

COSTS

OPERATING COST HISTORY (\$ per MGD)

Operation & Maintenance Wholesale Rates:

Year	2015	2014	2013	2012	2011
\$/MG	1766	1766	1606	1434	1096

Bond Rates

Bonds	2015	2014	2013	2012	2011
\$/MG	1186	1186	1200	1212	1082

HISTORY

Near the end of the 1960s, citizens and community leaders in Muskegon County were becoming increasingly aware of serious environmental problems in their community.

The County's three main recreational lakes were being polluted. Depending upon the specific lake, there was visible direct pollution, periods of foul odor, severe algal blooms, and/or loss of open water surface to weeds. Swimming and boating in the lakes was unpleasant and becoming unsafe.

In reaction to this, community leaders and planners in Muskegon County decided to design and build a spray irrigation system that would reliably treat up to 42 million gallons per day of wastewater. This forward-looking solution has served the community since and now stands as a significant community asset in attracting economic development.

FACTS & DATA

TREATMENT METHODOLOGY

- Biological treatment followed by slow-rate irrigation & rapid sand filtration

ADVANTAGES

- Ability to treat a broad spectrum of wastes
- Low operating costs
- Very clean discharge to lakes, rivers, & streams

SYSTEM CAPACITY

- 43 MGD of wastewater
30 MGD currently available
- 73 Tons per day of suspended solids
50 Tons per day currently available
- 72 Tons per day of biochemical oxygen demand
40 Tons per day currently available

TYPES OF WASTE TREATED

- Waste that is high in suspended solids, BOD, color, nutrients, & man-made organics can generally be handled without pretreatment

TYPICAL DISCHARGE QUALITY

- Carbonaceous biochemical oxygen demand (CBOD) < 2 mg/l
- Suspended solids (SS) < 10 mg/l
- Total phosphorus < 0.05 mg/l
- Dissolved oxygen > 5.5 mg/l

MUSKEGON COUNTY
WASTEWATER MANAGEMENT SYSTEM

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WASTEWATER MANAGEMENT SYSTEM

CONTACT US



Acreeage is available for immediate use and is well suited for industrial, manufacturing, food processing, and other types of businesses.



Tours of the system may be arranged for your group by contacting us directly by phone or by visiting our website.

698 N. Maple Island Road
Muskegon, MI 49442

231-724-3440

ONE OF A KIND.



**A world-class land application
wastewater treatment facility right
here in West Michigan**

Visit us.

www.co.muskegon.mi.us/wastewater

ABOUT US

A pilot project for the USEPA, the Wastewater Management System is so massive it has been viewed by orbiting NASA astronauts. We have 11,000 acres for our land treatment process.

WHY US?

With low wastewater charges and low surcharge rates for high-strength wastes, MCWMS has the ability to lower commercial and industrial production costs in an environment-friendly way.

AVAILABLE LAND

The large amount of land available is a real opportunity for those industries that require room to grow. Location on the treatment plant site is an advantage for your company.

SERVICES

WASTEWATER TREATMENT

We've worked with many firms ranging from pulp and paper production, plastic moulding, food production, foundries, metal forming, and pharmaceutical manufacturing.

HAULED WASTE

An automatic scale system and sloped discharge area large enough for six trucks allow the haulers to complete deliveries quickly.

LANDFILL SOLUTIONS

The Muskegon County Solid Waste Facility offers landfill disposal solutions for industrial, contaminated, and demolition solid waste.

HOW DO WE DO IT?

Have any questions for us? Want a tour?
www.co.muskegon.mi.us/wastewater

