Plan Submittal in DOEE’s Surface and Groundwater System

Regan Wilhelm & Lukin Jacob
Department of Energy & Environment

Green Infrastructure Incentives and Assessment Branch

July 1, 2022
TRAINING OBJECTIVES

What It Does:
Functions of the Surface and Groundwater System (SGS)

Why We Use It:
Understanding role of SGS in DOEE’s plan review process

How To Use It:
Enter, modify, and submit stormwater plan information to DOEE through the SGS
About the Surface and Groundwater System

**Stormwater Management Plans**

- Allows online entry and review of project data
- Automatically performs compliance calculations
- Allows project teams to access & share data during design, review, construction, and inspection
- Enables online fee payment
- Generates green infrastructure reports for DOEE
About the Surface and Groundwater System

**Stormwater Retention Credit (SRC) Trading Program**
- Certify SRCs
- Find buyers and/or sellers of SRCs
- Purchase and use SRCs for Off-site Retention Volume (Offv) compliance
- Pay In-Lieu Fee (ILF)

**Additional Programs:**
- RiverSmart Rewards
- CRIAC Non-profit Relief Program
An Overview of Sewers in the District
SEWERS IN THE DISTRICT: CSS vs MS4

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**SEWER SYSTEMS OF THE DISTRICT**

### CSS: Combined Sewer System
- Stormwater runoff and sanitary sewage drain to sewer system
- Drains to DC Water Clean Rivers tunnels under Anacostia (currently) and Potomac (future) rivers.
- Green Infrastructure projects here have limited impact on water quality

### MS4: Municipal Separate Storm Sewer System
- Stormwater runoff drains directly into streams
- Green infrastructure has greatest impact
The District’s Stormwater Management Regulations
### REGULATORY REQUIREMENTS

<table>
<thead>
<tr>
<th>Major Land Disturbing</th>
<th>Major Substantial Improvement</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Trigger</strong></td>
<td><strong>Trigger</strong></td>
</tr>
<tr>
<td>• 5,000 ft² land disturbance</td>
<td>• 5,000 ft² structure footprint + land disturbance</td>
</tr>
<tr>
<td>• 2,500+ ft² post-project impervious area; OR</td>
<td>• Major renovation</td>
</tr>
<tr>
<td>• Any pre-project natural area</td>
<td>• Project cost ≥50% pre-project assessed structure value</td>
</tr>
</tbody>
</table>

**Requirements**

- **1.2-inch retention**
- **0.8-inch retention**
Sites within the AWDZ that also receive District government funding have additional requirements:

- Major Substantial Improvement projects must retain stormwater from the first 1.0 inches of rain
- All sites must treat stormwater from the first 1.7 inches of rain
**Stormwater Retention Volume (SWRv):**
The volume of stormwater from a site for which the site is required to achieve retention

**Off-Site Retention Volume (Offv):**
The portion of a project's SWRv that is not met through on-site green infrastructure
OFF-SITE RETENTION VOLUME EXAMPLE

\[
\text{SWR}_v - \text{On-site Retention} = \text{Off-site Retention Volume (Offv)}
\]

- \( \text{SWR}_v \) = 10,000 gallons
- On-site Retention = 7,000 gallons
- \( \text{Offv} \) = 3,000 gallons

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Using the Surface and Groundwater System
CREATING AN SGS USER ACCOUNT

- Visit the SGS landing page at doee.dc.gov/sgs
- Request an account (DOEE will approve request)
  - Do not use a generic email like permits@email.com
- Create log-in credentials
- DOEE communications may be sent from notify@quickbase.com
- **DO NOT** share your password or use someone else’s account
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Surface and Groundwater System Account Request Received

stormwater.database @ dc.gov (via Quickbase) <notify@quickbase.com>

1:57 PM (0 minutes ago)

The Department of Energy and Environment has received your request for a Surface and Groundwater System account. If you do not receive an email with login information within the next business day, please contact Sujatha Javvaji at sujatha.javvaji@dc.gov or (202) 807-8535.

This is an automatically generated email. Please do not respond to this message.

Reply  Forward
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Quickbase invite to the "Surface and Groundwater System" app

Brandon (DOEE) Hunt Invites you to join Surface and Groundwater System

Thank you for requesting access to the Department of Energy & Environment's Stormwater Database. Click 'Go to this App in Quickbase' link at the bottom of this message to create your user ID and password. Once you complete your registration, you can return to the database at http://doee.dc.gov/storm.
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Sign Up for Quickbase

All fields marked with an asterisk (*) are required.

First name
Last name
Email address

Choose a password *
Repeat password *

I have read and agree to the Quickbase Terms of Service and the Quickbase Privacy Policy

Register
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STORMWATER MANAGEMENT PLAN OVERVIEW

- Site Information
  - Physical location/property
- Plan Information
  - Project details
- Site Drainage Area Information
- BMP Information
  - Green infrastructure and stormwater practices
- Submission
ENTRERING SITE INFORMATION

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Surface and Groundwater System

Erosion, Stormwater, Green Area Ratio and Floodplain
Enter and access Erosion and Sediment Control (ESC), Stormwater Management (SWM), Green Area Ratio (GAR) and Floodplain Management (FPM) permit applications and inspections. Participate in the Stormwater Retention Credit (SRC) trading, RiverSmart Rewards and Self Inspection Self Reporting (SISR) programs.

Wells and Soil Borings
Enter and access Wells and Soil Borings permit applications. Enter Driller company and individual driller information.

Wetlands and Streams
Enter and access Wetland and Stream Permit applications or Water Quality Certifications.

Pay Fees
Search for fee assessments based on your fee ID or plan number and make a payment online.
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Erosion, Stormwater, Green Area Ratio and Floodplain
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Enter and access Wells and Soil Borings permit applications. Enter Driller company and individual driller information.

Wetlands and Streams
Enter and access Wetland and Stream Permit applications or Water Quality Certifications.

Pay Fees
Search for fee assessments based on your fee ID or plan number and make a payment online.
* This report shows actions available to you in the Surface and Groundwater system. The report indicates which actions you are required to take and which actions are optional. This is not an exhaustive list of all actions, but is meant to assist in completing common actions.
Project Information

This page will help you determine which of DOEE's reviews are required for your project.

Which of the following best describes the project? *

- [ ] How many square foot will be disturbed on the parcel(s), excluding any disturbance in the existing public right of way? *

- [ ] Is the site within a flood hazard area designated in accordance with DCMR Title 20 Chapter 31? *

For information on flood hazard areas, consult DCMR Title 20 Chapter 31.
Note: Clicking “Save” is NOT a complete plan submittal.
You are entering a new site into the Surface and Groundwater System. Please follow these steps:

1. If the site does not have a street address, please change the "Address Format" to Block, Intersection, or Nearest Address. Then, skip to step 3.
2. Enter the site address (or place name for example: "The White House") in the box "Input Address or Place Name" and then click "Validate Address". Wait 10 seconds to allow the Surface and Groundwater System to check the District’s Master Address Repository (MAR) for site information and fill out the form. On older web browsers, or if the address does not exist in the MAR, this function will not work or will display an error.
3. If the site is a block or intersection, or if the MAR could not find the site, complete the rest of the information in the "Site Information" section of the form.
4. Select the site owner or manager from the dropdown menu. If you do not see the name of the owner or manager, leave this blank. You must request to be an agent for the site owner or manager prior to submitting the plan for review.
5. Complete the "Location" section of the form with any known information. You may use the buttons in the "Location" section to look up SSL, sewer/watered, etc.
6. Click "Save"
7. After saving, click "Enter a new plan for this site" to continue entering plan information.

For sites undergoing a regulated activity, enter the address on the building permit application.
ENTERING SITE INFORMATION

Site Information

You are entering a new site into the Surface and Groundwater System. Please follow these steps:

1. If the site does not have a street address, please change the “Address Format” to Block, Intersection, or Nearest Address. Then, skip to step 3.
2. Enter the site address (or place name for example “The White house”) in the box “Input Address or Place Name” and then click “Popular Data from Address.” Wait 10 seconds to allow the Surface and Groundwater System to check the District’s Master Address Repository (MAR) for site information and fill out the form. On older web browsers, or if the address does not exist in the MAR, this function will not work or display an error.
3. If the site is a block or intersection, or if the MAR could not find the site, complete the rest of the information in the “Site Information” section of the form.
4. Select the site owner or manager from the dropdown menu. If you do not see the name of the owner or manager, leave this blank. You must request to be an agent for the site owner or manager prior to submitting the plan for review.
5. Complete the “Location” section of the form with any known information. You may use the buttons in the “Location” section to look up SSL, sw看了看, watershed, etc.
6. Click “Save.”
7. After saving, click “Enter a new plan for this site” to continue entering plan information.

SITE INFORMATION

For sites undergoing a regulated activity, enter the address on the building permit application.

Address Format:

Address

Input address (or place name):

Address number: Street name: Street type: Quadrant:

1209 First Street NE

Populate Data from Address

Street

NE
**ENTERING SITE INFORMATION**

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- **PUBLIC RIGHT OF WAY**
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Default values based on site
NOTE: Do not enter “TBD” or false info
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Site Drainage Areas (SDAs)
Site drainage area: An area that drains stormwater from a site to a single discharge point, or sheet flows from a single area off the site

**Standard Project (most sites):**
Discharge from **Lot Boundary**

**Campus:**
Discharge from **Limit of Disturbance (LOD)**

**NOTE:** Projects in MS4 have slightly different SDA requirements than projects in the CSS
SITE DRAINAGE AREA

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Lot Boundary
Limit of Disturbance (LOD)
Site Drainage Area 1
Site Drainage Area 2
Site Drainage Area 3
Site Drainage Area 4
Site Drainage Area 5

Key:

- Lot Boundary
- Limit of Disturbance
- Sheet Flow
- Drainage Conduits
- Site Drainage Area
Pre-project & Post-project total area must be the same
Remember: Projects in MS4 area must retain or treat 50% of the SWRv. This applies to each SDA.

Vehicular Access Area (VAA):
any area used to park, drive, or work on a vehicle
- 100% of VAA must drain to BMPs
- Retain or treat 50% of the SWRv from the entire Vehicular Access Area
SITE DRAINAGE AREA - MS4 EXAMPLE

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Note: Vehicular Access Area is a subcomponent of Impervious Land Cover

Pre-project & post-project total area must be the same
SITE DRAINAGE AREA - MS4 Requirements

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SITE DRAINAGE AREA INFORMATION

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<tr>
<th>Plan</th>
<th>Site Drainage Area Number</th>
<th>Site Drainage Area ID</th>
</tr>
</thead>
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<tr>
<td>7366</td>
<td>2</td>
<td>7366-2</td>
</tr>
</tbody>
</table>

Public Right of Way
Type of activity Site is undergoing
Major Land Disturbing
Is the Site Drainage Area in the CSS?
No
Is the entire Site Drainage Area exempt from detention requirements for the 2-year storm?
No

MAJOR LAND DISTURGING ACTIVITY

<table>
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<tr>
<th>Site Drainage Area SWIV</th>
<th>Cubic Feet</th>
<th>Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>480</td>
<td>3210</td>
</tr>
</tbody>
</table>

Treatment requirement for vehicular access area

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>142</td>
<td>1065</td>
</tr>
</tbody>
</table>
SDAs - More Than One Type of Activity
More Than One Type of Activity projects: Projects that trigger both Major Land Disturbing and Major Substantial Improvement requirements.
SITE DRAINAGE AREAS - MORE THAN ONE TYPE OF ACTIVITY
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SITE DRAINAGE AREAS - MORE THAN ONE TYPE OF ACTIVITY
Adding BMPs
**ADDING BMPs**

- **BMP**: best management practice. These are the retention practices that will be installed on site.

- **BMP ID numbers**: SWMP number-SDA number-BMP number
  
  Example: 7366-1-1

  The first BMP added into the first SDA of plan 7366
Adding BMPs

Add each BMP individually

Site Drainage Area Information

- Site Drainage Area Information
- Major Land Disturbing Activity
- SWRv and WOTv

Cubic ft | Gallons
---|---
475 | 3553

Add BMP to this Site Drainage Area

Retention volume achieved from outside authority of site owner
- Not retention eligible for meeting onsite obligations (cubic feet)

Volume treated from outside authority of site owner
- Not volume eligible for treatment obligations (cubic feet)
Y (Latitude) & X (Longitude) must be entered before submitted.
# ADDING BMPs

BMP Name is optional for identification

Pre-project & post-project total area must be the same
### Adding BMPs

**GENERAL BMP INFORMATION**
- **Plan Number**: A001
- **BMP X Coordinate**: 290448.720822
- **BMP Y Coordinate**: 370011.1327
- **BMP Group**: Green roof
- **BMP Name**: Green roof 1
- **BMP Type**: Extensive green roof
- **RISH Tree Species**: RISH Tree Rate Amount
- **Did DOEE help pay for this BMP?**: No
- **BMP ID number**: 799e-1
- **Previous Inspection - Installation Date**: 11/01/2021

**CONTRIBUTING DRAINAGE AREA**
- **Total area (square feet)**
  - **Post project**: 500
  - **Natural land cover**: 500
  - **Impervious land cover**: 50
  - **BMP land cover**: 50

**BMP Retention and Treatment Achieved**
- **BMP storage volume (cubic feet)**: 60
- **Maximum volume received by BMP (cubic feet)**: 60
- **Retention volume achieved (cubic feet)**: 50
- **Potential retention volume remaining (cubic feet)**: 0
- **Additional treatment volume (cubic feet)**: 0
ADDING BMPs

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Surface and Groundwater System - ESC, SWIM, GAR & FPM

SITE DRAINAGE AREA INFORMATION
- MAJOR LAND DISTURBING ACTIVITY
- SWMv AND WQTv

Site Drainage Area
SWM

Cubic feet
Gallons

471
3513

BMP's

Add BMP to this Site Drainage Area

Retention volume
Volume treated
**ADDING BMPs**

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**Surface and Groundwater System - ESC, SWIM, GAR & FPM**

**BMP LOCATION**

**GENERAL BMP INFORMATION**

- BMP Number
- BMP Type
- BMP Sub-Type
- BMP Group
- BMP Name
- BMP Location

**CONTRIBUTING DRAINAGE AREA**

- Total Area
- Post Project
- Pre Project
- Natural Land Cover
- Compacted Land Cover
- Improvised Land Cover
- BMP Land Cover

**BMP Retention and Treatment Achieved**

- BMP Storage Volume (cubic feet)
- Maximum Volume Received by BMP (cubic feet)
- Retention Volume Achieved (cubic feet)
- Potential Retention Volume Remaining (cubic feet)
- Additional Treatment Volume

**Undersized BMP:**

When volume of stormwater received is greater than BMP's capacity
ADDING BMPs

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Rainwater Harvesting
Use rainwater harvesting calculator to determine retention volume
RAINWATER HARVESTING

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---

### Storage Volume Summary: Results for a P” Storm, where P” = 1.7”

<table>
<thead>
<tr>
<th>Storm Event (gallons)</th>
<th>Average Volume (gallons)</th>
<th>Overfull Volume (gallons)</th>
<th>Available Storage Volume (gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.500</td>
<td>71</td>
<td>0</td>
<td>473</td>
</tr>
<tr>
<td>1.000</td>
<td>71</td>
<td>0</td>
<td>473</td>
</tr>
<tr>
<td>2.000</td>
<td>71</td>
<td>0</td>
<td>473</td>
</tr>
<tr>
<td>4.000</td>
<td>71</td>
<td>0</td>
<td>473</td>
</tr>
<tr>
<td>4.000</td>
<td>71</td>
<td>0</td>
<td>473</td>
</tr>
</tbody>
</table>

Note: Data does not include detention for larger storm events.
**TREATMENT TRAINS**

*Treatment train:* Sequence or chain of BMPs where one overflows into the next.
1. Enter information for the first BMP
2. Enter information for the downstream BMP
3. Create a connection between these two BMPs
4. Update this connection as necessary

**DO NOT** double-count CDA or storage volume
TREATMENT TRAINS

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DO NOT double count CDA or storage volume from BMP 1
It may be necessary to periodically “refresh” a BMP in a treatment train if an upstream or downstream BMP changes.
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Surface and Groundwater System - ESC, SWIM, GAR & FPM

Public User Home Page >> ESC, SWIM, GAR and FPM >> Sites and Plans >> Record View

SITE DRAINAGE AREA INFORMATION
MAJOR LAND DISTURBING ACTIVITY
SWRRC AND WOTY

Add another Site Drainage Area to the Plan

Site Drainage Area

SWM

BMPs

Add BMPs to this Site Drainage Area

Volume treated

Retention volume achieved by BMPs

Total

ESC & GAR
Stormwater Management Plans - Additional Steps
ADDI TIONAL STEPS

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- PLAN TYPE AND EXEMPTIONS
- APR/Velocity
- SITE AND LOCATION
- LAND COVER AND SITE DRAINAGE AREAS
- BMPs
- RETENTION AND TREATMENT REQUIREMENTS
- RETENTION AND TREATMENT ACHIEVED
- SUMMARY OF OFFV & SRCs
- DETENTION REQUIREMENTS
- PROJECT DESCRIPTION
- CONSTRUCTION INFORMATION
- GREEN AREA RATIO
- CLE Information
- PLAN DOCUMENTS
- OFFV COMPLIANCE
- APPLICATIONS TO USE SRCs
- NOTIFICATIONS OF ILF PAYMENT
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This email needs to exactly match the CLE's email on their account, or there will be issues with signing the GAR checklist.
ADDITIONAL STEPS - UPLOADING DOCUMENTS

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Submitting a Stormwater Management Plan
SUBMITTAL STEPS

1. Request to be an Agent for the Site Owner
2. Correct all Plan Errors
3. Generate the Required Plan Compliance Sheet
4. Submit the Plan

Note: Before you start...
Confirm that the Site Owner has created an SGS account and you have the correct email address linked to this account.
OWNERS, AGENTS, AND STAFF

You can access sites and plans in the SGS if you...

- Are the site owner
- Entered the site into the SGS
- Are given access as an agent or staff
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Agents

- Generally inter-agency
- Can give site-specific access
- Can give SRC-related permissions

Staff

- Generally intra-agency
- All staff have the same access to all sites and plans as the organization account manager
- No SRC-related permissions
## Owners, Agents, and Staff - Creating Relationships

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|--------------|------------------------|-------------|-----------------|-----------------------------|-----------------|-----------------|-------------------|------------|-------------------|-----------------|----------------|-----------------|------------------------|---------------|----------------|--------------------------|------------------|------------------|-----------------|----------------|----------------------|------------------|----------------|----------------|----------------|----------------------|------------------|----------------|----------------|----------------|

### Contact Information Form

- **Name:**
- **Principal's role:**
- **Agents role:**
- **Email:**
- **Phone:**

Who are you an agent for? Enter this person's contact information below. A notification will be sent to the email address you list to prompt them to confirm this relationship.

If the principal does not approve this request within 30 days, it will expire. If that occurs, you may submit a new request.
## My Pending Actions (4 records)

<table>
<thead>
<tr>
<th>Action</th>
<th>Required?</th>
<th>Description</th>
<th>Take this action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Sign Off's statement</td>
<td>Required?</td>
<td>To receive approval of a Stormwater Management Plan with an Off-Site Retention Volume (OSRV), you must commit to comply with the Off's requirement</td>
<td>Take this action</td>
</tr>
<tr>
<td>Approve agent requests</td>
<td>Required?</td>
<td>Someone has requested to access information about your sites/projects. If this person is trustworthy, you may confirm them as an agent to act on your behalf</td>
<td>Take this action</td>
</tr>
<tr>
<td>Pay plan review fee(s)</td>
<td>Required?</td>
<td>DOES has made a fee assessment for plan review. Click 'take this action' to be directed to a page where you can make your payment online. Fees can also be paid in person at the Permit Center (1100 4th street SW).</td>
<td>Take this action</td>
</tr>
<tr>
<td>Submit plan for review</td>
<td>Required?</td>
<td>You have an entry in the Surface and Groundwater system that is not yet submitted for review. Click 'take this action' to view a list</td>
<td>Take this action</td>
</tr>
</tbody>
</table>
If sending a request to the person who should be listed as the owner, they will need to click this button. This will confirm the request and list them as the site owner.
Identifying Errors
### Stormwater Management Plan Compliance Data

<table>
<thead>
<tr>
<th>Site Address</th>
<th>12345 Test Street NE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Stormwater Management Plan?</td>
<td>Yes</td>
</tr>
<tr>
<td>Soil Erosion and Sediment Control?</td>
<td>Yes</td>
</tr>
<tr>
<td>Type of Activity</td>
<td>Major Land Disturbing</td>
</tr>
<tr>
<td>Is the entire site in the CSS?</td>
<td>No</td>
</tr>
<tr>
<td>Plan number</td>
<td>7366</td>
</tr>
<tr>
<td>Green Area Ratio?</td>
<td>Yes</td>
</tr>
<tr>
<td>Floodplain Review?</td>
<td>No</td>
</tr>
<tr>
<td>AWDZ?</td>
<td>Non-AWDZ</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Site Drainage Area</th>
<th>11,000 sq ft</th>
</tr>
</thead>
<tbody>
<tr>
<td>Natural</td>
<td>0</td>
</tr>
<tr>
<td>Compacted</td>
<td>2,000</td>
</tr>
<tr>
<td>Impervious</td>
<td>7,000</td>
</tr>
<tr>
<td>BMP</td>
<td>2,000</td>
</tr>
<tr>
<td>Total</td>
<td>11,000</td>
</tr>
</tbody>
</table>

| Site Area | 2,000 sq ft |
| PROW | 2,000 |
| Curve Numbers |  |
| Pre-development | 70 |
| 2-year storm adjusted CN | 85 |
| Pre-project | 87 |
| 15-year storm adjusted CN | 87 |
| 100-year storm adjusted CN | 88 |

<table>
<thead>
<tr>
<th>Requirements Summary</th>
<th>(total is the sum of PROW and Parcel)</th>
<th>PROW (ft³)</th>
<th>Parcel (ft³)</th>
<th>Total (ft³)</th>
<th>Total (Gallons)</th>
</tr>
</thead>
<tbody>
<tr>
<td>SWRv</td>
<td>905</td>
<td>905</td>
<td>6,769</td>
<td></td>
<td></td>
</tr>
<tr>
<td>WQTV</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-site retention achieved</td>
<td>655</td>
<td>655</td>
<td>4,899</td>
<td></td>
<td></td>
</tr>
<tr>
<td>On-site treatment achieved</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>% of SWRv met on-site</td>
<td>72%</td>
<td>72.38%</td>
<td>72.38%</td>
<td></td>
<td></td>
</tr>
<tr>
<td>SRC eligibility</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Offv</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Compliance data last updated: 02-25-2022 10:57 AM
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REQUIRED PLAN COMPLIANCE SHEET
<table>
<thead>
<tr>
<th>BMP ID number</th>
<th>Type</th>
<th>Total CDA (square feet)</th>
<th>Natural (square feet)</th>
<th>Compacted (square feet)</th>
<th>Impervious (square feet)</th>
<th>BMP (square feet)</th>
<th>Total Post project vehicular access area</th>
<th>Volume received from upstream BMPs (cubic feet)</th>
<th>Max volume received by BMP (cubic feet)</th>
<th>Storage volume (cubic feet)</th>
<th>Retention calculation</th>
<th>Volume retained (cubic feet)</th>
<th>Volume treated (cubic feet)</th>
<th>Downstream BMP ID Numbers</th>
</tr>
</thead>
<tbody>
<tr>
<td>7366-1-1</td>
<td>Extensive green roof</td>
<td>500</td>
<td></td>
<td>500</td>
<td>0</td>
<td>67</td>
<td>60</td>
<td>100% of storage volume</td>
<td>60</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td>7366-1-1</td>
</tr>
<tr>
<td>7366-1-2</td>
<td>Engineered tree pits - Enhanced</td>
<td>2,000</td>
<td>1,500</td>
<td>500</td>
<td>0</td>
<td>269</td>
<td>200</td>
<td>100% of storage volume</td>
<td>200</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7366-2-1</td>
<td>Engineered tree pits - Enhanced</td>
<td>2,000</td>
<td>1,000</td>
<td>1,000</td>
<td>0</td>
<td>269</td>
<td>45</td>
<td>100% of storage volume</td>
<td>45</td>
<td>0</td>
<td>7366-2-2</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>7366-2-2</td>
<td>Engineered tree pits - Enhanced</td>
<td>3,000</td>
<td>2,000</td>
<td>1,000</td>
<td>0</td>
<td>404</td>
<td>350</td>
<td>100% of storage volume</td>
<td>350</td>
<td>0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**PROW Drainage Area Compliance Data**

No records were retrieved.

**PROW BMP Compliance Data**

No records were retrieved.
REQUIRED PLAN COMPLIANCE SHEET

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STATEMENT BY PERSON RESPONSIBLE FOR MAINTENANCE

Electronic signature of the person responsible for maintenance (it may be the applicant):
Signed using the Surface and Groundwater System on:

Name and Title: 
Address: 
Date: 
Phone No: 
Email: 

Compliance data last updated: 04-20-2022 01:09 PM
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This email address AND site owner will receive plan notification from the SGS
Plan Submitted to DOE

This is confirmation that you have submitted information in the Surface and Groundwater System to support your application for plan number 7366. FOLLOW THESE STEPS TO COMPLETE YOUR SUBMISSION PROCESS: Please visit DRA Permit Center, where DOE will provide the invoices for filing fees. Please scan and upload the receipt(s) for payment to the Surface and Groundwater System. DOE will begin its review when submission of all materials is complete. When DOE begins its review, your access to this plan will be read-only.

The plan you submitted has an Offv requirement of 1870 gallons. Offv is an annual commitment that may be met through the use of SRCs, payment of the ILF, or a combination of SRC use and ILF payment. Offv must be met beginning with the date of the Final Construction Inspection. Regulated sites are responsible for their Offv on an ongoing basis. If onsite retention is increased in the future, Offv can be reduced.

A list of SRCs for Sale is available in the SRC Registry, as is the list of expected SRCs (the SRC eligibility for SWMPs that have been approved by DOE but have not yet had a Final Construction Inspection).

You can log into the database to periodically check on your plan's status.
FEE PAYMENT

- Fees must be paid before plan review will start
- Plan will be put on hold if fees aren't paid in 3 days

Two ways to pay:
- Online
- In-person
FEE PAYMENT - ONLINE

• Can pay fees online with or without an account
  – No staff or agent requests needed
• 2.6% online service charge
• Credit card processing page may timeout if the process takes longer than 1 minute
• Only Visa and MasterCard accepted
• No further steps once the payment is complete
FEE PAYMENT - ONLINE

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Program Directory + Support + Instructions + Resources +

Surface and Groundwater System

Erosion, Stormwater, Green Area Ratio and Floodplain
Enter and access Erosion and Sediment Control (ESC), Stormwater Management (SWM), Green Area Ratio (GAR) and Floodplain Management (FPM) permit applications and inspections. Participate in the Stormwater Retention Credit (SRC) trading, RiverSmart Rewards and Self Inspection Self Reporting (SISR) programs.

Wells and Soil Borings
Enter and access Wells and Soil Borings permit applications. Enter Driller company and individual driller information.

Wetlands and Streams
Enter and access Wetland and Stream Permit applications or Water Quality Certifications.

Pay Fees
Search for fee assessments based on your fee ID or plan number and make a payment online.
FEE PAYMENT - ONLINE WITHOUT AN ACCOUNT

Enter the plan number OR Fee ID
FEE PAYMENT - IN PERSON

- Pay in person at 1101 4th Street SW (Cashier’s Office)
- Pay with a check
- Documents to bring:
  - 2 invoices and 1 SOAR receipt for each fee type
    - ESC, GAR, SWMP, FPM
- You CANNOT print invoices at DOEE or DCRA. Have your invoices printed before you go
  - You need an account and access to the plan to print the invoices and SOAR receipt
- Next step: upload the PAID invoice to the plan, or the review process will not move forward
FEE PAYMENT - IN PERSON - DOCUMENTS TO BRING

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SOAR REVENUE/RECEIPTS

Instruction:

<table>
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<tr>
<th>Document Information</th>
<th>Doc No.</th>
<th>SOC ADV.</th>
<th>HGO</th>
<th>DOC DATE</th>
<th>Eff Date</th>
<th>SOC AMP</th>
<th>AMT</th>
<th>Property Address</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>2020</td>
<td>5/12/2022</td>
<td></td>
<td></td>
<td>7901 south Capitol Street NW</td>
</tr>
</tbody>
</table>

---

GAR FEES

Initial GAR fee
Final GAR fee

---

SWAMP FEES

---
FEE PAYMENT - IN PERSON - UPLOADING PAYMENT RECEIPT

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Type of Document: Fee invoices or receipts
SGS shows assigned plan reviewer and review status

Inspection dates and documents can be accessed
Final Steps Prior to Approval:

1. Sign the maintenance responsibility and (if applicable) the Offv statement
2. Generate a new Required Plan Compliance Sheet
3. Attach a PDF of the plan
4. DOEE applies electronic approval stamps
5. After final fees are paid, you can access the approved plan
MAINTENANCE RESPONSIBILITY & OFFV

- All Stormwater Management Plans (SWMP) must have the person responsible for maintenance sign the Maintenance Responsibility Stamp online.
- All SWMPs with Offv must have the person responsible for achieving Offv sign the Offv Stamp online.
- These stamps must be signed by the site owner or someone with responsibility for long-term management of the site.
- These stamps are not typically completed by the project engineer.
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**Public User Home Page >> ESC, SWIM, GAR and FPM >> Sites and Plans >> Record View**

### BMPs

<table>
<thead>
<tr>
<th>BMP Site</th>
<th>BMP storage volume (cubic feet)</th>
<th>Retention volume achieved (cubic feet)</th>
<th>Downstream BMP ID Numbers</th>
<th>Treatment Train</th>
<th>Most recent maintenance inspection</th>
<th>Maintenance required</th>
</tr>
</thead>
<tbody>
<tr>
<td>37361-1-B</td>
<td>60</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37361-2-B</td>
<td>200</td>
<td>200</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37361-2-B</td>
<td>45</td>
<td>45</td>
<td>7306-2-2</td>
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<td></td>
<td></td>
</tr>
<tr>
<td>37361-2-B</td>
<td>350</td>
<td>350</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>37361-4-B</td>
<td>60</td>
<td>60</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### RETENTION AND TREATMENT REQUIREMENTS

<table>
<thead>
<tr>
<th>Site SWV (cubic feet)</th>
<th>Site SWV (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>450</td>
<td>3405</td>
</tr>
</tbody>
</table>

### RETENTION AND TREATMENT ACHIEVED

<table>
<thead>
<tr>
<th>Total on-site retention volume achieved by BMPs (cubic feet)</th>
<th>Total on-site retention volume achieved by BMPs (gal)</th>
</tr>
</thead>
<tbody>
<tr>
<td>710</td>
<td>5811</td>
</tr>
</tbody>
</table>

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@DOEE_DC

MAINTENANCE RESPONSIBILITY STAMP
MAINTENANCE RESPONSIBILITY

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Thank you for signing the Maintenance Responsibility Statement. Click the button “Generate Maintenance Stamps” to save a copy of this signed Maintenance Responsibility Statement in the list of documents for this plan. A pop-up window will display a status bar. Please wait for this bar to reach 100%. Then, click the Plan Number link to return to the plan information.

**Statement by Person Responsible for Maintenance**

I, the undersigned, hereby acknowledge and agree to the terms and conditions set forth in this Maintenance Responsibility Statement. I understand that any violation of these terms may result in legal action and that I am personally liable for any damages caused by non-compliance.

Signed electronically:

[Signature]

[Date]
• Leave a blank space on the first page:
  • 7 inches wide
  • 9.5 inches high
  • Located 1 inch below the top and 1 inch from the left

• Attach as a PDF, do not use a zip file

• Upload may timeout if the file is too large
  • Break up the file into parts and include the cover page as the first page for each part
  • Name the uploads "1 of 2," "2 of 2," etc
The first page of the plan also includes other project information, as directed by DOEE’s reviewer, including:
- Project name and address
- Plan number
- Map
- Sheet index
- Contact information
- Project narrative
- Square/Suffix/Lot or Parcel
Exemptions & Special Circumstances
GAR EXEMPTIONS

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Before submitting this plan, you must upload an Application for Emergency Relief or an Application for Temporary Exemption. You can check documents in the Key Documents section of this form. You can download the form at http://doee.dc.gov/gar.
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PLAN TYPE AND EXCEPTIONS

Describe exemptions from Erosion and Sediment Control:

Description of exemption:
Public Right of Way (PROW) Projects
Meet requirements to the Maximum Extent Practicable (MEP): doing the most you can but no need for off-site compliance

### Two Types of Public Right of Way Projects

<table>
<thead>
<tr>
<th>Type 1</th>
<th>Type 2</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Roadway Reconstruction Projects</strong></td>
<td><strong>Parcel-based Projects</strong></td>
</tr>
<tr>
<td>Entirely in the public right of way</td>
<td>Partially in the public right of way</td>
</tr>
<tr>
<td>Mostly conducted by DDOT</td>
<td>Typically disturb the adjacent right of way (e.g. sidewalk in front of building)</td>
</tr>
<tr>
<td>Submit at 30%, 65%, 90%, and final design phases</td>
<td></td>
</tr>
</tbody>
</table>

Credit: City of Falls Church, VA
Type 1

Roadway Reconstruction Projects
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<table>
<thead>
<tr>
<th>Public Right of Way - Roadway Reconstruction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Introduction</td>
</tr>
<tr>
<td>Site Information</td>
</tr>
<tr>
<td>Rainwater Harvesting</td>
</tr>
<tr>
<td>Landscape Engineer Info</td>
</tr>
<tr>
<td>Errors &amp; Compliance</td>
</tr>
<tr>
<td>Special Exemptions</td>
</tr>
<tr>
<td>ESC &amp; GAR</td>
</tr>
</tbody>
</table>
Type 2

Parcel-based Projects
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PUBLIC RIGHT OF WAY - SITE DRAINAGE AREAS
# Public Right of Way - Permeable Pavers

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---

### Public User Home Page >> ESC, SWM, GAR and FPM >> Sites and Plans >> Record View

---

### BMP Location

**General BMP Information**

<table>
<thead>
<tr>
<th>Plan Number</th>
<th>BMP Type</th>
<th>BMP Group</th>
<th>BMP Name</th>
<th>BMP Location</th>
<th>BMP Description</th>
<th>BMP Cost</th>
<th>BMP Status</th>
<th>BMP Type</th>
<th>BMP Group</th>
<th>BMP Name</th>
<th>BMP Location</th>
<th>BMP Description</th>
<th>BMP Cost</th>
<th>BMP Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>123</td>
<td>BMP1</td>
<td>GroupA</td>
<td>NameA</td>
<td>LocationA</td>
<td>DescriptionA</td>
<td>CostA</td>
<td>StatusA</td>
<td>TypeA</td>
<td>GroupA</td>
<td>NameA</td>
<td>LocationA</td>
<td>DescriptionA</td>
<td>CostA</td>
<td>StatusA</td>
</tr>
</tbody>
</table>

### Contributing Drainage Area

<table>
<thead>
<tr>
<th>Project Type</th>
<th>Total Area</th>
<th>Natural cover</th>
<th>Compacted cover</th>
<th>Impervious cover</th>
<th>BMP land cover</th>
<th>BMP access area</th>
<th>BMP surface area</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre Project</td>
<td>1000</td>
<td>500</td>
<td>300</td>
<td>200</td>
<td>100</td>
<td>200</td>
<td>50</td>
</tr>
<tr>
<td>Post Project</td>
<td>500</td>
<td>200</td>
<td>300</td>
<td>200</td>
<td>100</td>
<td>200</td>
<td>50</td>
</tr>
</tbody>
</table>

---

### Stormwater Management Plans

- Surface and Groundwater System - ESC, SWM, GAR & FPM
PUBLIC RIGHT OF WAY – PERMEABLE PAVERS

Figure 3.14 Cross section of an enhanced permeable pavement design with an underdrain.

Source: 2020 Stormwater Management Guidebook (pg. 82)
doe.dc.gov/swguidebook
PUBLIC RIGHT OF WAY - PERMEABLE PAVERS

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Total Storage Volume
Sump Storage Volume

Surface and Groundwater System - ESC, SWM, GAR & FPM

Total Storage Volume
Sump Storage Volume
Unregulated Stormwater Management Plans
**Unregulated projects**: Projects that are done solely to generate SRCs

SRC eligibility will be based on retention achieved in excess of pre-project retention but less than the SRC ceiling.

Attend a DOEE SRC training for more information.
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| ESC & GAR |  |

![Image of a webpage with a form for submitting plans and information about site drainage area, BMPs, and stormwater management plans.]
Off-Site Contributing Drainage Area
OFF-SITE CONTRIBUTING DRAINAGE AREAS

- For parcels, retaining volume from an off-site area does not contribute to meeting the SWRv.

- Retaining volume from an off-site area may be eligible for Stormwater Retention Credit (SRC) certification.
OFF-SITE CONTRIBUTING DRAINAGE AREAS

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Erosion and Sediment Control (ESC) & Green Area Ratio (GAR) Plans
SUBMITTING NON-STORMWATER MANAGEMENT PLANS

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SUBMITTING NON-STORMWATER MANAGEMENT PLANS
To access DOEE’s Surface and Groundwater System:
doe.dcgov/sgs

For DOEE’s stormwater management regulations and related information: doee.dcgov/swregs

Regan Wilhelm
Regan.wilhelm@dc.gov
(202) 671-5004

Lukin Jacob
Lukin.Jacob@dc.gov
(202) 819-3289