

Surface Water Utility Asset Management Update

February 10, 2014



Asset Management

What ?

Cost effective level of service for the City's assets

Why ?

Improve the way the City manages the City's public assets

How ?

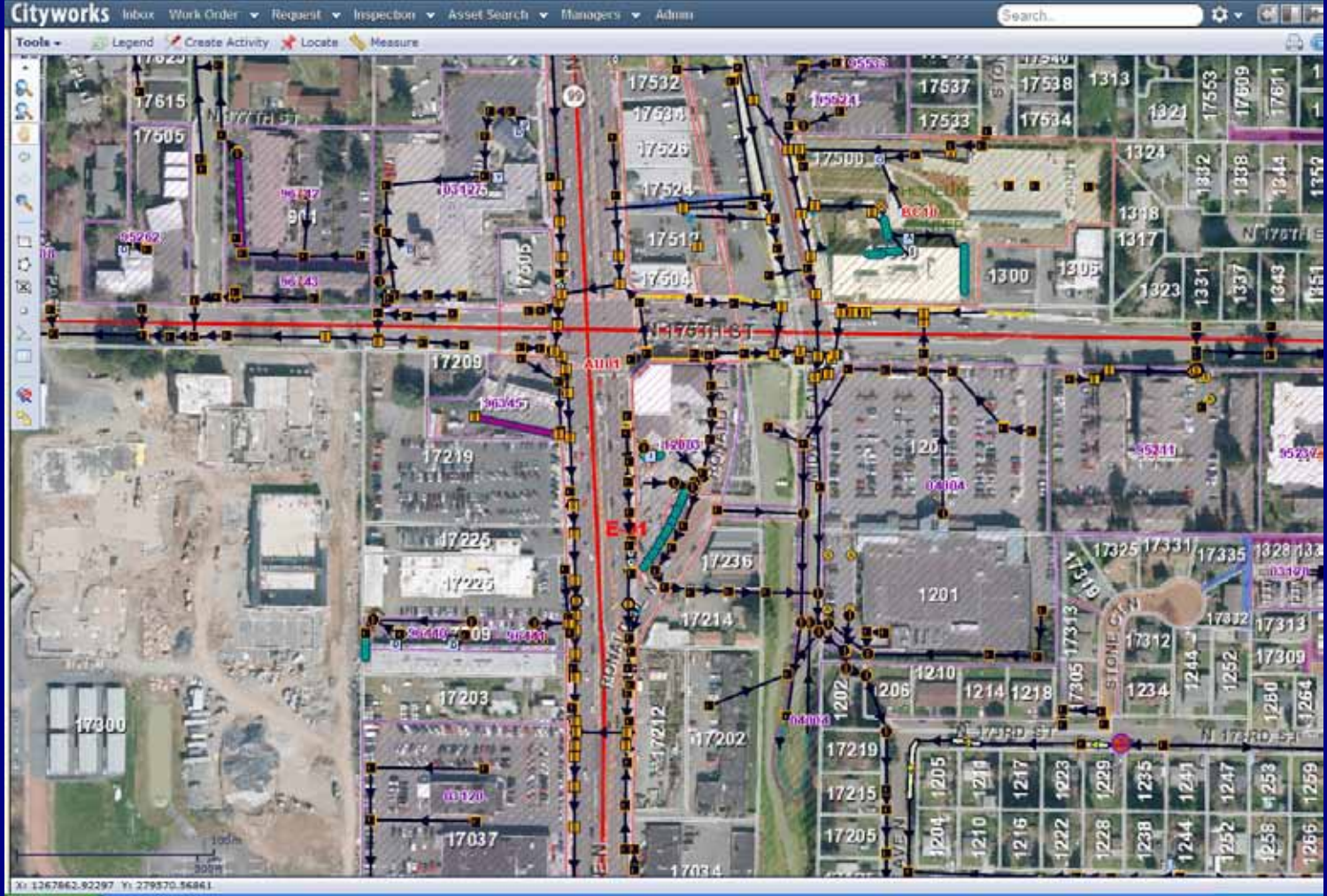


Development of programs and tools (i.e. CityWorks)

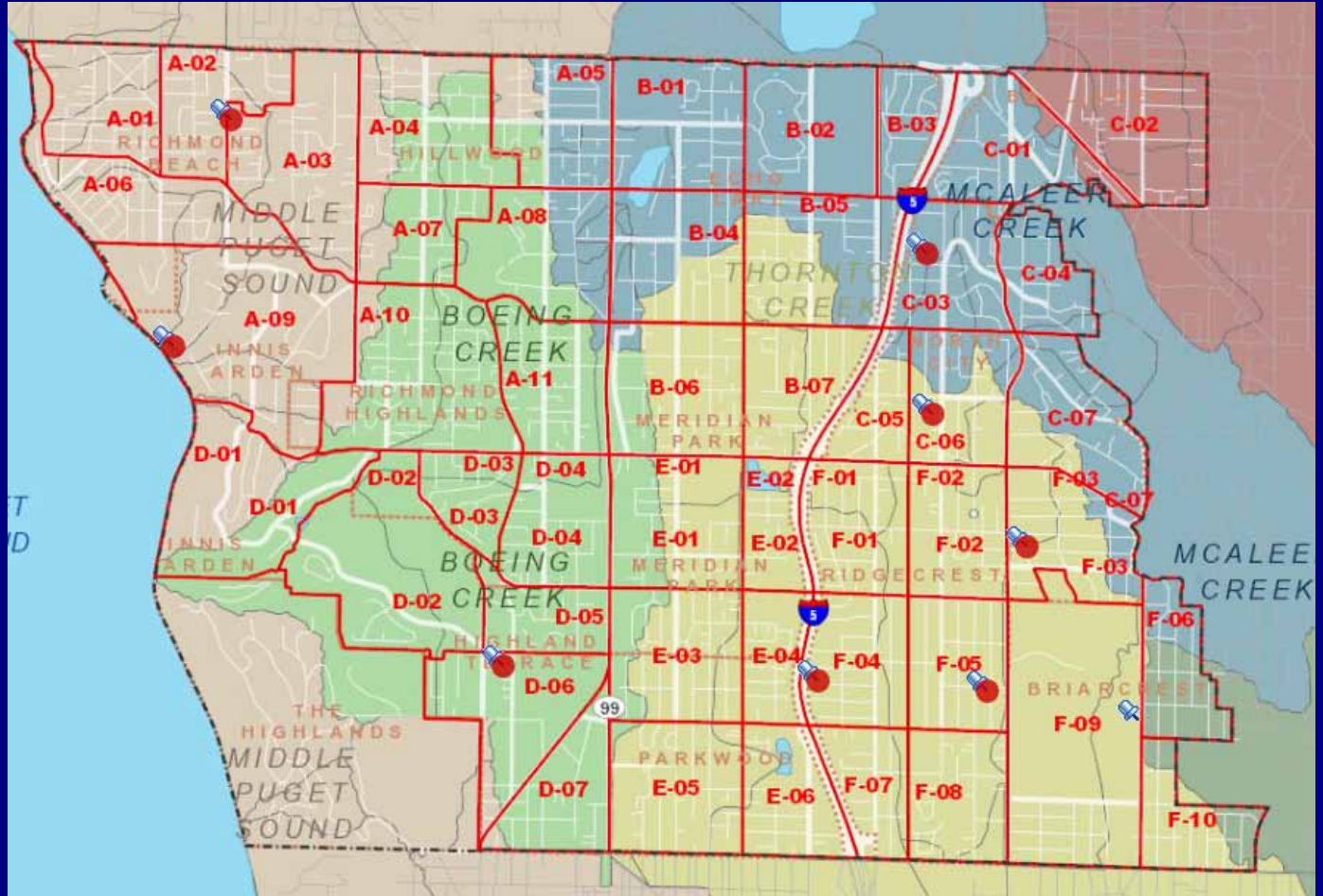
Asset Management Surface Water Utility

- Asset Inventory in GIS
- Improved Preventative Maintenance Work Programs (i.e. NPDES permit)
- Condition Assessment of assets (i.e. catch basins, pipes)

Example of Asset Map

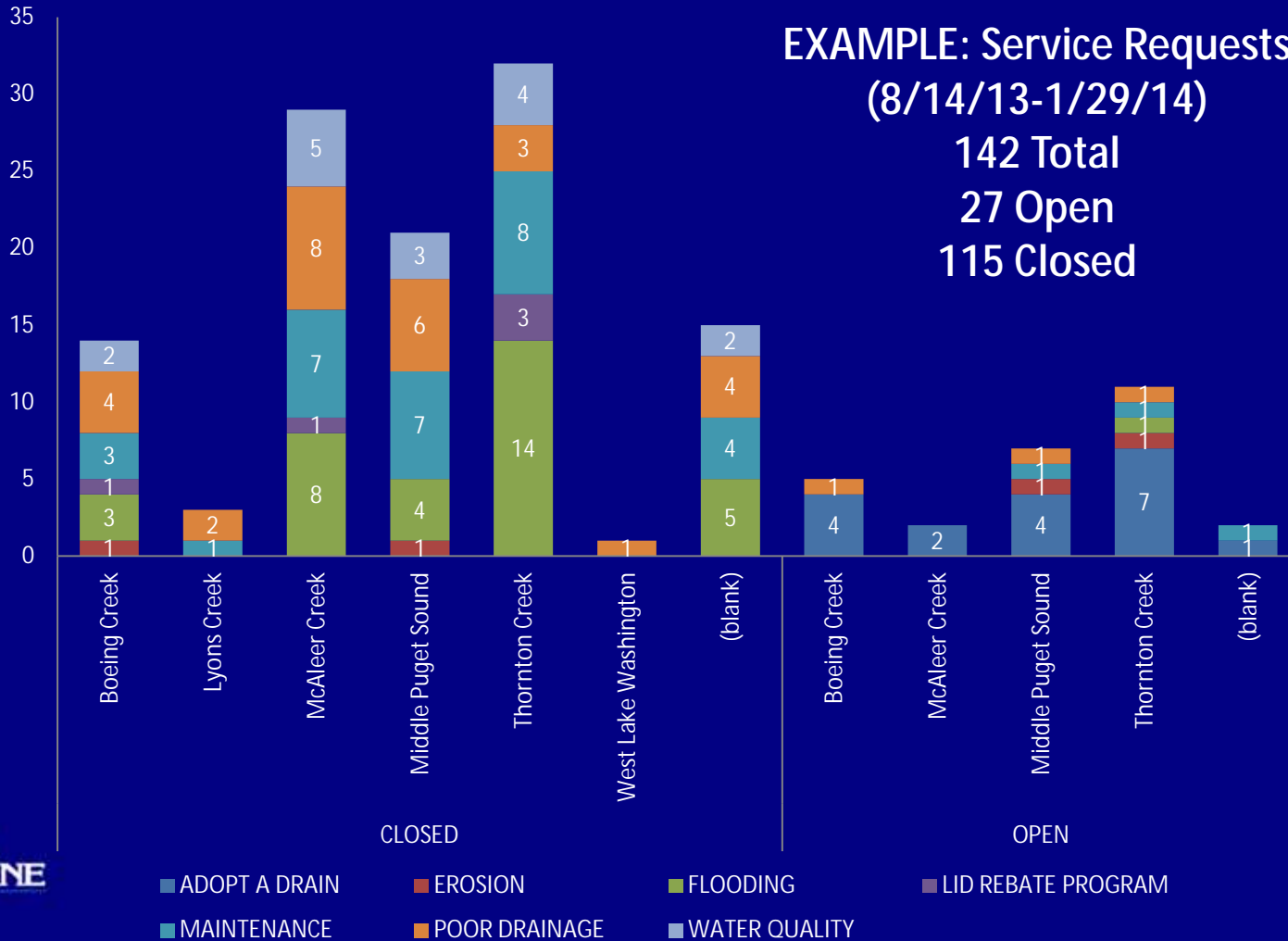


Service Requests



EXAMPLE: Service Requests (8/14/13-1/29/14)

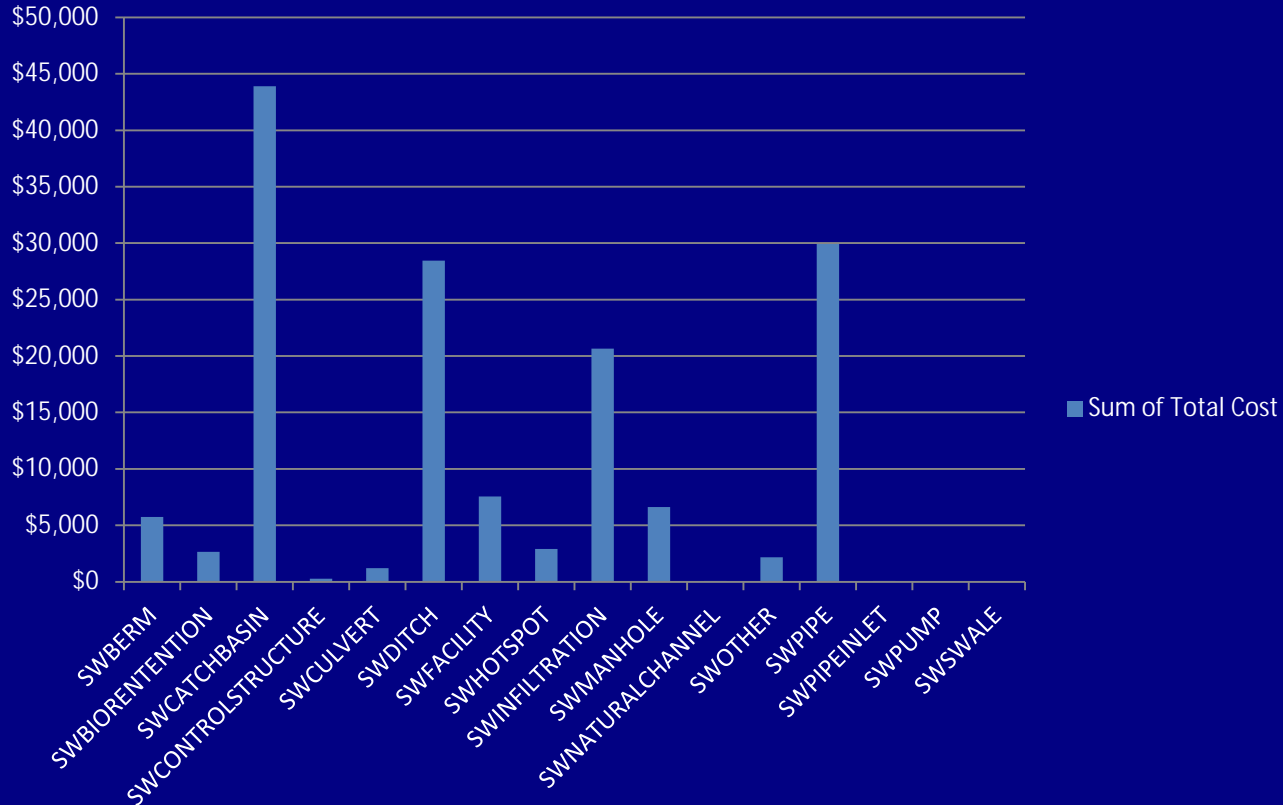
142 Total
27 Open
115 Closed



EXAMPLE: Work Order Costs by Asset Type

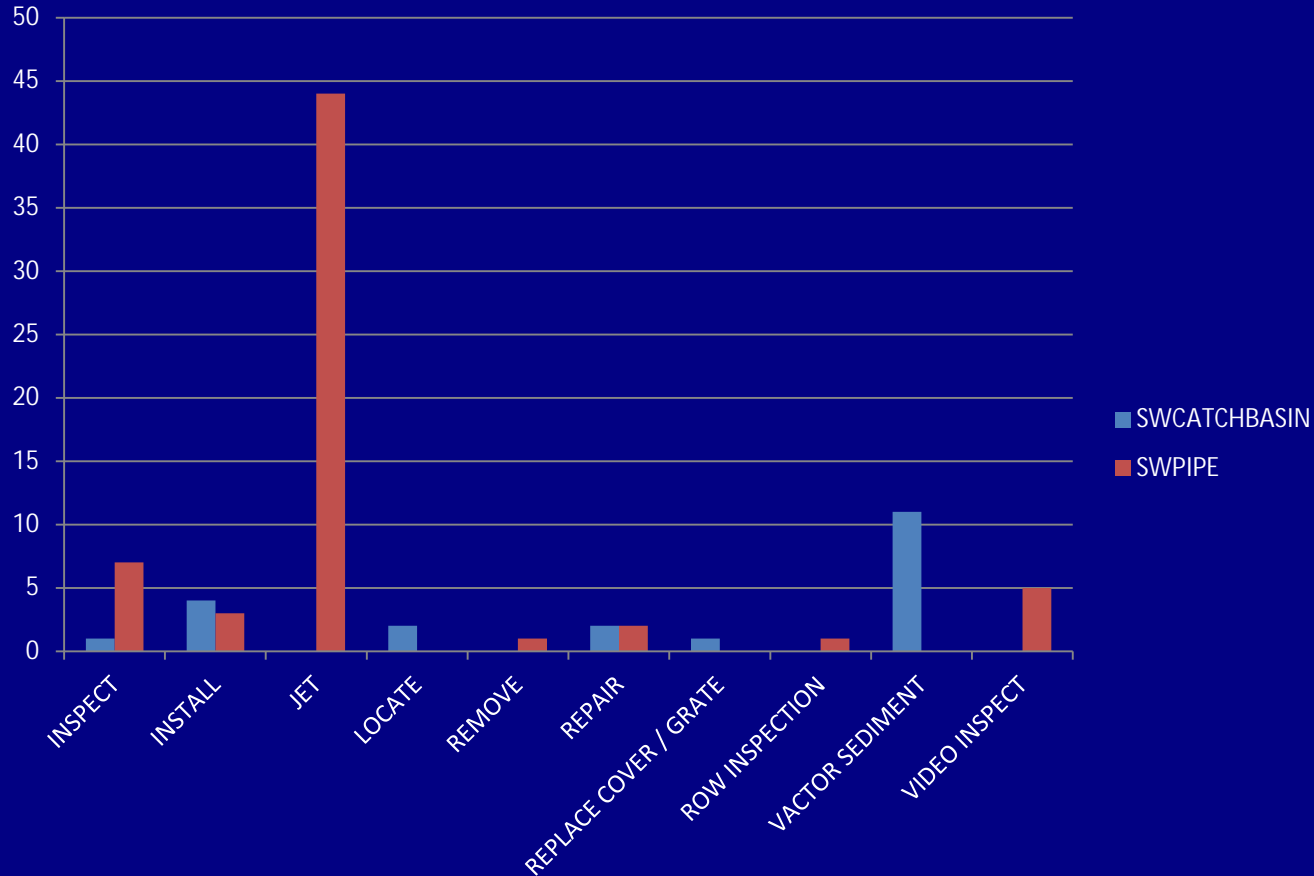
Total: \$152,195

August 18, 2013- February 4, 2014



Example: Closed Work Orders by Asset and Activity

Total = 84 (8/18/13-2/4/14)



Open Work Orders

Cityworks Inbox Work Order Request Inspection Asset Search Managers Admin

Tools Legend Create Activity Locate Measure

The screenshot displays a map interface for the Cityworks system. The map shows a residential area with several streets and work orders. The work orders are labeled as follows:







- A-11 (Red)
- B-06 (Red)
- D-02 (Red)
- D-03 (Red)
- D-04 (Red)
- E-01 (Red)
- 10-05 (Blue)

Streets shown include NW 180th St, NW 175th St, NW 167th St, NW 155th St, NW 143rd St, NW 131st St, NW 119th St, NW 107th St, NW 95th St, NW 83rd St, NW 71st St, NW 59th St, NW 47th St, NW 35th St, NW 23rd St, NW 11th St, NW 1st St, NW 180th St, NW 175th St, NW 170th St, NW 165th St, NW 160th St, NW 155th St, NW 150th St, NW 145th St, NW 140th St, NW 135th St, NW 130th St, NW 125th St, NW 120th St, NW 115th St, NW 110th St, NW 105th St, NW 100th St, NW 95th St, NW 90th St, NW 85th St, NW 80th St, NW 75th St, NW 70th St, NW 65th St, NW 60th St, NW 55th St, NW 50th St, NW 45th St, NW 40th St, NW 35th St, NW 30th St, NW 25th St, NW 20th St, NW 15th St, NW 10th St, NW 5th St, NW 1st St.



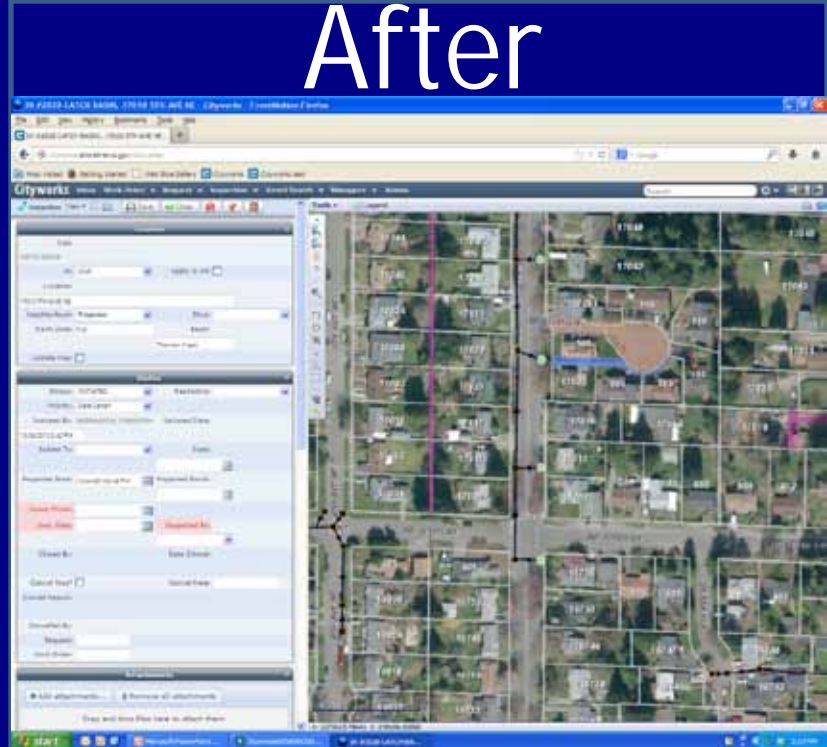
ROW Catch Basin Inspections

Before



Blue arrows indicate the flow of information from the handwritten forms to the software interfaces.

After



The screenshot shows a detailed map view of a residential area with a highlighted catch basin location. The software interface includes various data entry fields and a search bar.

Catch Basin Inspection Program Improvement and Efficiencies

2007-2012 2007 NPDES Permit Requirement: 1/3 of catch basins inspected and maintained annually; \$22.50/CB for cleaning (so 1325 CBs would cost about \$30,000 with no inspection information)

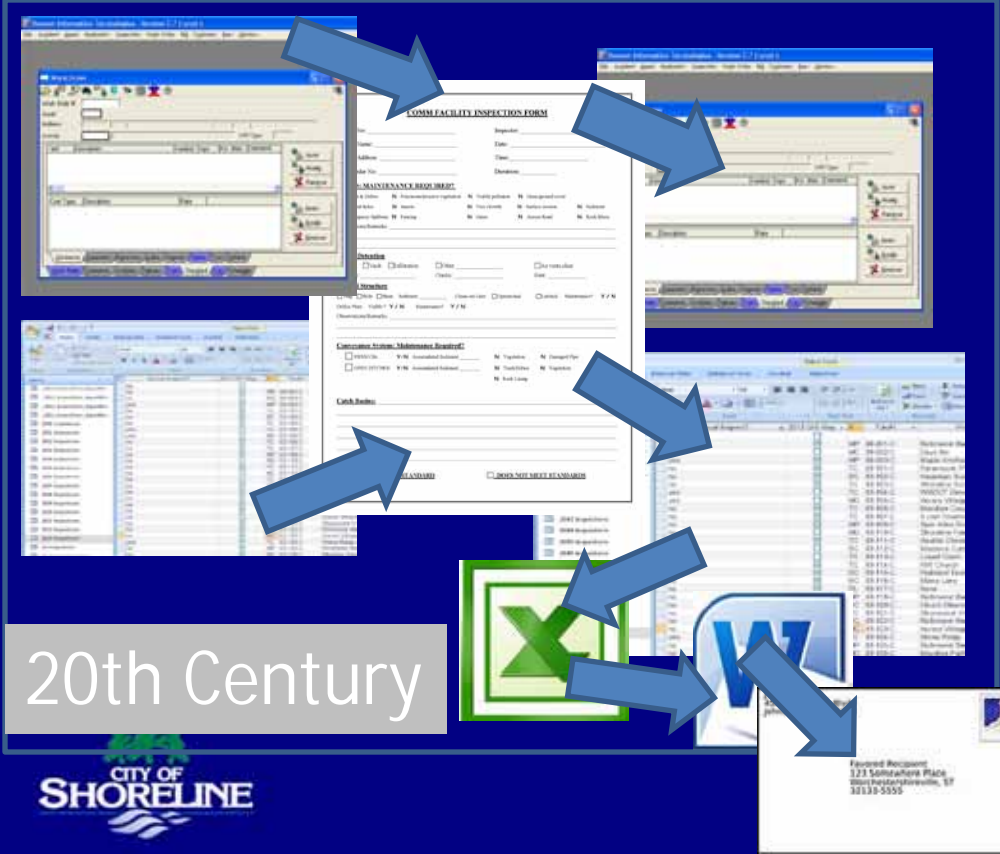
2010: Developed inspection programs and condition assessment

2013 to present: By implementing Cityworks and tracking costs, average inspection cost is \$2.68/CB (in-house labor costs); about 22% will need sediment removed based on the preventative maintenance inspection



Total Annual Savings: over \$20,000

Commercial Inspections



This section illustrates the 20th-century commercial inspection process. It features a central 'COMM FACILITY INSPECTION FORM' with sections for 'MAINTENANCE REQUIRED' and 'CASH NOTES'. The form is surrounded by several screenshots of a legacy software application, likely a GIS or data management system, showing various data tables and maps. Blue arrows point from the software screens to the form and vice versa, indicating the flow of information. At the bottom, there is a green 'X' icon and a blue 'W' icon, representing digital file formats. A white envelope icon is also present, suggesting the physical distribution of the form.

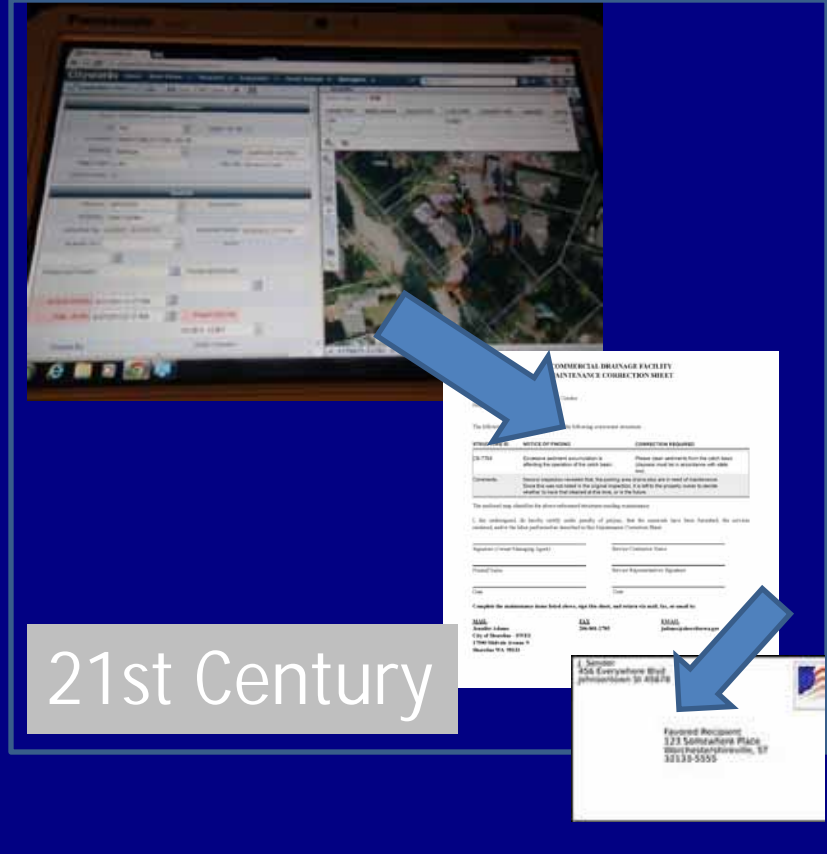
COMM FACILITY INSPECTION FORM

MAINTENANCE REQUIRED

CASH NOTES

20th Century

CITY OF SHORELINE



This section illustrates the 21st-century commercial inspection process. It features a central 'COMMERCIAL DRAINAGE FACILITY MAINTENANCE CORRECTION SHEET' form. The form is surrounded by screenshots of a modern software application, including a map view and a data table. Blue arrows point from the software screens to the form and vice versa, indicating the flow of information. At the bottom, there is a white envelope icon, suggesting the physical distribution of the form.

COMMERCIAL DRAINAGE FACILITY MAINTENANCE CORRECTION SHEET

21st Century

Commercial Inspections

20th Century

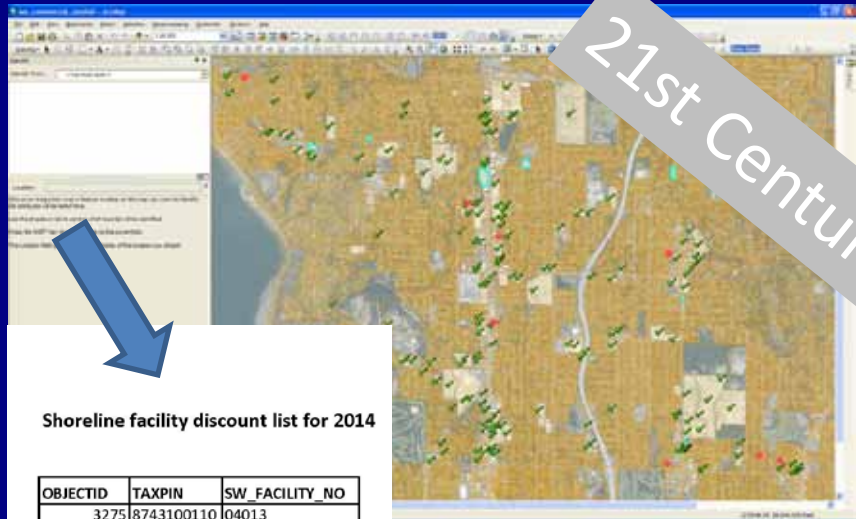


the facility discount list for 2014

OBJECTID	TAXPIN	SW_FACILITY_NO
3275	8743100110	04013
3276	8743100120	04013
3277	8743100130	04013
211	5096300000	00003
566	0126039050	97525
427	0126039056	95226
3278	0126039058	95226
281	0126039059	95227
319	0126039065	04001
547	0126039089	08011
386	0126039140	95228

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21st Century



Shoreline facility discount list for 2014

OBJECTID	TAXPIN	SW_FACILITY_NO
3275	8743100110	04013
3276	8743100120	04013
3277	8743100130	04013
211	5096300000	00003
566	0126039050	97525
427	0126039056	95226
3278	0126039058	95226
281	0126039059	95227
319	0126039065	04001
547	0126039089	08011
386	0126039140	95228

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Summary

- Asset management and associated new software tools have improved the way we do business
- The improved tracking of our assets and associated work activities will improve our scheduling of maintenance and future budgets
- Helps the City meet its NPDES permit requirements
- Greater importance with sewer and water utilities

Comments/Questions

