

DPW Collection System

2024 Budget Request:Collection System Operator
#2

Tom Bergeron – DPW Superintendent Kyle Bessette – Lead Collection System Operator Rebekah Novak – RCAP Solutions

Our mission is to improve:

- **Service** for our customers
- Safety of our staff
- Environmental health (CT River)
- Status with MassDEP and EPA
- Overall system condition
 - Including the Clean Water Facility



Collection System Goals



Proactive Maintenance

- Jet-cleaning
- CCTV
 - Identifies issues BEFORE a major problem
- Repairs
 - Research
 - Bids
 - Scheduling
 - *NON-Emergency



Increase Capacity

- Reduce inflow
 - Roof leaders, sump pumps
- Reduce infiltration
 - Groundwater & stormwater
- Remove dirt/grit/debris
 - Sewer pipes
 - Stormwater pipes
 - *catch basins
- Avenue A buffer line
- *Protects the CWF
- Reduces CSO events and volumes



Avoid Extra Costs:

- Reactive Maintenance
 - Overtime
 - Emergency pricing
 - Skips procurement
- Administrative
 - Consent Order
 - Notice of Noncompliance
 - Outsourced Engineering
- Erving sewer bill

The DPW Team

Highway Foreman Will Stratford Superintendent Office Manager Brandy Patch Tom Bergeron **Collection System Lead Operator** Kyle Bessette

- (8) Highways
- (2) Mechanics
- (1) Custodians
- (2) Building Maintenance
- (3) Grounds

Single Staff member for:

- -Sewer Collection system
- -Stormwater Collection system
- -Combined Sewer Overflows
- -Completing/updating GIS database

Collection System Ongoing Tasks

*CWF: Clean Water Facility
*CSO: Combined Sewer Overflow
*CCTV: Closed Circuit Television

Weekly Inspections:

- *CWF influent line
- *CSO Structures
- Bufferline



Storm Inspections:

- CWF influent line
- CSO Structures
- Bufferline



Annual off-road easement clearing

(background photo)

Ongoing *CCTV (camera inspection)



Ongoing dye testing and smoke testing (mitigate inflow & infiltration)



Ongoing Field investigations





= More than one person (SAFETY)



The Future in GIS

"Geographic Information System"

Creates, manages and analyzes maps and data.

Asset Management

Compiles a complete list of the system's assets, their locations, and conditions to ensure projects are prioritized correctly.

Recordkeeping & Reporting

Collects system information in an efficient manner that can be viewed in real-time by other staff and exported into reports.

Environmental

Improves system understanding of where the environment may be impacted.

Stormwater System unknown

(Maps are almost non-existent. Large volumes of groundwater are conveyed by stormwater system.)

Safety

Reduces staff risk; minimizes driving time, manhole entry, time spent in the street.

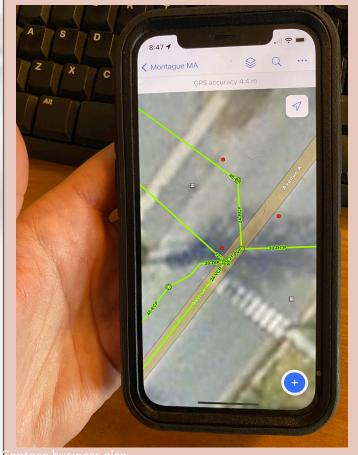
Risk Analysis for Assets

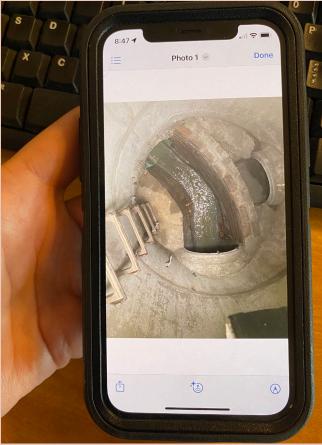
Consequence of Failure

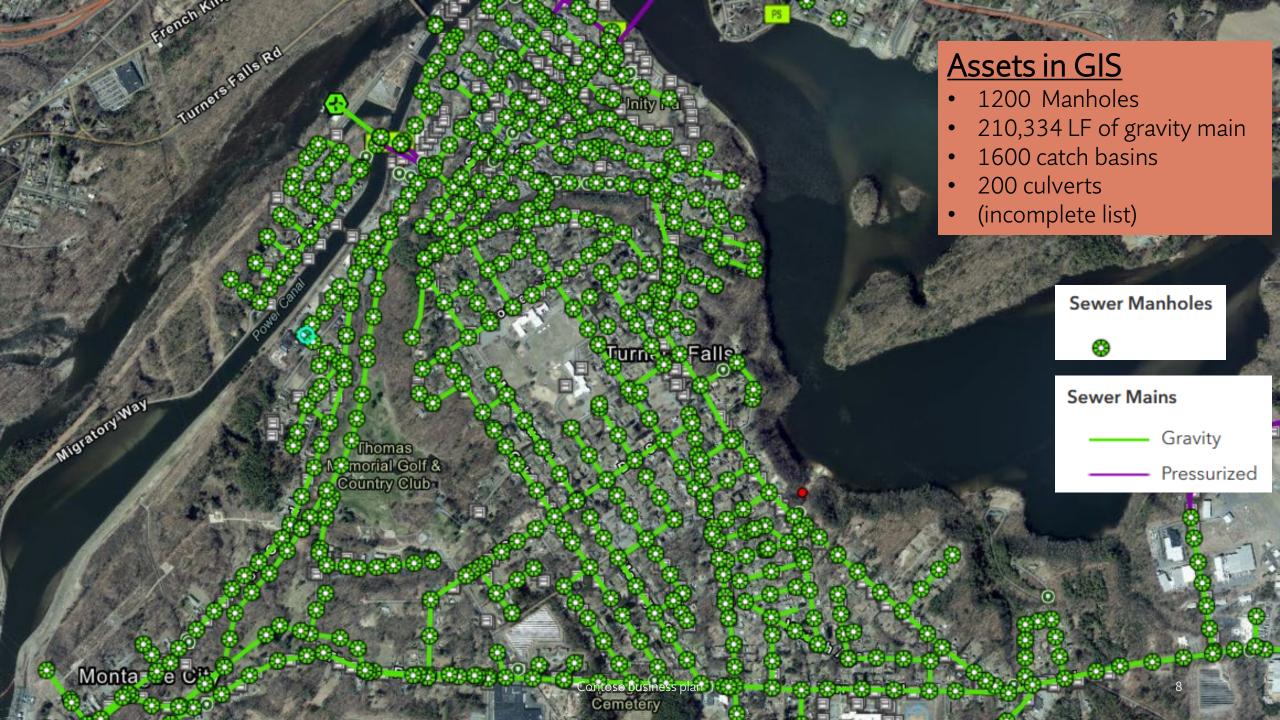
- Social
 - Who it effects
- Economical
 - Emergency repairs (\$)
- Environmental
 - Overflows to River
 - Overflow in Street

Probability of Failure

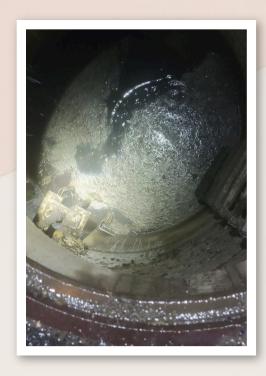
- Age
- Material
- Current condition
- *Inspections







Operation and Maintenance



Avenue A Bufferline Clogged 12' manhole



Offroad Manholes

Located in GPS, marked,
easements cleared



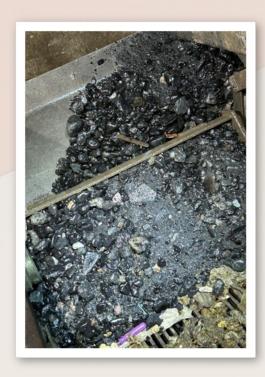
Erving Flume

Manhole pipe almost completely blocked by roots

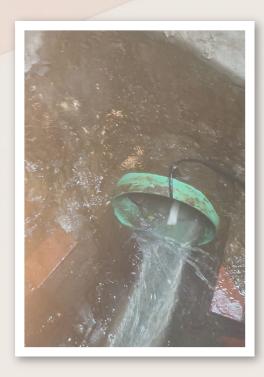


Roadside drainage
Damaged, unsafe

Recent Discoveries



CWF Bar Racks Full
Sand, gravel, rocks, bricks



7th & L Major Infiltration



J Street Siphon inlet
Flow from unknown source, CSO structure found



"Dry Weather Discharge" Initially a violation, now just stormwater outlet

Tom Bergeron Kyle Bessette

Thank you

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