

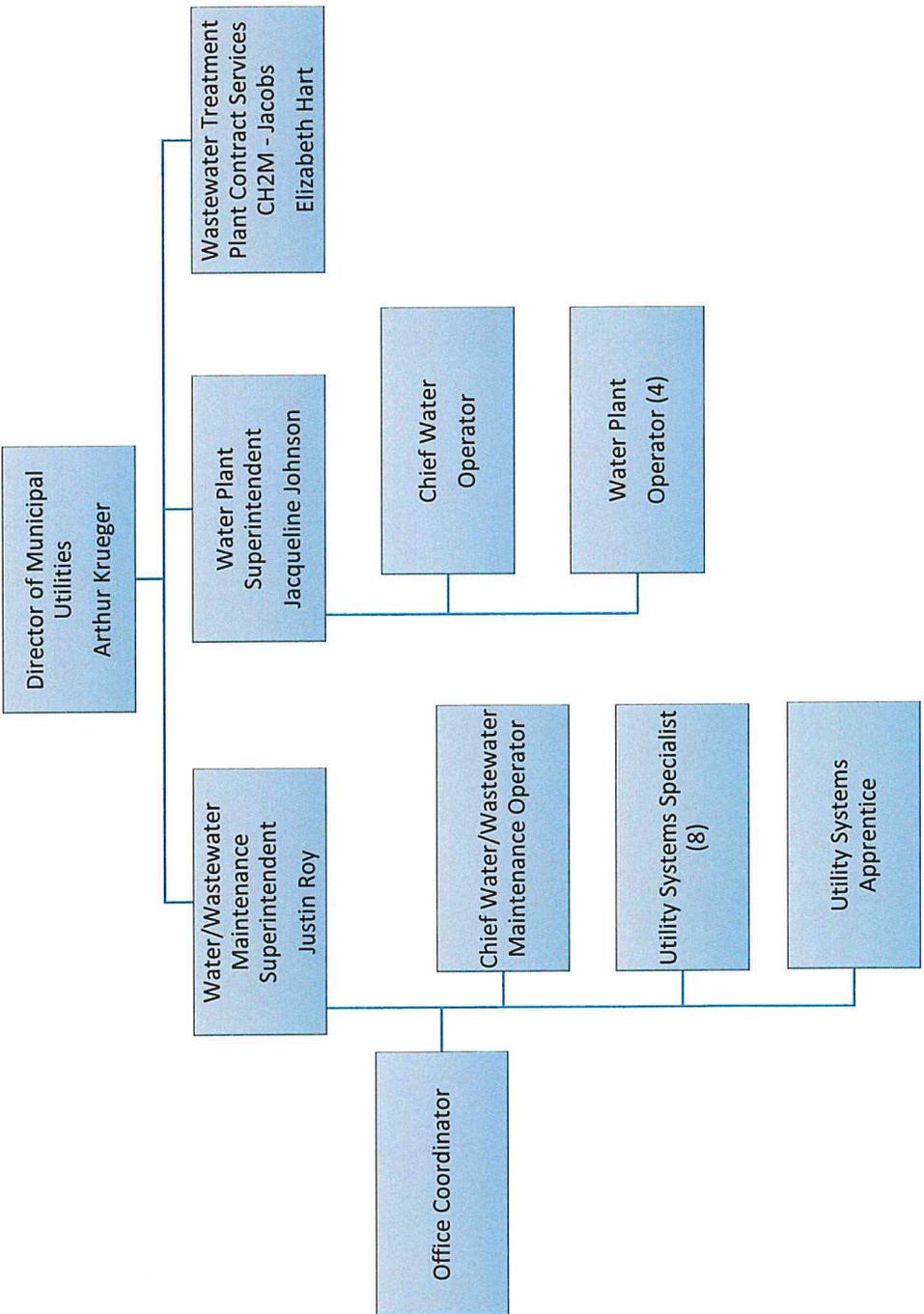
CITY OF TRAVERSE CITY
DEPARTMENT OF MUNICIPAL UTILITIES
2017
ANNUAL REPORT



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Department of Municipal Utilities Organizational Chart



**DEPARTMENT
OF
MUNICIPAL UTILITIES**

MISSION STATEMENT

*Preserve and enhance the safety, health, and quality of life for the people of
Traverse City through the effective management and maintenance of its
drinking water and wastewater infrastructure.*



WATER/WASTEWATER MAINTENANCE DIVISION

Staffing:

Superintendent – Justin Roy

Chief Water/Sewer Operator – Robert Zywicki

Office Coordinator

8 - Utility Systems Specialists

0 - Utility Systems Apprentice (Not vacant; all are Specialists)

2 - Seasonal Laborers

Maintenance/Operational Responsibilities:

- 120 miles of pressurized water mains
- 80 miles of sanitary sewer mains
- 3,000 water system valves, 6" to 30" in diameter
- 1,000 fire hydrants
- 7,200 water meters
- 2,000 manholes

WATER/WASTEWATER MAINTENANCE DIVISION

Customer Service Activities:

- 525+ water service turn on/off requests
- 46 hydrant flow tests
- 998 fire hydrants winterized
- 76 sewer calls; 16 City main related issues; 60 private property service line issues
- 13 miles of sanitary sewer cleaned
- 135 water taps installed
- 350+ service calls (sampling, leaks, inspections, meter reads/re-reads, low pressure complaints, new meter installs, etc.)
- 3,350+ Miss Dig responses
- 5 water main break repairs
- 1 sewer main break repair
- 133 valves turned
- 10 miles of sanitary sewer televised and inspected
- Replaced 15 lead gooseneck water service connections; 21 replaced by Contractor
- Implementation of residential cross-connection program (600 total completed by contractor; 250 residential & 350 non-residential) to increase water system safety

Other Projects Completed:

- City staff assisted heavily with in-kind labor (cleaning and televising sewer mains and manhole inspections) to complete the four year Storm Water, Asset Management, and Wastewater (SAW) Grant project in May 2017 which included over \$2 million in grant funds to create an Asset Management Plan for Wastewater and Storm Water, and a Management Plan for Storm Water.



WATER PLANT DIVISION

Staffing:

Superintendent – Jacqueline Johnson

Chief Water Operator – Vern Coblentz

4 - Water Treatment Operators (Rotate through Maintenance)

Maintenance/Operation Responsibilities:

- 20 MGD Water Treatment Plant (5 high service pumps, numerous valves/meters, etc.)
- Low service pump building with intake system (4 pumps, 2 traveling screens, crib, etc.)
- 2 flocculation basins
- 5 sand & anthracite gravity filters
- 3 chemical feed systems (ferric sulfate, chlorine and fluoride)
- Plant compressed air system (operates valves, bubbler systems, etc.)
- 1 backwash pump to clean filters via backwashing process
- 2 lagoons for settling solids out of filter backwash water; recycled water discharges to East Bay
- 750 KW diesel generator in plant
- 275 KW diesel generator in the Wayne Hill Booster Station
- 3 water storage reservoirs (4 MG, 1.5MG and 1.3MG)
- 2 booster pump stations
- 7 pressure reducing valve vaults

WATER PLANT DIVISION

Customer Service Activities:

- Produced just under 2 billion gallons of safe, great tasting water for City, Garfield Township, Elmwood Township and Peninsula Township Residents.
- Completed between 50 and 75 water quality tests per week in MDEQ certified microbiology lab to ensure water that is produced is safe (lab is inside water plant)
- Continued a monthly, two year raw water testing program for the LT2 Enhanced Surface Water Treatment Rule to measure the presence of Cryptosporidium, Giardia and E. coli in the untreated water source (East Bay).
- Sampled weekly (plant) and monthly (distribution system) water quality parameters to establish data baseline before completing the coagulant chemical treatment change from Aluminum Sulfate to Ferric Sulfate.

Plant Related / Infrastructure Improvements:

- Replaced second of two flocc tank mixer units with variable frequency drive (VFD)
- Replaced second of two sump pumps in basement that pump recycled lagoon washwater to East Bay
- Replaced original (1965) Aluminum Sulfate bulk storage tanks and piping system with new fiberglass bulk storage tanks and piping system for Ferric Sulfate storage.
- Completed coagulant chemical treatment change from Aluminum Sulfate to Ferric Sulfate to more efficiently treat our water.
- Removed sludge from one of two washwater lagoons to renew sludge storage capacity.
- Began construction of a new 2 MG water storage reservoir adjacent to the existing 4 MG Barlow Reservoir.

Other Projects Completed:

- City staff completed a Water System Asset Management Program document by the deadline mandate of January 1, 2018 set by the MDEQ and is currently under their review.

End of Report