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

Subwatershed:  Unnamed Tributary

Location of Catchment Centroid on ADC Map:  
State Plane Coordinates of Outfall Location:  X: 1398742  Y: 482359
Closest Road Intersection to Outfall:  Baldwin Avenue and Electric Avenue
Outfall SDI ID or Outfall Description:  inlets out south end of property

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

Drainage Area (ac):  1.8  Impervious Area (ac):  1.6
Percent Impervious:  89%  Soil Recharge Factor (S):  0.38
WQ \(v\) (required):  0.12  Re \(v\) (required):  0.05
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)

SDI ID:  

Closest Road Intersection to IMP / BMP:  

Catchment Area Treated (ac):  

WQ \(v\) Provided:  YES  NO  Re \(v\) Provided:  YES  NO  C \(p\) Provided:  YES  NO

SDI ID:  

Closest Road Intersection to IMP / BMP:  

Catchment Area Treated (ac):  

WQ \(v\) Provided:  YES  NO  Re \(v\) Provided:  YES  NO  C \(p\) Provided:  YES  NO

SDI ID:  

Closest Road Intersection to IMP / BMP:  

Catchment Area Treated (ac):  

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)

<table>
<thead>
<tr>
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<td>Area Treated (ac):</td>
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<tr>
<td>Area Treated (%):</td>
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<td>Impervious Area Treated (%):</td>
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Comments

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

Site Name: ____________________________ Address: 2141 Priest Bridge Road

Site Owner: ____________________________

State Plane Coordinates of Site Centroid: X: 1398233 Y: 481360 Date: 5/28/03

Personnel: PM Weather: cloudy, 70F deg

Area (ac): 1.7 Impervious Area (ac): 1.5

Percent Impervious: 88% Soil Recharge Factor (S): 0.38

WQv (required): 0.12 Rev (required): 0.05

Property Area (ac): 1.9 Property Area Included in Site: 92%

Amount of Catchment Occupied by Site: 94%

Storm Drainage System Within Site

Piped: 100% Open Channels: 0% Area Drained by System: 100%

Open Channel Lining - Vegetation: 0% Riprap: 0% Concrete: 0% Other: 0%

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

SDI ID: ______________ 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 □ 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

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<th>Islands Present:</th>
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<tr>
<td>Curb Present Around Island:</td>
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<tr>
<td>Ground Level of Island Relative to Pavement:</td>
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<td>☐ Equal</td>
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<tr>
<td>Island Landscaping:</td>
<td>☑ Impervious</td>
<td>☐ Bare Earth</td>
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<tr>
<td>Trees have sufficient spacing to allow IMPs</td>
<td>☑ YES</td>
<td>☐ NO</td>
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<tr>
<td>Parking area that can be directed to potential treatment area with little grading:</td>
<td>100%</td>
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SITE SUMMARY

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Photographs

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<td>178</td>
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<td>180</td>
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<td>181</td>
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<td>182</td>
<td>looking south along east side of property</td>
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<td>185</td>
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Comments

________________________________________________________________________
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________________________________________________________________________
________________________________________________________________________
UPPER PATUXENT RIVER WATERSHED RESTORATION ACTION STRATEGY (WRAS)
FORM 2 -- Site Information
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: 1398208  Y: 481362

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:  0.55 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

Page 8 of 28
## IMP / BMP SUMMARY

| WQ<sub>v</sub> (provided): | unknown | Re<sub>v</sub> (provided): | 0.000 |
| Area Treated (ac): | 0.55 | Impervious Area Treated (ac): | 0.55 |

## Photographs

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## Comments

IMP size = 24,132 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): 38

State Plane Coordinates of IMP / BMP Centroid:  X: 1398325  Y: 481384

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

Infrastrucure / 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: 0.41 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 ID:** 2  
**Site ID:** 31  
**Catchment ID:** UT04

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

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**IMP / BMP SUMMARY**

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**Photographs**

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<tr>
<td>190</td>
<td>looking west</td>
</tr>
<tr>
<td>191</td>
<td>looking south</td>
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</tbody>
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**Comments**

*Existing trees are small and may be relocated elsewhere.*

*IMP size = 1,981 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): 38

State Plane Coordinates of IMP / BMP Centroid: X: 1398275  Y: 481493

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: 0.21 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>Description</th>
<th>Value</th>
<th>Description</th>
<th>Value</th>
</tr>
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<tbody>
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<td>193</td>
<td>looking west</td>
</tr>
<tr>
<td>194</td>
<td>looking south</td>
</tr>
</tbody>
</table>

### Comments

- Existing trees are small and may be relocated elsewhere.
- A "speed bump" will be used to direct flow.
- IMP size = 1,127 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): 38

State Plane Coordinates of IMP / BMP Centroid: X: 1398168 Y: 481525

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: 0.08 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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<td></td>
</tr>
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### Comments

Three existing 4" DBH maple trees may need to be removed.

IMP size = 426 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): 38

State Plane Coordinates of IMP / BMP Centroid:
X: 1398110
Y: 481317

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 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: 0.52 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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<th>No.</th>
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</tr>
</thead>
<tbody>
<tr>
<td>199</td>
<td>looking south from north end</td>
</tr>
<tr>
<td>200</td>
<td>damage to vegetation caused by truck</td>
</tr>
<tr>
<td>201</td>
<td>typical inlet, manhole, wall, manhole configuration</td>
</tr>
<tr>
<td>202</td>
<td>looking north near south end</td>
</tr>
<tr>
<td>203</td>
<td>looking north from south end</td>
</tr>
</tbody>
</table>

### Comments

The bioretention area will be built up by constructing a wall on the west side. This wall could be made of wood. Building up the IMP will allow mature trees to remain. The wall could be pervious allowing excess water to drain. If the wall is not to drain, it must have an impervious liner. Wheel stops should be provided for the trucks to prevent them from injuring the vegetation. The IMP could have additional capacity by having it flow into Site 32, IMP 10. Bioretention area provides 115% treatment.

IMP size = 3,529 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): 59
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: ________ 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>
<thead>
<tr>
<th>WQ&lt;sub&gt;v&lt;/sub&gt; (provided):</th>
<th>Re&lt;sub&gt;v&lt;/sub&gt; (provided):</th>
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<table>
<thead>
<tr>
<th>Area Treated (ac):</th>
<th>Impervious Area Treated (ac):</th>
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### Photographs

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<th>Description</th>
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</thead>
<tbody>
<tr>
<td>187</td>
<td>looking west at 6a</td>
</tr>
<tr>
<td>188</td>
<td>looking north at 6b</td>
</tr>
<tr>
<td>194</td>
<td>looking south at 6b</td>
</tr>
<tr>
<td>195</td>
<td>looking west at 6a</td>
</tr>
<tr>
<td>204</td>
<td>looking east at 6a</td>
</tr>
</tbody>
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### Comments

Provide native vegetation in those areas not constructed for bioretention or affected by existing trees.

Central locations of areas selected:

- 6a: X=1398269, Y=481204
- 6b: X=1398351, Y=481369
- 6c: X=1398235, Y=481557

IMP size = 16,017 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): 52

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):

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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

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Soils are Suitable:   □ YES   □ NO

Underdrains Can Discharge:   □ YES   □ NO

Ground Water Table Level Suitable:   □ YES   □ NO

Estimate IMP / BMP drainage area included on site:   _______ ac    100%

Retrofit of Existing SWM BMP

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Add Forebay:   □ YES   □ NO

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Provide Additional Storage Volume:   □ YES   □ NO

Excavation / Raise the Embankment:   □ YES   □ NO
IMP / BMP SUMMARY

WQ_v (provided): _______________ Re_v (provided): __________

Area Treated (ac): _______________ Impervious Area Treated (ac): __________

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