



# 2016

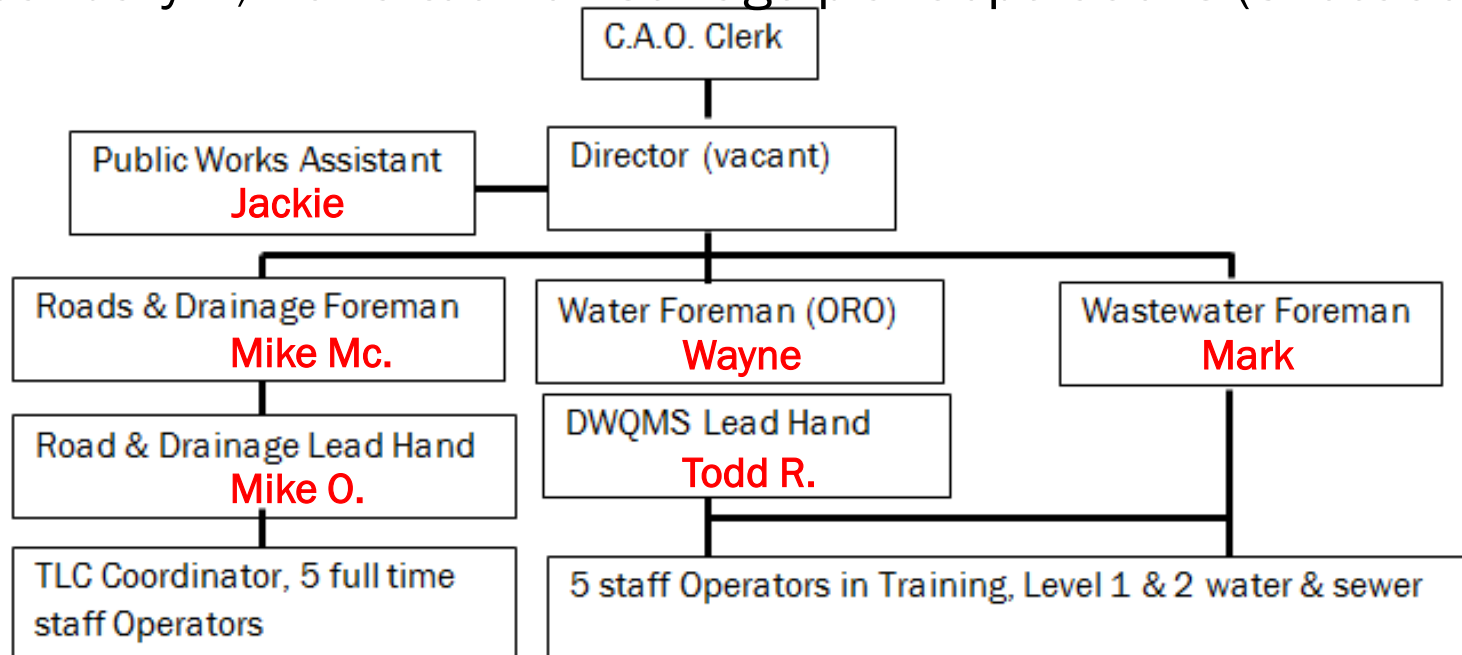
## Public Works

Year End Review



# Public Works Structure

- Recent retirement/relocation no Director replacement for now
- Restructured 2010 to three sections Roads and Drainage (Mike McIsaac); Water (Wayne Metzger); Wastewater (Mark Robertson)
- January 1, 2015 took on sewage plant operations (3 locations)



Paul J. Kyle, Dan, Doug, Ryan, Mike Mac.

Todd C., Clarke, Paul F., Mike D., Connor



# Public Works Since 2010-11

- Regular cross department meeting (some attended by Chair)
- Minutes and initiative tracking through Admin support
- August 2014 surplus equipment sale sweepers, bucket truck, and other equipment, \$40,000 made defer maintenance
- January 2015 sewage plant assumed; remove \$294,000 Centre Wellington payment; net 2 new staff; comparable staff per capita other municipalities does not account for contracts
- November 2015 conversion 800 streetlights to LED
- \$27 million in capital project spending
- CityWide, GIS link to Asset Management



# Roads & Drainage Mike McIsaac







Accessibility  
addition to  
the Public  
Works office







## Sidewalk Replacement







## 12<sup>th</sup> Line Culvert Repair Due to Beaver Dams







## Nitrogen Fertilizer Spill Clean Up









Clifford  
Ann Street  
Rail Trail  
Clean Up







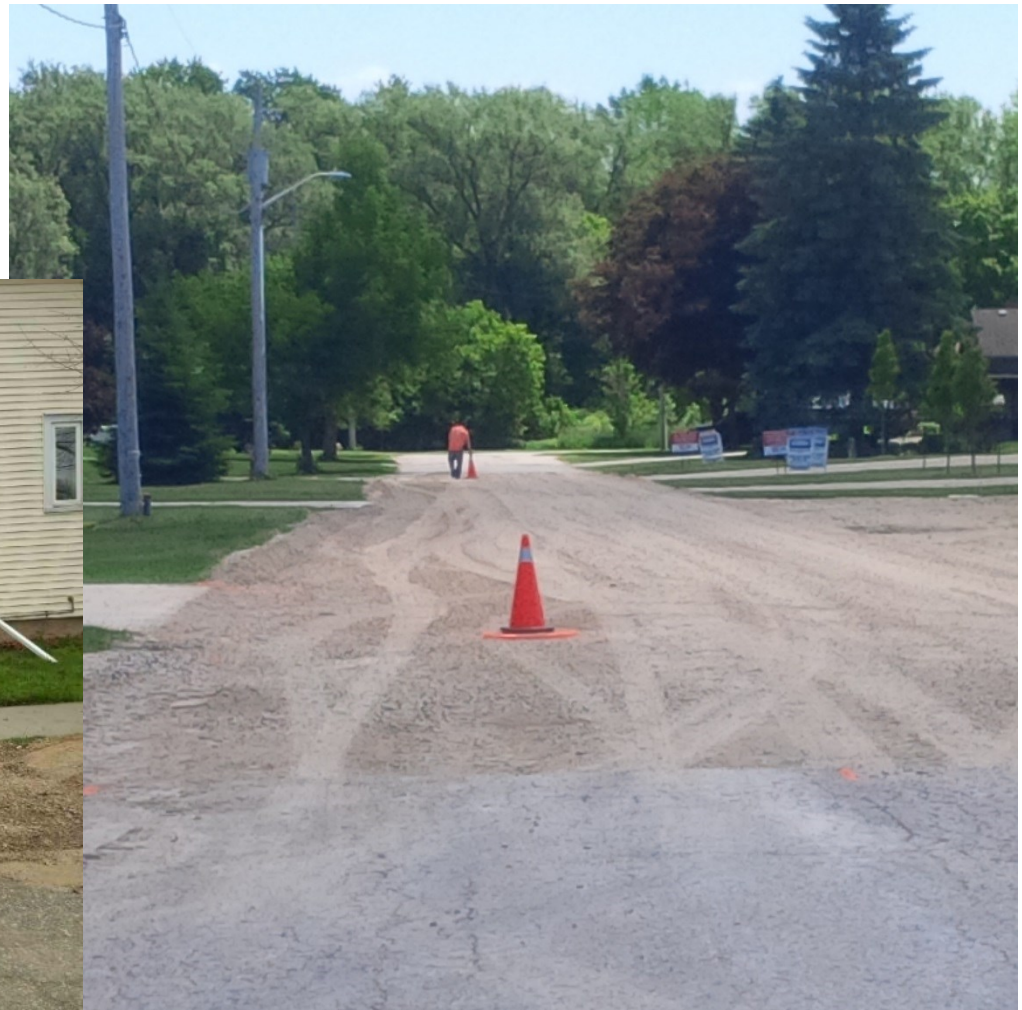
## Municipal Drain Repair







## Asphalt Repair & Prepping for Paving







## Rural Paving







## Ditch Brushing







## Tree Removals





## 2016 IPM







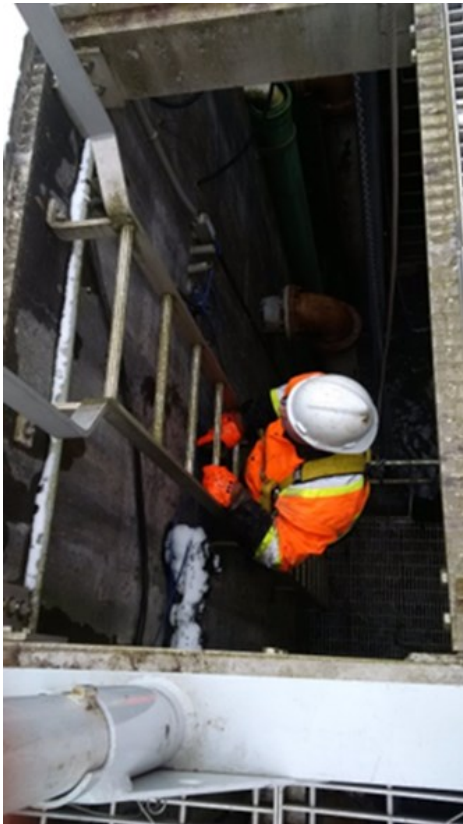
# Wastewater Mark Robertson





# Palmerston

Raw sewage screen repaired





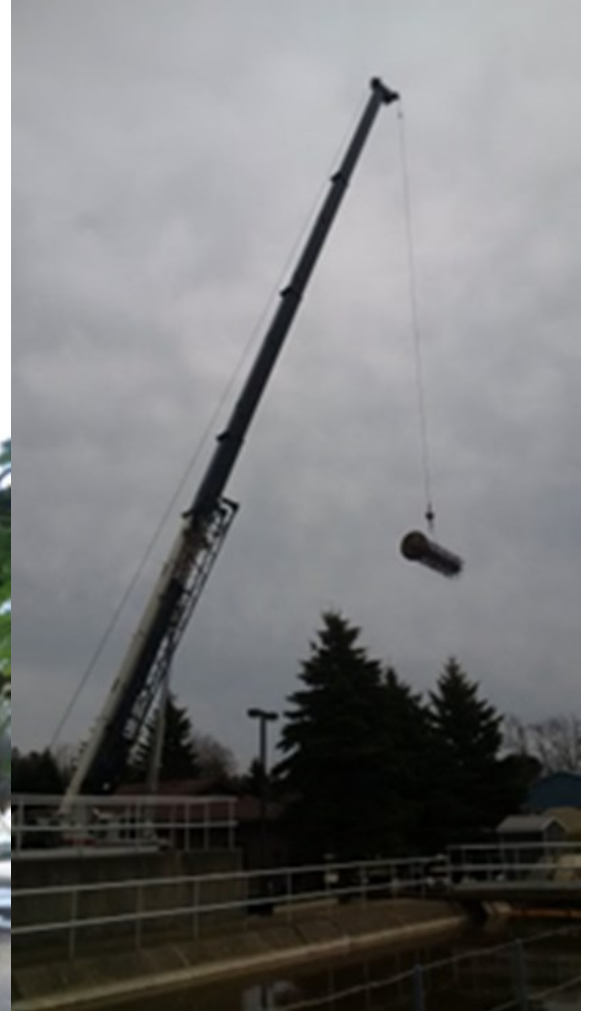
- Clarifier gearbox main bearing failure
- Thermal Imaging done on electrical
- Sludge loading shute repair





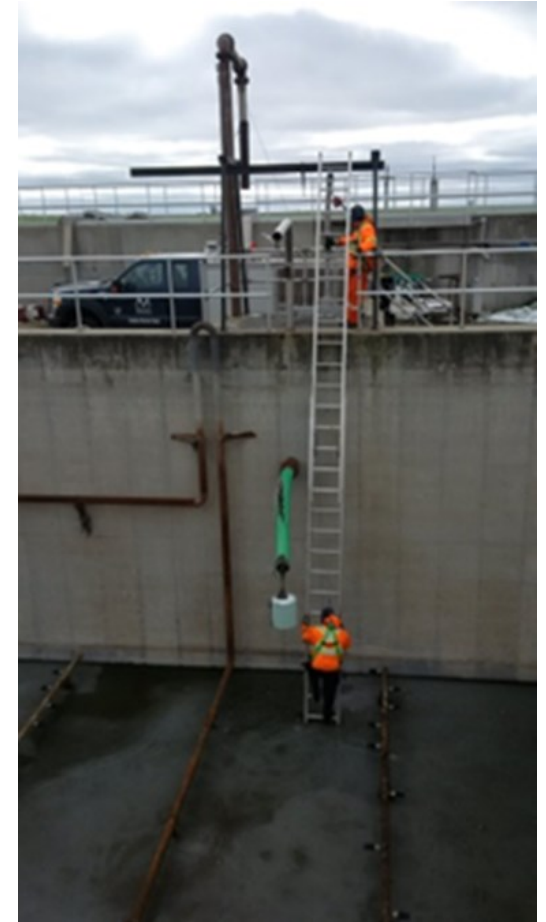
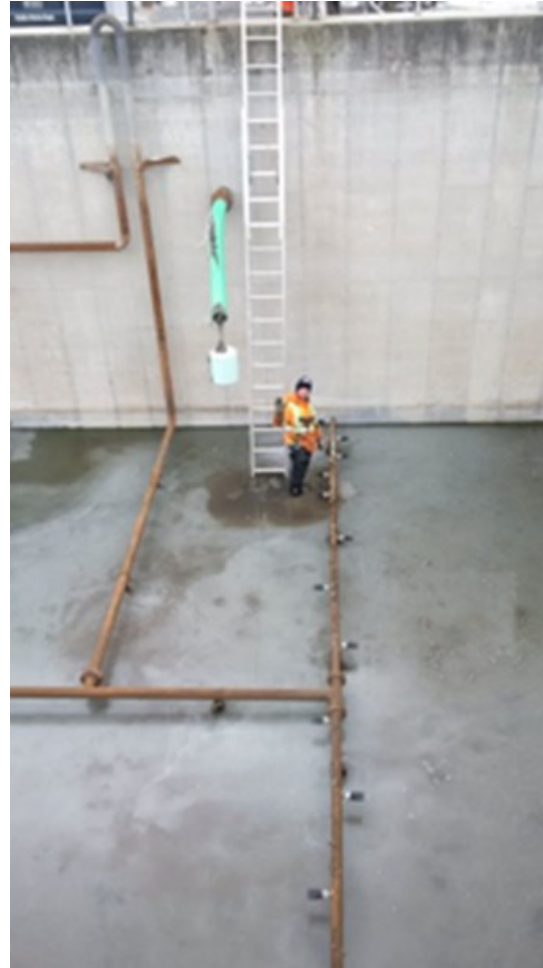


## Aerator rotor failure





## Sludge storage aeration repair



## Clarifier structural roof repair





- A complete plant inventory was finished.
- Palmerston's locate cards for the collection system were all scanned and inputted into an electronic version. Currently working on Harriston and Clifford
- A significant amount of camera work was done in the collection system by foster sewer services.



# Harriston

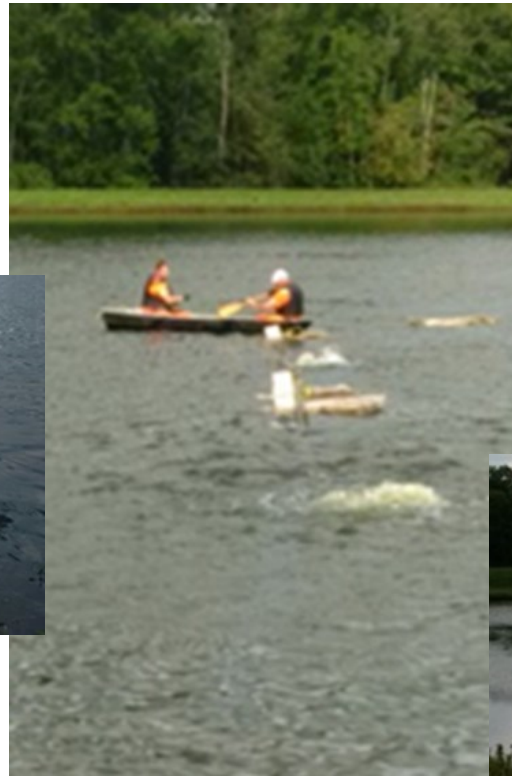
- Manhole inspection completed and put on electronic version with pictures
- Harriston Shop Parts room inventoried







- Aeration rehabilitation at the Harriston lagoons Cell #1 & Cell #3
- Harriston Lagoon cell #3 discharge valve repaired, replaced stem





Pilot project at the Harriston Lagoon to introduce a pre-screen. Pre-screen failed.





- Harriston MOECC inspection. Working on a new ECA for the Lagoons
- Replaced 3 blowers at the Harriston lagoon
- Wellingdale Construction working on completion of Lorne St. SPS and handing over ownership to the town
- Harriston Lagoon sluice gate valve replacement between cell #1 & cell #2 replaced by Wellington Construction.
- Thermal Imaging done on electrical





## Robertson St. SPS check valves and pipe replaced



William St. SPS catastrophic pump failure  
(#2 pump replaced with new Hydromatic)





Fence installed at the Harriston lagoon to keep our geese on the lagoon property





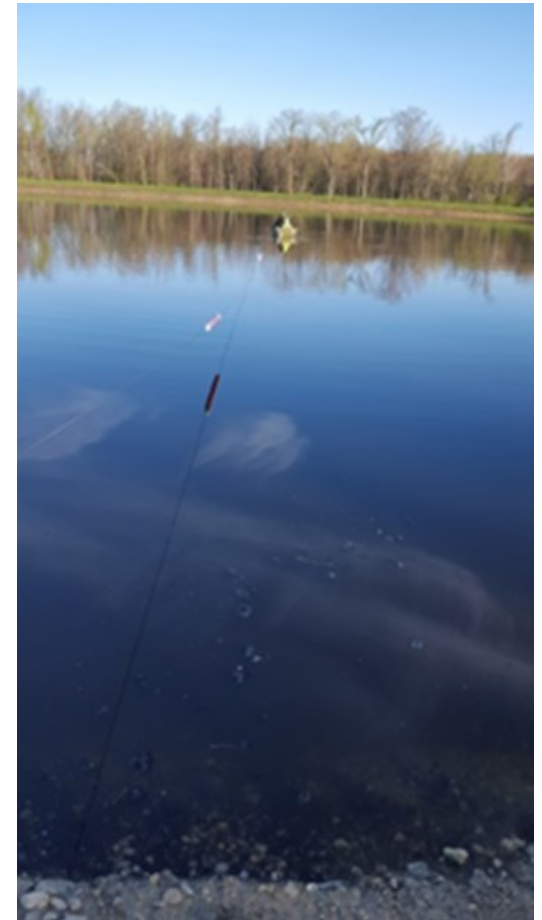
# Sampling high strength sewage In the Collection System







Harriston Lagoon sludge mapping completed.  
Baseline test, not a lot of sludge accumulated  
in cell #1





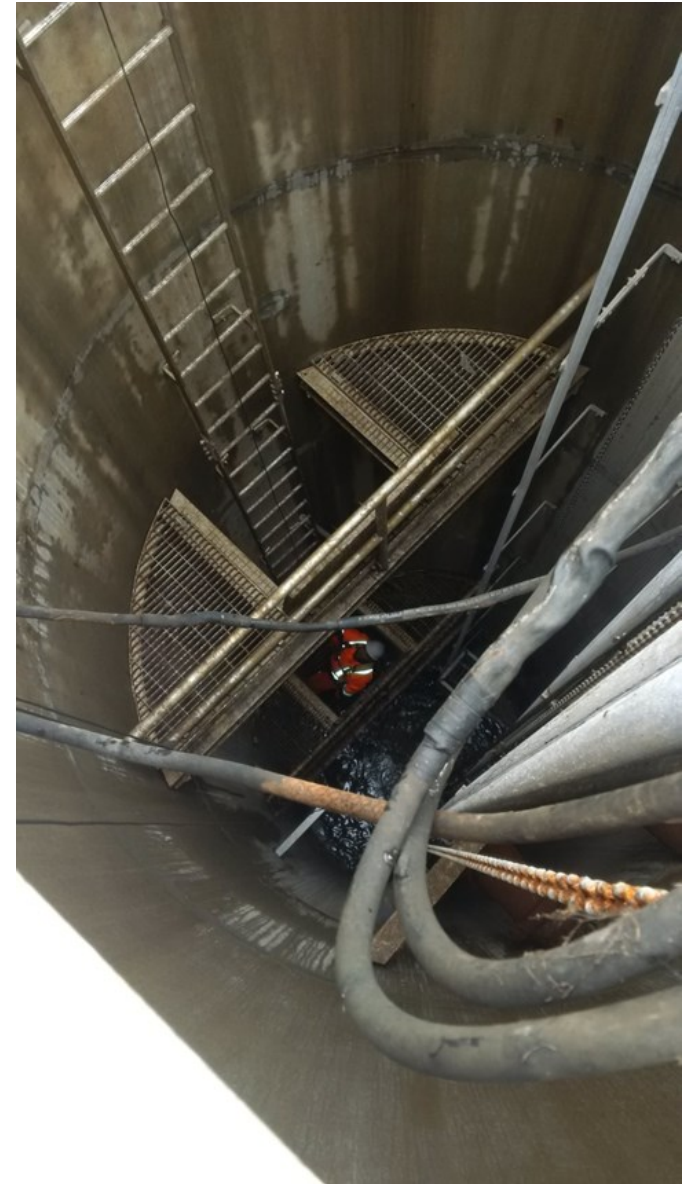
# Clifford

- Clifford MOECC inspection completed.
- New ECA as a result of the inspection
- New 24hr composite sampler  
required in ECA upgrade
- Thermal Imaging done on electrical
- Clifford lagoon aeration and filter  
bed overgrowth removed  
and trees cut down.





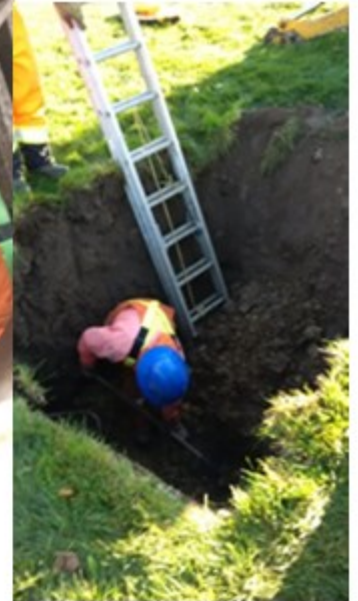
## Raw sewage inlet basket repaired





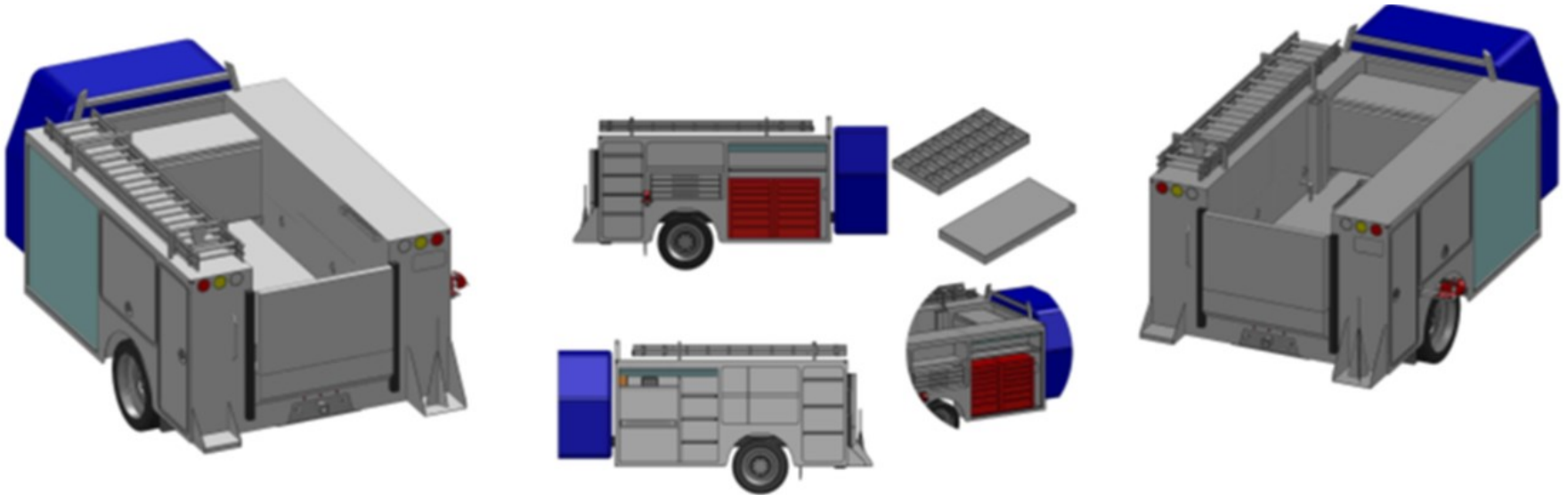


Numerous sanitary and storm sewer repair throughout the 3 collection systems





## Replacement Service Truck shared with the Water department





# Water Wayne Metzger



AT YOUR SERVICE





# Clifford

22 Clarke St. Water Leak Repair – Back Lot





# Checking Heat Tracer For the Clifford Water Tower







Clifford Water  
Tower

Pressure Relief  
Valve





Clarke

In Clifford  
Well #3





# Harriston

## Well #2 Upgrades







Todd

Well #2  
Maintenance







## Well #3 Upgrades



Harriston Shop

New Racking







# Palmerston



James &  
Inkerman

Tie in to  
New Watermain





# Jane Street Watermain Replacement







# SCADA Upgrades In Palmerston





Connor

Well #3  
Maintenance





## York Street Water service for Sinclair Construction







## SCADA Upgrades In Minto Pines





Palmerston

Vac Out for  
Streetlight  
Pole  
Replacement





Palmerston

Water Main  
Break







Supplying  
Water for the  
2016 IPM



Preparing the

Water Wastewater  
Service Truck

For the Christmas Parades







# Questions

