

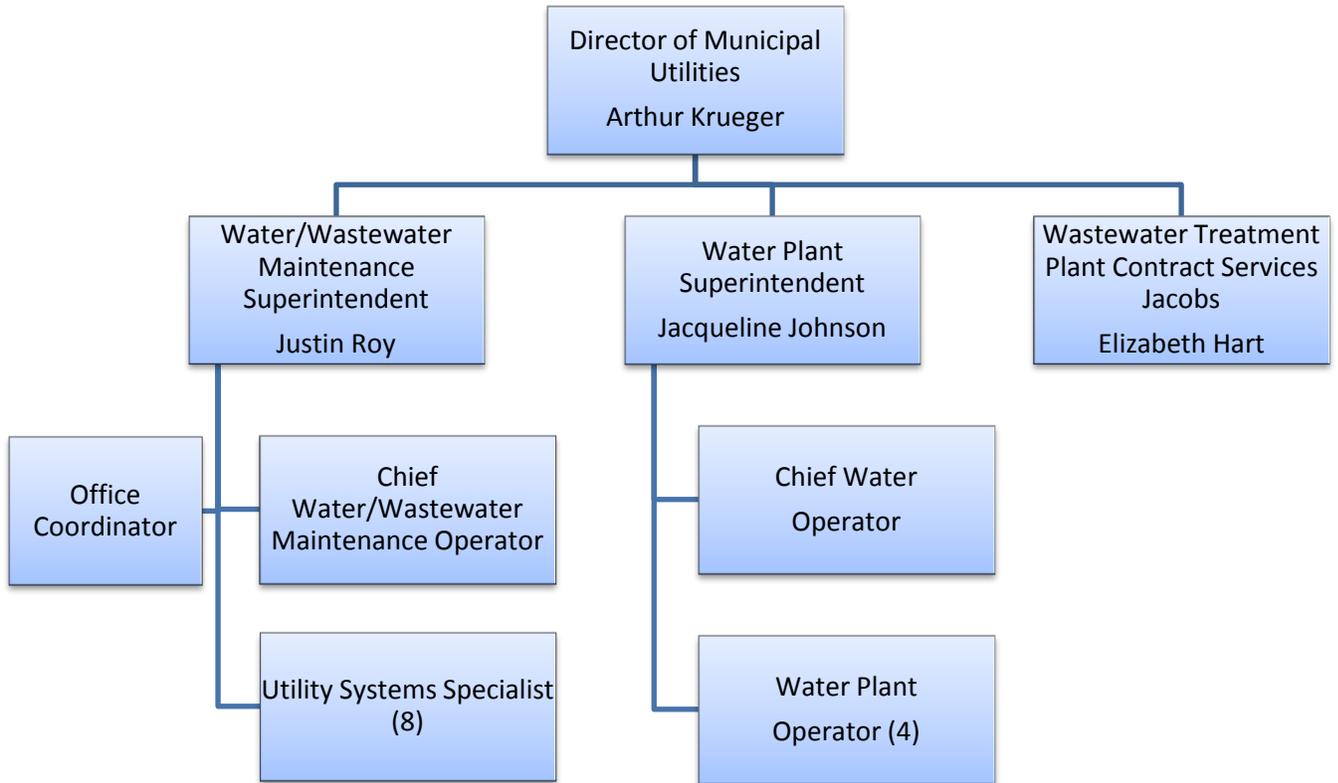
**CITY OF TRAVERSE CITY**  
**DEPARTMENT OF MUNICIPAL UTILITIES**  
**2019**  
**ANNUAL REPORT**



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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.*



**Barlow 4 MG Water Reservoir Rehabilitation Project**



## **WATER/WASTEWATER MAINTENANCE DIVISION**

### **Staffing:**

Superintendent – Justin Roy

Chief Water/Sewer Operator – Robert Zywicki

Office Coordinator – Kelly Rice

8 - Utility Systems Specialists

1 - Seasonal Laborer

### **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
- 7,400 water meters
- 2,000 manholes

## WATER/WASTEWATER MAINTENANCE DIVISION

### Customer Service Activities:

- 5,200+ new water meters installed as part of the ongoing Automated Metering Infrastructure project with TCLP.
- 3,200+ Miss Dig responses
- 500+ water service turn on/off requests
- 850+ hydrant flow tests
- 998 fire hydrants winterized
- 75 sewer calls; 17 City main related issues; 58 private property service line issues
- 12 miles of sanitary sewer cleaned
- 3 miles of sanitary sewer televised and inspected
- 1 sewer main break repair
- 100+ water taps installed
- 400+ service calls (sampling, leaks, inspections, meter reads/re-reads, low pressure complaints, new meter installs, etc.)
- 6 emergency water main break repairs
- 250+ valves turned
- Continued enforcement of cross-connection program (Completed by contractor; 250 residential inspections, 350 non-residential inspections) to increase water system safety.





## **WATER PLANT DIVISION**

### **Staffing:**

Superintendent – Jacqueline Johnson

Chief Water Operator – Vern Coblentz

4 - Water Treatment Operators (Rotate through Maintenance)

### **Maintenance/Operation Responsibilities:**

- 20 million gallons per day (MGD) rated Water Treatment Plant (5 high service pumps, numerous valves/meters, etc.)
- 17.8 MGD rated Low Service pump building with intake system (4 pumps, 2 traveling screens, intake 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 (NPDES permit)
- 750 kW diesel generator in plant
- 275 kW diesel generator in the Wayne Hill Booster Station
- 20 kW natural gas generator at Barlow Tanks site
- 4 water storage reservoirs (4 million gallons (MG) & 2 MG at Barlow Site; 1.3 MG at Wayne Hill & 1.5 MG treated water storage reservoir at plant)
- 2 booster pump stations
- 7 pressure reducing valve vaults

## **WATER TREATMENT PLANT DIVISION**

### **Customer Service Activities:**

- Produced 1.975 billion gallons of safe, clean drinking water for the City, Garfield Township, Elmwood Township and Peninsula Township Residents.
- The Water Treatment Plant's State certified microbiology lab tested over 1700 water samples for bacteria to keep the City and nearby water supplies safe.
- Completed EGLE mandated lead and copper testing of our drinking water with excellent results well below the respective action levels.
- PFAS testing was performed at the Water Treatment Plant (6 monthly samples) and the results were very low meeting current water quality standards.
- Participated in the EPA Unregulated Contaminant Monitoring Rule (UCMR), which continues through August 2020. EPA uses the UCMR to collect data for contaminants that are suspected to be present in drinking water and do not have health-based standards set under the Safe Drinking Water Act (SDWA).
- Completed Lead and Copper Rule (LCR) Sampling Plan and Distribution System Materials Inventory (DSMI) as required by EGLE.
- EGLE Sanitary Survey completed with satisfactory results.
- Reduced overall unaccounted for water (water loss) from 19.5% to 16.5%.

### **Plant Related / Infrastructure Improvements:**

- The newly constructed Barlow 2 million gallon (MG) reservoir was put into service.
- Began rehabilitation of the Barlow 4 MG reservoir (See photos on pages 4 and 7)
- Completed water system leak detection field analysis for the west half of the City water mains (59 miles). Results were overall good and found and repaired one substantial leak in the Grand Traverse Commons. Several minor leaks were also detected at hydrants.
- Invested \$170,860 at the Water Treatment Plant to repair three pumps, install a variable frequency drive (VFD) and replace three check valves to restore reliability and reduce energy costs.
- Security and fire system upgrades at facilities.
- Replaced the main electrical transformer at the Water Treatment Plant to increase electrical reliability.
- Invested \$1.1M to rehabilitate the 4 million gallon Barlow water storage reservoir (Project to be completed spring 2020).
- Installed 2,000 feet of 24-inch water transmission main and 825 feet of 16-inch water main (Franklin St) with the 8<sup>th</sup> Street Reconstruction Project.

**End of Report**