**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:** 17  **Grid:** J8

**State Plane Coordinates of Outfall Location:**

X: 1397408  Y: 481619

**Closest Road Intersection to Outfall:** Priest Bridge Drive and Espey Court

**Outfall SDI ID or Outfall Description:** unknown

**Objective:** Demonstration / Impairment(s)

**Drainage Area (ac):** 5.2  **Impervious Area (ac):** 4.5

**Percent Impervious:** 87%  **Soil Recharge Factor (S):** 0.38

**WQ, (required):** 0.36  **Re, (required):** 0.14

**Predominant Land Use:** commercial  **Mean Depth to Ground Water:** unknown

**Sanitary System:**

- Septic
- Municipal Sewer

**Water Supply:**

- On Site Well
- Public Water

**Storm Drainage System Within Catchment**

- 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)**

<table>
<thead>
<tr>
<th>SDI ID</th>
<th>Type (number from Sheets 4 &amp; 5)</th>
<th>Age</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

**Catchment Area Treated (ac):**

<table>
<thead>
<tr>
<th>WQ, Provided</th>
<th>Re, Provided</th>
<th>C, Provided</th>
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</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
<td>YES</td>
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**SDI ID:**

<table>
<thead>
<tr>
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**Catchment Area Treated (ac):**

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<th>Re, Provided</th>
<th>C, Provided</th>
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</thead>
<tbody>
<tr>
<td>YES</td>
<td>NO</td>
<td>YES</td>
</tr>
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**SDI ID:**

<table>
<thead>
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**Catchment Area Treated (ac):**

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<th>C, Provided</th>
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<tbody>
<tr>
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<td>NO</td>
<td>YES</td>
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**SDI ID:**

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CATCHMENT SUMMARY

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<tr>
<th>WQv (provided):</th>
<th>0.213</th>
<th>Rev (provided):</th>
<th>0.098</th>
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<tbody>
<tr>
<td>Area Treated (ac):</td>
<td>4.52</td>
<td>Impervious Area Treated (ac):</td>
<td>4.24</td>
</tr>
<tr>
<td>Area Treated (%):</td>
<td>87%</td>
<td>Impervious Area Treated (%):</td>
<td>94%</td>
</tr>
</tbody>
</table>

Comments

________________________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
________________________________________________________
**UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)**

**FORM 2 -- Site Information**

<table>
<thead>
<tr>
<th>Site Name:</th>
<th>Address: 2134, 2138, 2139 Espey Court</th>
</tr>
</thead>
<tbody>
<tr>
<td>Site Owner:</td>
<td></td>
</tr>
<tr>
<td>State Plane Coordinates of Site Centroid:</td>
<td>X: 1397262 Y: 481880 Date: 5/27/03</td>
</tr>
<tr>
<td>Personnel:</td>
<td>Weather: cloudy, 65F deg</td>
</tr>
<tr>
<td>Area (ac):</td>
<td>5.2</td>
</tr>
<tr>
<td>Percent Impervious:</td>
<td>88%</td>
</tr>
<tr>
<td>WQv (required):</td>
<td>0.36</td>
</tr>
<tr>
<td>Property Area (ac):</td>
<td>7.6</td>
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<tr>
<td>Amount of Catchment Occupied by Site:</td>
<td>100%</td>
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**Storm Drainage System Within Site**

<table>
<thead>
<tr>
<th>Piped:</th>
<th>Open Channels:</th>
<th>Area Drained by System:</th>
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</thead>
<tbody>
<tr>
<td>100%</td>
<td>0%</td>
<td>100%</td>
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</table>

<table>
<thead>
<tr>
<th>Open Channel Lining - Vegetation:</th>
<th>Riprap:</th>
<th>Concrete:</th>
<th>Other:</th>
</tr>
</thead>
<tbody>
<tr>
<td>0%</td>
<td>0%</td>
<td>0%</td>
<td>0%</td>
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</tbody>
</table>

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

<table>
<thead>
<tr>
<th>SDI ID:</th>
<th>Condition:</th>
<th>Excellent</th>
<th>Good</th>
<th>Average</th>
<th>Fair</th>
<th>Poor</th>
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**Site Information**

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<thead>
<tr>
<th>Type of Pavement:</th>
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<td>Bituminous</td>
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</table>

<table>
<thead>
<tr>
<th>Pavement Condition:</th>
<th>Excellent</th>
<th>Good</th>
<th>Average</th>
<th>Fair</th>
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<tbody>
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<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Underdrains can be easily directed to existing storm drains or daylighted:</th>
<th>YES</th>
<th>NO</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gutter/Exterior Downspouts Present:</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Roof Connected Directly to Storm Drain:</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Roof Drains onto Impervious Surface:</td>
<td>YES</td>
<td>NO</td>
</tr>
<tr>
<td>Obvious Existing Drainage Problems:</td>
<td>Extensive</td>
<td>Moderate</td>
</tr>
<tr>
<td>Steep Slopes Present:</td>
<td>Extensive</td>
<td>Moderate</td>
</tr>
<tr>
<td>Existing Landscaping:</td>
<td>Extensive</td>
<td>Moderate</td>
</tr>
<tr>
<td>Mature / Specimen Trees:</td>
<td>Extensive</td>
<td>Moderate</td>
</tr>
<tr>
<td>Area Available for Aboveground BMPs:</td>
<td>Extensive</td>
<td>Moderate</td>
</tr>
<tr>
<td>Existing Cover of Potential Aboveground BMP Locations:</td>
<td>Grass</td>
<td>Landscaped</td>
</tr>
</tbody>
</table>

Page 4 of 40
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 have sufficient spacing to allow IMPs: ☑ YES  ☐ NO
Parking area that can be directed to potential treatment area with little grading: 90%

SITE SUMMARY

<table>
<thead>
<tr>
<th>WQ_v (provided):</th>
<th>0.213</th>
<th>Re_v (provided):</th>
<th>0.098</th>
</tr>
</thead>
<tbody>
<tr>
<td>Area Treated (ac):</td>
<td>4.52</td>
<td>Impervious Area Treated (ac):</td>
<td>4.24</td>
</tr>
<tr>
<td>Area Treated (%):</td>
<td>87%</td>
<td>Impervious Area Treated (%):</td>
<td>94%</td>
</tr>
</tbody>
</table>

Photographs

No.  67  Description: looking east along north side of 2134 Espey Court
No.  68  Description: looking southeast along 2134 Espey Court
No.  69  Description: looking east along south side of 2134 Espey Court
No.  70  Description: looking east along north side of 2138 Espey Court
No.  71  Description: looking along south side of 2139 Espey Court
No.  72  Description: looking northwest along east sides of 2138 and 2139 Espey Ct.
No.  73  Description: looking north to east side of 2134 Espey Court
No.  74  Description: looking west to east sides of 2138 and 2139 Espey Court
No.  75  Description: looking west between 2138 and 2139 Espey Court
No.  76  Description: looking west between 2134 and 2138 Espey Court

Comments 2134 appears to be more commercial. Parking seems to be more for fleet vehicles than customers. However, there does not appear to be surplus parking around 2134. 2138 and 2139 have even less surplus parking.
Site ID: 38  
Catchment ID: UT10  

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

67  
68  
69  
70  
71  
72
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): 7 □

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: 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 Ground ☑ 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: 1.58 ac 100%

Retrofit of Existing SWM BMP

SDI ID: □ YES □ NO

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 SUMMARY

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
<th>Area Treated (ac)</th>
</tr>
</thead>
<tbody>
<tr>
<td>77</td>
<td>2138 Espey Court (&quot;b&quot;)</td>
<td>1.58</td>
</tr>
<tr>
<td>78</td>
<td>2139 Espey Court (&quot;c&quot;)</td>
<td></td>
</tr>
<tr>
<td>79</td>
<td>2134 Espey Court (&quot;a&quot;)</td>
<td></td>
</tr>
</tbody>
</table>

**IMP / BMP SUMMARY**

- **WQ<sub>v</sub> (provided):** unknown
- **Re<sub>v</sub> (provided):** 0.000
- **Area Treated (ac):** 1.58
- **Impervious Area Treated (ac):** 1.58

### Photographs

<table>
<thead>
<tr>
<th>No.</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>77</td>
<td>2138 Espey Court (&quot;b&quot;)</td>
</tr>
<tr>
<td>78</td>
<td>2139 Espey Court (&quot;c&quot;)</td>
</tr>
<tr>
<td>79</td>
<td>2134 Espey Court (&quot;a&quot;)</td>
</tr>
</tbody>
</table>

### Comments

IMP/BMP Summary shows combined results for 1a, 1b and 1c.

**Locations of IMPs:**

- 1a: X=1397337, Y=482033
- 1b: X=1397367, Y=481810
- 1c: X=1397410, Y=481717

IMP size = 68,964 sq ft
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice
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): 59

State Plane Coordinates of IMP / BMP Centroid: X: 1397317 Y: 482184

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: □ 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 Ground □ 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 ______ 100%

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 SUMMARY

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<tr>
<th>WQ_v (provided):</th>
<th>Re_v (provided):</th>
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<tr>
<th>Area Treated (ac):</th>
<th>Impervious Area Treated (ac):</th>
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</thead>
<tbody>
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<td></td>
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Photographs

<table>
<thead>
<tr>
<th>No.</th>
<th>Description:</th>
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</thead>
<tbody>
<tr>
<td>80</td>
<td>looking west</td>
</tr>
<tr>
<td>84</td>
<td>looking east</td>
</tr>
</tbody>
</table>

Comments

IMP size is to be determined
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice

New LID IMP [X] SWM BMP Retrofit [ ] New SWM BMP [ ] Type (Sheets 4 & 5): 52

State Plane Coordinates of IMP / BMP Centroid: X: 1397317 Y: 482184

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: [ ] 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 Ground [ ] 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 100%

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

IMP / BMP SUMMARY

<table>
<thead>
<tr>
<th>WQ, (provided):</th>
<th>Re, (provided):</th>
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<table>
<thead>
<tr>
<th>Area Treated (ac):</th>
<th>Impervious Area Treated (ac):</th>
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<tr>
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<th>Description:</th>
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<tbody>
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<td>80</td>
<td>looking west</td>
</tr>
<tr>
<td>84</td>
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</tbody>
</table>

Comments

IMP size is to be determined
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): 38

State Plane Coordinates of IMP / BMP Centroid: X: 1397198 Y: 481871

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:  □ 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 Ground  □ 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: 0.78 ac 100%

Retrofit of Existing SWM BMP

SDI ID:  □ YES  □ NO
Modify Outlet Structure:  □ YES  □ NO  Add Forebay:  □ YES  □ NO
Grade Bottom of Facility:  □ YES  □ NO  Add Aquatic Bench:  □ YES  □ NO
Provide Additional Storage Volume:  □ YES  □ NO  Plant Native Vegetation:  □ YES  □ NO
Excavation / Raise the Embankment:  □ YES  □ NO
## UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)

**FORM 3 -- Opportunities and Constraints of Potential Management Practice** (concluded)

### IMP / BMP SUMMARY

<table>
<thead>
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<th>Value</th>
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<tr>
<td>$Re_v$ (provided):</td>
<td>0.059</td>
</tr>
<tr>
<td>Area Treated (ac):</td>
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</tr>
<tr>
<td>Impervious Area Treated (ac):</td>
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### Photographs

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<tr>
<th>No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>85</td>
<td>looking southeast at upper portion of IMP</td>
</tr>
<tr>
<td>86</td>
<td>looking northwest at upper portion of IMP</td>
</tr>
<tr>
<td>87</td>
<td>looking east across upper portion of IMP</td>
</tr>
<tr>
<td>88</td>
<td>looking east at lower portion of IMP</td>
</tr>
<tr>
<td>89</td>
<td>looking west at lower portion of IMP</td>
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### Comments

A “speed bump” will be needed to divert flow to the upper portion of the IMP.

**IMP size = 5,180 sq ft**
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): 41

State Plane Coordinates of IMP / BMP Centroid: X: 1397099  Y: 482150

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: ☑ 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 Ground  ☐ 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: 0.39 ac  100%

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

IMP / BMP SUMMARY

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<tbody>
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Comments

IMP/BMP Summary assumes 100% treatment of drainage area using Filterra (to be sized).
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): 41

State Plane Coordinates of IMP / BMP Centroid: X: 1397297 Y: 482163

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: ☐ 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 Ground ☐ 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: 0.24 ac 100%

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 SUMMARY**

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**Comments**

IMP/BMP Summary assumes 100% treatment of drainage area using Filterra (to be sized).
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): 41

State Plane Coordinates of IMP / BMP Centroid: X: 1397414 Y: 482172

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: ☑ YES ☑ NO

Conservation Easement Impacted: ☑ YES ☑ NO

Utilities Present: ☑ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☑ Other

Utilities Impacted: ☑ Natural Gas ☑ Electric ☑ Telephone ☑ Cable ☑ Water ☑ Sewer ☑ Other

Impacted Utilities: ☑ Above Ground ☑ 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: 0.35 ac 100%

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 SUMMARY

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### Comments

IMP/BMP Summary assumes 100% treatment of drainage area using Filterra (to be sized).
**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): 41

State Plane Coordinates of IMP / BMP Centroid:  
X: 1397549  
Y: 481837

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: ☐ 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 Ground  ☐ 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: 0.39 ac  100%

**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 SUMMARY**

<table>
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<tr>
<th>Description</th>
<th>Value</th>
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<tbody>
<tr>
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**Comments**

"Speed bump" will be needed to direct flow to IMP.

IMP/BMP Summary assumed 100% treatment of drainage area using Filterra (to be sized).
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice
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): 41

State Plane Coordinates of IMP / BMP Centroid:  
X: 1397609  
Y: 481819

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: ☐ 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 Ground  ☐ 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: 0.12 ac  100%

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

IMP / BMP SUMMARY

WQ_v (provided): 0.009
Re_v (provided): 0.000

Area Treated (ac): 0.12
Impervious Area Treated (ac): 0.12

Photographs

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Comments

“Speed bump” will be needed to direct flow to IMP.
IMP/BMP Summary assumes 100% treatment of drainage area using Filterra (to be sized).
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 3 -- Opportunities and Constraints of Potential Management Practice
**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): 38

State Plane Coordinates of IMP / BMP Centroid:  X: 1397507  Y: 481792

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:  □ 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 Ground  □ Underground

Critical Area Impacted:  □ YES  □ NO

Mature / Specimen Trees Impacted:  □ YES  □ NO

Existing Landscaping Impacted:  □ YES  □ NO

Underdrain Needed:  □ YES  □ NO

Soils are Suitable:  □ YES  □ NO

Ground Water Table Level Suitable:  □ YES  □ NO

Estimate IMP / BMP drainage area included on site:  0.56 ac  90%

**Retrofit of Existing SWM BMP**

SDI ID:  □ YES  □ NO

Modify Outlet Structure:  □ YES  □ NO

Grade Bottom of Facility:  □ YES  □ NO

Provide Additional Storage Volume:  □ YES  □ NO

Excavation / Raise the Embankment:  □ YES  □ NO

Add Forebay:  □ YES  □ NO

Add Aquatic Bench:  □ YES  □ NO

Plant Native Vegetation:  □ YES  □ NO
**IMP / BMP SUMMARY**

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**Comments**

"Speed bump" will be needed to direct flow to IMP.

Bioretention provides 107% treatment of drainage area.

IMP size = 2,592 sq ft
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): 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: ☑ 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: 0.11 ac 100%

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 / Site ID: 11 / 38
Catchment ID: UT10

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

**IMP / BMP SUMMARY**

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**Comments**

Because inlet is in the center of a parking lot, and not adjacent to a curb, centralized treatment cannot be used. Reduce impervious area.

**Locations of IMPS:**

- 11a: X=1397485, Y=481645
- 11b: X=1397428, Y=481668

IMP/BMP Summary shows combined results for 11a and 11b.

IMP size = 4,993 sq ft