

U S E R G U I D E

Opportunities for Integrated Water Management

Jamaica Bay, New York City — Interactive Web Map

Town & Gown NYC · NYC Department of Design & Construction

https://ctohsuwanwanich.github.io/ddc_webmap/

About This Guide

This guide explains how to navigate and use the Opportunities for Integrated Water Management interactive web map, developed by Town & Gown NYC in partnership with the NYC Department of Design & Construction (DDC). The map provides a spatial reading of capital infrastructure projects across the Jamaica Bay watershed, commissioned by DEP, DDC, DOT, and DPR.

Use this guide to understand the two main viewing modes, learn how to filter and explore project data, and navigate the cluster tour that highlights inter-agency collaboration opportunities.

Understanding the Map

The map visualizes capital projects across the Jamaica Bay watershed to identify where multiple city agencies are working in overlapping areas. This surfaces opportunities to consolidate effort, share budgets, and maximize resilience benefits.

City Agencies on the Map

Four NYC agencies are represented, each with a distinct color-coded pill:

Agency	Full Name	Role / Focus
DEP	NYC Dept. of Environmental Protection	Water quality, green infrastructure, stormwater management
DDC	NYC Dept. of Design & Construction	Capital construction and procurement
DOT	NYC Dept. of Transportation	Streets, bridges, and public rights-of-way
DPR	NYC Dept. of Parks & Recreation	Parks, greenways, and open space capital projects

Section 1: The Landing Screen

When you open the map, you will see a full-screen landing page with a brief description of the project and two entry-point cards.

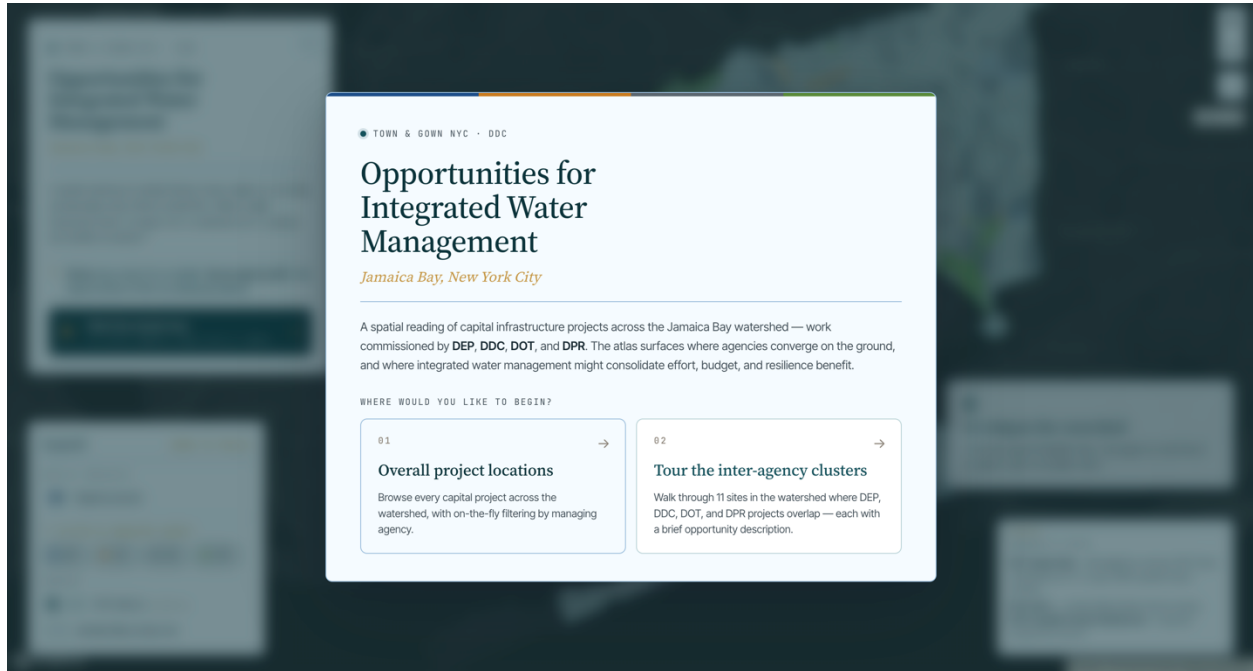


Figure 1 — The landing screen with two entry options

Entry Options

The landing screen presents two ways to begin exploring:

- | | |
|----|---|
| 01 | Overall project locations — Browse every capital project across the watershed. Filter by managing agency using the legend pills. |
| 02 | Tour the inter-agency clusters — A guided walkthrough of 11 sites where two or more agency projects overlap, each with a brief opportunity description. |

TIP	Both entry points lead to the same base map. You can switch between free exploration and the guided cluster tour at any time from within the map.
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Section 2: The Main Map Interface

Once you enter the map, you will see the Jamaica Bay watershed with project markers, lines, and polygons overlaid on a dark basemap. The interface has three main areas: the top navigation bar, the map canvas, and the legend panel.



Figure 2 — The main map interface showing key areas

Top Navigation Bar

The narrow bar across the top of the screen contains the site title and a button to start or resume the cluster tour: '● Start the cluster tour — 11 inter-agency opportunity sites →'.

TIP On smaller screens, the top bar may collapse. Scroll up if the cluster tour button is not visible.

Map Canvas

The central area displays the Jamaica Bay watershed. Project data appears as:

- Point markers — individual project locations
- Lines — linear infrastructure such as roads or waterways
- Polygons — area-based projects such as parks or stormwater retention zones

Navigating the Map

Pan	Click and drag (desktop) or swipe (mobile) to move around the map.
Zoom In	Scroll up with the mouse wheel, pinch outward on touchscreen, or use the + button.
Zoom Out	Scroll down with the mouse wheel, pinch inward on touchscreen, or use the – button.
Reset View	Refresh the page in your browser to return to the default map extent.

Section 3: Exploring Project Details

Hover over (or tap on mobile) any project marker, line, or polygon to see its details.

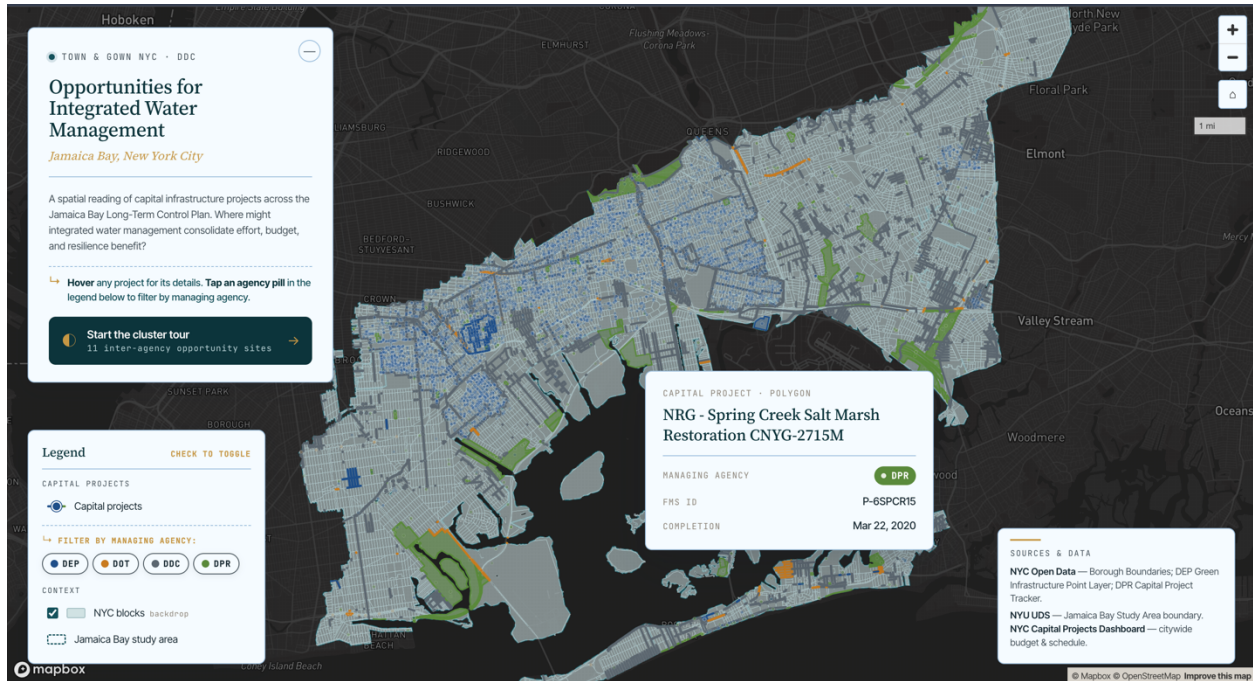


Figure 3 — A tooltip appears when hovering a project element

What the Tooltip Shows

Moving your cursor over a project element reveals a tooltip containing:

- Managing agency (DEP, DOT, DDC, or DPR)
- Project name or identifier
- Estimated completion date
- Project type or brief description (where available)

NOTE On mobile devices, tap a marker to show the tooltip. Tap elsewhere on the map to dismiss it.

Section 4: Filtering by Agency

The legend panel in the bottom-left corner of the map includes agency filter pills that let you show or hide projects by managing agency.

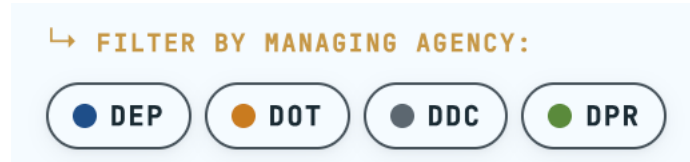


Figure 4 — Agency filter pills. Active agencies appear in full color; inactive pills are dimmed.

Using the Filter Pills

1	Find the legend panel in the bottom-left corner of the map.
2	Locate the row labelled 'Filter by managing agency:' showing four colored pills: DEP, DOT, DDC, and DPR.
3	Click or tap any pill to toggle that agency on or off. Active agencies appear in full color; dimmed pills are inactive.
4	Multiple agencies can be active at once. By default, all four are enabled.

TIP	To identify overlap zones, activate two agencies simultaneously. Where their markers cluster together, integration opportunities are most likely.
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Context Layers

The legend also provides two optional background layers toggled via checkboxes:

- NYC blocks backdrop — shows the underlying city block structure
- Jamaica Bay study area — highlights the defined study boundary polygon

Section 5: The Inter-Agency Cluster Tour

The cluster tour is a guided walkthrough of 11 sites within the Jamaica Bay watershed where projects from two or more agencies overlap. Each site includes a brief narrative describing the coordination opportunity.

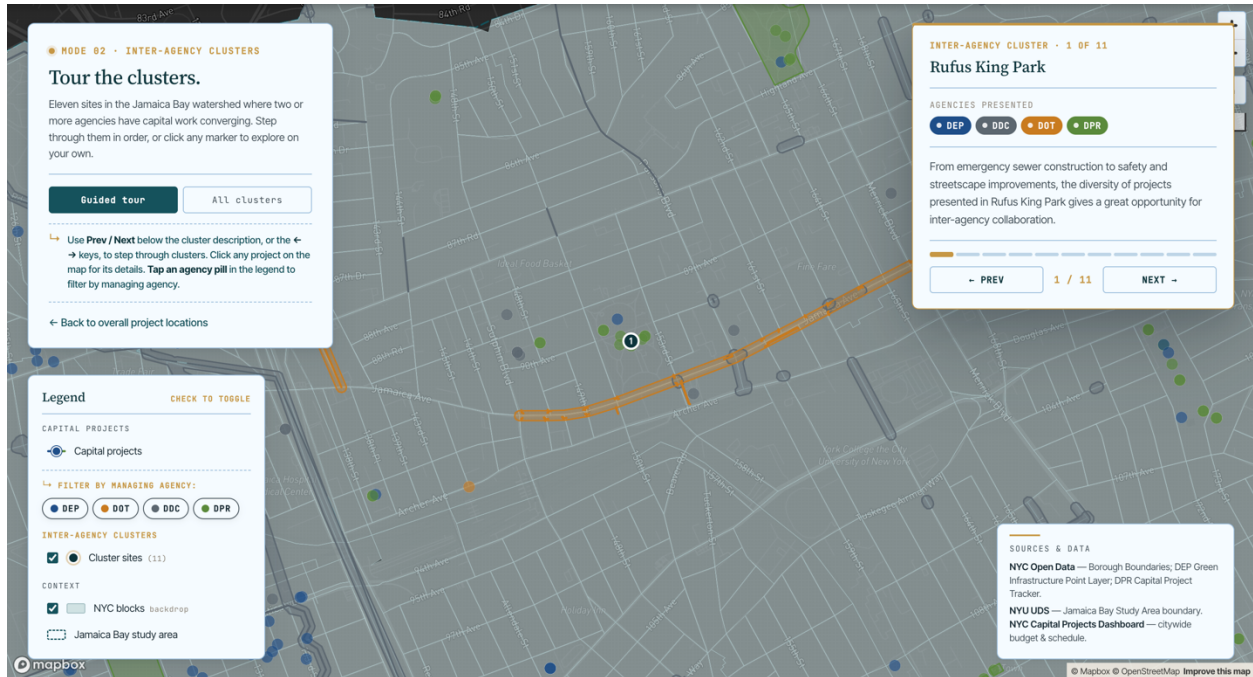


Figure 5 — The cluster tour side panel; use Prev and Next to navigate between sites

Starting the Tour

- 1 From the landing screen, click the '02 Tour the inter-agency clusters' card.
- OR From within the map at any time, click 'Start the cluster tour' in the top navigation bar.

Navigating Between Sites

- | | |
|-----------|--|
| ←
Prev | Go back to the previous cluster site. |
| Next
→ | Advance to the next cluster site. |
| 1 / 11 | The counter shows your current position in the tour. |
| × | Close the tour panel and return to free exploration. |

As you navigate, the map automatically pans and zooms to center on the active cluster site, and the relevant markers are highlighted.

What Each Site Shows

- Site name and approximate location
- The agencies whose projects overlap at that site
- A brief narrative describing the integrated management opportunity

NOTE	The cluster tour and the agency filter pills work independently. You can filter by agency while touring to focus on specific agencies' projects at each site.
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Section 6: Data Sources

The map draws on the following publicly available datasets:

Source	Data Used
NYC Open Data	Borough Boundaries; DEP Green Infrastructure Point Layer; DPR Capital Project Tracker
NYU UDS	Jamaica Bay Study Area boundary polygon
NYC Capital Projects Dashboard	Citywide budget and schedule data for capital projects

Quick Reference

I want to...	How
See all projects	Open the map — all four agency pills are active by default
See only DEP projects	Click DOT, DDC, and DPR pills to deactivate them, leaving only DEP active
Read project details	Hover over (or tap) any marker, line, or polygon on the map
Start the cluster tour	Click '● Start the cluster tour' in the top navigation bar
Move between cluster sites	Use the ← Prev and Next → buttons in the tour side panel
Close the cluster tour	Click the × button in the tour side panel
Toggle context layers	Use the checkboxes under 'Context' in the legend panel
Return to the landing screen	Refresh the page in your browser