

# Meeting with Mr. Wentworth

## Agenda:

- Introduction
- DC Water CIP Planning Process
- RCMI
- Creekbed Projects

December 4, 2019

**DCWATER.COM**

- DC Water's capitalization policy determines how expenditures will be recognized and accounted.. The following guidelines are used to categorize items as capital, capital equipment or operating (innovations and maintenance):
  - Capital Project – has a long life (average of 30 years), a minimum cost of \$500,000, and is financed with 30 year bonds.
  - Capital Equipment – has a life of at least 3 years, a cost exceeding \$5,000 and is financed with short-term debt or cash.
  - Innovations – has uncertain future benefit to organization and is expensed as incurred.
  - Maintenance – are routine, cost under \$5,000, and do not extend the life of the item more than 3 years.
- CIP Budget Allocation Priority
  - 1. **Mandates** (Agreements, Regulatory standards, Court orders, Issues and Permits requirements, Stipulated Agreements, Etc.)
  - 2A. **Health and Safety** (Required to address Public Safety)
  - 2B. **Board Policy** (Undertaken as a result of the Board's commitment to outside agencies)
  - 2C. **Potential Failure** (Related to Facilities in danger of failing, or critical to meeting permit Requirements)
  - 2D. **High Profile/Good Neighbor** (Address Public Concern)
  - 3A. **Good Engineering/High Payback** (Need to fulfill Mission and upgrade Facilities)
  - 3B. **Good Engineering/Lower Payback** (Lower priority projects)

## LoS Categories:

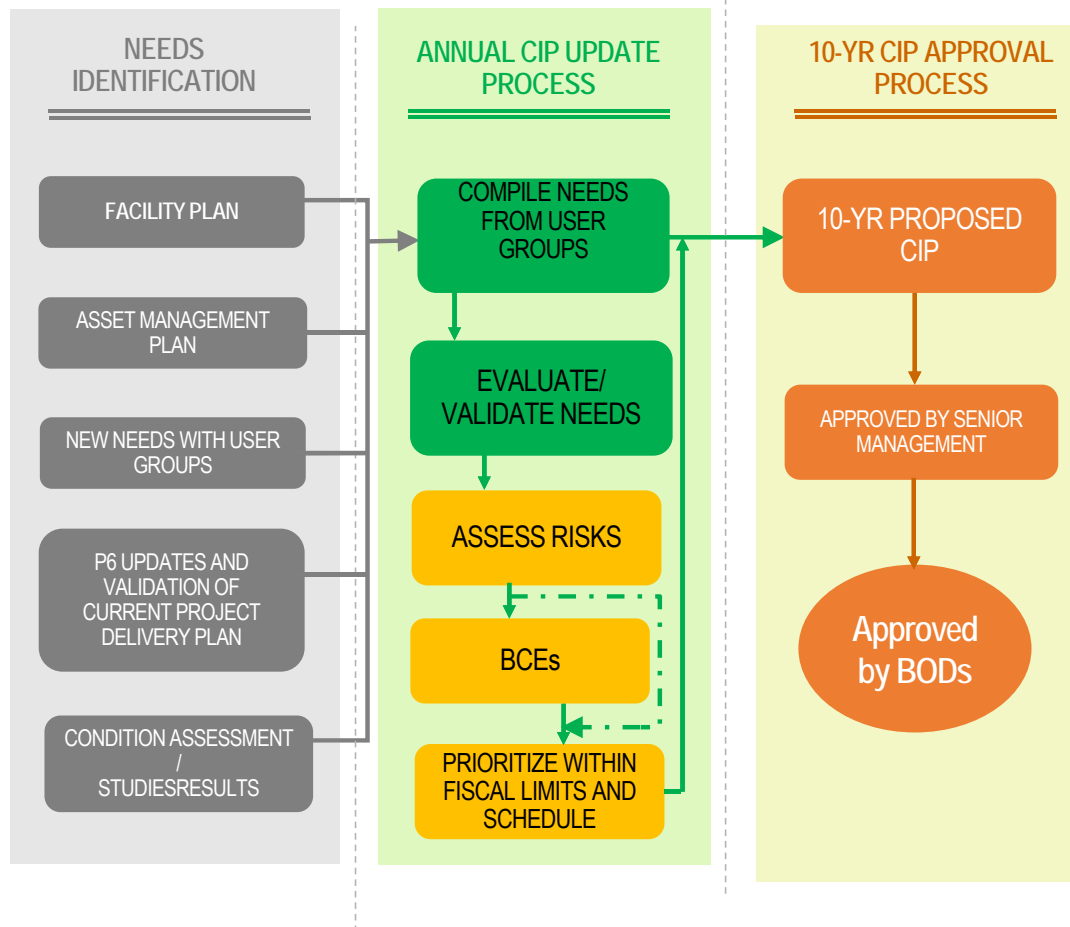
1. Health and Safety
2. Public Confidence
3. System Reliability
4. Regulatory Compliance and Environmental Impact
5. Fiscal Impacts

Category		Target Level
System Reliability	Wastewater Treatment	No loss of treatment or system effectiveness
	Sewer System / Stormwater System	No loss of capacity No SSOs or dry weather CSOs
	Water Distribution System	No loss of capacity ≥35 psi at customers' meters No outage
Regulatory Compliance and Environmental Impact	Wastewater Treatment	Full compliance with regulatory requirements and permits
	Sewer System / Stormwater System	Full compliance with regulatory requirements, consent decree, and permits
	Water Distribution System	Primary and Secondary drinking water standards met



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# DC WATER CIP PLANNING CYCLE OVERVIEW



## Project Justification



AMP, Facility Plans, Condition Assessment Reports, Board Policy, Studies, Memos, Needs List, Changes to Approved Projects

## New Project Request

**NEW PROJECT**

Project ID & Title: \_\_\_\_\_

Proposed Lifetime Budget: \$ \_\_\_\_\_ Year Start: FY####

Design	\$####
Construction (including Paving)	\$####
Construction Management	\$####
DDOT	\$####
<b>Total:</b>	<b>\$#####</b>

**Description:**

**Justification:**

**Impacts:**

**Uncertainties:** |

**Impact on Operations:**

**Projected Disbursements by Fiscal Year (\$000s)**

	FY19	FY20	FY21	FY22	FY23	FY24	FY25	FY26	FY27	FY28
Prop. Project	0	\$###	\$###	\$###	\$###	0	0	0	0	0

FY 2019 - FY2028 Water CIP

## Project Validation

**CIP Project Evaluation Form**

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Part I: 1. General Project/Job information. Form Completed at ☐ Program Level ☐ Project Level ☐ Job Level

Project ID: \_\_\_\_\_ Project Name: \_\_\_\_\_

Job ID: \_\_\_\_\_ Job Name: \_\_\_\_\_

☐ New Project ☐ Existing Project ☐ Project Bud

☐ Consent Decree Project ☐ Permit Required ☐ Project Sche

Initiating Department: \_\_\_\_\_ Business Case Evaluation (BCE) A

CIP Service Area: \_\_\_\_\_ Business Case Evaluation (BCE) Co

Project Identified in Facilities Plan

Fiscal Year Introduced to CIP: \_\_\_\_\_

Project Status: ☐ Planning ☐ New Need ☐ (Other) \_\_\_\_\_

**2. Project Overview**

A. Project Description. Provide a brief project, describe the assets effected in

B. Project Justification. Provide supp and/or issues are being addressed, ex goals, and major assumptions.

**3. Justification for Project Budget, Schedule or Scope Change -- if applicable**

Provide additional supporting detail, including project scope and reason for the project (e.g., problem to be addressed), project drivers, past problems/issues, expected impacts, analysis performed, data reviewed, alignment with organizational goals, and major assumptions and tasks.

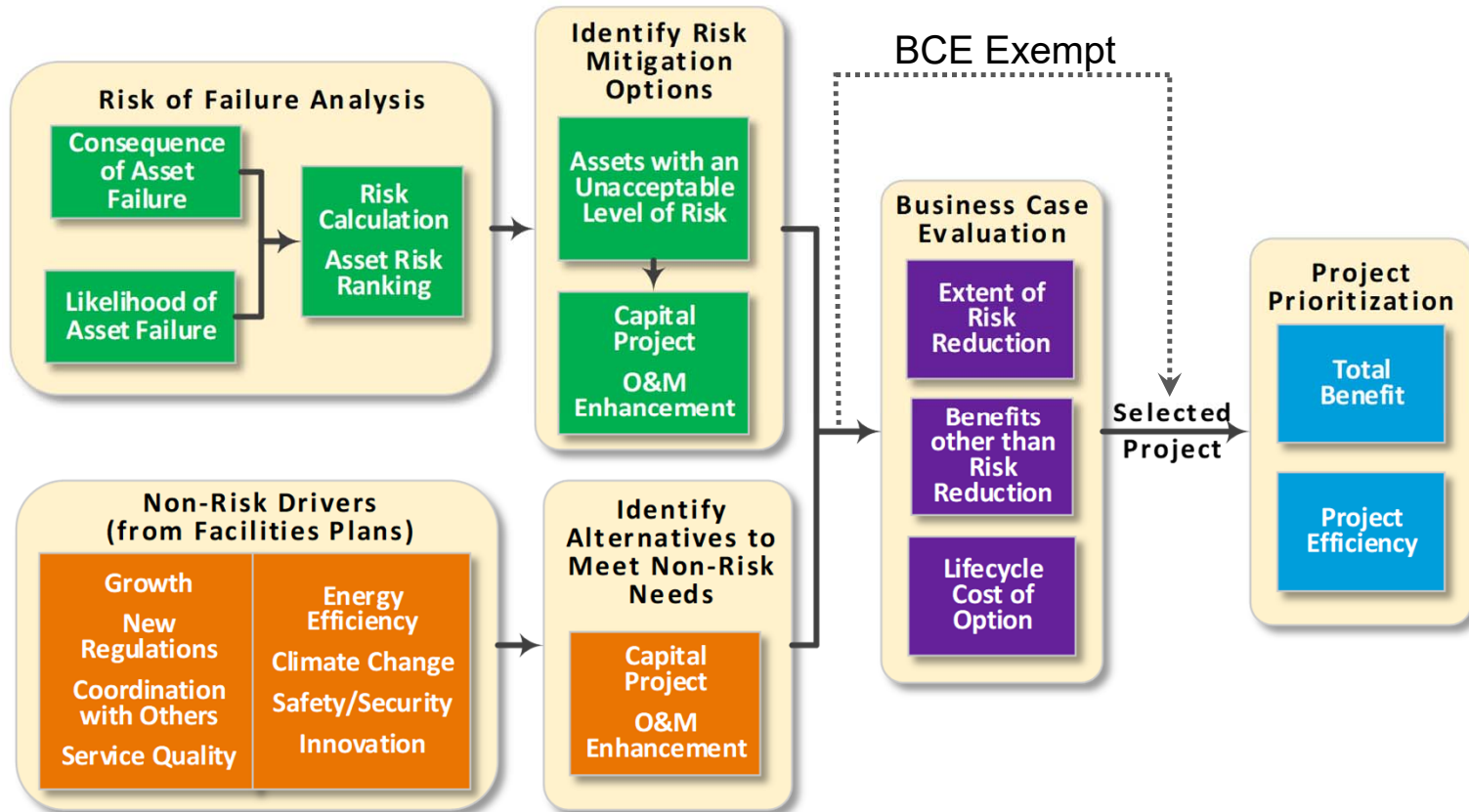
Constraints/Dependencies. Describe any major project constraints, dependencies, uncertainties, permitting issues, or potential operational impacts that may impact implementation.

Score Sheet for CIP Prioritization

Prioritization	Score	Justification
1. Regulatory Compliance	0 1 2 3 4	
2. Health & Safety	0 1 2 3 4	
3. Risk Reduction	0 1 2 3 4	
4. System Capacity and Growth	0 1 2 3 4	
5. Financial Benefits	0 1 2 3 4	
6. Supplemental Benefits	0 1 2 3 4	
7. Long Term Public Image	0 1 2 3 4	
8. Coordination with other projects	0 1 2 3 4	
<b>Total</b>	<b>0</b>	

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## Internal Stakeholder Engagement



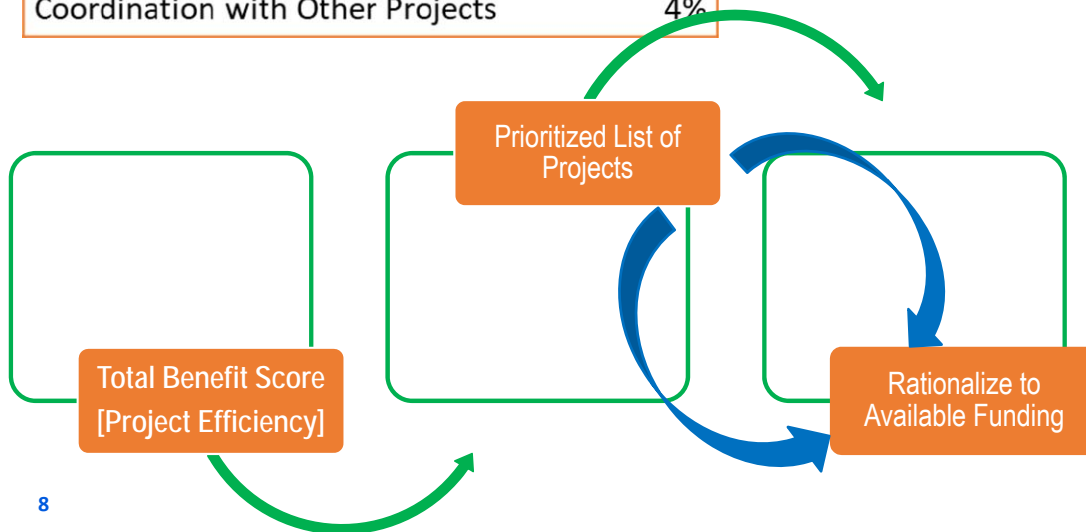
- Risk is calculated as a product of COF & LOF based on DC Water defined criteria
- Consequence of Failure (COF):

COF Category	Weighting
Health and Safety	25%
Public Confidence	15%
System Reliability	20%
Regulatory Compliance and Environmental Impact	25%
Fiscal Impacts	15%

- Likelihood of Failure (LOF):

LOF Category	Weighting
Physical Condition	55%
Performance	35%
Maintenance	10%

Criteria	Weight
Regulatory Compliance	27%
Health and Safety	20%
Risk Reduction	18%
Financial Benefits	11%
System Capacity and Growth	8%
Public Image	7%
Supplemental Benefits	5%
Coordination with Other Projects	4%





## Rock Creek Main Interceptor (RCMI):

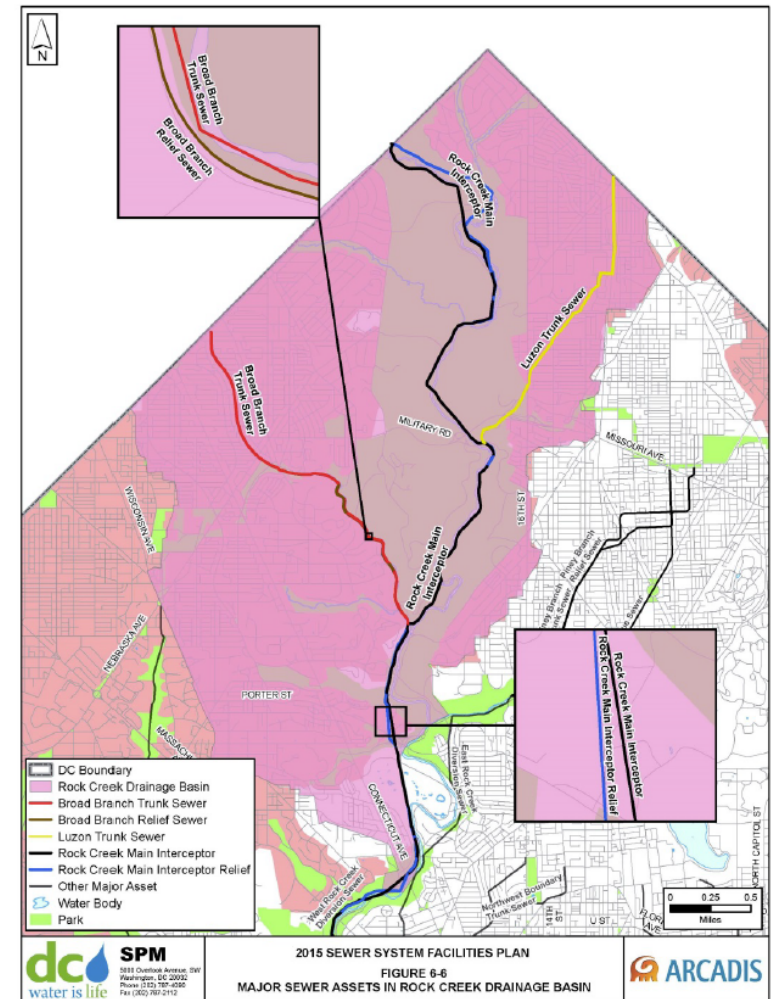
- 36-inch to 66-inch RCP
- 44,000 LF (approx.)

## Rock Creek Main Interceptor Relief Sewer (RCMIRS):

- 54-inch to 66-inch
- 12,040 LF (approx.)

## Inspections:

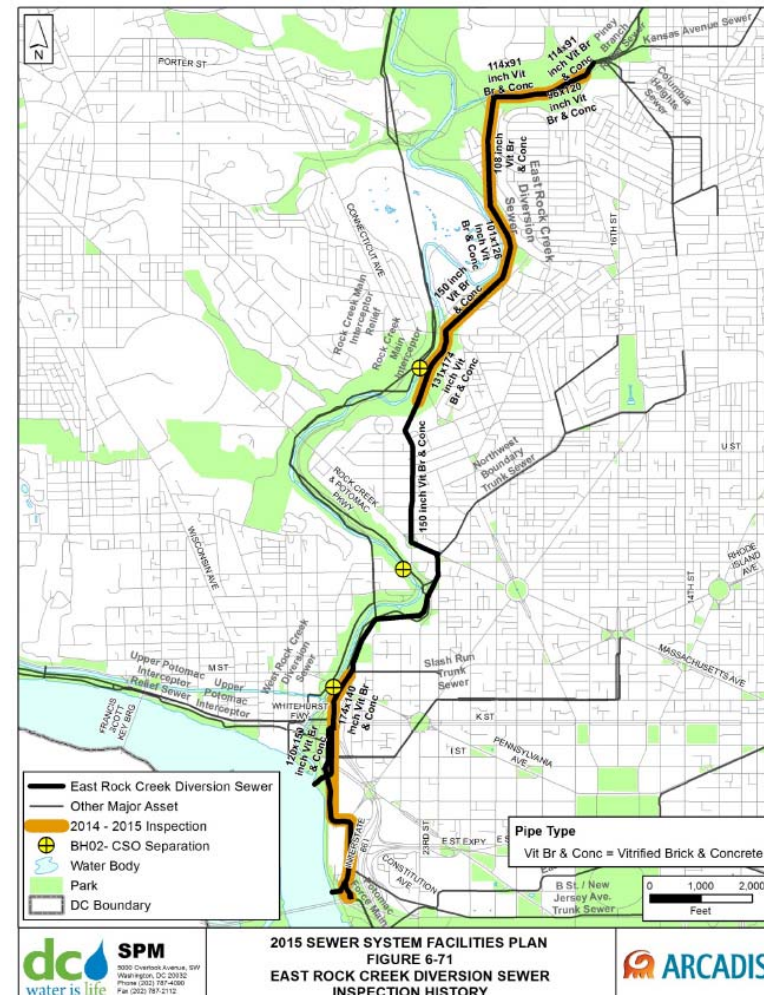
- 2006 – RCMI and RCMIRS
- 2011 – RCMI
- 2013 – RCMIRS
- 2014 – 2015 – RCMI and RCMIRS



## East Rock Creek Diversion Sewer:

- 18,000 LF (approx.)
- Size varies from 9'-6" x 7'-7 1/4" to 12'-6" x 10'-0"

**Inspections: 2014 – 2015**



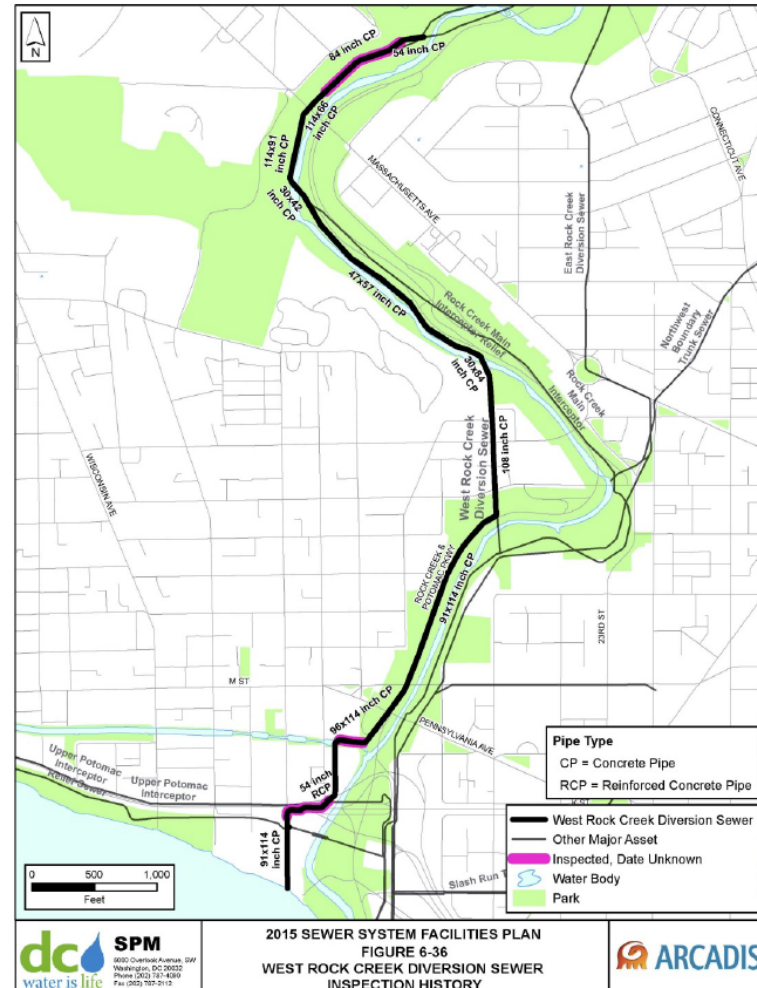
## West Rock Creek Diversion

### Sewer:

- 18,000 LF
- Size varies from 9'-6" x 7'-7 1/4" to 12'-6" x 10'-0"

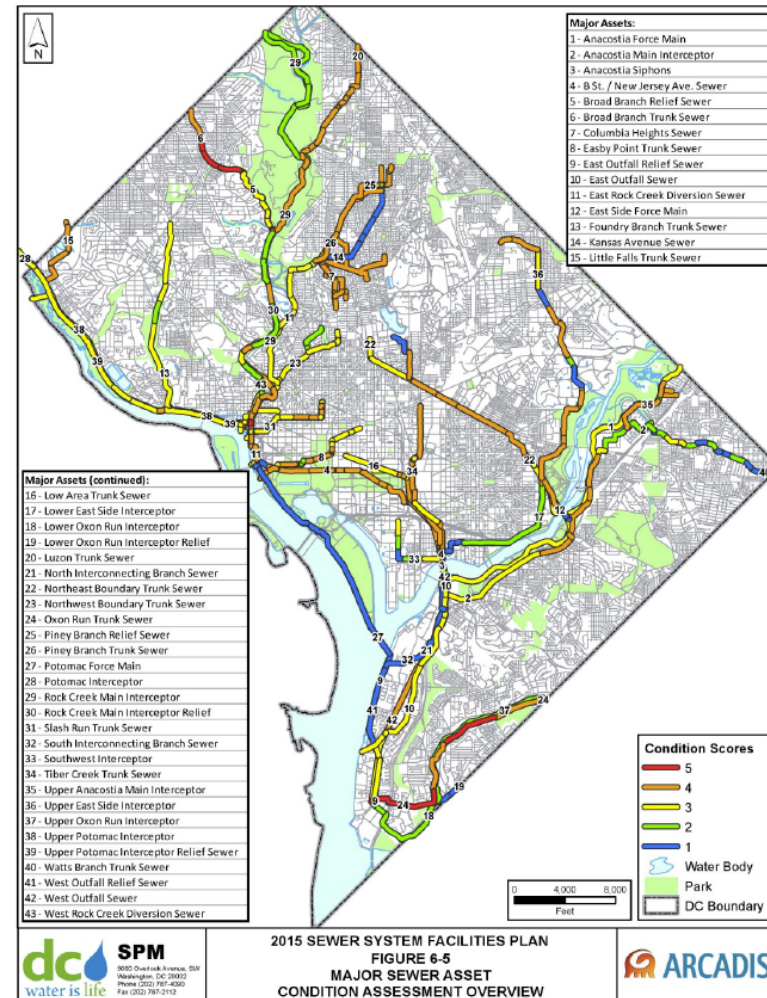
### Inspections:

- Before 2006
- 2011 (attempted)



## Major Sewers Ranking Based on Average Risk Score (as of 11/2019)

Major Asset Name	Risk Average
8 Easby Point Trunk Sewer	60.32
4 B Street New Jersey Avenue	50.47
17 Lower East Side Interceptor	47.56
23 Northwest Boundary Sewer	44.20
34 Tiber Creek	43.90
22 Northeast Boundary Sewer	42.40
11 East Rock Creek Diversion	41.86
10 East Outfall	39.88
Potomac Interceptor Relief Sewer	39.22
31 Slash Run	39.03
43 West Rock Creek Diversion	38.90
42 West Outfall Sewer	38.79
2 Anacostia Main Interceptor	38.28
29 Rock Creek Main Interceptor	37.34
28 Potomac Interceptor - Outside the District	35.28
16 Low Area Trunk Sewer	35.08
39 Upper Potomac Interceptor Relief Sewer	34.77
Combined Outfall Relief Sewer	34.47
38 Upper Potomac Interceptor	34.11
Sanitary Outfall Relief Sewer	33.00
26 Piney Branch	31.40
3 Siphons	31.28
21 North Interconnecting Branch	29.75
40 Watts Branch	29.49
32 South Interconnecting Sewers	29.17
36 Upper East Side Interceptor	28.27
15 Little Falls	27.59
First Street Tunnel	27.28
30 Rock Creek Main Interceptor Relief	26.90
33 Southwest Interceptor	25.10
18 Lower Oxon Run Interceptor	23.35
Blue Plains Tunnel	23.14
5 Broad Branch Trunk Relief	21.74
19 Lower Oxon Run Relief	19.71
24 Oxon Run Trunk	19.33
20 Luzon Trunk Sewer	19.13
6 Broad Branch Trunk	18.83
37 Upper Oxon Run Interceptor	17.64





**This is a DOEE Effort**

The Department of Energy and Environment (DOEE) is currently working on a National Environmental Policy Act (NEPA) document for Pinehurst.

Please contact Stephen Reiling at (202) 617-4733 or [stephen.reiling@dc.gov](mailto:stephen.reiling@dc.gov) for any Information regarding Pinehurst.



## Proposed scope of work

- Rehabilitation and protection of approximately 2,500 linear feet of sanitary sewer pipe within the project area
- Rehabilitation of manholes
- Rehabilitation of three Municipal Separate Storm Sewer System (MS4) outlets

## Future DC Project

Please refer to the following DC Water Website for additional information:

<https://www.dewater.com/projects/sewer-rehabilitation-project-fenwick>



The screenshot shows the DC Water website page for the "Sewer Rehabilitation Project - Fenwick". The page features a header with the DC Water logo and navigation links. The main content area includes a large photograph of a brick manhole structure in a wooded area. To the right of the photo is a "CONTACT INFORMATION" section listing the project manager, emergency contact, and external affairs office. Below this is a "RELATED PROJECTS" section with two smaller images and captions: "Watts Branch Sewer Rehabilitation Project" and "Sewer Rehabilitation Project - Glover-Archbold Park". At the bottom, there is an "Overview" section with text describing the project's scope, location, and coordination with the National Park Service.

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Home Projects Sewer Rehabilitation Project - Fenwick

**Sewer Rehabilitation Project - Fenwick**

**CONTACT INFORMATION**

DC Water Project Manager:  
Shayne Philpotts (202) 787-2099  
Email: Shayne.Philpotts@dcwater.com

DC Water 24-hour Emergency:  
(202) 612-3400

DC Water Office of External Affairs:  
(202) 787-2200

**RELATED PROJECTS**

Watts Branch Sewer Rehabilitation Project

Sewer Rehabilitation Project - Glover-Archbold Park

**Overview**

DC Water is performing sewer rehabilitation projects throughout the city as part of its Capital Improvement Program (CIP). The Fenwick Branch Sewer Rehabilitation project would involve the rehabilitation and protection of sanitary sewer (approximately 2,500 linear feet) from the Northernmost corner of the MD/DC border to Redbud Lane. This project area also includes sewer and Municipal Separate Storm Sewer System (MS4) Outfalls rehabilitation at North Portal Drive and West Beach Drive, NW. Benefits of this project would include the rehabilitation of an aging sanitary sewer system, improved structural integrity while maintaining adequate hydraulic capacity, and the reduction of stream and groundwater infiltration and potential sanitary sewer overflows.

In preparation for this project, thorough evaluations including internal inspections of the pipes and manholes and field investigations were conducted to assess the condition of the sewers and inventory the environmental resources present. The project is located within the Pinehurst Branch stream valley within the National Park Service (NPS) property. Because the project will cause impact on NPS land, DC Water is also coordinating with NPS as the lead federal agency on the preparation of a National Environmental Policy Act (NEPA) document during preliminary design studies. Other agencies may also

### **Overview**

The proposed Glover-Archbold Park Sewer project would involve an alternative to address aging and defective sewer pipes from Van Ness Street, NW to Canal Road, NW.

### **Proposed Scope of Work**

- Approximately 20,400 linear feet of sanitary sewer pipe within the project area would be addressed.
- Sixty-seven manholes would be addressed.
- Asset protection would be completed.
- Two Municipal Separate Storm Sewer System (MS4) outlets would be repaired and one MS4 would be extended.







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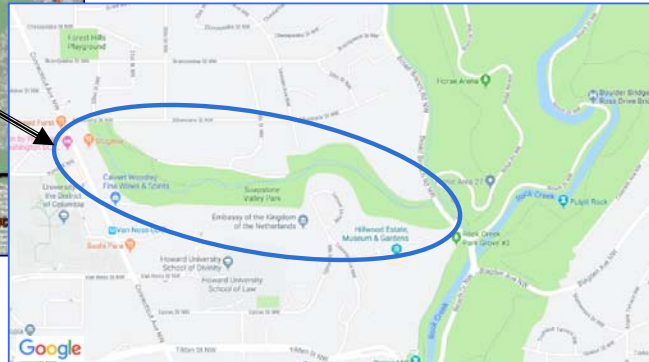
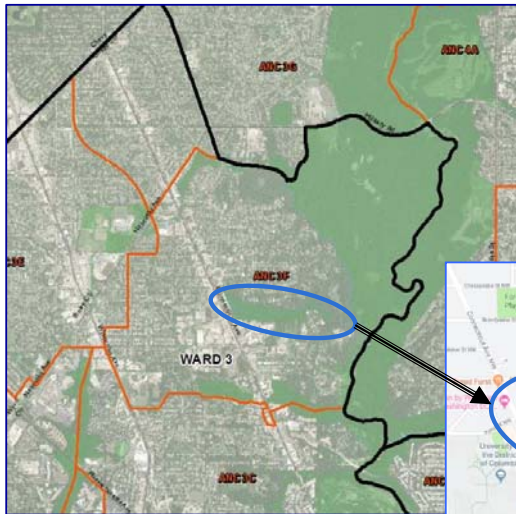
# Glover Archbold Park Proposed Rehabilitation

## Schedule

- Draft NEPA document: Submitted to NPS for review on January 30, 2017
- Draft NEPA document is currently being reviewed by the NPS
- NPS and DC Water completed site visits to discuss the Statement of Findings (SOF), March 2017
- NPS and DC Water completed site visits to discuss SOF, November 2017
- A Pump Station Design was considered but dismissed as an alternative, March 2018
- NPS and DC Water conducting preliminary planning walkthroughs of park, fall 2018

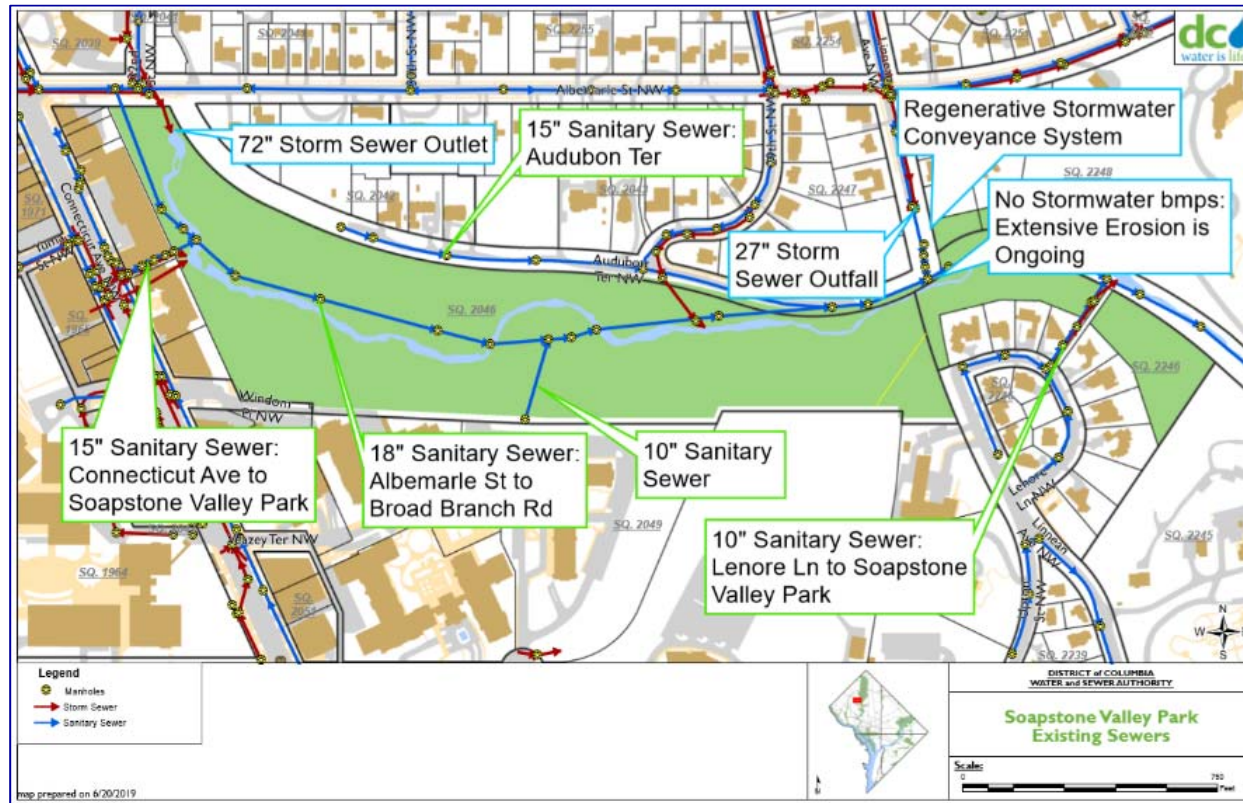








# Soapstone Valley Park Background Existing Sewers



## Public Review and Comment

- 60-day Public Review from June 4<sup>th</sup> to August 2<sup>nd</sup>, 2019
- The public was encouraged to review and comment :
  - <https://parkplanning.nps.gov/soapstonesewer>



**National Park Service**

Find a Park Discover History Explore Nature Get Involved Working With Communities Teachers Kids About Us

PEPC Planning, Environment & Public Comment

PEPC Home Documents by Park Policy/Links Park Planning Search Documents

**PROJECT LINKS**

- Project Home
- Plan Process
- Meeting Notices
- Links
- Document List
- Open For Comment (0)

### Rehabilitation of Sewer Infrastructure in Soapstone Valley Park

[Rock Creek Park » Rehabilitation of Sewer Infrastructure in Soapstone Valley Park » Document List](#)

The District of Columbia Water and Sewer Authority (DC Water) in cooperation with the National Park Service (NPS) welcome public review and comment on a proposal to rehabilitate the sanitary sewer system in Soapstone Valley Park. Soapstone Valley Park is managed by Rock Creek Park and is located southeast of the intersection of Connecticut Avenue NW and Albemarle Street NW, extending to Broad Branch Road NW.

Through this project, DC Water would rehabilitate the aging sewer infrastructure within the Soapstone Valley Park sewer system while limiting disturbances to park resources. To ensure public safety, sections of Soapstone Valley Park would be closed to visitors throughout the project.

The proposed project would involve the following:

- Clean, line and repair approximately 5,200 linear feet of sanitary sewer pipe.
- Reduce stream and groundwater infiltration and reduce potential for sewer overflows.
- Eliminate exposed pipes and manholes to the greatest extent possible.
- Repair stormwater outfalls that are part of the Municipal Separate Storm Sewer System (MS4) outlet.

Because much of the rehabilitation project will take place in Soapstone Valley Park, DC Water has prepared an Environmental Assessment (EA) to identify and evaluate the potential impacts on natural resources and cultural resources. The EA describes two alternatives, a no action alternative and a trenchless alternative (DC Water's preferred alternative).

There are three ways to comment on the Soapstone Valley Park Sewer Rehabilitation EA during the 60-day public review period from Tuesday, June 4, 2019, through Friday, August 2, 2019:

- In person at a public meeting on Wednesday, June 26, 2019, from 6 p.m. to 8 p.m. at the Forest Hills of DC Assembly Hall, 4901 Connecticut Avenue NW, Washington, DC 20008
- Online on this website (see Open for Comment link to the left of this page)
- By Mail for letters postmarked by August 2, 2019:

Superintendent, Rock Creek Park  
Attention: Soapstone Valley Park Sewer Rehabilitation EA  
3545 Williamsburg Lane NW  
Washington, DC 20008

Please Note: Before including an address, phone number, email address, or other personal identifying information in your comment, you should be aware that your entire comment—including your personal identifying information—may be made publicly available at any time. While you can ask us in your comment to withhold your personal identifying information from public review, we cannot guarantee that we will be able to do so.

DC Water has produced two hard copies of the Soapstone EA for public review at the following locations:

Tenley-Friendship Public Library  
Second Floor Information Desk  
4450 Wisconsin Ave, NW Washington, DC 20016  
(202) 727-1488

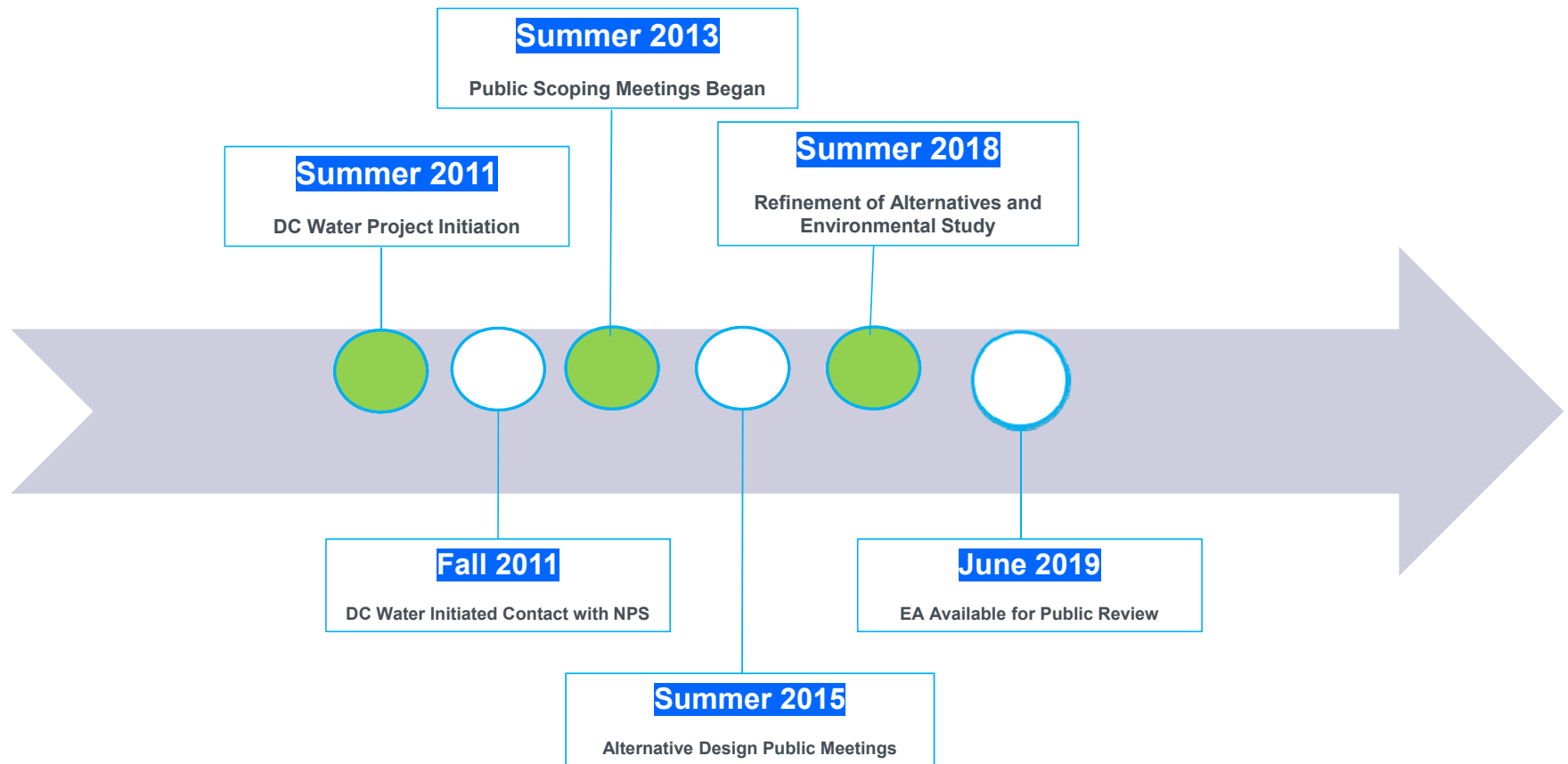
University of the District of Columbia (UDC) Library  
4200 Connecticut Ave, NW, Washington, DC 20008  
Note: Contact UDC Reference Librarian Chris Anglin - (202) 274-5843

**Contact Information**  
Emanuel D. Briggs  
Manager, Community Outreach, Office of Marketing and Communications  
District of Columbia Water and Sewer Authority  
1385 Canal Street SE  
Washington, DC 20003  
(202) 787-2003  
Email: [emanuel.briggs@dcwater.com](mailto:emanuel.briggs@dcwater.com)



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## Scoping – Meeting Timeline



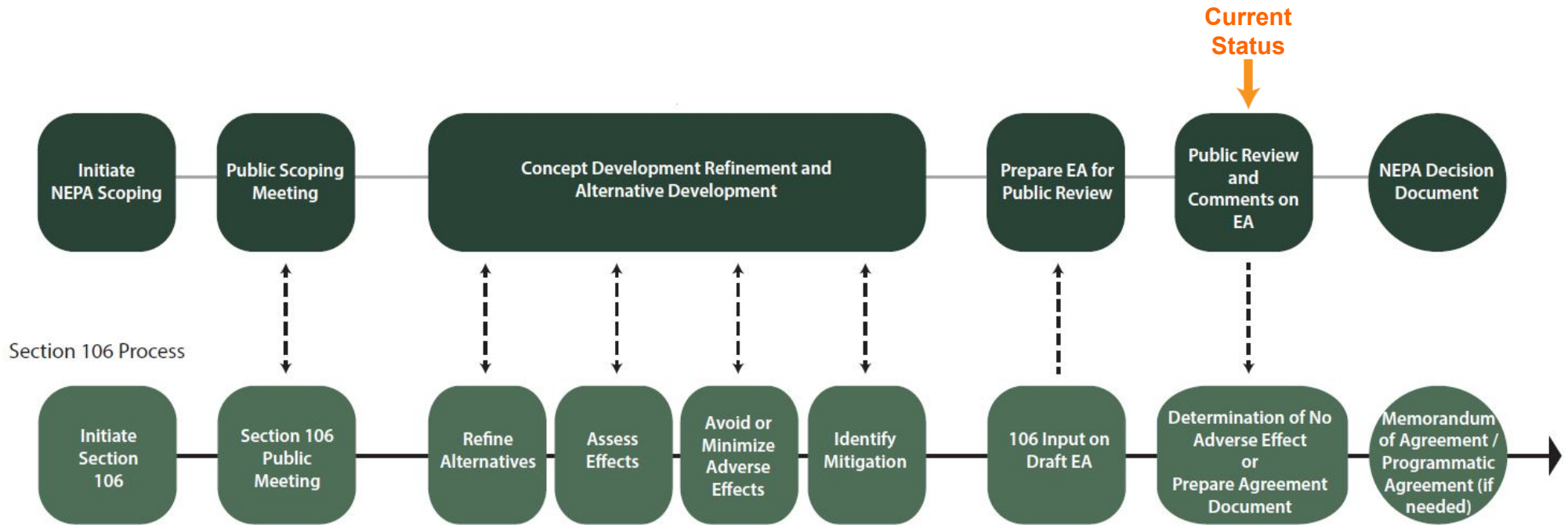


Figure. Outline of NEPA and Section 106 processes. Retrieved from <https://parkplanning.nps.gov/document.cfm?parkID=198&documentID=83443> on June 17, 2019.



## Questions & Discussions