



Annual Report

Public Works

OVERVIEW

The Village of Morton Grove Public Works provides essential public services, in a professional and fiscally responsible manner, to the community and general public. Forty-one dedicated employees are responsible for the maintenance of Village infrastructure and provide a wide variety of services to Village residents, businesses and others.

In this annual report, you will find a brief description of each Division's duties and responsibilities.



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COMBINED CREW ACCOMPLISHMENTS

- LEAF COLLECTIONS
- SNOW/ICE CONTROL
- MORTON GROVE DAYS
- ARBOR DAY
- SWANCC EVENT
- NATIONAL NIGHT OUT





Mayor Di Maria and Board of Trustees:

I would like to thank the Village Board, Mayor and Village Administration for providing the operational protocols that have kept all Village employees throughout the pandemic healthy and safe.

It is with great pleasure and pride that I present the 2021 Public Works Annual Report, highlighting some of the essential services and accomplishments of our department throughout 2021. With the support of the Mayor, Board of Trustees and Village Administration we have been able to make great strides in providing quality services to the residents and the completion of key infrastructure projects in Morton Grove.

At the end of 2021 the Village completed its 21st year as a Tree City member and was also awarded the Growth Award by accomplishing the planting of more trees in our Village rights-of way then trees removed, completing a Village wide Tree Inventory and providing continuing education for schools and Village residents. The completion of Phase I Main Street Infrastructure Improvement Project replacing an older 8-inch and 10-inch water mains along with the installation of new a storm and sanitary sewer main. This area was also prepared for future redevelopment.

Through the Environmental Natural Resource Commission, the first annual Sustainability Expo was held with great success, with over 500 attendees.

Customer service is the number one priority for all Public Works staff members and we will strive to provide the Village of Morton Grove with another year of quality service to each and every resident and business in the Village.

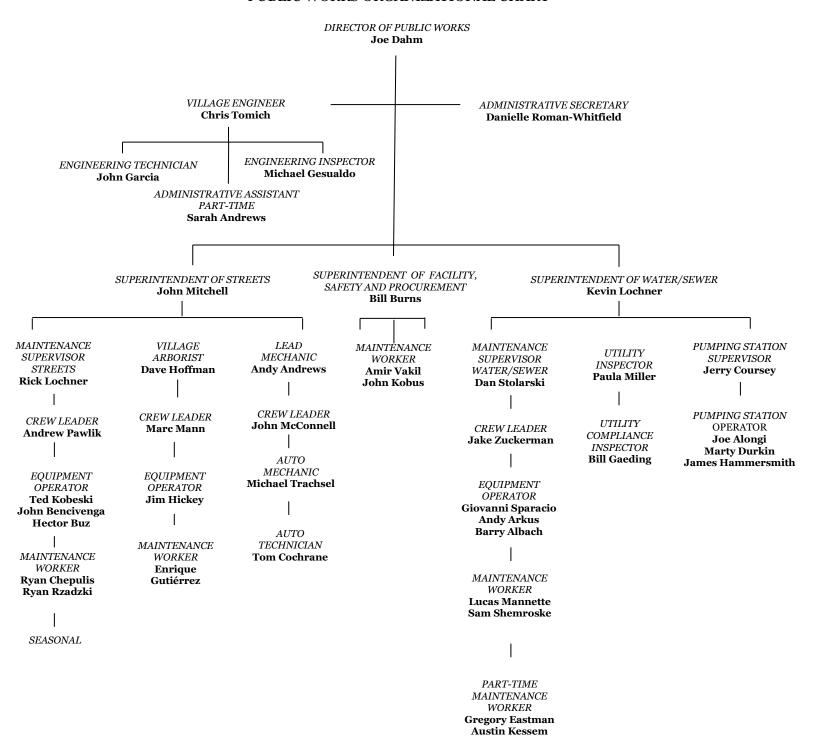
Respectfully Submitted:

Land J. Dhe

Joseph J. Dahm

Director of Public Works

2021 VILLAGE OF MORTON GROVE PUBLIC WORKS ORGANIZATIONAL CHART



STREET DIVISION

Mission Statement

The Morton Grove Public Works Street Division's mission is maintaining the Village owned property that includes 270 lane-miles of thoroughfare and approximately 60 lane-miles of State and County roadways. The Street Division maintains and preserves the public rights-of-way that encompass those areas. This Division prides itself by operating within budget parameters while maintaining a high level of customer service to Village residents.

The Street Division is comprised of three separate Divisions:

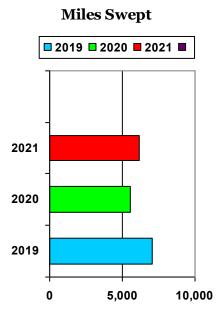
- Signs/Street Sweeping/Combined Operations
- Forestry
- Landscaping

The Division is responsible for the cleaning, repairs, and maintenance of our streets and alleyways. Other responsibilities include the General Pavement Maintenance Program, Alley Improvement Program and year round temporary cold-mix and hot-mix asphalt patching. This allows the Village the capability to mitigate risk on the roadways while extending the life of those road surfaces by providing the flexibility to quickly service road hazards and utility repairs. We effectively maintain the safety of the Village's roadways and alley systems by street sweeping and maintaining crucial pavement markings on streets, curbs, and parking lots.

Street Sweeping Operations

Street sweeping is necessary not only to keep streets clean, but also to prevent dirt and debris from entering the Village's combined sewer system. The less debris on the street, the better stormwater will drain during rain events. The Public Works operates two street sweepers during leaf season and one sweeper over the summer months bi-weekly.

Combined sweeping during the two seasons includes 6,159 miles swept and 68,820 gallons of water used.





STREET DIVISION

Sign Operations

The Sign Division is responsible for all sign development and this includes; surveying, repairs, installation, and maintenance of all Village signs.

- 519 Signs were repaired and/or replaced.
- 246 Poles were repaired and/or replaced.

Street Operations

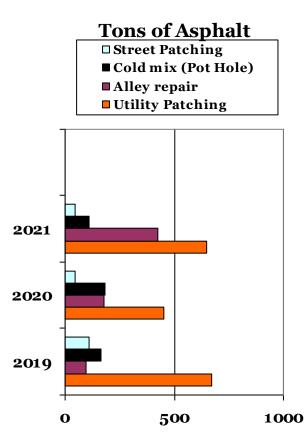
The Street Division is responsible for the maintenance of our asphalt streets, alleyways and street sweeping. Furthermore, this division is involved with annual combined crew programs such as: leaf collection, de-icing and snow removal.

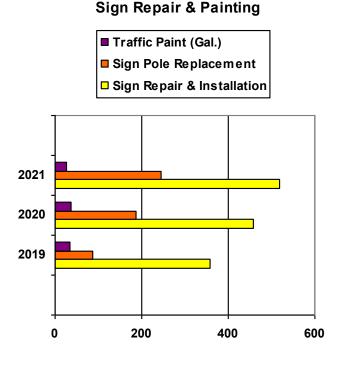
Street Repairs 11 Locations 45 Tons of hot mix asphalt used **Utility Repairs** 141 Locations 649.5 Tons of hot mix asphalt used Alley Repairs 19 Locations 424.5 Tons of hot mix asphalt used 69 Cubic Yards of stone used Stone Alley Graded 2 Locations 15 Cubic Yards of stone used

Saw Cuts for Street/Alley **85 Locations**

Cold Mix Patching (potholes/water leaks) 109.5 Tons of cold-mix asphalt used

Traffic paint used for curbs and pavement markings 26 Gallons of paint used





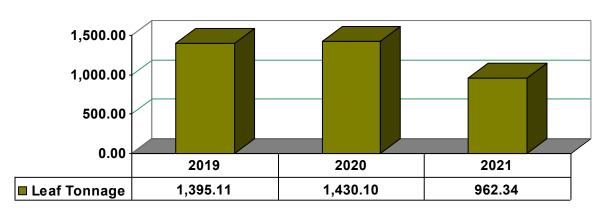
COMBINED CREW PROGRAMS

Leaf Collection Program

The Leaf Collection Program, when in full force requires the recruitment of the entire Street Division. In 2021, 962.34 tons of leaves were hauled to and from the Public Works yard. The season began on October 18th and ended on December 8th.

Any remaining leaves are picked up by Groot, starting in the middle of March when yard waste pick-up resumes.

Leaf Collection Tonnage







COMBINED CREW PROGRAMS

Snow Removal Program

One of the primary objectives of the Public Works Snow Removal Program is providing the safe and orderly movement of traffic throughout the Village of Morton Grove during snow events. Depending on the severity of the storm, residents are provided with quick and efficient removal of snow from all streets and alleys. This provides safe passage for residents, pedestrians and drivers. This program also includes snow removal from business areas such as: Dempster Street, Waukegan Road and Lincoln Avenue. Furthermore, it includes parking areas such as: Metra Station (including the off-street parking along Lehigh), 8550 Lehigh, 6240 Lincoln, and 5714/5828/6055 Dempster.

Snow Plowing and De-icing

Snow and ice control operations begin when hazardous road surfaces are expected. Depending on conditions, a pre-application of salt brine and road salt is applied to the pavement. Plowing begins after snow accumulates to 1" or more.

Snow Plowing:

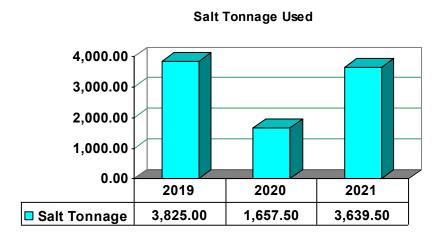
Snow plowing requires the cooperation of all Public Works staff; 2021 presented only 19 snow/ice events for the entire year.

De-icing:

De-icing requires the Street Division personnel to fully operate the Village's salt truck fleet which remain on a 24 hour on-call status through the entire season.

- 3,639.5 Tons of Salt used.
- 9,550.8 Gallons of Diesel Fuel used.
- 1,393 Gallons of Gasoline used.
- 9,440 Gallons of Calcium used.

Total vehicle miles driven was 23,625, total employee hours worked during regular time was 1,111 hours, and total employee hours worked on over-time was 2,318.5 hours.



FORESTRY DIVISION

This Division is responsible for all trees on public property; planting, trimming, general care and maintenance, as well of the removal of dead or diseased trees, stump grinding and parkway restoration. Other Forestry responsibilities include; flag, banner, and holiday decoration installation, street light maintenance, branch pick-up, storm clean-up, parkway repairs/restorations and participation in annual combined crew programs such as: leaf collection, de-icing and snow removal.

The Village has a Certified Arborist who provides assistance to residents and participates in public education. The Arborist annually visits public schools to educate children at the third grade level about the benefits of trees and our environment. The Village Arborist promotes Arbor Day activities while demonstrating proper tree planting techniques. The Village has been in the Tree City USA community and Morton Grove has been a member of this community for 21 years now.

Tree Removal

Total number of trees removed	193
Total linear feet of canopy removed	6472'

Tree Pruning

Total number of trees pruned	1,556
Pruned by village staff	869
Pruned by contractor	687

Tree Planting

Total number of trees planted 192

Tree City USA

Arbor Day Celebration was held on April 30th at Jerusalem Lutheran School and a tree was planted during this event.

Stump Removal

Total number of stumps removed 176

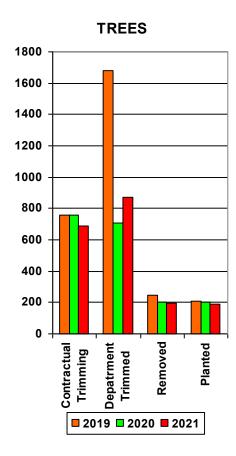
Parkway Repair

Total number of parkways restored 186

Residential alleys cleared of overgrowth 12 locations

Wood Chips

Delivered to residents 166yards



LANDSCAPING DIVISION

This Division is responsible for landscape design, planning, and maintenance of Village owned properties and buildings. Other responsibilities include; spring, fall and roadside cleanups, as well as village parking lot maintenance, and maintenance/replacement of village gate-way signs.

When developing design ideas for landscapes, the division ensures they are cost effective, require minimum maintenance, and cope with the challenges of the ever-changing climate and soil conditions. Day-to-day care of lawns, trees and shrubs takes place as well as providing and managing irrigation solutions, weed control, and fertilizer application.

The Landscaping Division has one Maintenance Worker during the spring and summer months. Tasks include assisting in Village properties such as: Village Hall, Civic Center, Metra Station, Public Works, and other Village owned properties which are mowed once a week. Flowers are planted, watered, and weeded on a weekly basis. All other properties are mowed and weeded as needed. The division also picks up garbage and debris within the Dempster and Waukegan business districts, as well as many other locations.

Cul-de-sac Cuts

Grass cutting and trimming bushes -14 locations.

Alleys Cuts

Trimming bushes and garbage pick-up -23 locations.

Rights-of-way Cuts

Grass cutting, line trim and garbage pick-up - 11 locations.

Village cuts

Grass cutting, edging, line trim, trimming trees/bushes, and garbage pick-up -504 Village cuts for the year.

Adopt a Pot Program

138 flower kits and Christmas tree's were adopted (planted by residents) for locations at: Dempster St., Waukegan Rd., Lincoln Ave. and Ferris Ave., Civic Center, and Metra Station. 5,200 gallons were used to water planters.

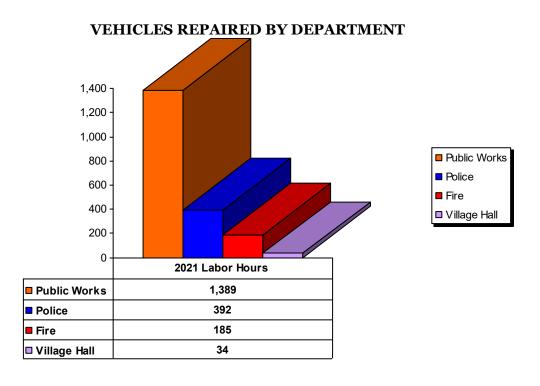




VEHICLE MAINTENANCE DIVISION

The Vehicle Maintenance Division is responsible for the scheduling and performance of routine maintenance and repairs to the entire municipal fleet. The fleet includes Fire Department, Police Department, Public Works, and all Administrative Department vehicles. This consists of approximately 138 vehicles. The Division ensures that all Village vehicles and equipment are available, reliable, and safe to operate in the most cost efficient manner. Parts inventory and all record keeping is obtained and kept on file by the vehicle maintenance supervisor. Records kept include data regarding the fuel control system. This warrants and ensures compliance with federally mandated fuel and tank regulations.

	2021 Diesel & Gas Usage Village Fleet											
Month	Public Wo	rks/Street	Public Wo	rks/Water	Police Department	Fire Dep	artment	Village Hall	Park D	istrict	School Dist. 70	
	DIESEL:	GAS:	DIESEL:	GAS:	GAS:	DIESEL:	GAS:	GAS:	DIESEL:	GAS:	GAS:	
JAN	2030	439	1400	210	2789	558	185	15	45	410	18	
FEB	2331	500	1000	301	2579	581	199	19	118	399	68	
MAR	1605	1200	700	663	2793	653	155	16	7	270	0	
APR	1200	1289	573	700	2742	663	189	25	65	558	0	
MAY	1240	1301	600	689	2665	763	139	31	149	412	0	
JUN	1400	700	605	390	2620	847	177	8	149	606	0	
JUL	1203	1005	880	553	2669	739	136	25	178	614	0	
AUG	900	1301	566	613	2885	900	152	25	133	524	0	
SEPT	1400	1200	736	713	2514	734	140	30	132	386	19	
OCT	1801	1000	918	525	2364	771	158	28	121	342	0	
NOV	1800	1000	966	670	2362	660	104	24	71	384	33	
DEC	1600	1003	748	570	2529	686	132	16	71	260	0	
TOTALS:	18,510	11,938	9,722	6,597	31,511	8,555	1,866	262	1,239	5,165	138	



STREET DIVISION NEW VEHICLES & EQUIPMENT

UNIT #	MODEL YEAR	MAKE	MODEL	HOURS / MILES	DESCRIPTION	

WATER/SEWER DIVISION NEW VEHICLES & EQUIPMENT

UNIT #	MODEL YEAR	MAKE	MODEL	HOURS / MILES	DESCRIPTION	
M38T	2021	PJ Trailer	N/A	N/A	Trailer	

FIRE DEPARTMENT NEW VEHICLES

UNIT #	MODEL YEAR	MAKE	MODEL	HOURS / MILES	DESCRIPTION	
410	2020	Chevrolet	Suburban		District Chief SUV	

POLICE DEPARTMENT NEW VEHICLES

UNIT #	MODEL YEAR	MAKE	MODEL	HOURS / MILES	DESCRIPTION	
803	2021	Ford	SUV		Patrol Car	
804	2021	Ford	SUV		Patrol Car	
806	2021	Dodge	Charger		Patrol Car	
807	2021	Dodge	Charger		Patrol Car	

WATER & SEWER DIVISION

The Water & Sewer Division is committed to around-the-clock service for the Village and its residents. It continues to strive to improve its preventive maintenance programs, through cost-effective measures, as well as maintain and further enhance the current level of service provided. One of the Division's priorities is to preserve and maintain major infrastructure while protecting the system's investment.

FUNCTION OF THE WATER MAINTENANCE CREW

The Water Division crew maintains and repairs approximately 101.6 miles of water mains, 1,100 fire hydrants and 1,050 service valves located in the Village's water distribution system. The following chart represents some of the services performed during 2021.

RECORD OF WATER REPAIRS IN 2021

Month	Water Main Breaks	Water Service Leaks	Bolt Leaks	Valves Repaired	Valves Replaced	Valves Exercised	Valves Installed	Water Main Replaced/ Installed LF	Hydrants Repaired	Hydrants Replaced/ Installed	Hydrants Flushing	Hydrants Painting
January	21	3	0	1	0	67	0	4	0	0	5	0
February	21	1	0	3	0	56	0	2	0	0	6	0
March	5	2	0	0	0	15	1	0	1	2	0	0
April	5	2	0	0	1	17	0	50	0	5	1	0
May	1	1	0	0	0	5	0	29	0	0	1	103
June	7	2	0	1	0	21	0	28	0	1	7	0
July	5	1	0	1	0	17	0	16	1	7	4	0
August	7	2	0	2	0	14	0	0	0	3	6	0
September	7	0	0	2	1	21	0	6	0	11	6	0
October	2	0	0	0	0	8	2	200	0	13	3	0
November	2	2	0	1	1	15	0	0	0	9	3	0
December	11	0	0	1	3	34	0	0	1	2	9	0
2021 Total	94	16	0	12	6	290	3	335	3	53	51	103

SEWER DIVISION

The Sewer Division is responsible for the operation and maintenance of the Village's 40.6 miles of sanitary sewer pipe, 44.8 miles of storm sewer pipe, and 21.13 miles of combined sewer pipe. Crews are equipped with the latest sewer rodding, drain-cleaning and video inspection equipment to effectively and quickly identify and clear problem areas in the sewer system. The Sewer Division also replaces and rebuilds aging sanitary storm sewer pipes, catch basins and manhole structures throughout the Village. The lining of aging sanitary sewer pipe continues annually providing a new structurally sufficient pipe while decreasing infiltration and inflow from ground water run-off into the Metropolitan Water Reclamation District interceptors.

The following chart represents some of the services performed during 2021.

RECORD OF SEWER REPAIRS IN 2021

Month	Curb Drains Cleaned EACH	Curb Drains Repaired EACH	Curb Drains Replaced EACH	Storm Sewer Pipe Installed/ Replaced LF	Storm Sewer Pipe Repaired LF	Storm Sewer Pipe Tele- vised LF	Storm Sewers Rodded LF	Sump Pump Connec- tions LF	Combina- tion Sewers Rodded LF	Sanitary Sewers Rodded LF	Sanitary Sewer Pipe Repaired LF Basin 7	Sanitary Sewer Pipe Televised LF	Sanitary Sewer Pipe Televised Basin 7	Sanitary Sewer Pipe Repaired	Sanitary Sewer Pipe Installed/ Replaced LF	Sanitary Sewer Pipe Lined LF
JAN	0	0	0	0	0	615	615	0	0	1,835	22	1,715	0	22	22	0
FEB	0	0	0	0	0	0	0	0	0	485	0	0	0	0	0	0
MAR	7	5	0	0	0	0	0	0	720	5,990	26	1,475	1,475	26	26	0
APR	7	4	0	0	0	0	0	0	0	260	27	0	0	27	27	0
May	5	5	1	7	7	0	0	0	0	1,170	4	0	0	4	4	0
JUN	4	1	0	0	0	5250	525	0	0	0	0	0	0	0	0	0
JUL	8	1	0	4	4	0	0	0	0	4,985	5	0	0	5	5	2,960
AUG	9	0	2	4	4	0	630	0	85	2,580	30	0	0	30	30	0
SEPT	7	1	1	0	0	0	160	0	0	2,125	0	2,125	0	0	0	0
OCT	2	0	0	0	0	0	190	0	0	2,450	0	2,450	0	0	0	8,640
NOV	4	2	0	160	0	0	0	0	0	765	0	765	0	0	26	0
DEC	6	0	0	0	0	0	0	0	0	2,835	0	1,945	0	0	8	0
2021 Totals	59	19	4	175	15	1,140	2,120	0	805	25,480	114	10,475	1,475	114	148	11,600

INSPECTION SERVICES

Rights-of-Way inspections are performed by the Public Works Water/Sewer Division personnel throughout the year on new residential, commercial, and multi-family water and sewer service connections. This provides control and protection for the Village's existing utility infrastructure and the Village residents.

J.U.L.I.E. locates are performed on all requested utility locations by public and private contractors.

Morton Grove Water Division Historical Milestone Events

Type and Location of Event

Date of Event

- 2015 Installed 208 lineal feet of 8" C900 water main on Octavia Avenue from Wilson Terrace south to Lyons Street to complete the water main loop.
- 2015 Installed 235 lineal feet of 8" C900 water main on Ozark Avenue from Suffield Street north to Churchill Avenue to complete the water main loop.
- 2016 Replaced the Standby Generator at the South Pumping Station with a new 300 KW Generator and new Transfer Switch.
- 2016 Installed 550 lineal feet of 15" Sanitary Sewer Pipe in the alley right-of-way in the 8800 Block of Meade Avenue. Abandon in place the old sanitary pipe running in the rear yards.
- The Morton Grove Niles Water Commission (MGNWC or Commission) was formed to design, construct, finance and operate a regional water supply system that transports and delivers clean, safe and affordable Lake Michigan water to the Villages of Morton Grove and Niles. The MGNWC is invested in long—term water supply planning and management to stabilized rates that allow for needed infrastructure improvements.
- 2018 Completed MGNWC water main installation from Evanston to Morton Grove.
- 2018 Lined 20" water main from Harlem and Dobson to South Pumping Station.
- 2018 Completed 8900 Meade sanitary sewer relocation.
- 2019 Replaced 45 Fire Hydrants to upgrade the water infrastructure.
- 2019 Lined 7,000' of sanitary sewer in Basin 7 area to prevent infiltration in the sanitary sewer system.
- 2020 Replaced 100" of 20" feeder water main under Caldwell from the South Pumping Station.
- 2020 Lined 9,000' of sewers in various spots through-out the Village.
- 2020 Replaced 50 Fire Hydrants around the Village to up-grade the water infrastructure.
- 2021 Installed 200' of 8" water main on Central Avenue at Main Street.

 Lined 2,900' of the 17" Sanitary main line on Greenwood Avenue, from Waukegan Road to Lehigh Avenue.

Lined 8,630' of sanitary sewers in various locations through-out the Village.

Installed 750' of 12" water main replacing the 10" and 8" on Main Street from Lehigh Avenue to the Forest Preserve.

Water Line Service Installation at Cameron Ln. and Church St.



8-inch Water main Connection at Central Ave. and Main St.



PUMPING STATIONS

Mission Statement

The ultimate goal of the Pumping Station personnel is to preserve public health while furnishing adequate amounts of water for fire protection and consumption for residents and businesses. Additionally, using sound management practices and operating procedures which are economically strong and in the best interest of the Morton Grove residents. When delivering these services, the department will continue to comply with all State and Federal EPA mandates, striving to continually enhance consumer confidence in the Village's water system.

WATER SUPPLY OPERATORS

The Morton Grove Pumping Stations have three full-time certified water operators. These employees take care of the daily, weekly, monthly, and yearly tasks of record keeping, water sampling, building maintenance, meter repair, and numerous other jobs. This includes holidays and weekends as well. It is up to the operators to protect the health and welfare of our community ensuring that all of the strict EPA regulations are followed.

Water supply operators must follow the EPA regulations for continuing education. This ensures all water operators stay informed of new regulations as well as new ideas in the water industry. A Class "C" Water Operator must earn a minimum of 15 classroom hours to maintain his certification with the state. Last year our water operators earned over 35 hours of continuing education. Due to Covid-19 restrictions, water operators watched webinars to stay updated on current EPA regulations.



North Pumping Station

ANNUAL PUMPAGE 2021

Total water pumped for the year: 982,000,00 gallons (Down 78,367,000 gallons from 2020).

Average monthly pumpage: 79,368,000 gallons (Down 6,556,000 gallons from 2020).

Highest monthly pumpage: June with 87,663,000 gallons.

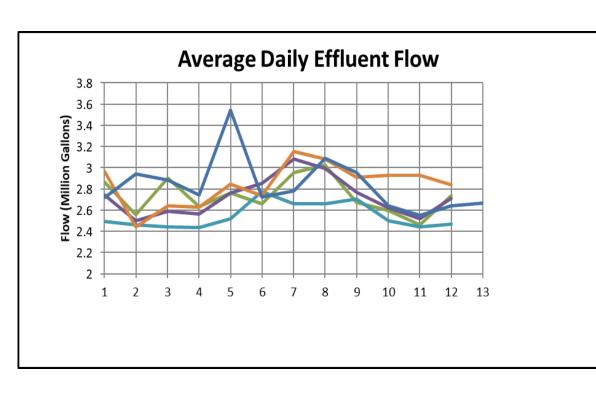
Lowest monthly pumpage: November with 69,150,000 gallons.

Average daily pumpage: 2,609,000 gallons.

Highest daily pumpage: February 14, 2021 with 3,982,000 gallons.

Lowest daily pumpage: November 14, 2021 with 2,081,000 gallons.

Many different factors play a key role in daily pumpage; extreme heat, bitter cold, work days, non-work days, and holidays. Because of these factors it is important that we pay close attention to what's happening in our community every day of the week.





METER DEPARTMENT / WATER METER TESTING

Most water meters in residential settings are located where the water service comes into the house (i.e. basement, crawl space, or utility room). The remote reader is usually located on the exterior of the house. Some meters are located in a meter pit outside the house. Residents of the Village of Morton Grove can request a service call if they have any water related concerns. Services requests range from high usage, noisy meters, frozen meters, remote readers malfunction or water termination. Water consumption is monitored thru a 24-hour remote reading system which detects unusual or no water usage. Residents are notified by phone call or door hanger. The Meter Division receives service requests from the water billing department. In 2021, we completed 223 service requests and delivered 41 new meters.

Like all measurement devices, water meters are subject to wear and tear. To ensure meter accuracy and improve efficiency, Morton Grove requires water meters to be tested. Village personnel will test residential water meters as they are replaced or upon request. An appointment is required with staff to access the water meter. Testing generally takes one (1) hour.

Testing of Industrial, Commercial, and Institutional properties will be done by mail or telephone by Village personnel. Property owners will be fully informed of the program, and testing procedures. Any questions or concerns are addressed before the test takes place and results become available. Meters that fail will be repaired or replaced as well.

This program is an annual project under the Waterworks Infrastructure Rehabilitation and Preventive Maintenance Program. A water meter is a mechanical device that is subject to wear and tear. Through normal usage, it can stop working, leak, or provide an inaccurate consumption reading. Testing allows us to improve the meter reading and billing process, resulting in improved customer service and reduced operating costs.

Village personnel tested 75 residential meters, while 7 large meters were tested by a private contractor.

SENSUS WATER METERS AND SMARTPOINT METERING SYSTEM







CROSS CONNECTION

The Village of Morton Grove is required by the EPA to provide safe and potable water to its customers at all times.

In order to ensure that contamination does not enter the distribution system due to backflow or back siphonage through cross-connections, it is necessary that the premises of each water customer be inspected for cross-connection (in accordance with Ordinance #95-7). Inspections must be performed by a plumber, licensed by the State of Illinois for cross-connection control device inspections. Where a cross-connection exists, a fixed proper air gap or an approved backflow prevention device must be installed to protect the safety of potable water supply.

There are currently 773 total cross connection prevention devices in Morton Grove with many more being installed on new and existing buildings and homes each year.

In 2020, a total of four cross connection devices were inspected, in house, by Pumping Station personnel; one is located at the North Pumping Station and three are located at the Public Works Facility.



Cross Connection

Protects your drinking water and city water from contaminants.

CHLORINE (CL2)

Chlorine is an important chemical for water purification. Using chlorine in the water system kills bacteria and other microbes that can be harmful to humans. Chlorine is a toxic gas that irritates the respiratory system and can lead to death. It is also a strong oxidizer that can react with flammable materials. Great care must be taken when dealing with chlorine gas.

Each station has a number of chlorine tanks used to inject chlorine into the water system as it comes into the station to ensure safe drinking water. This injection is monitored, and just the right amount flows into the system. These tanks must be located in a secure, ventilated place. Because chlorine gas is heavier than air, it tends to accumulate at the bottom of poorly ventilated areas. The tanks have to be replaced every few weeks. This involves the Pumping Station personnel to physically remove the tanks and hook up new ones. Precautions must be taken because chlorine gas is so harmful. All proper safety regulations must be followed to ensure the safety of the pumping station personnel, i.e. two employees to change one tank, ventilation fans turned on while in the chlorine room, inspection of all connections after the tank is hooked up. In 2021, 4,196 lbs. of chlorine were used.



Chlorine Storage



Chlorine Scale

WATER SAMPLES

In order for the Morton Grove Pumping Station to supply a safe clean supply of water to its customers, it must be properly operated and maintained. However, this alone can't document the safety or quality of the water. To develop and maintain a record of water quality it is necessary to collect representative samples of water and have them analyzed by a certified EPA laboratory on a routine basis. The minimum number of samples required to adequately monitor a water supply is determined by considering the water source, the type of treatment employed, the population served, and the history of the water quality in the system.

A total of 96 disinfection by-product samples are taken throughout the village water system. Based on population, the Village of Morton Grove is required to take 300 bacteria samples yearly. In 2021, personnel collected 336 samples that were analyzed by a certified IEPA lab. All samples came back as satisfactory.



The water sample bottle must be sealed before sample collection, and filled up to the 100ml mark. In 2021, the Village was required by the IEPA to collect 30 Lead and Copper samples to be analyzed by an approved State lab. All of those taken were within the standards set by the IEPA.

RAINFALL TOTALS 2020

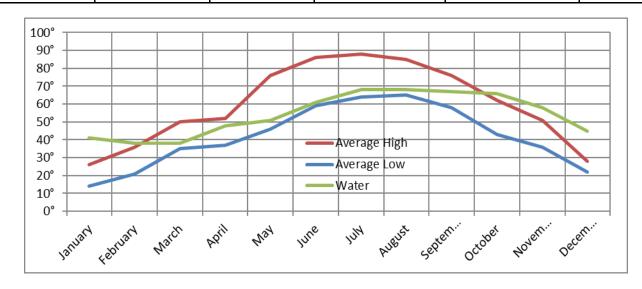
The total rainfall from April 2021 to November 2021 was 19.88 inches. The average rainfall per month was 2.84 inches.

January out of service February out of service March out of service April .58 inches .72 inches May June 4.29 inches July .88 inches August 4.26 inches September 1.63 inches October 7.52 inches November out of service December out of service

Total: 19.88 inches

AIR & WATER TEMPERATURE

			•	•	
Month	Low (°F)	High (°F)	Avg. Low (°F)	Avg. High (°F)	Water Temp. (°F)
January	5	41	21	31	38
February	-9	50	17	34	35
March	17	68	31	46	41
April	22	87	35	53	45
May	30	97	49	69	53
June	49	101	59	87	60
July	56	98	67	93	67
August	58	100	60	81	69
September	51	94	54	72	68
October	36	89	39	57	65
November	7	65	35	40	56
December	11	65	23	47	47



ALARMS

The Morton Grove Pumping Stations are equipped with dozens of early warning alarms as well as emergency alarms. These early and emergency alarms help water operators keep the water system safe, clean, and running properly. These alarms can range from power failure, burglar alarm, and low vault temperature. An outside alarm company as well as an internal alarm system notifies the operator "on call" so the alarm can be assessed for its danger level. The required operator will act as soon as possible.

There was a total of 891 alarms in 2021 with 174 occurring after working hours.

2021 ALARMS

Month	# of Alarms	During Work Hours	After Work Hours	2020 Alarms
Jan	128	91	37	128
Feb	105	64	41	105
Mar	72	61	11	72
Apr	39	37	2	39
May	39	35	4	39
Jun	151	129	22	151
Jul	47	40	7	57
Aug	49	43	6	58
Sept	59	59	0	66
Oct	78	65	13	119
Nov	57	48	9	57
Dec	67	45	22	67
Total	891	717	174	958

SECURITY

Pumping Station security has always been a factor in the job of water supply operators. After 9/11, it became even more apparent how important security issues are. The water supply operator performs a daily PH and Orthophosphate test at both the north and south pumping stations. Additionally, a 2nd PH test is taken at two predetermined sites in town (one on the east end and one on the west end) to check the water once it is in the system.

A security check on pumping station properties is done daily.

BUILDING MAINTENANCE DIVISION

This Division's priority is to monitor, maintain and verify the condition of municipal buildings and properties on a continual basis. This Division participates in setting design specifications, bidding and overseeing the preventive maintenance programs which decrease the overall cost of maintaining buildings and properties.

The Building Maintenance Division plans future maintenance expenditures and helps to create and develop a comprehensive plan to address the nature, amount and timing of future capital expenditures. This division is also responsible for developing and overseeing the Public Works wellness, safety and training programs. Special events, specifically, the Morton Grove Days, held over the fourth of July is managed by this division as well. All operations, before, during, and after the event are administered by Building Maintenance. Tasks include; obtaining vendors, scheduling services, coordinating entertainment, and lastly complete and proper clean up.

2021 Completed Projects of Capital Improvements to Municipal Buildings:

- Replaced 3/4 Horse Power Ejector pumps in Police Department Boiler Room.
- Re-piped Village Hall/Police Department boiler and installed a new 4" gate valve on return side for maintenance.
- Installed vehicle charging station at the Civic Center.
- Replaced hot water boiler at the Civic Center.
- Remodeled Police Department Locker Room.
- Replaced Faulty pneumatic thermostat controls at the Police Department and Village Hall with electronic Belimo actuator and Pelican wireless thermostats.
- Removed hazardous electrical distribution panel at the Public Works Facility and replaced it with a new 200 amp panel.
- Repaired a structural support post in the Public Works garage.
- Renovated Craft Room at the Civic Center.
- Renovated report writing room and Sergeants room at the Police Department.

Boiler Re-pipe Village Hall



Structural Support Post Public Works



Craft Room Civic Center



SAFETY TRAINING

The Public Works Safety and Training Committee continues their dedication in achieving their goals and commitments towards a safe working environment and employee wellness. It continues to provide training options and opportunities for staff development and the development of safe practices, procedures, and policies, continuing the trend of reducing incidents and accidents in the work place.

- Conducted Supervisor training for IRMA CDL Reasonable Supervisor/Reasonable Suspicion training.
- Public Works Staff completed training In:
 - 1. Confined Space Training
 - 2. Back Safety Training
 - 3. Lock Out/Tag Out Procedures
 - 4. Trenching and Shoring Safety
 - 5. Flagger Training
 - 6. Forklift Training with OSHA representative
- Respiratory Protection Training: Hygieneering
 - 1. Hire Hygieneering to revue policy and perform air sampling for specific tasks to determine proper level of respiratory protection necessary.
 - 2. Schedule spirometry testing for Public Works staff
 - 3. Scheduled respiratory fit testing for Public Works staff
 - 4.CPR Training: Performed by Public Works staff member
- Audiometric Testing provide audiometric testing to Public Works staff that can reasonably be expected to be exposed to noise in excess of 85 decibels.

Covid-19 Procedures

- Maintained Covid-19 supplies for all buildings.
- Fabricated Covid-19 barriers for Village Hall, Civic Center and Public Works.
- Performed weekly disinfectant spraying at Public Works, Village Hall, Civic Center.

Public Works CPR Training









COMBINED CREW EVENTS

WHAT IS ARBOR DAY?

Arbor Day is an annual observance that celebrates the role of trees in our lives and promotes tree planting and care. The first ever Arbor Day was held on April 10, 1872, and it was a wild success. J. Sterling Morton led the charge in the planting of approximately one million trees. The tradition quickly began to spread and schools across the country started to participate in Arbor Day every year. Throughout the world, people of all ages are planting trees, caring for them, and learning their value.

Morton Grove Public Works participates in speaking with schools about the importance of Arbor Day and the benefits of trees.

FUN FACTS...

- •In the United States, it is called Arbor Day.
- •In Israel, it is called the New Year's Day of the Trees.
- •Korea has a Tree-Loving Week.
- •Iceland has a Student's Afforestation Day.
- •India celebrates a National Festival of Tree Planting.



NATIONAL NIGHT OUT

National Night Out is an annual community event hosted by the Police Department with the assistance of Public Works. This partnership and neighborhood camaraderie makes our neighborhoods a safer place to live. National Night Out enhances the relationship between neighbors and law enforcement/public works while bringing back a true sense of community. Furthermore, it provides a great opportunity to bring police/public works service and neighbors together under positive circumstances.

SWANCC RECYCLING EVENT

As a courtesy to SWANCC (Solid Waste Agency of Northern Cook County) community residents, this agency provides an opportunity to Morton Grove and all member communities to destroy sensitive documents and recycle electronic devices such as; medical records, tax forms, bank statements, T.V.'s, and printers. Seasonal document destruction and electronic recycling events can be scheduled annually between May and October. Morton Grove schedules this event on the 3rd Saturday of May, each year. In 2021, Morton Grove had 483 vehicles participate in this event.