

APPENDIX A
Data Collection Forms

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

Subwatershed: _____

Location of Catchment Centroid on ADC Map: _____ Year: _____ Page: _____ Grid: _____

State Plane Coordinates of Outfall Location: _____

Closest Road Intersection to Outfall: _____

Outfall SDI ID or Outfall Description: _____

Objective: Demonstration / Impairment(s) (Sheet 1) _____

Drainage Area (ac): _____ Impervious Area (ac): _____

Percent Impervious: _____ Soil Recharge Factor (S): _____

WQ_v (required): _____ Re_v (required): _____

Predominant Land Use: _____ Mean Depth to Ground Water: _____

Sanitary System: Septic Municipal Sewer

Water Supply: On Site Well Public Water

Storm Drainage System Within Catchment

Piped: _____ % Open Channels: _____ %

Area Drained by System: _____ %

Location in Catchment: Headwaters Middle Lower All

Open Channel Lining- Vegetation: _____ % Riprap: _____ % Concrete: _____ % Other: _____ %

Existing IMP(s) / BMP(s)

SDI ID: _____ Type (number from Sheets 4 & 5): _____ Age: _____

Closest Road Intersection to IMP / BMP: _____

Catchment Area Treated (ac) : _____ Percentage Catchment Treated: _____

WQ_v Provided: YES NO Re_v Provided: YES NO C_p Provided: YES NO

SDI ID: _____ Type (number from Sheets 4 & 5): _____ Age: _____

Closest Road Intersection to IMP / BMP: _____

Catchment Area Treated (ac) : _____ Percentage Catchment Treated: _____

WQ_v Provided: YES NO Re_v Provided: YES NO C_p Provided: YES NO

SDI ID: _____ Type (number from Sheets 4 & 5): _____ Age: _____

Closest Road Intersection to IMP / BMP: _____

Catchment Area Treated (ac) : _____ Percentage Catchment Treated: _____

WQ_v Provided: YES NO Re_v Provided: YES NO C_p Provided: YES NO

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

CATCHMENT SUMMARY

WQ_v (provided): _____

Re_v (provided) : _____

Area Treated (ac): _____

Impervious Area Treated (ac): _____

Area Treated (%): _____

Impervious Area Treated (%): _____

Comments

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

Site Name: _____ Address: _____

Site Owner: _____

State Plane Coordinates of Site Centroid: _____ Date: _____

Personnel: _____ Weather: _____

Area (ac): _____ Impervious Area (ac): _____

Percent Impervious: _____ Soil Recharge Factor (S): _____

WQ_v (required): _____ Re_v (required): _____

Property Area (ac): _____ Property Area Included in Site: _____ %

Amount of Catchment Occupied by Site: _____ %

Storm Drainage System Within Site

Piped: _____ % Open Channels: _____ % Area Drained by System: _____ %

Open Channel Lining - Vegetation: _____ % Riprap: _____ % Concrete: _____ % Other: _____ %

Existing IMP(s) / BMP(s) (Identified on Page 1, FORM 1, Catchment Information)

SDI ID: _____ Condition: Excellent Good Average Fair Poor

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Site Information

Type of Pavement: Bituminous Concrete Gravel Grid Pavers Other _____

Pavement Condition: Excellent Good Average Fair Poor

Underdrains can be easily directed to existing storm drains or daylighted: 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: Extensive Moderate Average Limited None

Steep Slopes Present: Extensive 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

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

Commercial / Institutional

Islands Present: YES NO Curb Present Around Island: YES NO

Ground Level of Island Relative to Pavement: Above Equal Below

Island Landscaping: Impervious Bare Earth 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

Parking area that can be directed to potential treatment area with little grading: _____ %

SITE SUMMARY

WQ _v (provided) : _____	Re _v (provided): _____
Area Treated (ac) : _____	Impervious Area Treated (ac): _____
Area Treated (%) : _____	Impervious Area Treated (%): _____

Photographs

No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____
No. _____	Description: _____

Comments

IMP / BMP ID: _____

Site ID: _____

Catchment ID: _____

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

New LID IMP / SWM BMP Retrofit / New SWM BMP

Type (Sheets 4 & 5): _____

State Plane Coordinates of IMP / BMP Centroid: _____

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: 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: 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: _____ ac _____ %

Retrofit of Existing SWM BMP

SDI ID: _____

Add Forebay: YES NO

Modify Outlet Structure: 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: YES NO

IMP / BMP ID: _____

Site ID: _____

Catchment ID: _____

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

IMP / BMP SUMMARY

WQ_v (provided): _____

Re_v (provided): _____

Area Treated (ac): _____

Impervious Area Treated (ac): _____

Photographs

No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____
No.	_____	Description:	_____

Comments
