



City Council Staff Report

Public Works Department

Prepared by:

Shawn Blaney – Public Works Director
Lynn Nardinger – Deputy Director, Public Services Division
Jeff Schneider – Deputy Director, Solid Waste Division
Jerry Plein – Deputy Director, Utilities Division
Patrick Ramaker – Deputy Director, Buildings/Grounds/Parks
Brian Biver – Superintendent of Buildings/Grounds
John Friedrich - Superintendent of Parks & Cemeteries
Dave Olson - Superintendent of Public Services/Collection and Distribution Division
Jason Frion - Superintendent of Solid Waste Division
Tina Folch – Contracts Administrator
Joe Melson – Marina Manager
Tammie Dougherty – Office Manager/Assistant Airport Manager

Accomplishments 2022

TOPIC 1 – Public Services Division

The Public Services Division includes Streets, Fleet Maintenance, Marina, Water Distribution and Sewer Collection. It consists of 1 Deputy Director, 1 Superintendent, and 1 Marina Manager. In addition, the Streets department consists of 1 Operation Foreman, 1 Maintenance Lead, and 8 Maintenance I. The water and sewer distribution and collection department consists of 1 Operation Foreman, 2 Operators, 2 Assistant Operator, and 2 Apprentice Assistant Operator 1 Asset Locator. The Fleet Maintenance division has 1 Fleet and Supply Controller, 3 Mechanics.

Public Works: The following items include all Public Works Departments.

Ole Miss Marina – The marina saw another busy year with almost 100% occupancy of our 285 slips. Revenue was up in almost every line and now carry a fund balance of \$200,000+. Dockwa was introduced in 2020 and continues to be a great tool for the marina. This web-based software allows customers to sign contracts and make payments online. This has saved many hours of staff time preparing contracts to be mailed out. All transient reservations are also made through Dockwa. 323 transient reservations were made online in 2022 with 261 being confirmed. Some of the dock at Colvill was re-decked starting in November-December of 2021 and finished in February and March of 2022. Dredging was completed at Ole Miss Colvill during the summer, removing roughly 5,000 yards of material that was hauled and placed at the material handling site on Levee Road. This material will be dried out and blended with compost to make black dirt for use on city projects. The project was

completed with local contractors and city staff. A new office, restrooms, and garage was started at the Ole Miss Storage Yard. City crews will be working on this over the next two winters.

Fleet Maintenance – The shop had 1722 shop tickets for vehicle repair. 12 new vehicles and equipment were purchased including our first EV Chevy Bolt. Also purchased were 7 battery operated chain saws, debris blowers and weed whips. 16 vehicles and equipment were sold or traded, of those, 4 were traded in and 12 were sold on GovDeals or at auction.

Storm Damage – For the first time in many years, there were no major windstorms in 2022. For the second time in many years, the city had no major flooding in 2022.

Riverboats – Levee Park Improvements were completed in the spring of 2020. There were 34 scheduled visits from 8 different boats from American Cruise Lines, American Queen Voyages and Viking River Cruises. Five visits were canceled from Viking due to their boat not being completed. Two other Viking cruises were canceled due to low water down river in October. Staff is expecting a busy 2023. There are 37 scheduled visits from 7 different boats starting on June 29th and ending on November 3rd.

Marina Leases - The Marina Lease Committee approved a new lease with River Valley Marina. We were unable to reach an agreement with Red Wing Marina but continue to work with them on reaching an agreement.

Sidewalks – Staff and crews continue working on the Mayor’s Task Force sidewalk maintenance program. Inspections were done of the city’s sidewalks in 2022. Staff created a list of residential sidewalks for 2022 with 10 letters sent out this past spring with sidewalks that rated in the poorest condition. In 2022, City crews replaced 9 sections of sidewalks that were found to be out of compliance as well as 19 sections that needed to be replaced because of damage caused by boulevard trees. The trees were removed along with the sidewalk and were replaced with new. Crews replaced 29 ADA sidewalk approaches in preparation of the mill and overlay project.

MNGL – Staff worked on three different projects at the golf course. A gabion retaining wall was installed by hole # 12 to replace a failing timber wall that holds up the cart path. Crews also did some milling of cart paths and new paving was done in other areas. 300 feet of guardrails were installed on the highlands to prevent golf carts from going off the paths.

Streets: There are 105 miles of paved streets, 6 miles of alleys, and 15 miles of gravel roads to maintain, spread over 40 square miles with 5,569 streets signs, 12 miles of trails, and 69 miles of sidewalks.

Street Work – Public Works crews reconstructed the 9th Street Alley. This consisted of removal of the old blacktop, sub-base installation, installation of new curb and gutter and installation of new bituminous as well as matching up to all driveways. Crews spent time at the airport expanding the parking lot and roadway access. Crews spent 605 hours spray patching potholes using 2131 gallons of oil and 51.25 yards of rock on various city streets. Staff spent 537 hours painting crosswalks, stop bars and parking stalls using 435 gallons of paint (paint was hard to get this past year). We also contracted the painting of all 125,183 feet of centerline striping and contracted 45,000 lbs. of crack sealer to be applied to streets. 232 signs were replaced due to vehicle accidents or failed the retro-reflectivity test.

Concrete and Blacktop – Crews poured approximately 760 yards of concrete and paved roughly 1121 tons of blacktop on various city projects.

Snow and Ice - crews spent 3597-man hours on snow and ice removal operations last season. We applied 685 tons of treated salt, 190 tons of straight salt, 71 yards of class 5 mixed with salt on gravel roads, 4500 gallons of anti-ice liquid pretreating roads and hauled away 11,962 yards of snow from the downtown area and some residential areas. We called one snow emergencies in 2022. We received about 40” of snow for the season with a total of 19 snow events. The first one was 4” on 12/8/2021 and the last one was .2” on 4/8/2022. A total of \$244,452 was spent on labor. The total cost of snowplowing last season was \$431,420.

Sweeping – Crews spent 827 hours sweeping city streets picking up over 508 yards of sand and 573 yards of leaves at a cost of \$87,485.

Material Handling Site – we hired a contractor to crush our yearly blacktop and concrete piles and they crushed 2032 tons of concrete and 1793 tons of blacktop which gets reused on upcoming for the year. The cost of crushing was \$26,983.

Water Distribution, Sewer Collection and Storm: Maintains all underground infrastructure including 1,010 fire hydrants, 3,020 water valves, and 102 miles of water main. The sewer system includes 13 lift stations, 2,369 manholes, and 99 miles of sewer mains. Storm Water System: Consists of 926 manholes, 2,890 inlets, 209 outlets, 64 ponds (57 City, 7 private), 7 miles of tunnels, and 50 miles of storm water pipes. All storm water projects are completed with staff from both streets and utilities.

Sewer Main Repairs and Maintenance – The sewer collections crews responded to 9 sewer main backups of which all but one was in a private line. The Vactor cleaned about 230,550 feet of the 523,000 total feet of sewer lines and videotaped 101,122 feet of sanitary and storm sewer. Crews spent 114 hours doing Vactor work for other departments and 197 hours adjusting manhole castings.

Construction Projects - Crews worked 268 hours on the Old West Main project and the City reconstruction project on Sturtevant Street. Crews spent 412 hours on the city mill and overlay projects repairing inlets and water main valve boxes.

ISO Project and Hydrants – (Insurance Service Office) Crews have been working on the ISO project which was initiated by the Fire Department to get a better fire rating for insurance rates. Public Services crews had 173 tasks in Cartegraph for Hydrant maintenance and painting. Crews also spent 272 hrs. on 2,074 tasks for flushing and required annual inspections of hydrants.

Water Main Repairs – Crews responded to 3 water main valve leaks and 2 service leaks. 487 hours was spent replacing broken or inoperable water main valves, 279 hours repairing valve boxes, replaced 2 fire hydrants hit by traffic and relocated. Crews exercised 728 water main valves. There were 266 Services order requests to turn off/on water and lock water meters.

Storm Water Repairs – Crews spent 256 hours clearing trees and brush from easements and storm ponds and rebuilt 45 storm inlets and spent 39 hours with the vactor cleaning storm sumps and safl-baffles. 111 hour repairing storm tunnels.

Airport – Crews spent 506 hours clearing snow and ice at the Airport.

TOPIC 2 - Airport

Fuel System Replacement Project – The City accepted bids for the Fuel System Replacement Project at the Red Wing Regional Airport (RGK) and award a contract to the low bidder, Minnesota Petroleum Services in the amount of \$1,102,672. The cabinets and tanks are on order and expected to be received in the summer of 2023 with the project to begin as soon as arrangements can be made with the contractor.

Grants – Red Wing Regional Airport received BIL funding from the FAA which was announced on December 23, 2021. The allocation for our airport will be \$295,000 per year, for the next five years. This is a new funding source, in addition to our existing entitlement funding source of \$150,000 per year with a 90% funding rate. This funding can be used on projects such as taxiway, runway and taxiway reconstruction, lighting improvements, crack sealing and snow removal equipment. Staff worked to assess the needs of the airport and put together a five-year plan to utilize this additional funding.

New Hangar Construction – Two general aviation hangars were constructed in 2022 and an additional commercial hangar is in the process of being built on the new apron. It is expected that an additional commercial hangar will begin construction in 2023 on the new apron.

Lot Leases – The City entered into 5 new hangar lot leases in 2022, with 4 lease renewals and 2 lot lease amendments.

TOPIC 3 - Buildings and Grounds:

There are 103 different buildings to maintain at 24 locations and there are 686 streetlights with 22 miles of electrical lines. Our grounds consist of 20 different playground areas within 38 parks on 1,423 acres with 5984 trees located in city parks and boulevards, three cemeteries on 117 acres and maintaining 69 acres of it with 17,324 internments, and 12 miles of trails.

The Buildings and Grounds Department includes Buildings, Cemeteries, Parks, Utility Locating and Asset Management. It consists of 1 Deputy Director, 2 Superintendents, 1 Operation Foreman, 1 Facilities Maintenance Tech, and 1 Facilities Repair Tech, 1 Electrician, 1 Plumber, 1 Infrastructure Asset Specialist, and 5 Maintenance I.

Weed Violations – B&G preformed 70 weed violation inspections around town.

Parks and Boulevard Trees

- Trees planted - 220
- Trees Removed - 117
- Ash Trees Treated for EAB - 212

Cemeteries

- Full Burials - 30
- Cremation Burials - 62
- Columbarium Burials - 3
- Regular Lots Sold - 15
- Columbarium niches sold - 9
- Perpetual Flower Sales – 22

- Marker Installations - 45
- Foundations Poured - 19

Dedicated Benches – 12 dedicated benches were installed around Red Wing in 2022.

Mississippi National Golf Course - B&G remodeled the tee house at MNGL including a new bathroom fixture, updated lighting, new FRP board, a fresh coat of paint, stainless steel countertops for food service and new epoxy flooring. A new mini-split AC unit was also installed, an old wall unit was removed, and wall repaired.

Downtown Core - Removed the 6 rented downtown sculptures, set three new stones and installed 9 new sculptures.

Library – Replaced the Direct Digital Control System for the HVAC at the Library. We moved from Trane to Paape due to aging and failing equipment along with response and service issues from the previous provider. The new system is much more user friendly for staff to address HVAC issues and is the same system used in other city buildings.

Colvill Park

- Staff installed ADA sidewalk and viewing binoculars for the wildlife viewing station in the NW corner of the park.
- Developed the old concession stand area into a space available for events. Graded a flat space, installed new sidewalks, added irrigation, and installed anchors for tent installations.

Bay Point Park

- Replaced four of the old park lights with the newer style light.
- Installed concrete, underground power, lighting and new “Red Wing” on the East end of the park.

Athletic Field

- Replaced the fencing, sidewalk, and fixed stormwater runoff around the bullpen on the home team dugout side of the main field.
- Assisted the Baseball Association with replacing the Homeplate ag lime with clay to improve the batter’s experience.

Public Works

- Remodeled the old bus garage; tore down the internal wall, the bathroom, and added a new smaller bathroom in the same corner.
- Continues work on building the gabion wall on the North side of the Property.

City Hall

- Installed the ADA parking stalls, new curbing and infrastructure for the Level 2 Charger at the West Parking Lot of City Hall. Currently waiting for the charger system to arrive (ETA February).

Seminary Ramp

- Replaced the structurally deficient west stairwell A level landing with new metal deck and concrete.

Burnside Cemetery

- Moved and installed landscaping around the columbarium.

Old Hospital

- Removed the old fireplace for the demolished hospital on West 4th Street and delivered it to the Saint James Hotel.

PW Apprentice

- Hired and started the first PW Apprentice in December 2022.

2022 Park Reservations

Public Works office staff received the following Facility Use Requests for reservations in our City parks in 2022.

- AP Anderson #1 - 8
- Baypoint #1 - 10
- Baypoint #2 – 28
- Central Park Bandshell - 27
- Colvill Courtyard – 70
- Colvill Garden - 1
- Colvill #1 - 59
- Colvill #2 - 36
- Colvill #3 - 37
- Colvill #4 - 27
- Colvill #5 - 47
- Memorial – Upper Quarry pavilion #1 - 13
- Pottery Pond #1 - 13

Total - 376 Reservations processes

Private Use of Public Property (PUPP) Applications

Public Works office staff processed 36 PUPP applications for events in 2022.

TOPIC 4 - Utility Division

The day-to-day activities related to the City's water and wastewater utility operations fall within two Public Works Divisions, Public Services and Utilities. The Public Services component includes operation and maintenance of the water distribution and fire protection systems; sanitary wastewater collection, including remote lift stations; and the storm water collection, conveyance and treatment/discharge facilities. The Utility Division components include the operation and maintenance of five wells, two water treatment plants, seven water storage reservoirs, five booster pump stations, three pressure reducing valve vaults, an industrial wastewater pretreatment plant, the main wastewater lift station and the main wastewater treatment plant. The Utility Division also provides engineering design and construction contract administration to utility related capital improvement and maintenance projects, and is responsible for the programing requirements, permitting and inspection associated with the storm water management program.

Utility Division personnel that are not part of Public Services include the Deputy Director, Environmental Services Superintendent, Field and Laboratory Technician, Chief Wastewater Operator, Chief Water Operator, two Water Operators, two Wastewater Operators, one Assistant Wastewater Operator and a Maintenance 1 in Wastewater.

Public Services Division staff breakdown and accomplishments were provided elsewhere. Some of the more significant Utility Division accomplishments are identified below.

Utility Division Accomplishments

The accomplishments identified below represent specific projects outside of the main Division focus, which is operating the water and wastewater treatment and pumping facilities.

Water and Sewer Rate Study- After extensive community meetings and community outreach, the Utility Division with the help of Public Works and Finance staff, implemented the new sewer rate structure on July 1st. This long process resulted in a significant change to our rate structure moving from our traditional flow-based structure to a new Residential Equivalent Unit structure. The design of the previous structure had the residential customers subsidizing both the multifamily and commercial industrial accounts in the community.

Bench Street Industrial Pretreatment Plant Optimization – The Bench Street Pretreatment Plant uses chemical treatment and enhanced settling to treat the water from the S.B. Foot Tannery. This treatment process is unique, and its operation is continually optimized and enhanced. The treatment process results in a sludge that is dewatered and landfilled at an industrial landfill. Work continues optimizing the operation of both the water and sludge treatment facilities with continuous discussion and cooperation with SB Foot. Approximately 2,000 tons of sludge was dewatered and hauled to SKB landfill in 2022. Utility staff and SB Foot staff continue working on a new Pretreatment agreement for the operation of the Industrial Pretreatment Plant.

Water Division—The Water Treatment Plants produced and distributed 508,831,000 gallons of treated potable water for the year 2022. KLM engineering and the water department initiated the design phase for the repair of the roof at the Sorins Bluff Reservoir, but due to the significant increase in repair costs, the project is delayed until 2024. Working with the Building and Grounds Division, plans and specifications were prepared for the repair of the roof at the Twin Bluff Water Treatment plant with bids expected to be secured in early 2023 and repairs in summer of 2023. The City of Red Wing Utility Department hosted the 2022 Drinking Water Institute at the Twin Bluffs Water Treatment Plant on August 1st - 3rd. 17 teachers from across the state, teaching in grades 4th through 11th along with Minnesota Department of Health, Minnesota DNR and various industry leaders in attendance. An open house at the water plant was also started back up this year as well as multiple tours for 4th grade students and high school classes.

Wastewater Division—The Wastewater Treatment Plant treated 648,500,000 gallons of wastewater in 2022. We land applied 2,226,291 gallons of bio-solids on local MPCA approved farmland and in addition hauled 285,000 gallons to the city of Zumbrota. The design phase for the replacement of the south Digester Cover was completed in 2022 and bids were accepted for the procurement of the cover as well as the construction of the digester cover replacement and pump room roof replacement to be completed in 2023 after the spring application of bio-solids. The City of Red Wing signed an MOU with the MPCA to conduct voluntary PFAS monitoring in the influent at the WWTP. The sampling will start in 2023 and continue into 2024. PFAS is a group of man-made chemicals that has been found to have negative health impacts.

The Wastewater Division completed a feasibility study for the main Wastewater Treatment Plant. This report evaluates the feasibility of constructing an activated sludge system and associated bio-solids handling processes that will meet the 20-year wastewater treatment needs of the City of Red Wing with anticipated new and more stringent effluent limits imminent. The City lab successfully completed all requirements to maintain certification for drinking water and wastewater analysis.

Stormwater Division — The city of Red Wing was mandated to meet new requirements of the MS4 general permit. This included adopting a new salt storage ordinance and updating the ordinances relating to stormwater treatment for new projects. As part of an effort to increase residential participation in stormwater management, 50 rain barrels were offered to residents at a subsidized cost. The rain barrels sold out within 2 weeks. The Adopt-a Drain program had another successful year with many new adoptions and drain cleanings in Red Wing.

The amendment to the Surface Water Management Plan was adopted by council earlier in 2022. This amendment identified critical infrastructure upgrades to reduce flooding in localized areas, planning level construction cost estimates for projects, and better positioned the city to apply for funding.

The repair of the damaged Plum Street storm tunnel under the railroad tracks was completed in 2022, the design phase is complete for the Neal Street Ravine repair project and staff is attempting to find additional funding sources for the project with construction anticipated in 2023.

TOPIC 5 - Solid Waste Division

The Solid Waste Division includes the Refuse and Recycling Collection operations, the Material Recovery Facility (MeRF) and the Waste Campus activities listed below. Staffing for these operations and activities is distributed as follows: 1 Deputy Director, 1 Superintendent with oversight of both R/R Waste Campus activities, 1 Office Coordinator, and 1 Office Clerk. Refuse and Recycling Collection Staff consists of, 1 Operational Foreman Refuse/Recycling, 8 Maintenance I positions. The Material Recovery Facility (MeRF) and Waste Campus operations Staff includes: 1 Operations Foreman, 2 FEFC Maintenance Operator, 6 Maintenance I, the Red Wing Correctional Facility, Institution Community Work (ICWC) Crew Leader with 4-6 staff, and 4-5 Express Temporary Staff that assist on collection routes and in the MeRF operations.

Refuse & Recycling Collection 600 Fund

The Refuse & Recycling collection operations have been running well and consistently over the last year. Staffing shortages have continued to pose challenges for Refuse & Recycling operations related to strong area job markets. This has required the need, at times, for coverage from Public Works staff from Streets and Buildings and Grounds divisions. This shortage of staff has also been supplemented by the employment of individuals from Express Temporary Services, located in Red Wing. The rationale for using temporary staff is the economic savings of employing non-CDL individuals that are needed in assistance types of labor such as a rider in a rear load truck or non-CDL related collection routes. Refuse & Recycling operations has interviewed candidates recently and we hope to be fully staffed by February of 2023.

Refuse & Recycling operations have again gained several new accounts in 2022 both residential multi-family housing units, as well as securing contractual commercial agreements with Mayo Health Systems and 3M. Despite seeing a net gain in new accounts, volumes of waste collected from residential and commercial customers has seen a significant drop from 2021 to 2022. Factors that affect waste volumes are typically related to economic conditions both locally and nationally.

With the retirement of the long-time supervisor of the 603 fund in late 2021, staff proposed a reorganization of the 600 & 603 fund management positions. This reorganization eliminated one Superintendent position and combined the duties and responsibilities under a single superintendent position. The new position of "Superintendent of Waste & Recycling Operations" has been a great success. The elimination of one superintendent position allowed for the promotion of the MeRF

Operations Foreman to Chief Plant Operator and to add a 2nd Front End Fuel Cleaning Operator to the MeRF operations.

The net change resulted in a 1.0 FTE reduction of superintendent wages and benefits from 600 (0.5 FTE) & 603 (0.5FTE) Funds. A wage increase by promoting the Operations Foreman to Chief Plant Operator and an addition of 1 FTE to the 603 Fund for the second FEFC Operator. In total there was a net zero change in the number of total FTE's between 600 & 603 but a reduction in the overall staffing cost.

Waste Campus 603 Fund

On October 31, 2022 the City and County obtained a summary judgment in the final legal challenge to the Goodhue County Waste Designation Ordinance when the United States Supreme Court rejected the Certiorari Petition filed by local waste haulers. The Designation Ordinance is the basis for the City/County Waste Delivery Agreement and is critical to the economic and environmental goals of the City's waste processing operations. The purpose of Designation is to ensure the Waste Management Hierarchy goals of the State in Minnesota Statutes 115A are met with respect to "reduce, reuse & recycling" as well as abating the need for and the use of land disposal and other management options lower on the hierarchy.

Furthermore, this agreement was a requirement of legislation passed in 2014 which would allow the Bench Street Landfill to enter the State's Closed Landfill Program. When these conditions were met, the State agreed to take the Bench Street Landfill into the State's Closed Landfill Program and accept all responsibility for this site in perpetuity. The State took ownership of the Bench street landfill on June 30, 2022. Relieving the residents and businesses of Red Wing and Goodhue County of a significant economic and environmental liability associated with future cleanups that may be necessary at this site.

In June of 2022, the City was informed that it was awarded a \$140,000 grant from the Minnesota Pollution Control Agency to conduct an Organic Food Scrap Feasibility Study. This study will review the potential for implementation of an organics composting program in the City of Red Wing. This study will look at available volumes, collection strategies, regional programs, siting challenges, permitting and economic aspects of organic food scrap programs and provide recommendations based on the findings of the study. This study is expected to be finalized in late 2023.

2022 did see an overall drop in tonnage received at the Waste Campus from both haulers and total tons delivered. The City's operations will continue to look at possible reasons for this reduction. At this time it is thought to be associated with economic conditions.

Waste Campus Tons Received 2021 vs. 2022	Year			Increased Tons	Percent Difference in Tons Received
	2021		2022		
Tons Received from Haulers	38,684.59		35,228.79	-3,455.8	-8.93%
Total Tons Received	42,080.13		39,271.40	-2,808.73	-6.67%

Over the course of the year, staff have been looking closely at MeRF operations to find ways to enhance throughput, commodity recovery and production of Refuse Derived Fuel. To that end, staff proposed the implementation of a drum magnet at the head of CV-19 that would recover ferrous metals that were not being recovered due to excess overburden. The drum magnet installation was

completed in July of 2022 and immediately started to improve ferrous recovery, improve fuel quality and reduce the amount of damage to the secondary shredder from unrecovered metal. This has been an unqualified success and sustainable improvement to operations. A second modification was also implemented prior to the end of the 3rd quarter which involves a reintroduction of the fines stream back into the final fuel stream. Together these operational improvements have resulted in the following improvements over the last 3 months of 2022 when compared with the previous 6-month period:

- Average RDF Production Increased 443.84 tons/month (Increased 18.49%)
- Average Tons to Olmsted Decreased -229.23 tons/month (Decreased -6.06%)
- Average Tons to Landfill Decreased -401.63 tons/month (Decreased -9.79%)
- Average Tons Metal Recovered Increased 21.88 tons/month (Increased 1.0%)

City staff have confidence these improvements will continue long term and be sustainable, but we have only had a 3-month period of observation to draw conclusions. As we proceed over the course of an entire year managing waste through a wide range of seasonal volumes and variabilities, we will be able to ascertain future success more confidently.

Below are some year-end statistics for the Waste Campus convenience drop-off operations. Our numbers as noted previously have seen some drops in increased over 2021. Walk up and convenience drop-off remain one of the most widely used service the Solid Waste division offers. Residential yard-waste and brush drop off continues to be used at a very high level and Staff hope to keep these residential services free to the community. The fee structure for commercial users of the brush disposal services have been altered to off-set increased costs of disposal. Staff hope to influence commercial users to seek alternatives to the City’s operations for brush disposal in order to eliminate these operational costs without sufficient revenue offsets.

Customer Services/Waste Campus

Waste Campus Customer Service/Visits	Year			Percent Difference in Customer Visits
	2021		2022	
Walk-ins Cash/Charge Customers	14,302		13,518	-5.5%
Daily Averages	48		48.0	
Yard Waste Customers	13,865		9,653	-30.4%
Daily Averages	47		32	
Revenues from Walk-in Customers	\$410,853		\$400,460	

Roll-Off Leases/Rentals

Roll-off Leases/Rentals	Year			Percent Difference in Customer Visits
	2021		2022	
Roll-Off Leases	192.0		193.0	0.5%
Lease Weeks	1042.0		975.0	-6.4%
Transactions (Move, Empty, Remove)	431.0		661.0	53.4%
Tonnage	860.4		800.6	-7.0%

Roll-Off Revenues

Roll-off Revenues	Year		Percent Increase In Customer Visits
	2021	2022	
Disposal	\$79,074	\$73,402	-7.2%
Extra Charge Items	\$6,698	\$11,089	65.6%
Haul Fees	\$46,200	\$58,375	26.4%
Lease Fees	\$24,023	\$31,172	29.8%

TOPIC 6 – GIS Program

City of Red Wing GIS Program Return on Investment 2022 Service Hours- 1229

Web Mapping Application Views

City of Red Wing External Parcel Viewer annual views: 9,034

City of Red Wing Internal Parcel Viewer annual views: 3,348

Public Work Utilities Viewer views: 6,975

Red Wing GeoHub views: 19,517

Red Wing InterHub views: 909 views

Project List/Accomplishments 2022

- Migrated Web Apps to New Platform
- 2022 Aerial Photos
- Rebuilt Key Land Use Datasets (including Zoning)
- Finalized 2022 Redistricting
- Historic Walking Tours Web App
- Coordinated 3D Drone Flight Demo with WSB
- Rental Housing Inspections Editing Web App for Staff
- Tribal Area of Concerns Web App for Staff
- Roads ROW App for Council
- Map Requests
- Database Maintenance
- Attended Esri User Conference
- Received GIS/LIS Consortium Polaris Leadership Award

Project List 2023

- Overhaul Shoreland Ordinance Data
- Permit Works GIS Integration
- Inspections App for Fire Department
- Enterprise 11.1 Upgrade
- Stormwater Utility Updates Workflow
- Utilities Flat Files Project
- Employee Directory Portal
- Upgrade Web App Photo Attachments