

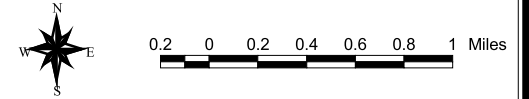
Lower Duwamish Waterway

Figure 1 Lower Duwamish Waterway Study Area

Legend

- Streets
 - Arterials
 - State Highway
 - Interstate Freeway
- Streams
 - Culvert
 - Open Channel
- Lower Duwamish Surface Drainage Basin
- Combined Sewer Service Area w/in Lower Duwamish

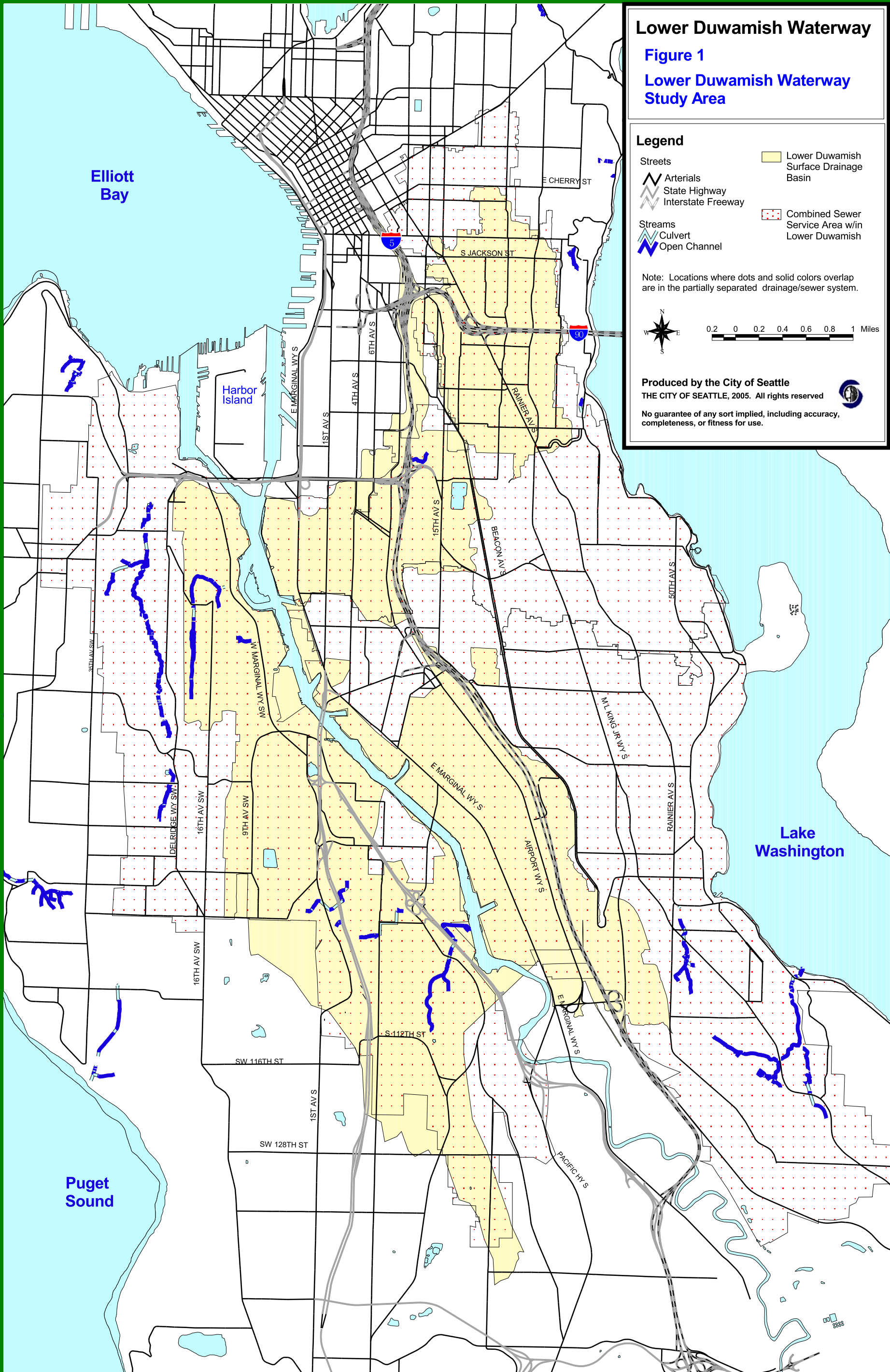
Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



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Lower Duwamish Waterway

Figure 2 Outfalls in the Lower Duwamish Waterway

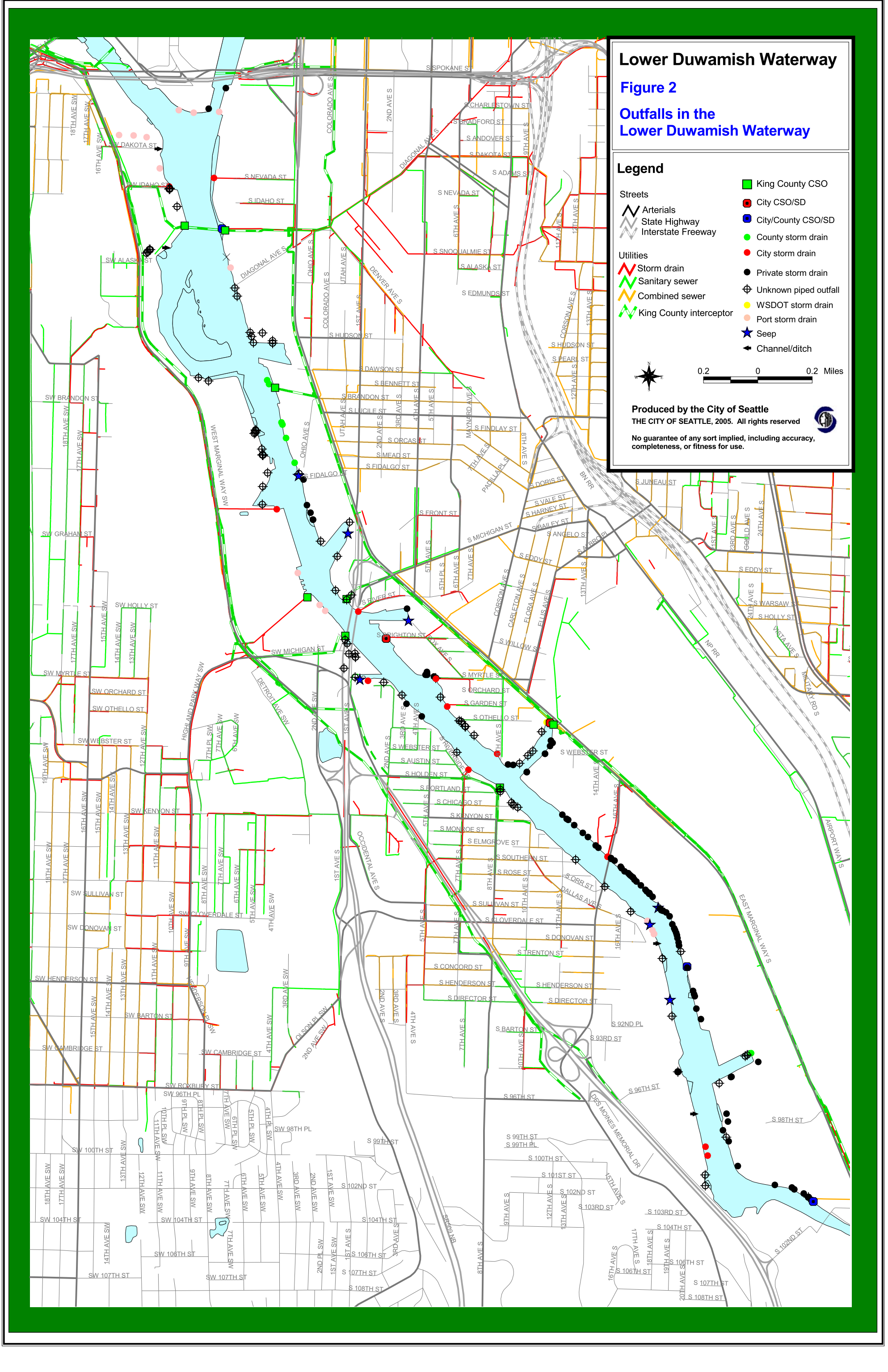
Legend

Streets	King County CSO
Arterials	City CSO/SD
State Highway	City/County CSO/SD
Interstate Freeway	County storm drain
Utilities	City storm drain
Storm drain	Private storm drain
Sanitary sewer	Unknown piped outfall
Combined sewer	WSDOT storm drain
King County interceptor	Port storm drain
	Seep
	Channel/ditch

0.2 0 0.2 Miles

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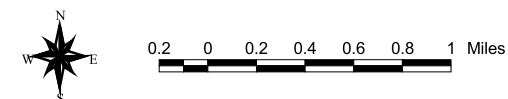
Lower Duwamish Waterway

Figure 3 Businesses Inspected June - December 2004

Legend

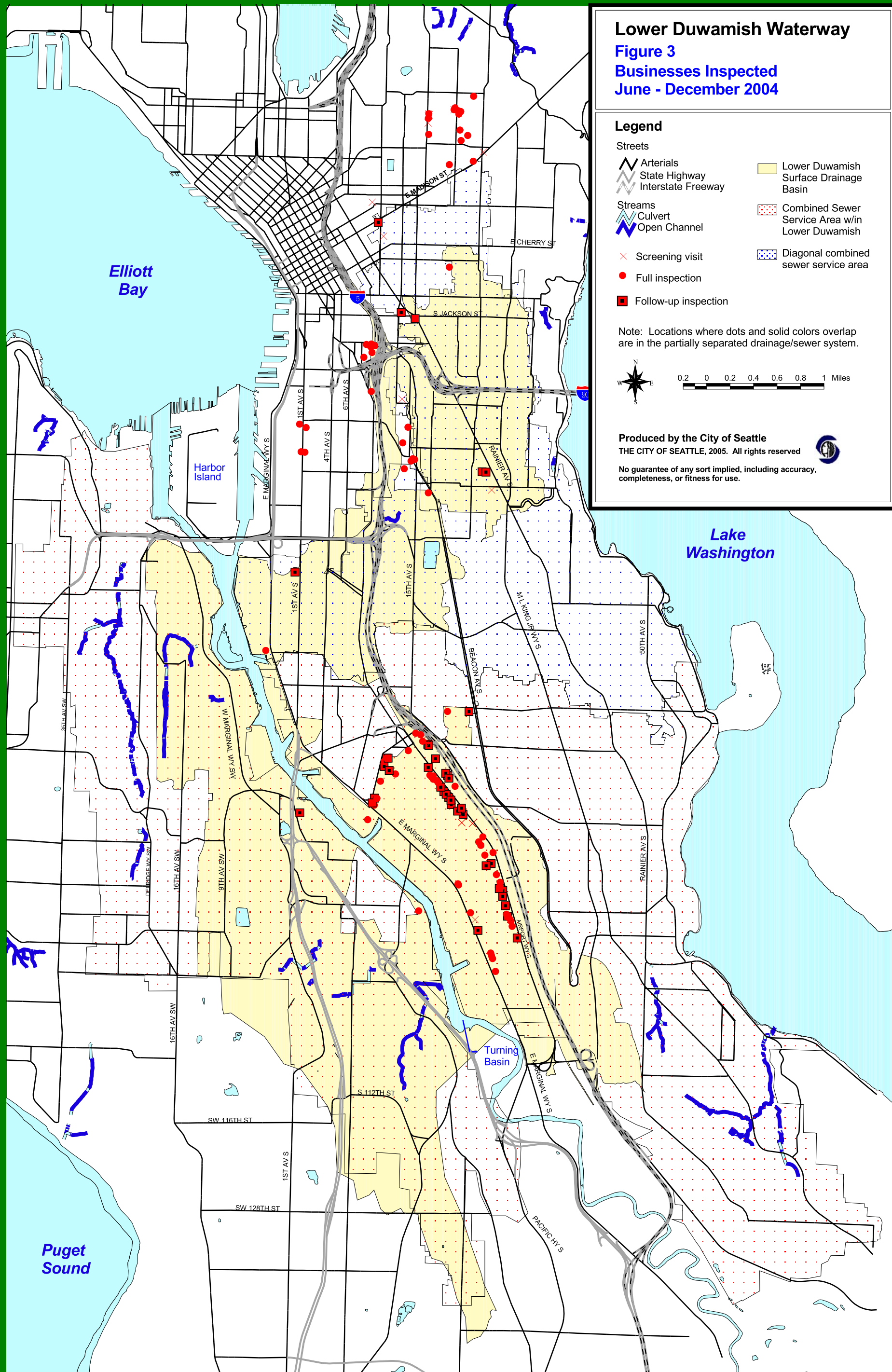
- Streets
- Arterials
 - State Highway
 - Interstate Freeway
- Streams
- Culvert
 - Open Channel
- Lower Duwamish Surface Drainage Basin
 - Combined Sewer Service Area w/in Lower Duwamish
 - Diagonal combined sewer service area
- Screening visit
- Full inspection
- Follow-up inspection

Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



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Lower Duwamish Waterway

Figure 4 King County Key Manhole Sampling Stations

Legend

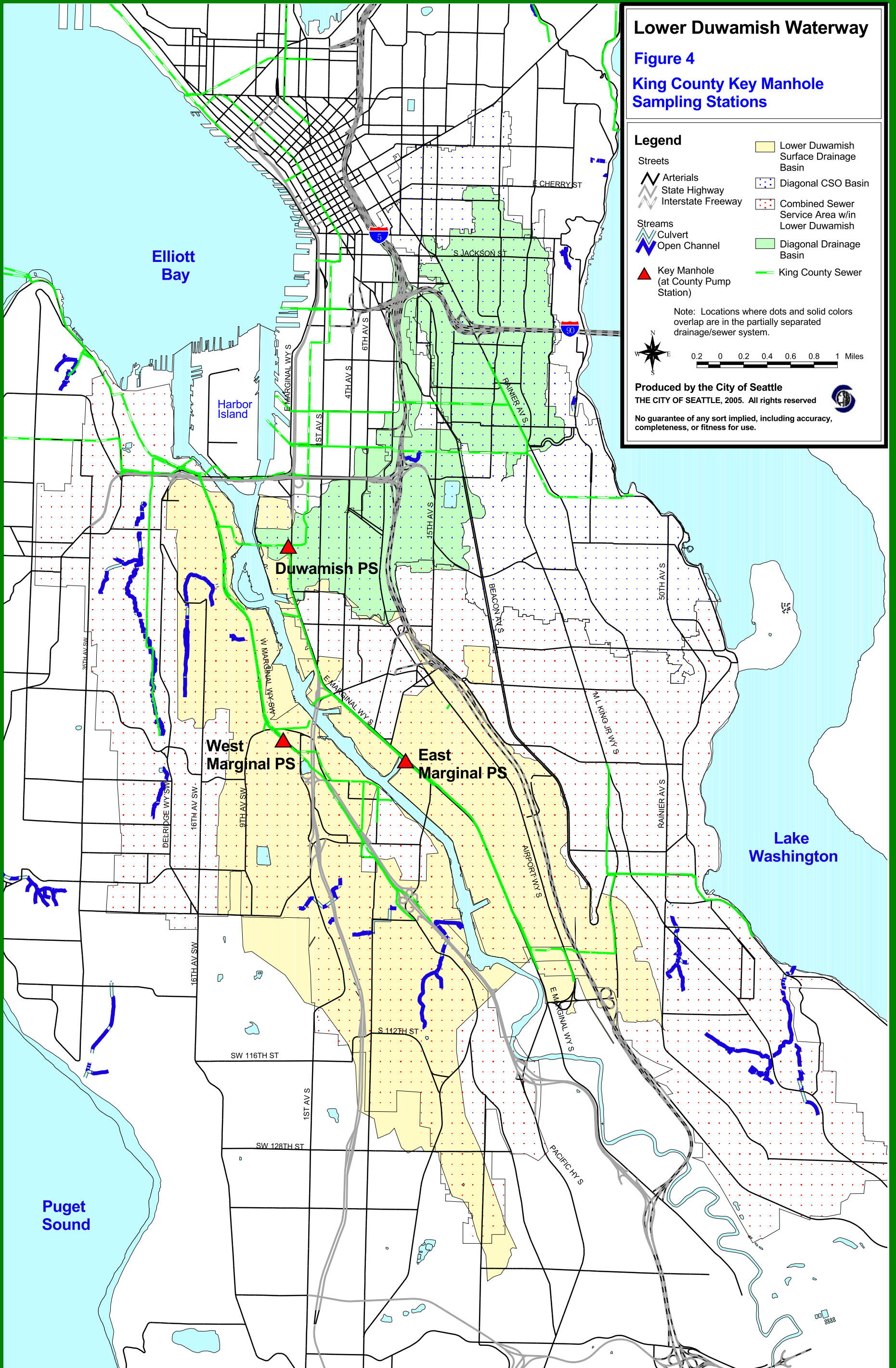
Streets	Lower Duwamish Surface Drainage Basin
Arterials	Diagonal CSO Basin
State Highway	Combined Sewer Service Area w/in Lower Duwamish
Interstate Freeway	Diagonal Drainage Basin
Streams	King County Sewer
Culvert	
Open Channel	
Key Manhole (at County Pump Station)	

Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.

0.2 0 0.2 0.4 0.6 0.8 1 Miles

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Lower Duwamish Waterway

Figure 5 Catch Basin Sample Locations

Legend

- Streets
 - Arterials
 - State Highway
 - Interstate Freeway
- Streams
 - Culvert
 - Open Channel
- Onsite catch basin June-04 reporting period
- Onsite catch basin Jan-05 reporting period
- Right-of-way catch basin June-04 reporting period
- Right-of-way catch basin Jan 05 reporting period
- Lower Duwamish Surface Drainage Basin
- Combined Sewer Service Area w/in Lower Duwamish
- Diagonal Storm Drain Basin
- Diagonal combined sewer service area
- Slip 4 storm drain basin
- T117 storm drain basin
- Slip 5 storm drain basin

Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



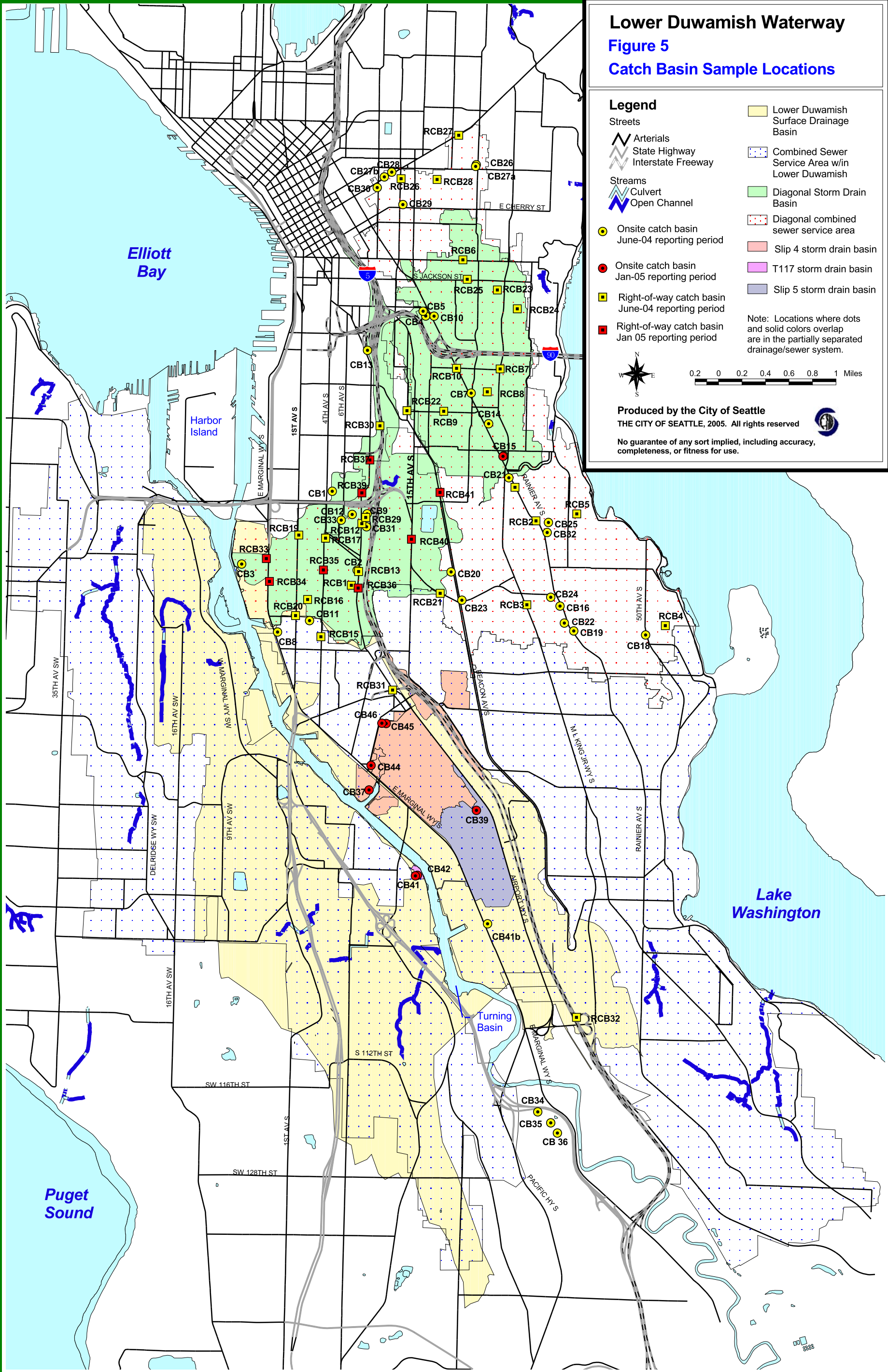
0.2 0 0.2 0.4 0.6 0.8 1 Miles

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Lower Duwamish Waterway

Figure 6

Diagonal Ave S CSO/SD Drainage Basin Boundary

Legend

Streets

- Arterials
- State Highway
- Interstate Freeway

Streams

- Culvert
- Open Channel

City combined sewer overflow location

County combined sewer overflow location

Lower Duwamish Surface Drainage Basin

Diagonal combined sewer service area

Diagonal Storm Drain Basin

Storm drain

County sewer

Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



0.2 0 0.2 0.4 0.6 0.8 1 Miles

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Lower Duwamish Waterway

Figure 7

Land Use in Diagonal Ave S CSO/SD Service Area

Legend

Streets

- Arterials
- State Highway
- Interstate Freeway

Land Use Types

- Commercial
- Industrial
- Multi-Family
- Open Space
- Schools
- Single Family
- Vacant

- Diagonal Storm Drainage Basin Boundary
- Diagonal Combined Sewer Service Area

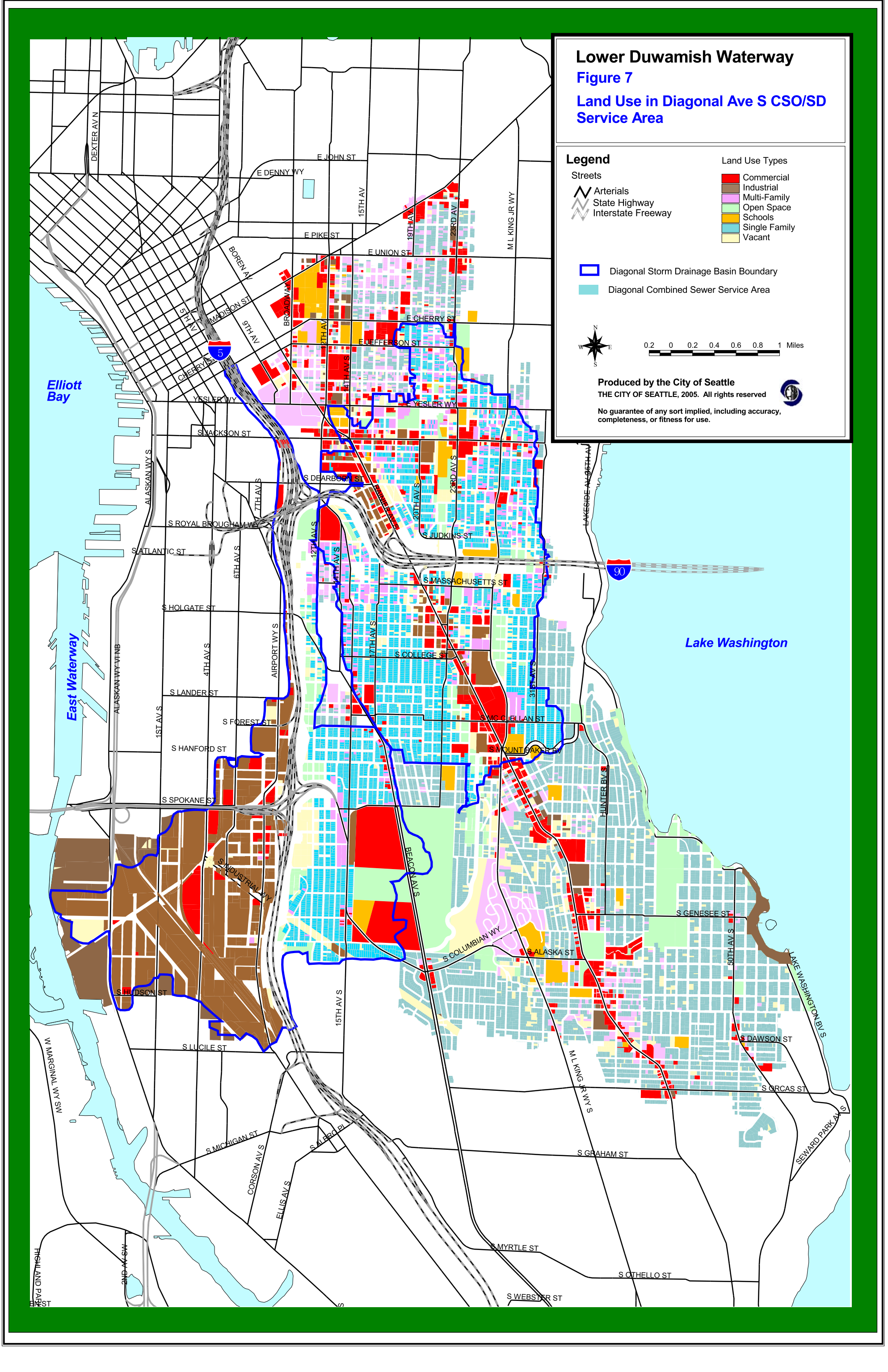


0.2 0 0.2 0.4 0.6 0.8 1 Miles

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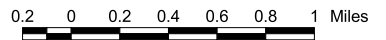
Lower Duwamish Waterway

Figure 8 Business Inspections in the Diagonal Ave S CSO/SD Basin

Legend

- | | |
|-----------------------|--------------------------------------|
| Streets | Diagonal combined sewer service area |
| Arterials | Diagonal Storm Drain Basin |
| State Highway | |
| Interstate Freeway | |
| Streams | |
| Culvert | |
| Open Channel | |
| March 2003 - May 2004 | |
| Follow-up inspection | Follow-up inspection |
| Full inspection | Full inspection |
| Screening inspection | Screening inspection |

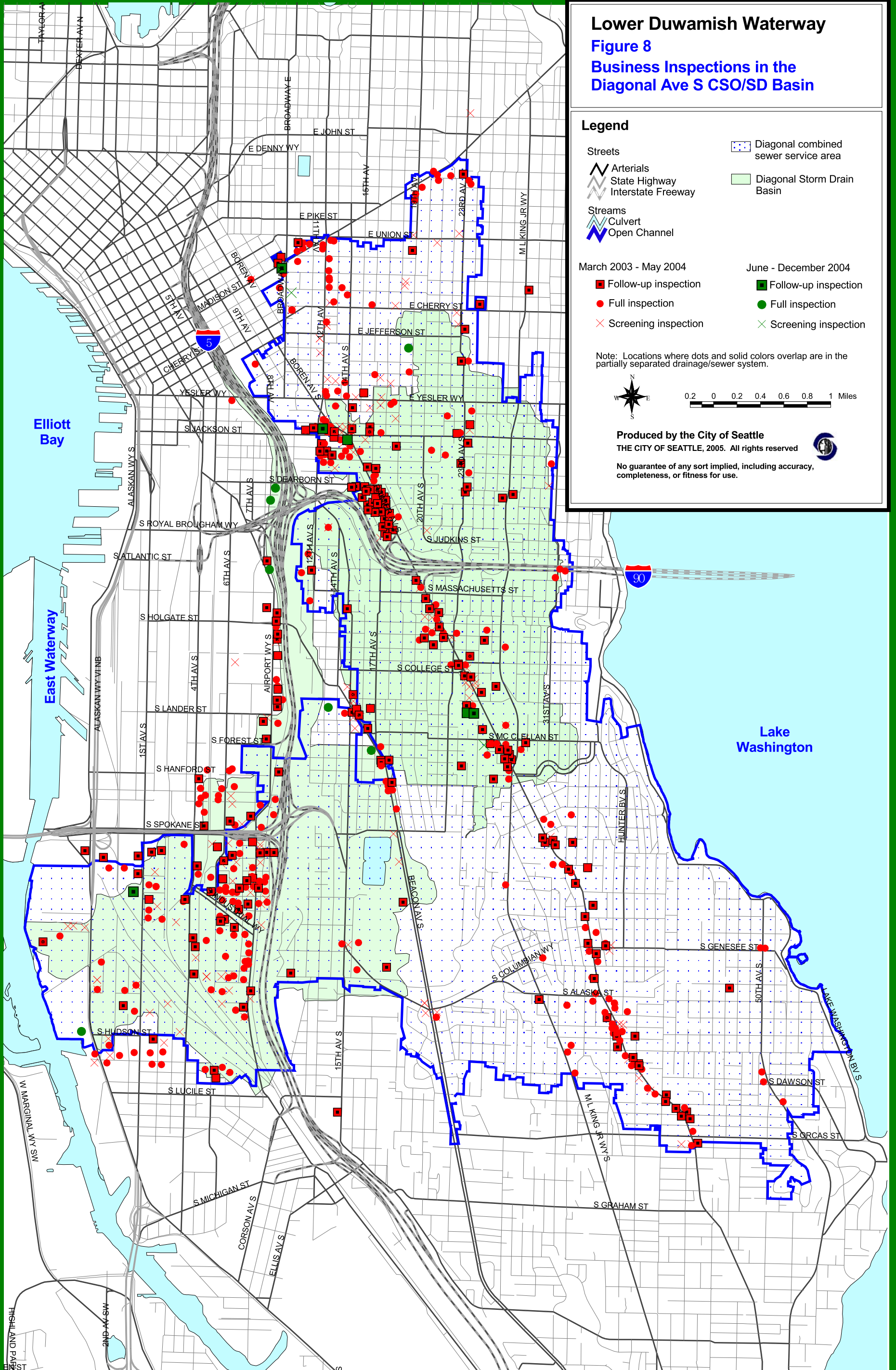
Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



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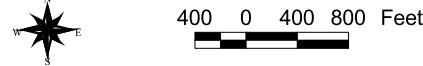
Lower Duwamish Waterway

Figure 9 Diagonal CSO/SD sediment trap locations

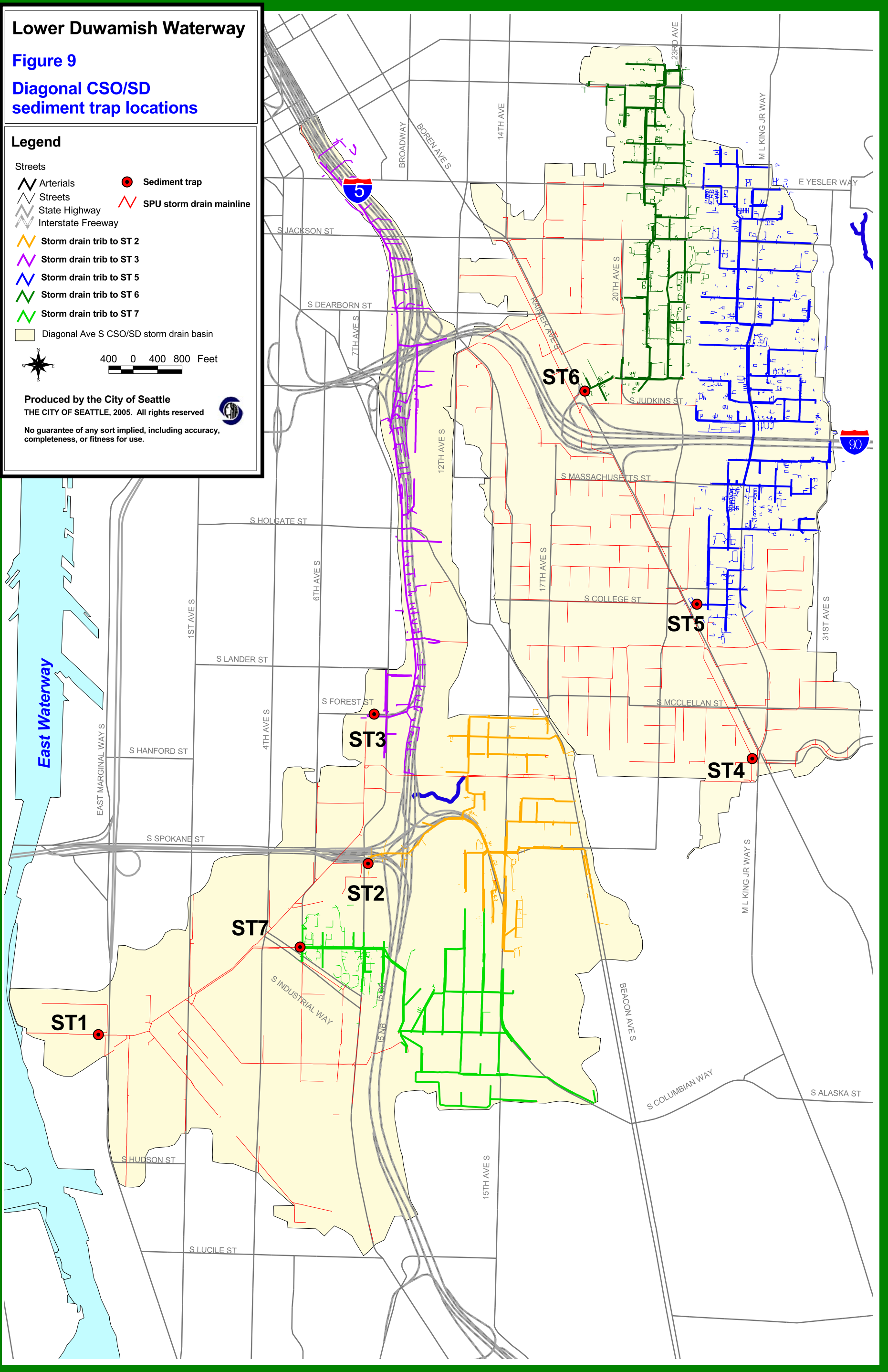
Legend

- Streets
- Arterials
 - Streets
 - State Highway
 - Interstate Freeway
 - Storm drain trib to ST 2
 - Storm drain trib to ST 3
 - Storm drain trib to ST 5
 - Storm drain trib to ST 6
 - Storm drain trib to ST 7
 - Diagonal Ave S CSO/SD storm drain basin

- Sediment trap
- SPU storm drain mainline



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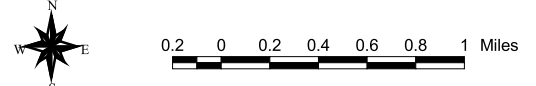
Lower Duwamish Waterway

Figure 10 Catch Basin Samples Collected in Diagonal Ave S CSO/SD Basin

Legend

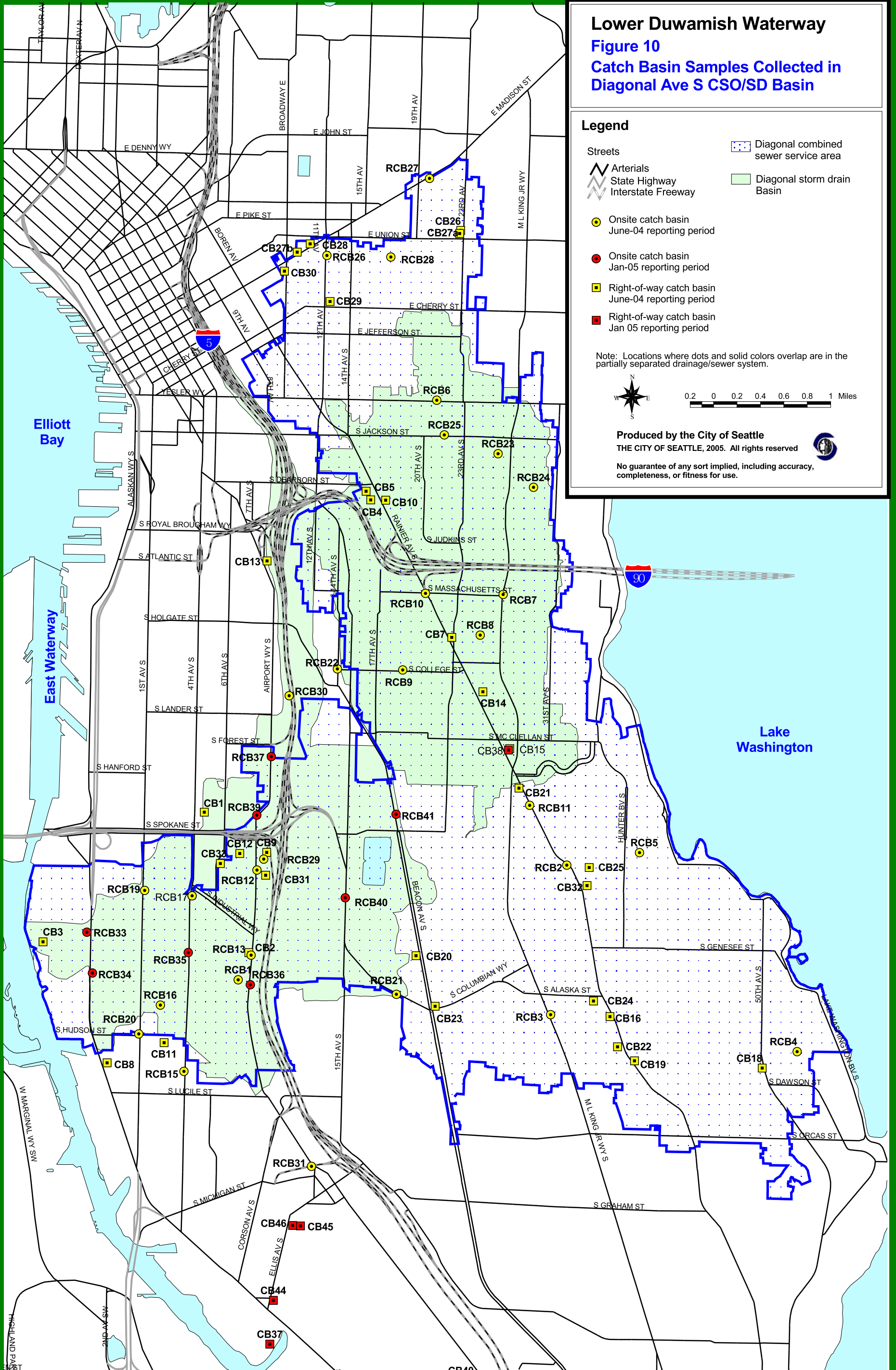
- Streets
 - Arterials
 - State Highway
 - Interstate Freeway
- Diagonal combined sewer service area
- Diagonal storm drain Basin
- Onsite catch basin June-04 reporting period
- Onsite catch basin Jan-05 reporting period
- Right-of-way catch basin June-04 reporting period
- Right-of-way catch basin Jan 05 reporting period

Note: Locations where dots and solid colors overlap are in the partially separated drainage/sewer system.



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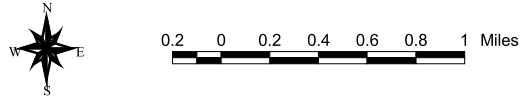


Lower Duwamish Waterway

Figure 11 Diagonal Ave S CSO/SD Cleaning Project

Legend

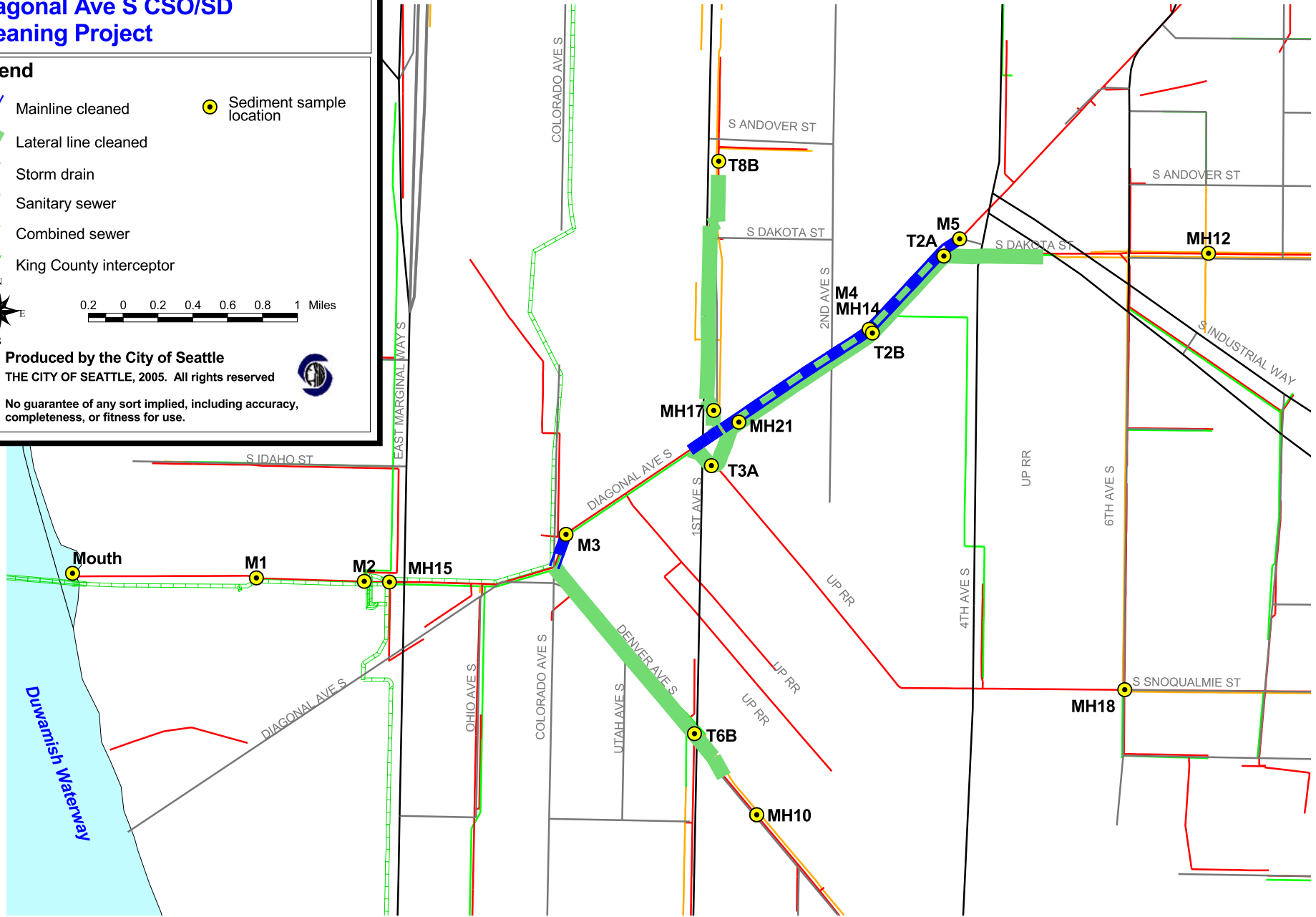
-  Mainline cleaned
-  Lateral line cleaned
-  Storm drain
-  Sanitary sewer
-  Combined sewer
-  King County interceptor
-  Sediment sample location



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Lower Duwamish Waterway

Figure 12

Areas draining to Slip 4

Legend

- Storm drain
- Sanitary sewer
- Combined sewer
- King County interceptor
- King County CSO
- City CSO/SD
- City/County CSO/SD
- County storm drain
- City storm drain
- Private storm drain
- Unknown piped outfall
- WSDOT storm drain
- Port storm drain
- Seep
- Channel/ditch
- Direct discharge
- Georgetown flume
- I-5 SD
- Slip 4 SD (King County Airport drain)
- Slip 4 CSO/SD

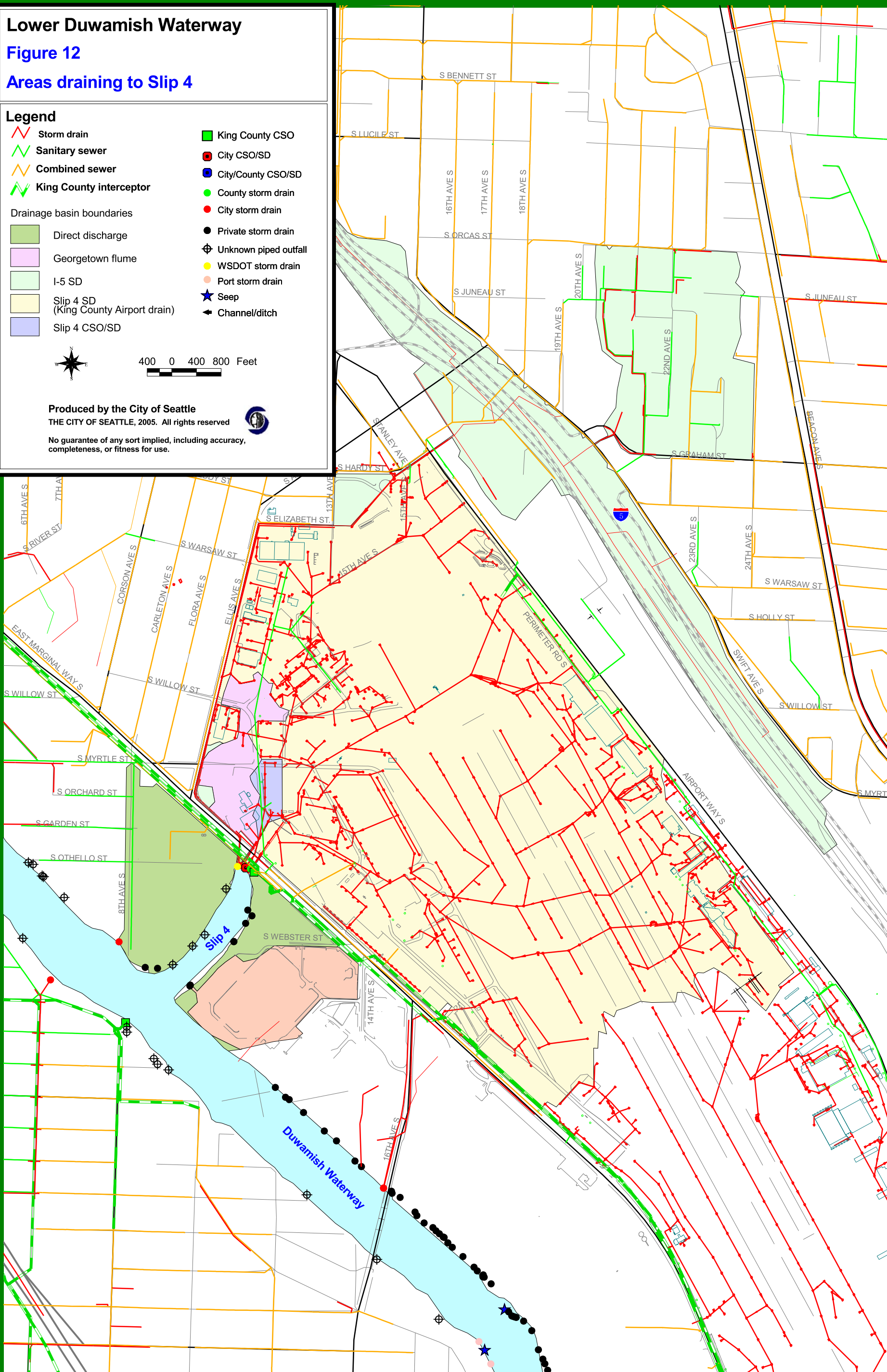


400 0 400 800 Feet

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Lower Duwamish Waterway

Figure 13

Businesses inspected in Slip 4 June - December 2004

Legend

- Storm drain
- Sanitary sewer
- Combined sewer
- King County interceptor
- Screening visit
- Onsite inspection
- Follow-up inspection

Drainage basin boundaries

- Direct discharge
- Georgetown flume
- I-5 SD
- Slip 4 SD (King County Airport drain)
- Slip 4 CSO/SD

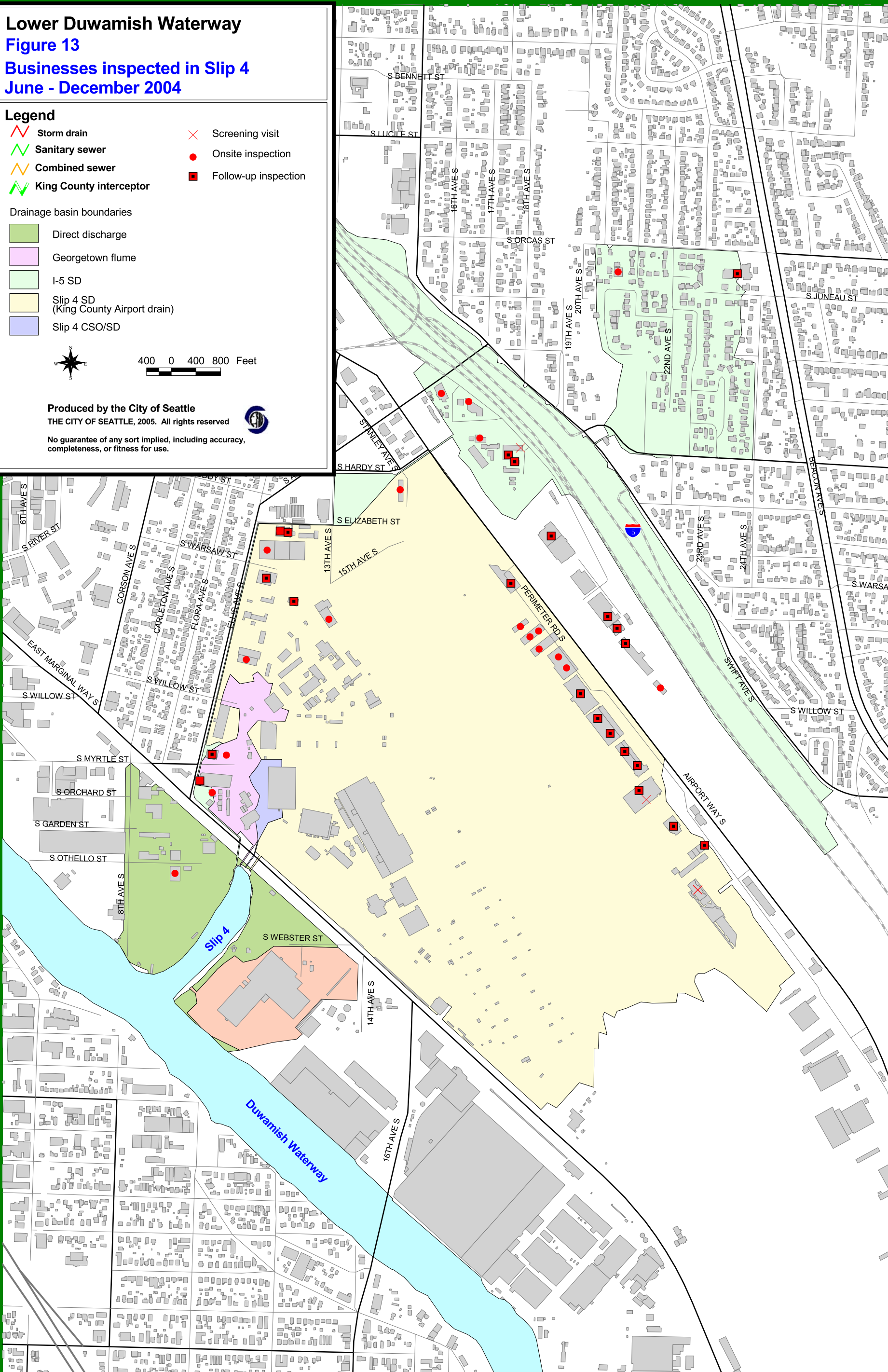


400 0 400 800 Feet

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





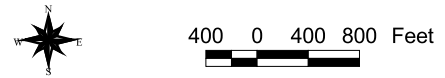
Lower Duwamish Waterway

Figure 14

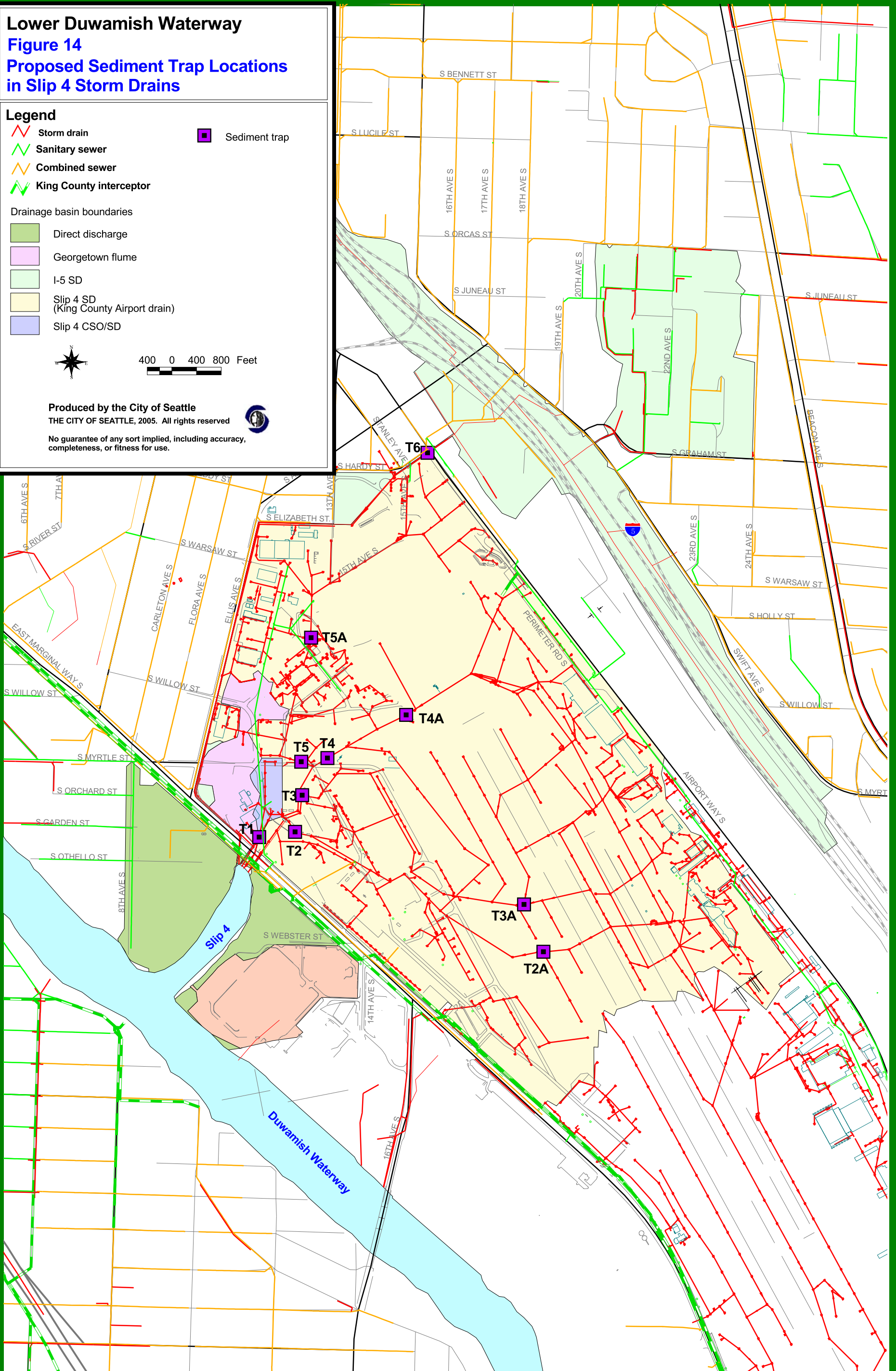
Proposed Sediment Trap Locations in Slip 4 Storm Drains

- Legend**
-  Storm drain
 -  Sanitary sewer
 -  Combined sewer
 -  King County interceptor
 -  Sediment trap

- Drainage basin boundaries
-  Direct discharge
 -  Georgetown flume
 -  I-5 SD
 -  Slip 4 SD (King County Airport drain)
 -  Slip 4 CSO/SD



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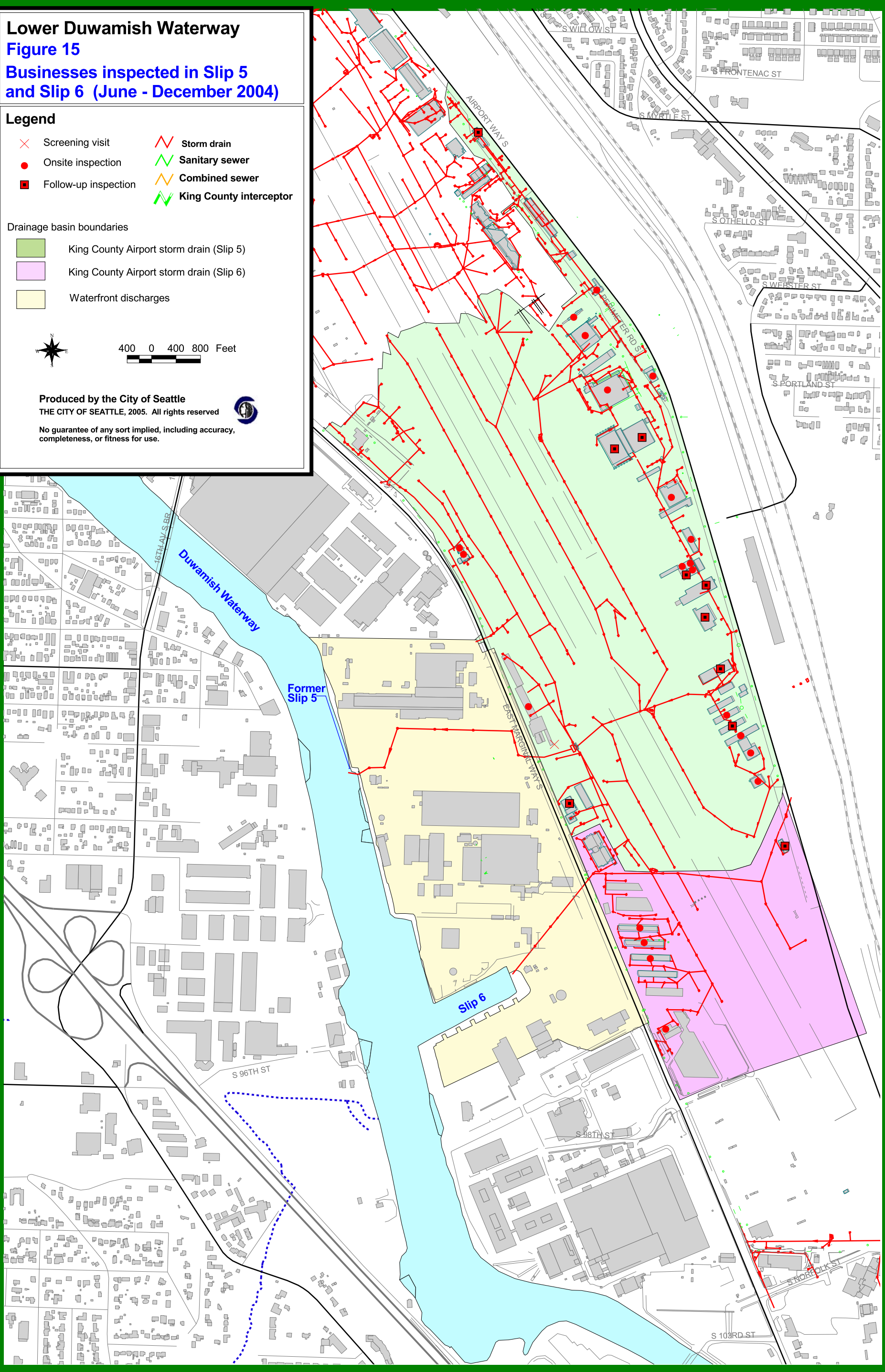
Lower Duwamish Waterway
Figure 15
Businesses inspected in Slip 5
and Slip 6 (June - December 2004)

- Legend**
- ✕ Screening visit
 - Onsite inspection
 - Follow-up inspection
 - ↗ Storm drain
 - ↘ Sanitary sewer
 - ↖ Combined sewer
 - ↙ King County interceptor

- Drainage basin boundaries**
- King County Airport storm drain (Slip 5)
 - King County Airport storm drain (Slip 6)
 - Waterfront discharges



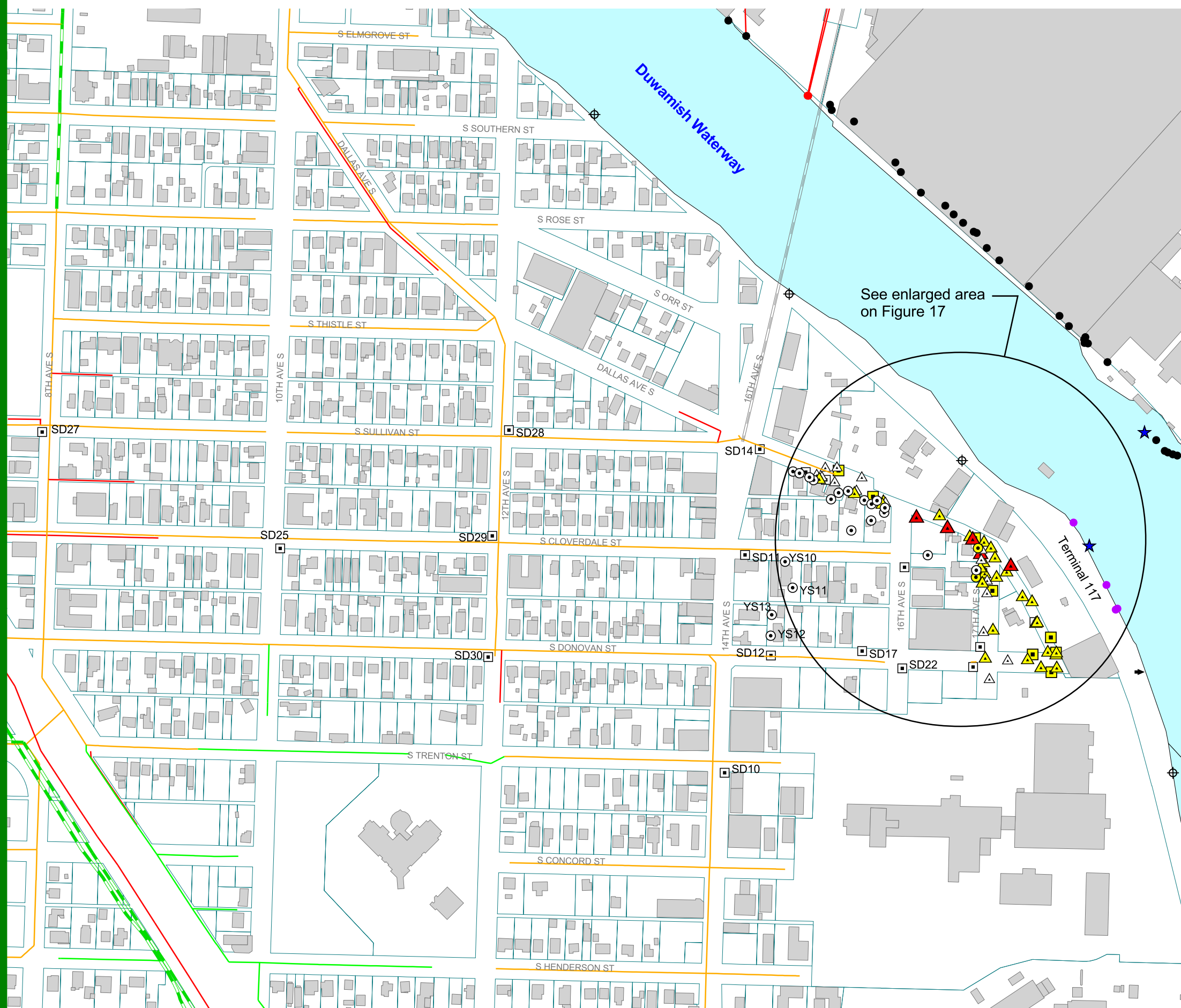
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Lower Duwamish Waterway

Figure 16

Sediment Sample Locations in Vicinity of T117 Early Action Site



Legend

PCBs in Right-of-Way Soil

- Below Cleanup Level
- Above Cleanup Level
- Greater than 50 ppm

PCBs in Roadway Dirt

- Below Cleanup Level
- Above Cleanup Level

PCBs in Yard Soil

- Below Cleanup Level
- Above Cleanup Level
- Greater than 50 ppm

Property boundary

Building

Utilities

- Storm drain
- Sanitary sewer
- Combined sewer
- King County interceptor

Outfalls

- City storm drain
- Private storm drain
- Unknown piped outfall
- Port storm drain
- Seep
- Channel/ditch

PCBs = Polychlorinated Biphenyl
State Cleanup Level = 1 ppm PCBs



50 0 50100 Feet

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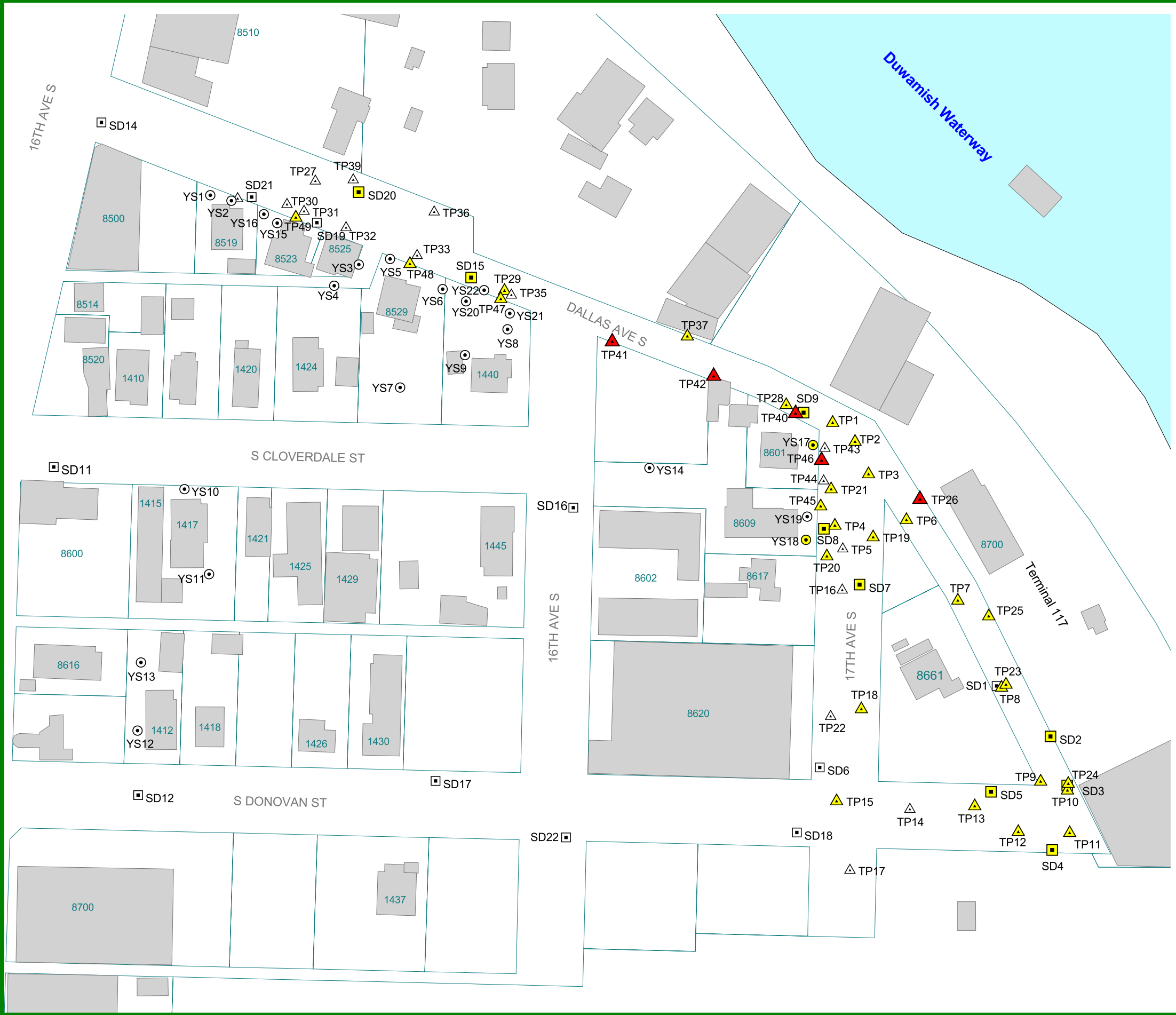


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Lower Duwamish Waterway

Figure 17

Dallas Ave S and Vicinity Street and Yard Sample Locations



Legend

PCBs in Right-of-Way Soil

△ Below Cleanup Level △ Above Cleanup Level △ Greater than 50 ppm

PCBs in Roadway Dirt

□ Below Cleanup Level □ Above Cleanup Level

PCBs in Yard Soil

○ Below Cleanup Level ○ Above Cleanup Level ○ Greater than 50 ppm

□ Property boundary

■ Building

PCBs = Polychlorinated Biphenyl
State Cleanup Level = 1 ppm PCBs

North arrow and scale bar (0 to 100 Feet)

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