1955 — 1965 — 1975 — 1985 — 1995 — 2005 — 2015 — 2025

Original Sewage Treatment Works 1955
Bar Screens, oil and grease vacuator, flocculation tanks, settling tanks, chlorination, anaerobic digesters, vacuum filters

Sanitary Sewer Construction 1955
Gibson St. Interceptor Sewer, Pitcher St. Interceptor Sewer, Area VI Interceptor Sewer, O'Neil Interceptor Sewer, O'Neil Siphon, Harrison-Gull Interceptor Sewer, Gull St. Interceptor Sewer, Ray St. Interceptor Sewer, East Michigan Ave Interceptor, Miller/Lane/Reed Interceptor via Penn Central RRSewer, Wallace Ave Interceptor Sewer

Sanitary Sewer and Storm Sewer Construction 1959
Milwood Sanitary Sewers (Miller to Cork, Portage to Cameron), Milwood Sanitary Sewers (Korkile, Emerald, Whittier, Lowell, Cambridge, Fulford, Southern, Homecrest, Nora), Bronson Blvd Sanitary Sewers (Duke, Dutchess, Garland, Bronson Blvd, Hol Hi Dr., Old Colony Rd., Par 4 Rd.), Miller/Fulford Trunk Sanitary Sewers and Davis Creek Storm Sewer, Davis Creek Culverts and Headwalls, Davis Creek Improvements

Sanitary Sewer and Lift Station Construction 1960- 61
Southwest Interceptor – Gibson to Royce, Whites & Woods Lake Lift Stations and area Sanitary Sewers, Southwest Interceptor – First Extension, Balch Street Relief Sewer, Alcott Trunk Sewer, Homecrest, Norton, Royce, Lovers Lane Sanitary Sewers, Stadium Drive Trunk (Would become the Arcadia Creek Interceptor)

Sanitary Sewer Construction 1968
Riverview Interceptor, Riverview Lift Station, Industrial Force Main (Riverview Force Main)

East Side Sludge Drying Beds 1963
Off-site sludge drying beds

In 1966 Kalamazoo residents marched on City Hall due to the odors caused by these drying beds

Federal Water Quality Act 1965
Required states to set water quality standards for interstate waters

Secondary Treatment 1967
Three 2.0 MG aeration tanks with mechanical mixers, four 1.2 MG square clarifiers, pump station

Aeration Tank No. 4 1969
One covered 2.0 MG aeration tank with mechanical mixers

Environmental Protection Agency (EPA) Established 1970
President Nixon created the Environmental Protection Agency to enforce environmental laws

Interceptor Construction, LPO Sludge Stabilization 1971
Interceptors: Davis Creek, Kalamazoo River, Miller Road, Southwest, Drake Road

LPO Process and the addition of two thickeners to replace digesters

Clean Water Act 1972
Major overhaul to Federal Water Pollution Control Act; introduced the National Pollutant Discharge Elimination System (NPDES).

Incineration 1972
Multiple Hearth Incinerator installed for solids handling

Interceptor Construction 1978
River, Portage, North Metro

General Pretreatment Regulations (40 CFR Part 403), 1978
EPA formalized the national pretreatment program, mandating POTWs with flows >5 MGD to implement IPPs

Primary Settling Tanks, Secondary Clarifiers, Administration Building, 1980
Six new 0.5 MG primary settling tanks and primary pump station

Four new 1.85 MG final clarifiers and secondary sludge pump stations

Construction of a new Administration building

Maintenance Building 1981
Construction of the Maintenance Building

Aeration Tanks No. 5-9, WAR Process, Tertiary Sand Filtration 1985
Four covered aeration tanks, four blowers

Intermediate Pressure Oxidation process installed for secondary sludge handling and carbon Wet Air Regeneration (WAR)

Ten gravity sand filters for Tertiary treatment

Ash Handling 1988
DSE Process installed to remove ash from WAR process

Dechlorination Building 1991
Sodium Bisulfite dosing process installed to remove residual chlorine from treated wastewater

Belt Filter Presses, Carbon Unloading Station 1990
Installation of two belt filter presses

Powdered Activated Carbon unloading station added to WAR Building

Michigan NREPA 1994
Michigan Natural Resources and Environmental Protection Act (Act 451) consolidated Michigan's environmental laws; includes Part 31 (Water Resources Protection) and Part 41 (Sewerage Systems).

NPDES Delegation 1995
Consolidated Michigan's environmental laws; includes Part 31 (Water Resources Protection) and Part 41 (Sewerage Systems)

Pilot Plant 1995
Miniature scale treatment plant constructed on-site for process testing

Belt Pressing 1997
Began dewatering secondary sludge with belt filter presses

LPO Offline 1996
Low Pressure Oxidation process, for sludge handling, taken offline

Ash Handling and Incineration Offline 1999
DSE and Incineration processes taken offline

Ferric Chloride 2000
Began adding Ferric Chloride to Primary Settling Tanks

Flocculation Tank Abandonment 2001
Flocculation Tanks abandoned the same year the Georgia Pacific paper mill shut down

WAR Process Offline, Ferric Chloride (Secondary) Solids Dewatering Facility 2002
West Air Regeneration process taken offline

Began adding Ferric Chloride to Secondary for phosphorus removal

Solids Dewatering Facility came online with four belt presses total

Sodium Hypochlorite 2006
Conversion from Chlorine gas to Sodium Hypchlorite for disinfection

Fine Screens 2009
Three Fine Screen units installed before Primary Settling to remove debris larger than three millimeters

Aeration Upgrade 2011
Two Turblex replacement blowers

Biological Nutrient Removal system online

Fine Bubble Diffusers installed in all aeration tanks for dissolved oxygen transfer

Incinerator, Industrial Screening Buildings Demolition 2013
Incinerator and Industrial Screening buildings demolished to make room for future processes

Raw Pump Upgrade 2013
Replacement of two existing raw pumps with 200 horsepower variable speed submersible pumps

SCB Upgrades, Envirosuite Online 2019
Six new solids pumps, new valves, new piping in the Sludge Control Basement

Envirosuite Odor Monoriting system online

Main Lab Renovation 2021
Environmental Services Main Laboratory Renovation

Solids Handling Upgrades, Carbon Scrubbers 2022
Three centrifuge units to replace belt filter presses, cake pumps to replace conveyor system

Addition of five new odor scrubbers with carbon and permanganate media

Odor Control Chemicals 2023
Peroxide addition to primary sludge thickener

D3W injection and topical spray for odor control

Biolab Renovation, GPI Sewer Re-route 2024
Environmental Services Biological Laboratory Renovation

Re-route of effluent sewer from Graphics Packaging with a new smooth-flow, airtight sewer to prevent any odor causing gases from escaping

Disc Filter Building 2025
Ten disc filters to replace gravity sand filters for Tertiary treatment. Filtering cabability to remove debris larger than 10 microns.