

Level 1 Downstream Analysis

Adams Residence

8035 SE 45th St.

Summary

This Downstream Analysis is for the remodel of an existing house at the subject address. The existing downspouts around the former house connect to an existing stormwater system on the south side of the property that continues down towards Forest Avenue SE. I visited the site and mapped the downstream storm drain path to the best of my ability on April 8, 2026. See the overall downstream analysis map on the cover, the screenshots from the City's GIS, and photos from the site visit.

A Downstream Analysis as defined in the DOE Manual Section I-3.5.3 is a qualitative survey of the downstream storm conveyance system for ¼ mile with the goal of identifying any flooding problems, erosion problems, or potential impacts to wetland hydrology if applicable. The report should also identify any water quality problems as described in the DOE Manual's section referenced above.

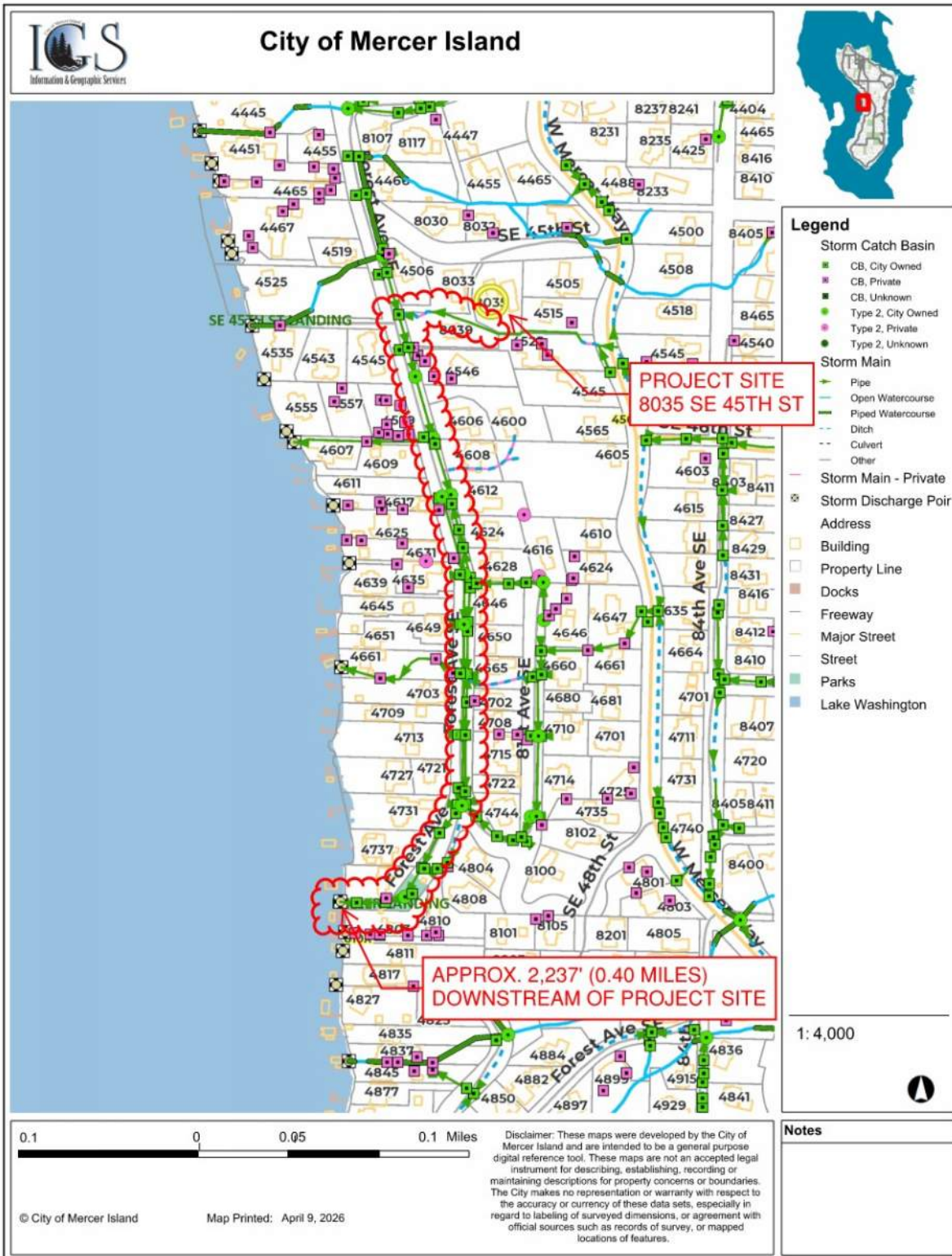
Except for a short 90' section of well-defined ditch, the entire flow path from the connection point to the outfall into Lake Washington is piped. As such, there are no flooding or drainage problems. There are also no erosion problems, wetland impacts, or evidence of water quality concerns.

Flow path Route

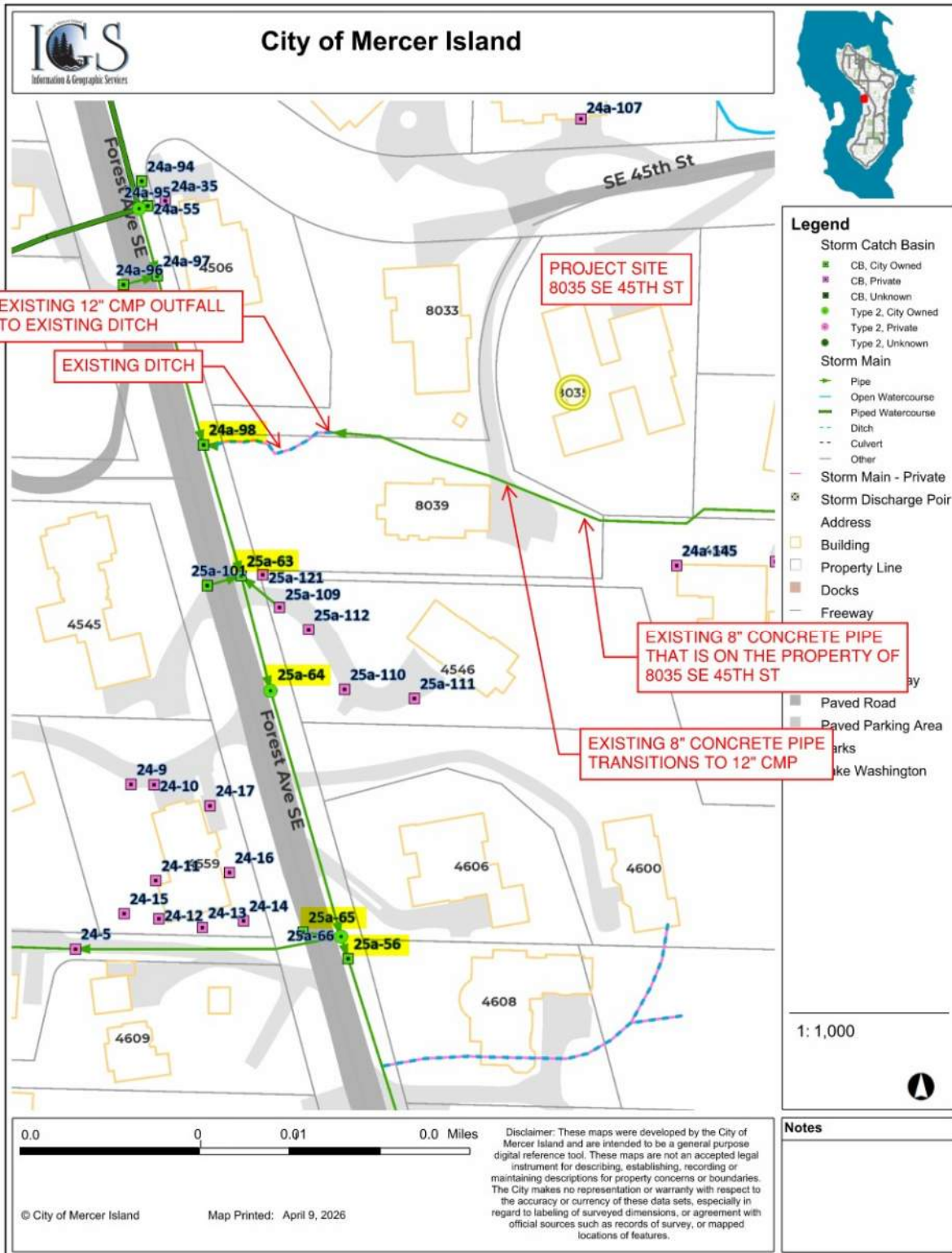
The existing stormwater system on the subject property consists of an 8" concrete pipe with a slope of approximately 22% at the point of connection. The pipe continues west towards Forest Avenue SE transitioning to a 12" CMP approximately ___' downstream of the connection point. There is a vertical bend approximately ___' further downhill to its outfall approximately 90' east of Forest Avenue SE. Runoff travels downhill in a well-defined ditch to an inlet pipe that connects to CB 24a-98 in the Forest Avenue SE ROW.

From CB 24-98 to the outfall in Lake Washington approximately 0.4 miles away stormwater is conveyed in City pipes that all appear to be in good, sound condition.

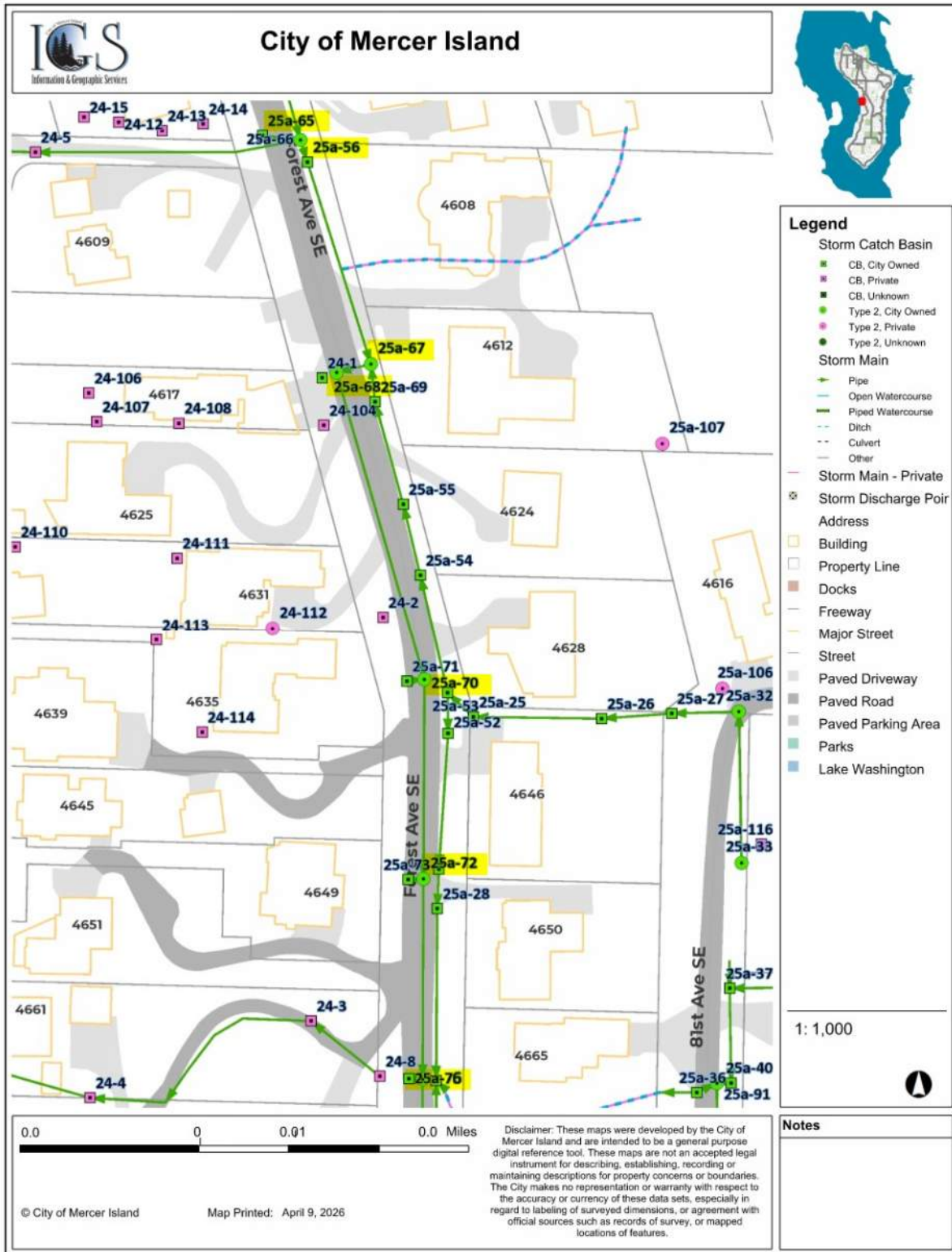
Level 1 Downstream Analysis
 Adams Residence
 8035 SE 45th St.



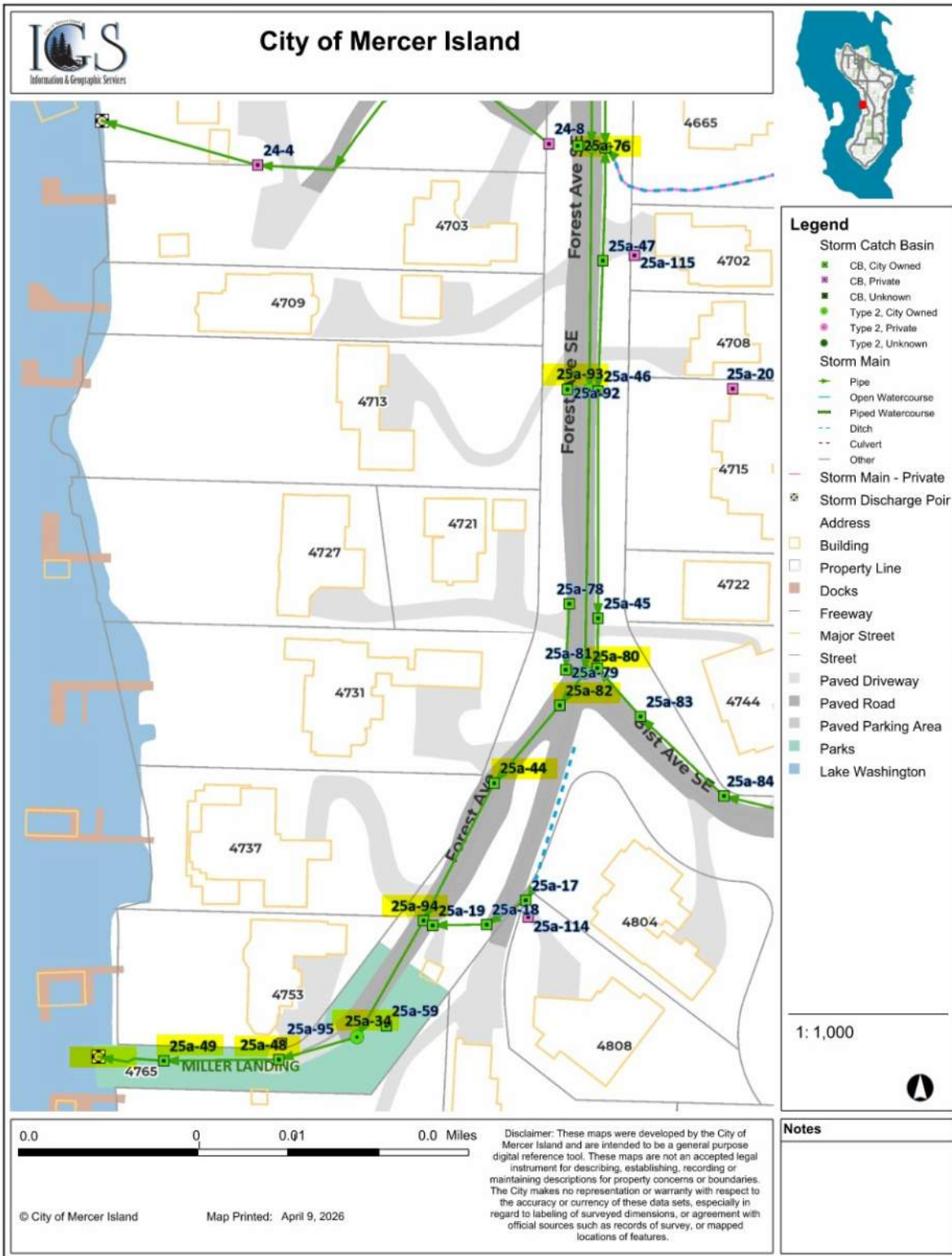
Level 1 Downstream Analysis
 Adams Residence
 8035 SE 45th St.



Level 1 Downstream Analysis
 Adams Residence
 8035 SE 45th St.



Level 1 Downstream Analysis
 Adams Residence
 8035 SE 45th St.



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

Standing on Forest Ave SE looking east towards project site. Existing 12" outfall, existing ditch, inlet pipe, and CB 24a-98.



Standing in ditch looking at inlet pipe to CB 24a-98. Note that rocks and vegetation occasionally partially block the inlet pipe.



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB 24a-98



CB 25a-63



CB 25a-64



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB 25a-65



CB 25a-56



CB 25a-67



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB 25a-68



CB 25a-70



CB 25a-72



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB 25a-76



CB 25a-93



CB 25a-80



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB25a-82



CB 25a-44 (unable to open for inside picture)



CB 25a-94



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

CB 25a-34



CB 25a-48



CB 25a-49 (foreground)



Level 1 Downstream Analysis
Adams Residence
8035 SE 45th St.

Outfall to Lake Washington (unable to open for inside picture)

