗸 All			
Open Channel Lining- Vegetation: 0%	Riprap: 0%	Concrete: 0	% Other:	0%
Existing IMP(s) / BMP(s)				
SDI ID: Unknown Type (number from Shee	ets 4 & 5): 13	Age:		
Closest Road Intersection to IMP / BMP: Price		spey Court		
Catchment Area Treated (ac) :	Percentage Ca	atchment Treate	d:	
$WQ_v$ Provided: $\square$ YES $\square$ NO $Re_v$ Provid	ed: ☐ YES ✓ NO	C <sub>p</sub> Provided:	YES	✓ NO
SDI ID: Type (number from She	ets 4 & 5):	Age:		
Closest Road Intersection to IMP / BMP:				
Catchment Area Treated (ac) :	Percentage Ca	atchment Treate	d:	
$WQ_v$ Provided: $\square$ YES $\square$ NO $Re_v$ Provid	ed: YES NO	C <sub>p</sub> Provided:	YES	NO
SDI ID: Type (number from Shee	ets 4 & 5):	Age:		
Closest Road Intersection to IMP / BMP:				
Catchment Area Treated (ac) :	Percentage Ca	atchment Treated	d:	
$WQ_v$ Provided: $\square_{YES}$ $\square_{NO}$ Re $_v$ Provided	ed: YES NO	C <sub>p</sub> Provided:	YES	□NO

Catchment ID: UT12

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

CATCHMENT SU	JMMARY		
WQ <sub>v</sub> (provided):	0.07	Re <sub>v</sub> (provided) : _	0.021
Area Treated (ac):	1.35	Impervious Area Treated (ac):_	1.1
Area Treated (%):	90%	Impervious Area Treated (%):_	88%
Comments	The storm water m	nanagement treats about one half of the property, whi	ich includes
the roof. The drain	age area of the fac	cility cannot be determined because the storm drainage	ge system
is not known.			

Site ID: 43 Catchment ID: UT12

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

Site Name: Priest Bridge Station	Address: 2151 Defence Highway
Site Owner: Gardiner Realty Inc. 261-6250	ı
State Plane Coordinates of Site Centroid	d: X: <u>1398269</u> Y: <u>482679</u> Date: <u>5/28/03</u>
Personnel: PM	Weather: sunny, 70F deg
Area (ac):1	Impervious Area (ac): 0.9
Percent Impervious: 89%	Soil Recharge Factor (S): 0.38
WQ <sub>v</sub> (required): 0.07	Re <sub>v</sub> (required): 0.03
Property Area (ac):1	Property Area Included in Site: 100%
Amount of Catchment Occupied by Site:	100%
Storm Drainage System Within Site	e
Piped: 100% Open Channel	s: <u>0%</u> Area Drained by System: <u>60%</u>
Open Channel Lining - Vegetation: 0	%         Riprap:         0%         Concrete:         0%         Other:         0%
Existing IMP(s) / BMP(s) (Indentifie	d on Page 1, FORM 1, Catchment Information)
SDI ID: Unknown	Condition: Excellent Good Average Fair Poor
SDI ID:	Condition: Excellent Good Average Fair Poor
SDI ID:	Condition: Excellent Good Average Fair Poor
Site Information	
Type of Pavement: ☑ Bituminous ☐ Co	oncrete Gravel Grid Pavers Other
Pavement Condition: Excellent	Good Average Fair Poor
Underdrains can be easily directed to ex	isting storm drains or daylighted:
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:	☐ Extensive ☐ Moderate ☐ Average ☐ Limited ☐ None
Steep Slopes Present:	☐ Moderate ☐ Average ☐ Limited ☐ None
Existing Landscaping:   Extensive	☐ Moderate ✓ Average ☐ Limited ☐ None
Mature / Specimen Trees:   Extensive	☐ Moderate ☐ Average ☐ Limited ☐ None
Area Available for Aboveground BMPs:	☐ Extensive ☐ Moderate ☐ Average ☑ Limited ☐ None
Existing Cover of Potential Aboveground	BMP Locations: ☐ Grass ☐ Landscaped ☐ Gravel ☐ Other Pervious ☐ Pavement ☐ Other Impervious

Site ID: 43	Catchment ID: UT12

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

Com	mercial / Insti	tutional					
Islands Present: ☐ YES ☑ NO			Curb Present Around Island:	Curb Present Around Island:			
Groun	d Level of Islan	d Relative to Pavement:	Above Equal Below				
Island	Landscaping:	☐ Impervious ☐ Bare Earth ☐ Trees (<2 in. DBH)	Gravel Grass Mulch Hert Trees (2 - 6 in. DBH) Trees (>6 in. DB	paceous Plants Shrubs			
Trees	have sufficient	spacing to allow IMPs [	YES NO				
Parkin	ng area that can	be directed to potential tre	atment area with little grading:	80%			
SITE	SUMMARY						
WQ <sub>v</sub> (	(provided) :	0.070	Re <sub>v</sub> (provided):	0.021			
Area T	Γreated (ac) :	1.35	Impervious Area Treated (ac):	1.1			
Area 7	Γreated (%):	100%	Impervious Area Treated (%):	100%			
Photo	ographs	Description: lookin	g east along north side of property				
No.	231	Description: looking east along north side of property  Description: looking south along west side of property					
No.	232	Description: looking north along west side of property					
No.	233	Description: looking east along south side of property					
No.	234	Description: looking west along south side of property					
No.	235	Description: looking north along east side of property					
No.	236	Description: looking west along north side of property					
No.	237	Description: looking south along east side of property					
No.	No. 238 Description: looking east along Defence Highway						
No.	. 239 Description: looking south along Priest Bridge Drive						
Com	ments Due to li	mited parking, no parking o	an be given up for IMPs. Topography	and utilities			
	prevent	much of grassed area on w	vest side from being used.				
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### UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS) FORM 2 -- Site Information





230 231





232 233





Site ID: 43 Catchment ID: UT12

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





236 237





IMP / BMP ID: 1	Site ID:	43	Catchment ID: UT12

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 7
State Plane Coordinates of IMP / BMP Centroid: X: 1398270 Y: 482671
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:
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: ☐ YES ☑ NO
Existing Landscaping Impacted:   YES VO
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: 0.22 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: 1	Site ID:	43	Catchment ID: UT12	

IMP/	BMP SUMMAR	Y		
WQ <sub>v</sub> (p	provided): unki	nown	Re <sub>v</sub> (provided):	0.000
Area T	reated (ac):	0.22	Impervious Area Treated (ac):	0.22
Photo	ographs			
No.	240	Description:	looking east at front of building	
No.	244	Description:	looking east at back of building	
No.		Description:		
No.		Description:	-	
Comn	nents			
IMP si	ze = 9,418 sq ft			





IMP / BMP ID: 2	Site ID:	43	Catchment ID: UT12

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 41
State Plane Coordinates of IMP / BMP Centroid: X: 1398381 Y: 482595
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:
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:   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: 0.33 ac 70%
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:	43	Catchment ID: UT12

d): 0.000 c): 0.29
c): 0.29
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249

IMP / BMP ID: 3	Site ID:	43	Catchment ID: UT12

New LID IMP ✓ SWM BMP Retrofit ✓ New SWM BMP ✓ Type (Sheets 4 & 5): 41
State Plane Coordinates of IMP / BMP Centroid: X: 1398389 Y: 482645
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: ☐ YES ☑ NO
Existing Landscaping Impacted:   YES VO
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: 0.41 ac 50%
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:

IMF / DIMF ID. 3 Site ID. 43 Catchinent ID. 0112	IMP / BMP ID: 3	Site ID:	43	Catchment ID: UT12
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IMP/I	BMP SUM	MARY		
WQ <sub>v</sub> (p	provided):	0.026	Re <sub>v</sub> (provided):	0.000
Area T	reated (ac):	0.41	Impervious Area Treated (ac):	0.32
Photo	graphs			
No.	250	Description:	looking north	
No.	251	Description:	looking west	
No.	252	Description:	looking south	
No.		Description:		
Comm		IMP/BMP Summary assumed 10	0% treatment of drainage area using Filterra (t	to be





250 251



IMP / BMP ID: 4	Site ID:	43	Catchment ID: UT12	

New LID IMP ✓ SWM BMP Retrofit ☐ New SWM BMP ☐ Type (Sheets 4 & 5): 38
State Plane Coordinates of IMP / BMP Centroid: X: 1398148 Y: 482685
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: None Natural Gas
Utilities Impacted: None Natural Gas Electric Telephone Cable Water Sewer Other
Impacted Utilities: Above Gound
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: 0.39 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/E	BMP SUMI	MARY	
WQ <sub>v</sub> (p	provided):	0.010	Re <sub>v</sub> (provided): 0.010
Area T	reated (ac):	0.25	Impervious Area Treated (ac): 0.13
Photo	graphs		
No.	242	Description:	looking south
No.	243	Description:	looking north
No.		Description:	
Comm IMP siz	n <b>ents</b> ze = 923 sq	Bioretention provides 65% treatm	nent of drainage area as sized.





IMP / BMP ID: 6	Site ID:	43	Catchment ID: UT12

New LID IMP □ SWM BMP Retrofit □ New SWM	/IBMP □ IS	/pe (Sheets 4 & 5):	60
State Plane Coordinates of IMP / BMP Centroid:	X: varies	Y:	varies
Sketch Location of Footprint (with Approximate Dimension	s) and Drainage B	oundary on Site Ma	р
Identify all Impairments Addressed by Recommendation (	Sheet 1):		
Treatment Area Ownership: Transportation ROW Utilit	y ROW County	Other Government	✓ Private
Infrastructure / Structures / Buildings Impacted:	✓ NO		
Limited Impact to Adjacent Properties:   ☑ YES □ NO			
Area Accessible for Construction:			
Area Accessible for Maintenance:			
Limited Permitting Issues: ✓ YES ☐ NO			
Jurisdictional Wetlands Impacted: ☐ YES ☑ NO			
Forest Retention Area Impacted:			
Conservation Easement Impacted:			
Utilities Present:	e Cable Water	Sewer Other	
Utilities Impacted: 🗸 None 🗌 Natural Gas 🔲 Electric 🔲 Telephon	e Cable Water	Sewer Other	
Impacted Utilities: Above Gound Underground			
Critical Area Impacted:			
Mature / Specimen Trees Impacted: ☐ YES ☑ NO			
Existing Landscaping Impacted:			
Underdrain Needed: ☐ YES ☑ NO Underdra	ins Can Discharge:	YES NO	
Soils are Suitable: ✓ YES ☐ NO Ground V	/ater Table Level S	Suitable: 🗸 YES [	NO
Estimate IMP / BMP drainage area included on site:	<u>0.14</u> ac		100%
Retrofit of Existing SWM BMP			
SDI ID: Ad	d Forebay: □ YE	S NO	
Modify Outlet Stucture:	d Aquatic Bench:	YES NO	
Grade Bottom of Facility:	nt Native Vegetation	on: YES NO	
Provide Additional Storage Volume:			
Excavation / Raise the Embankment:			

IMP / BMP ID: 5	Site ID:	43	Catchment ID: UT12	

IMP/	BMP SUMMA	<b>NRY</b>		
WQ <sub>v</sub> (provided): Area Treated (ac):		0.011	Re <sub>v</sub> (provided): Impervious Area Treated (ac):	0.011
		0.14		
Photo	graphs			
No.	241	Description:	looking east at "5c"	
No.	245	Description:	looking north at "5b"	
No.	246	Description:	looking east at "5a"	
No.		Description:		
No.		Description:		
No.		Description:		
No.		 Description:		
No.		Description:		
5a: X= 5b: X=	nents <u>IM</u> ons of IMPs: 1398217, Y=48 1398163, Y=48 1398251, Y=48	32586 32687	pined results for 5a, 5b and 5c.	
	ze = 6,175  sq f			







246