

Village of Addison Department of Public Works

65th Annual Operation Report



**Fiscal Year
May 1, 2025 through April 30, 2026**

**Mr. Tom Hundley, Mayor
Addison Board of Trustees**

**RE: SIXTY-FIFTH
ANNUAL OPERATION REPORT
FISCAL YEAR 2025-2026**



The Public Works Department respectfully submits our sixty-fifth annual operation report for your review. This report provides an overview of Public Works operations and summarizes the accomplishments and special projects undertaken during the past fiscal year.

Each section of the report highlights a division by providing an overview of operations and responsibilities, as well as a breakdown of costs and labor expenditures for various tasks. Each division provides data that allows us to monitor the goals and performance measures related to the Village-wide strategic plan.

None of this would have been possible without the continued support of the Mayor, Board of Trustees, and Village Administrative staff. The Public Works Department is fortunate to have over 60 talented and dedicated professionals who work around the clock to provide our residents and businesses with the best service.

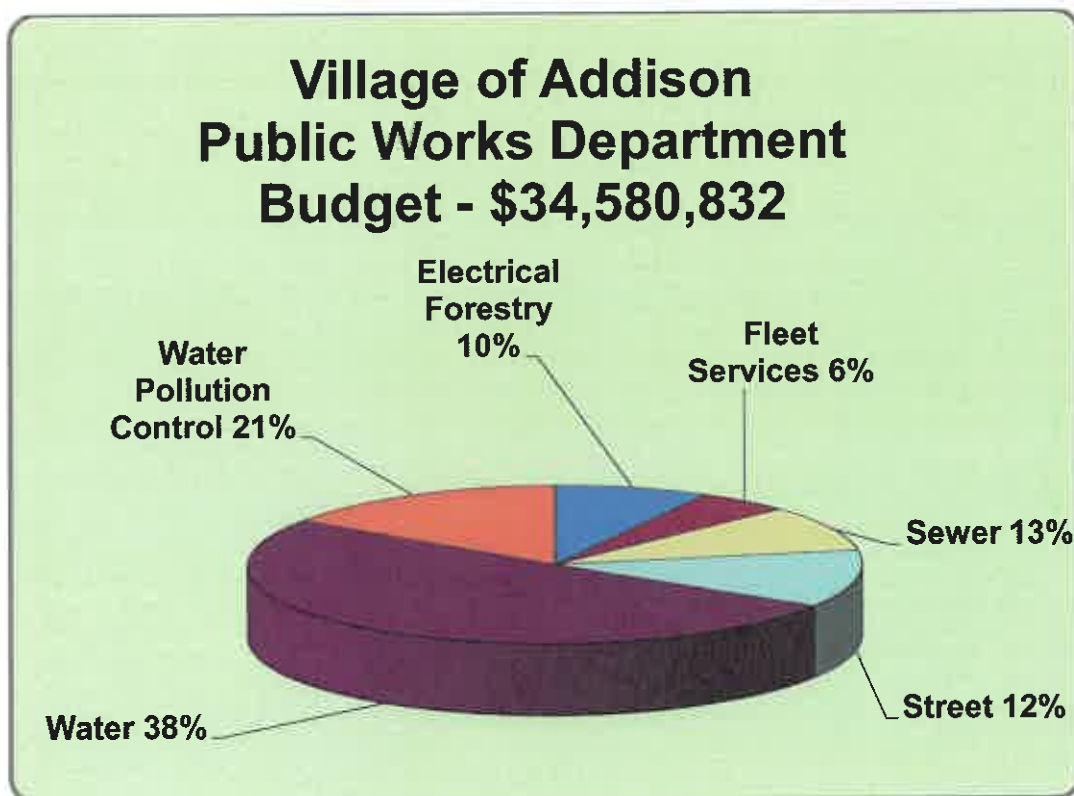
Respectfully,

A handwritten signature in blue ink, appearing to read "Ryan Hayden".

**Ryan Hayden,
Director of Public Works**

Public Works 65th Annual Operation Report

**Budget for Fiscal Year
May 1, 2025 through April 30, 2026**



Department of Public Works 65th Annual Operation Report

Table of Contents

Village Officials	3
Introduction	4-7
Electrical & Forestry Division.....	8-16
Fleet Services Division	17-19
Street Division	20-28
Water Division	29-34
Wastewater Treatment	35-49
AJ LaRocca Facility	36-41
North Wastewater Facility	42-49
Lab & Tech Services/Environmental Concerns.....	50-56
Sewer Division	57-63

**Village of Addison
1 Friendship Plaza
Addison, Illinois 60101**

Tom Hundley
Lucille Zuccherro

Village Mayor
Village Clerk

Village Board of Trustees

Jay Del Rosario
Gaetano Ruggieri
Cathy Kluczny

Dawn O'Brien
Sam Nasti
Maria Reyes

Village Officials

Joseph Maranowicz
Robbins - Schwartz
Roy Selvik
Colleen Witt

Manager
Attorney
Director of Police
Finance Director/Treasurer

Village Department Directors

Ryan Hayden
Mike Crandall
Jim Crotty
Donald Pinson

Doree Krage

Public Works
Community Development
Building and Grounds
Risk Management/Human
Resources
Community Relations

Village Directory

Village Hall
Police Department
Public Works Facility
A.J. LaRocca Wastewater Treatment Facility
North Wastewater Treatment Facility
Sewer Division Facility

1 Friendship Plaza
3 Friendship Plaza
1491 Jeffrey Drive
333 S. Villa Avenue
711 N. Addison Road
249 S. Villa Avenue

Department of Public Works 65th Annual Operation Report

Page 4

Introduction

The Village of Addison Public Works Department is comprised of several divisions, each utilizing specialized disciplines:

Public Works

Water Division	Street Division	A.J. LaRocca Plant
Sewer Division	Electrical & Forestry Division	North Treatment Plant
Fleet Services		Lab & Technical Services

These divisions are under the direct supervision of the Public Works Director, Assistant Public Works Director, and four Superintendents. One Administrative Secretary and two clerk-typists handle all office and administrative tasks, serving over 60 employees. The department's total budget exceeds \$30 million this fiscal year. Additional Water/Sewer infrastructure projects exceed \$14 million this fiscal year.

Director:	Ryan Hayden
Assistant Director:	Eddie Paladino
Superintendents:	Doug Armstrong Shawn Campbell Dominic Macri Tim Tokarz
Administrative Secretary:	Carli Flores
Clerk Typists:	Ana Carrazco Jennifer Przybylski

The Public Works Facility is located at 1491 Jeffrey Drive and houses the administrative office, Electrical & Forestry, Fleet Services, Street, and Water Divisions.

The Environmental Services Division administrative office is located at 711 N. Addison Road and houses the North Wastewater Plant and the Laboratory and Technical Services Divisions. The Sewer Division and A.J. LaRocca Facility are located at 249-333 S. Villa Avenue.

Department of Public Works 65th Annual Operation Report

Page 5

Goals

The Public Works Department strives to improve performance by setting annual efficiency and quality of work goals.

Implementation of the Strategic Plan – The Public Works Department reviewed each strategic priority and incorporated them into the "key objectives" in each division.

Service to Residents – The department prioritizes quick, courteous, and thorough service to citizen complaints and inquiries. We have clerical staff available to answer phones at both locations during all office hours. Most requests are handled within a few hours, with only a few exceptions.

Technology – State-of-the-art equipment drives our department forward with the utilization of the Lucity asset management program, the Addison Connected App, GIS, SCADA controls, smartphones, and tablets.

Safety – Paramount to the culture within Public Works is a focus on safety, with involvement from all staff levels. The safety committee, comprised of employees in each division, meets independently of the Administration to discuss safety concerns, improvements, and training. The use of an outside consultant has been implemented to improve standard operating procedures and departmental safety.

Infrastructure Rehabilitation – Major projects have been completed in recent years, primarily in water, wastewater, sewer, and electrical infrastructure. Long-term planning, including life cycle costing, asset management, and sustainability, are a priority within Public Works.

Major Projects 2025-2026

Public Works was again involved in many important projects throughout the community. Many are discussed in each of the divisional reports that follow, but a few of the highlights include;

- The Sewer Division performed SCADA system upgrades at the sanitary lift stations to improve remote monitoring and alarm capabilities.
- The North Wastewater Treatment Plant upgraded the SCADA system to ensure staff can monitor the processes at the treatment plant.
- The Water Division monitored the Annual Water Main Replacement Program, which included upgrades to the system on Janice Ln, Valerie Ln, and Marilyn Ter.
- The Street Division reconstructed and resurfaced the walking path and parking lot at Louis Reservoir.

Department of Public Works 65th Annual Operation Report

Page 6

- A total of 2,077 sidewalk squares were replaced utilizing the sidewalk replacement program funds. Staff addressed 122 trip hazards during the fiscal year.
- Public Works, along with other community partners, held two Recycling Events. Both events were held at the Addison Public Works Facility. Over 400 vehicles participated in each event, resulting in thousands of pounds of electronics and other waste diverted from landfills.
- The Combined Sewer Separation Project in the Home Addition subdivision broke ground in June 2025. The project consists of separating the combined sewer system into independent storm and sanitary lines, installing a detention basin in Cherokee Park, replacing lead water service lines, and resurfacing pavement. Approximately 90% of the project was complete during this fiscal year.
- Public Works continued working with Trotter & Associates for the design engineering for the Wastewater Plant Consolidation Project. The design engineering is nearing completion, with bidding and construction engineering to follow. This project will be funded using low-interest loans from the Illinois Environmental Protection Agency State Revolving Fund program. Bidding for construction is anticipated to take place in September 2026. Construction will begin in late 2026 or early 2027.

Vision for the Future of Public Works

The ever-evolving world of Public Works has created new challenges for our staff. Coupled with these advancements is the aging of our workforce and the need to develop the next generation of leaders in our department.

To address this challenge, the Public Works Department has instituted several programs looking to the future, including:

Succession Planning – The department will focus on supervisory development training over the next several years to prepare the next generation of leaders and personnel.

New Technologies – Public Works will continue to enhance the use of cutting-edge platforms, such as the Addison Connected mobile application, and mobile devices for digital utility mapping and paperless service requests.

Asset Management – The department uses Lucity, an asset management program, to better prepare for long-term decision-making and infrastructure sustainability. The program continues to grow by adding more assets and connectivity to our GIS software.

Department of Public Works 65th Annual Operation Report

Page 7

Community Outreach – Public Works will explore incorporating new interactive communication tools with residents. Communication will be provided through social media, the Village website, CodeRED, mailings, and educational videos.

Wastewater Treatment Plant Consolidation – Public Works continues to work with Trotter & Associates to develop plans for the wastewater treatment plant consolidation project. The unfunded mandate of phosphorus removal is the driving factor for consolidation. Construction is anticipated to begin near the end of 2026 or the beginning of 2027. The project will consist of expanding the North Wastewater Treatment Plant to take on all flows, installing a 2-mile force main to convey wastewater from the AJL Facility to the North Treatment Plant, installing a preliminary treatment and wastewater pumping station at the AJL Facility, and decommissioning the AJL Facility. By 2030, the wastewater treatment plants will be consolidated and compliant with all state and federal regulations.

**Electrical
&
Forestry**

Department of Public Works 65th Annual Operation Report

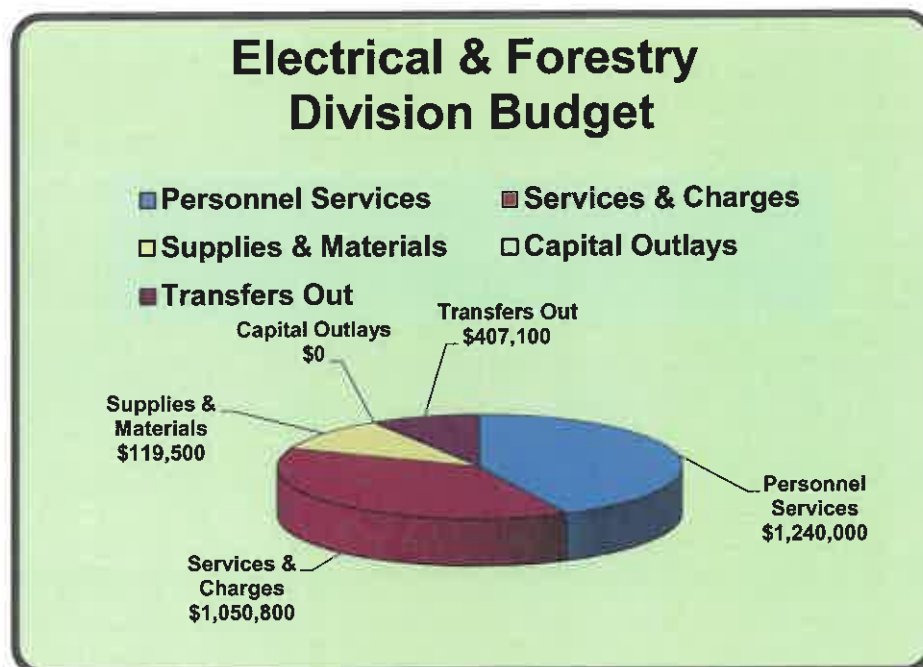
Page 8

Electrical & Forestry Division

The Electrical/Forestry Division is responsible for the overall operation, maintenance and repairs of the Village's street lighting system, including street light poles and several aerators throughout the municipality. This Division is also responsible for the public landscaping, parkway tree maintenance, mulch give-away program, and the implementation of the storm damage emergency response procedures in the event that a special branch pick-up schedule is required in the wake of a heavy storm.

The Electrical & Forestry Division is managed under the direction of one supervisor and a crew of four maintenance workers and one electrician.

Supervisor of Electrical & Forestry:	Juvy Montoya
Maintenance Worker II:	Chris Kasper
Maintenance Worker I:	Brandon Danikowski Connor Keegan Stephen Kirchschrager (12/25)
Electrician:	Brad Kurilla



Department of Public Works 65th Annual Operation Report

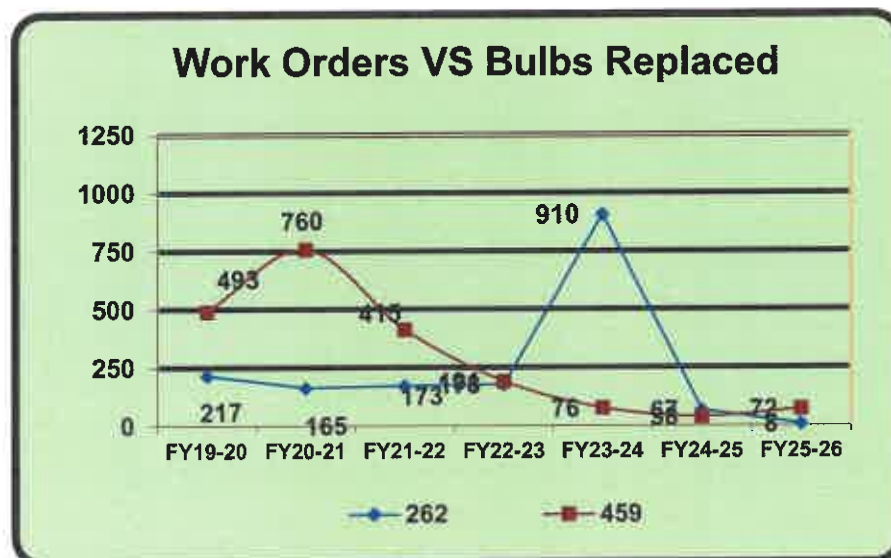
Page 9

The Electrical/Forestry Division reviews construction plans regarding proposed additions to the Village's streetlight system as well as punch list inspections upon completion of said projects are performed in-house.

The Electrical/Forestry Division is responsible for for the overall maintenance of the Village's Street lighting system. This includes cable repair and replacement, remote disconnect installation, LED lighting and cabinet maintenance/repairs/upgrades, and streetlight pole maintenance. Streetlight pole maintenance entails replacement of bulbs, refractors, wiring, luminaire repair and replacement, as well as the painting and numbering of poles. Streetlight poles are often completely replaced as a result of traffic related knockdowns or severe deterioration. The Electrical & Forestry Division is also responsible for light pole safety inspections (concrete pole deterioration, aluminum pole fractures, frangible base/coupling inspections, etc.)



A resident may report a streetlight outage by contacting the Public Works Department, through the Village website or through the City Source web-based service ticket request system. Each pole has a specific identification number located on the pole which indicates a pole's location and system information. Providing the pole's identification number when reporting an outage can help crews locate lighting issues with greater efficiency.



Department of Public Works 65th Annual Operation Report

Page 10

Other areas of responsibility include Addison's holiday lighting and decoration, flag maintenance, pond aerator repair and maintenance, and electrical contract supervision (over-seeing the traffic signal and siren system maintenance contracts, helix foundation installations, and contracted pole replacements as needed).

The Electrical/Forestry Division provides and oversees the maintenance of all Village of Addison public landscape and parkway trees. Work includes planting, pruning, tree removal (dead/hazardous/diseased), and associated restoration work. This Division is also responsible for the Mulch Give-Away program and the implementation of the Storm Damage emergency response procedure in the event that a special branch pick-up schedule is required in the wake of a heavy storm.



Duties for the Electrical/Forestry Division also include contract supervision for the public grounds contract for mowing and landscape maintenance, contracted branch pick-up, cyclical tree pruning, mosquito abatement, decorative brick paver maintenance, and aquatic weed control for Village maintained ponds.

The Electrical/Forestry Division reviews new construction plans to ensure that the proposed plantings are selected and placed according to Village of Addison code.

Department of Public Works 65th Annual Operation Report

Page 11

Mosquito Abatement Program

The Village continues an aggressive abatement program in an effort to control mosquitoes and the associated occurrence of West Nile Virus. Contracted monitoring and spraying is performed several times throughout the season. The Village residents are provided with a "Mosquito Hotline" phone number to call with mosquito complaints.

The catch basin treatment program is performed under contract. Approximately 4,000 Village catch basins and water holding inlets are treated with Natular XLT 180-day briquettes or Vextolex CG granules to control the species of mosquito that vectors West Nile Virus each year.

Arbor Day Presentations

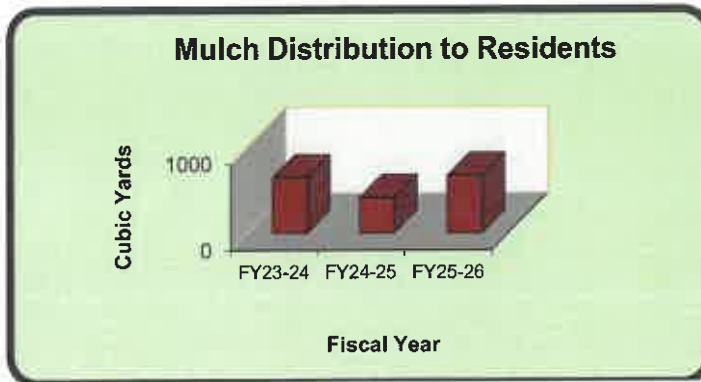
The Village gives Arbor Day Presentations to 4th Grade classes at all elementary schools in town. These presentations are given the last week of April every year and focus on the benefit of trees to our environment. The students learn how to plant a tree and are given a tree seedling to take home and plant with their families.



Department of Public Works 65th Annual Operation Report

Page 12

SERVICES PROVIDED TO VILLAGE RESIDENTS



Mulch Giveaway

Auxillary branch pickup, pruning and removal of wood waste generated by in-house operations are recycled and refined into higher quality mulch. Mulch is recommended for use around the base of plants and trees to help retain the moisture in the soil, hold down aggressive weed growth, and return nutrients to the soil.

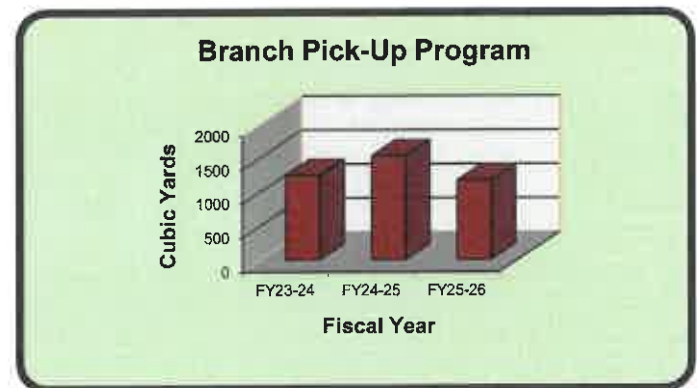
Full truckloads of mulch are available to residents for delivery by the Public Works Department upon request. Arrangements can be made for a weekday delivery by calling the Public Works Department direct. Upon completion of resident service requests for mulch, wood mulch is supplied at the corner of Vista and Winthrop Avenues, available to residents free of charge.

Christmas Tree Pick-up

Christmas tree pickup service is available throughout the month of January. Trees should be placed on the parkway on Sunday evenings for collection on Monday. Nails, tinsel, ornaments and lights must be removed, along with tree bags and bases.

Branch Pick-up

The Village's Branch Pick-up program is truly a service to Addison residents. It encourages each resident and building owner to pride themselves in the health, aesthetics and value of their home, building, surrounding yard and landscape. It promotes the community's desire to beautify our neighborhoods while maintaining safe and healthy surroundings. Each month, April through November, an Addison resident or building owner has the opportunity to place branches out curb-side in front of their property.



Branch pick-up begins on the first Monday of each month, April through November, for a total of eight months. November was added in 2016.

Trees and branches cut by privately contracted companies, or individuals hired by residents or property owners do not qualify for the Village's Branch Pickup Program.

Department of Public Works 65th Annual Operation Report

Page 13

Branches, trees, and/or logs of this type must be properly disposed of by said private contractor, or other private service. Trees and branches cut by privately contracted companies, or individuals hired by the residents, or property owners may not be stacked along the parkway for this described Village pickup.

Village of Addison Branch Pick-up requirements:

- Branches must be placed curb-side on the parkway, not in the street, stacked in one direction with the thicker ends facing the street. Please do not cross stack the branches.
- Branches shall be limited to eight feet in length and eight inches in diameter.
- Limbs or stems larger than eight inches in diameter must be cut into 16-inch log lengths and placed separately from the branches.
- Branches shall not be tied with string, wire, etc.
- Branch piles containing root balls, lumber, metal, glass, yard waste or other debris, as well as large branch mounds that have been multi-directionally cross stacked, will not be picked up.
- Branches shall not be stacked in the alley or along private drives. Branches stacked in the alley or along private drives will not be picked up.
- Trees and branches cut by a private contractor hired by a resident do not qualify for the Village's Branch Pickup Program and may not be stacked along the parkway for Village pickup. Materials cut by private contractor must be disposed of by said contractor or other private service.
- Branch piles shall not be out on the parkways prior to or after the weekend prior to pick-up. All branches must be stored in the back yard until such time.

Small clippings and landscape waste may be discarded in paper landscape bags for disposal by our contracted waste management company.

Department of Public Works 65th Annual Operation Report

Page 14

Parkway Tree Maintenance

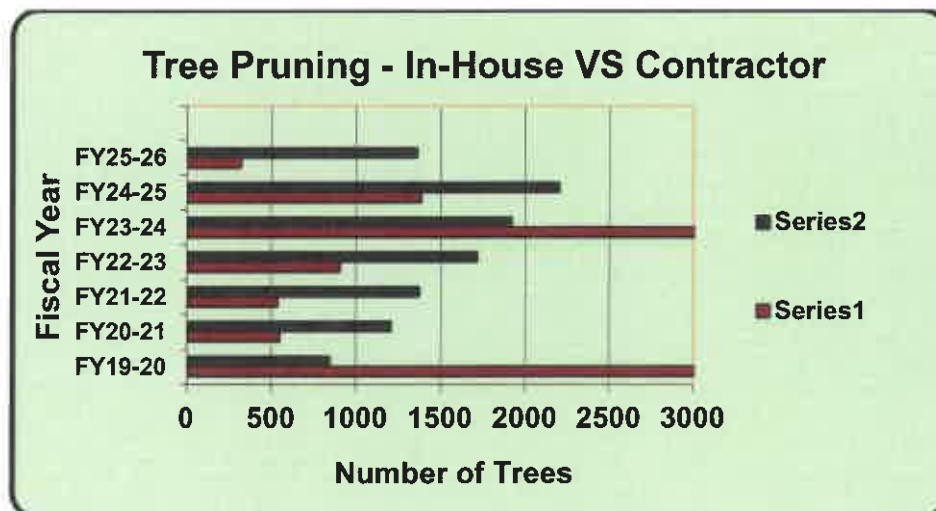


The Electrical/Forestry Division plants and maintains the Village's parkway trees. These parkway trees are provided and planted at no additional charge to residents.

Planting is conducted during the spring season, often. Residents can call the Public Works Department with requests for a tree in their parkway. An inspection of the site will be made to determine if planting is possible, and the location will be added to the program if applicable.

A limited number of trees are available each year, thus planting may occasionally be postponed until the following season.

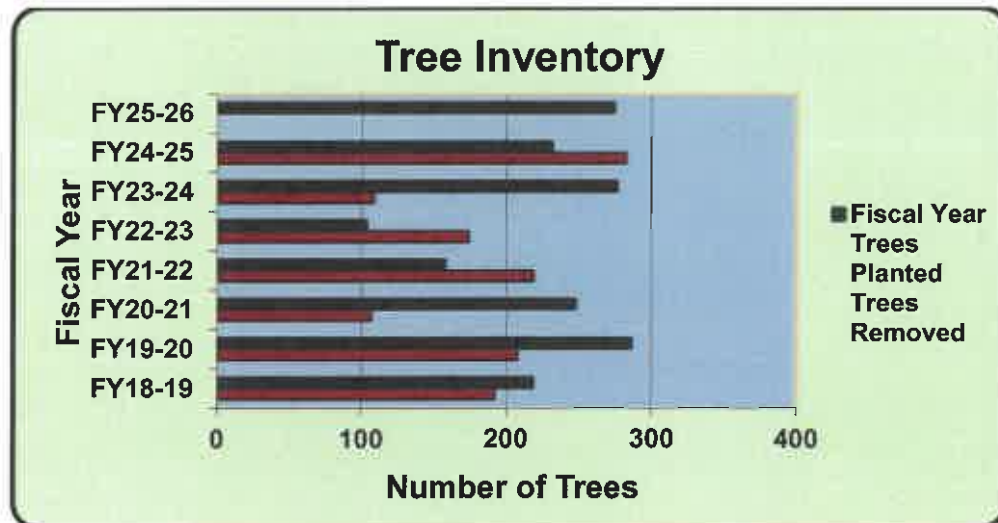
Parkway trees throughout the Village are cared for on a rotating schedule. The Electrical/Forestry Division strives to maintain a budget providing a targeted pruning cycle of five years. This is accomplished through a combination of the certified arborists on staff and contracted, certified tree care services awarded annual pruning bids.



Department of Public Works 65th Annual Operation Report

Page 15

Tree removals are conducted in-house by the Electrical/Forestry crew as well as under contract. Dead and/or diseased trees are taken down for public safety and placed on a schedule for replacement. As Village of Addison policy, we will not remove live, healthy trees from the parkway or right-of-way, except in extreme cases, or when hazardous conditions pose a threat to public safety.



Department of Public Works 65th Annual Operation Report

Page 16

Holiday Décor



Each year holiday decorations and lighting displays are installed throughout the entire Village Hall complex, (Library, Historical Houses, and Police Department, as well as at Friendship Circle and Veteran's Circle (at the corners of Lake Street and Addison Road). Snowflakes are displayed on streetlight poles that line the Addison Road corridor.



Holiday lighting operations begin as early as September in an effort to meet the Village's tree lighting ceremony deadline. Holiday lighting and display removal operations commence following the observance of the "Feast of the Epiphany" in early January.

Fleet Services

Fleet Services

The Division of Fleet Services provides the employees of the Village of Addison with safe and dependable vehicles, equipment and service facilities. Working in partnership with the employees, the Division provides high quality products and services in a most cost-effective manner.

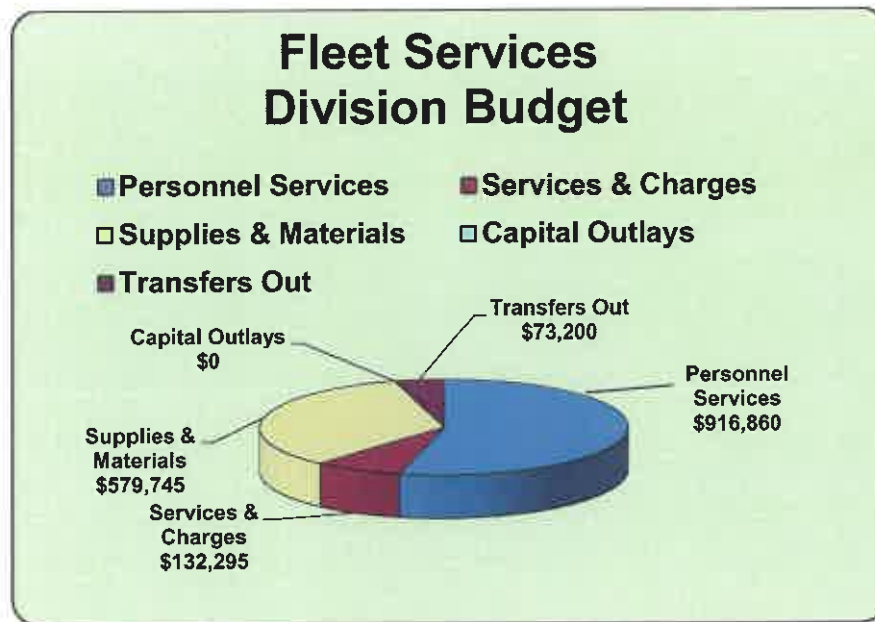
In order to carry out these tasks, the Division is under the management of one Superintendent, one Supervisor and a crew of four mechanics.

Superintendent: Dominic Macri

Fleet Division Supervisor: Rudy Avila

Mechanic III: Matt Welsh

Mechanic I: Mike Chow
Will Guerrero
Jose Guzman



Department of Public Works 65th Annual Operation Report

Page 18

Services provided by Fleet Services include fleet asset management, procurement of vehicles and equipment, storage and dispensing of fleet fuels, repair and maintenance services and vehicle replacement fund management. During the 2014/15 Budget Year, Fleet Services took on the maintenance and repair of the Addison Fire Department vehicles and equipment in December of 2014. During the 2022/23 Budget Year, Fleet Services took on the maintenance and repair of the School District 4 vehicles and equipment in December of 2022.

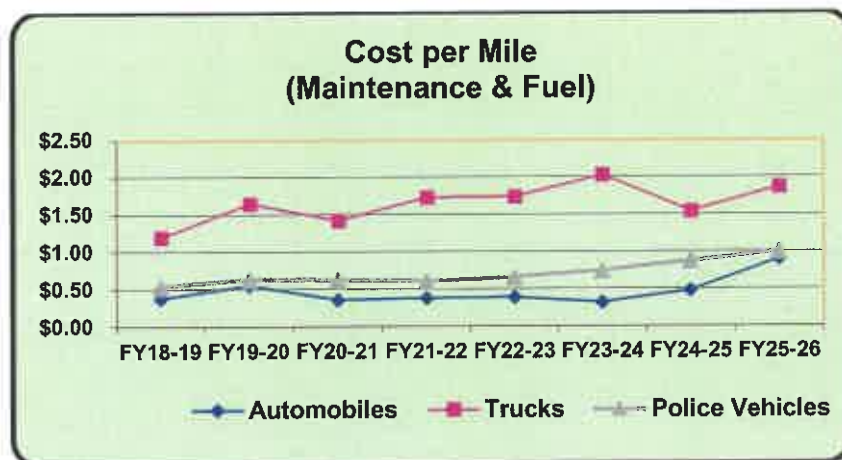
Services Provided

1. Manages the procurement of all Village vehicles to ensure cost effectiveness
2. Maintains a fleet replacement schedule to minimize ownership costs
3. Provides specification for vehicle procurement in a manner that maximizes vehicle utilization
4. Provides a quality preventative maintenance program and schedule to ensure reduced operating costs
5. Provides a quality Vehicle and Equipment Repair Service
6. Provides efficient equipment utilization through reduction of equipment downtime
7. Participates in A.S.E. certification programs
8. Manages Village fuel purchase and usage
9. Manages Automated fuel dispensing for Village equipment and other designated entities, 24 hours a day, 7 days a week
10. Manages tire and parts inventory
11. Manages Vehicle Replacement Fund Recommendations
12. Manages Internal Service Fund
13. Manages and maintains titles, license plates, I-PASS and car wash accounts for all Fleet Vehicles
14. Manages vehicle and fleet equipment disposal
15. Assist Risk Management on insurance claims

Department of Public Works 65th Annual Operation Report

Page 19

16. Coordinates external services, such as paint and body repair, transmission repair/rebuild, heavy duty suspension service, glass replacement, and warranty repairs
17. Furnish pool vehicles to meet customers' needs while their vehicle is being serviced
18. Provide roadside assistance or arrange towing 24 hours a day, 7 days a week for Village vehicles or equipment
19. Up-fitting and set-up of all Village vehicles
20. Installation and removal of snow plow and salting equipment
21. Manage Village above ground fuel storage tanks



	FY21-22	FY22-23	FY23-24	FY24-25	FY25-26
Number of Preventive Maintenances Completed	708	605	654	589	326
Number of Breakdowns	4	2	4	7	6
Scheduled Repairs	95%	97%	98%	98%	98%
Non-Scheduled Repairs	5%	3%	2%	2%	2%

**Street
Division**

Department of Public Works 65th Annual Operation Report

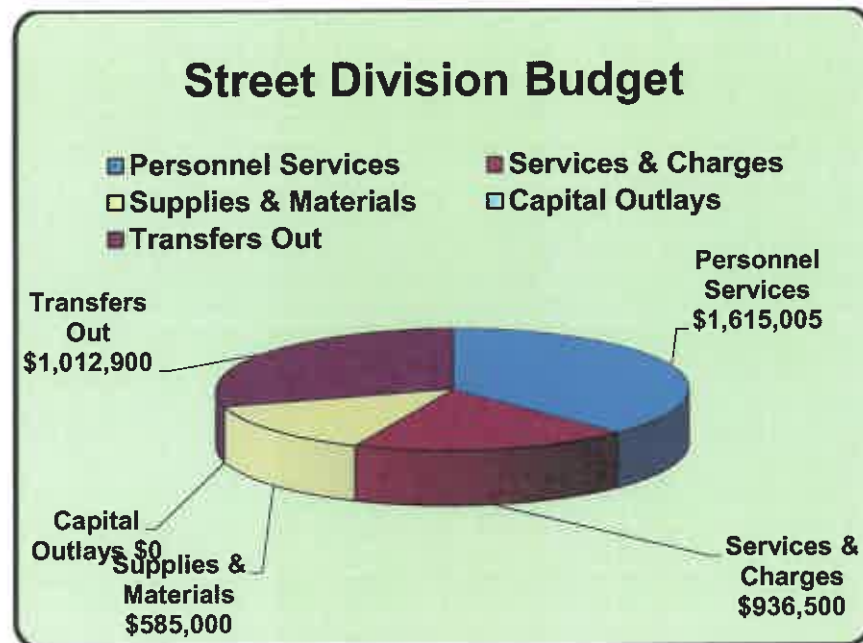
Page 20

Street Division

The Street Division is responsible for the maintenance and care of approximately 278 paved-lane miles, ice and snow removal, asphalt pavement repair and maintenance, emergency traffic control and barricading, repair of pot holes, maintenance of sidewalks, curbs, and ADA crossings, replacement of sidewalks, striping roadway lane lines, school crosswalks and stop bars, repair damage due to snow plowing operations, installation and maintenance of street signs within the Village corporate limits and maintenance of Addison's section of Salt Creek Greenway Trail.

These all are accomplished under the direction of one foreman and a crew of eight maintenance workers.

Foreman:	Ron Remus
Maintenance Worker III:	Andy France Mark Zimmerman
Maintenance Worker I:	Tyler Balsamo Mike Brandt Brian Lindstrom Derek Tranchitella John Wilcoxon Jack Vrchota



Department of Public Works 65th Annual Operation Report

Page 21

Specific Street Division Tasks: Graffiti removal, Road Kill Removal, Traffic Control, Parkway maintenance, sidewalks.

Major Cost Maintenance Projects: Blacktop maintenance, Snow & Ice Control, Street Sweeping, Street Sign Maintenance.

The Street Division also monitors flood control. This includes maintenance of creeks, clearing logs and debris blocking stream flow, curb inlet cleaning and barricading flooded streets or streets undergoing maintenance activities. This can also include sandbagging, evacuation of people from flooded homes and the follow-up cleanup and response post storm.

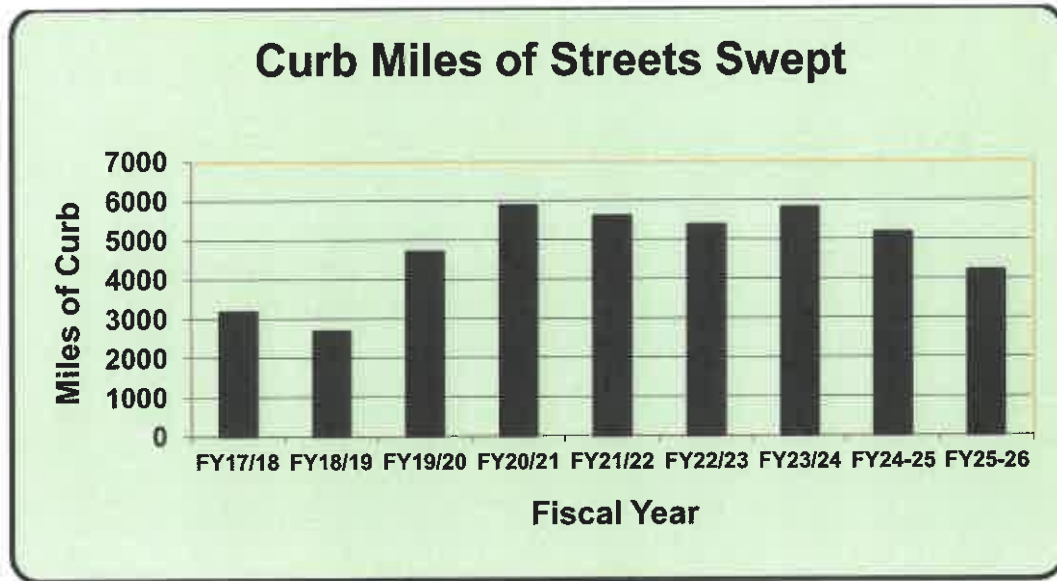
Other responsibilities include maintaining unrestricted flow in and out of Village holding ponds. The Division also aids in planning traffic control, crowd control and safety barriers for various community events.



Department of Public Works 65th Annual Operation Report

Page 22

The Street Division maintains a Street Sweeping Program whereby streets are cleaned of debris on a scheduled basis to keep curb inlets clear and prevent pollution and/or obstruction of storm water drains.



Department of Public Works 65th Annual Operation Report

Page 23

Graffiti Removal

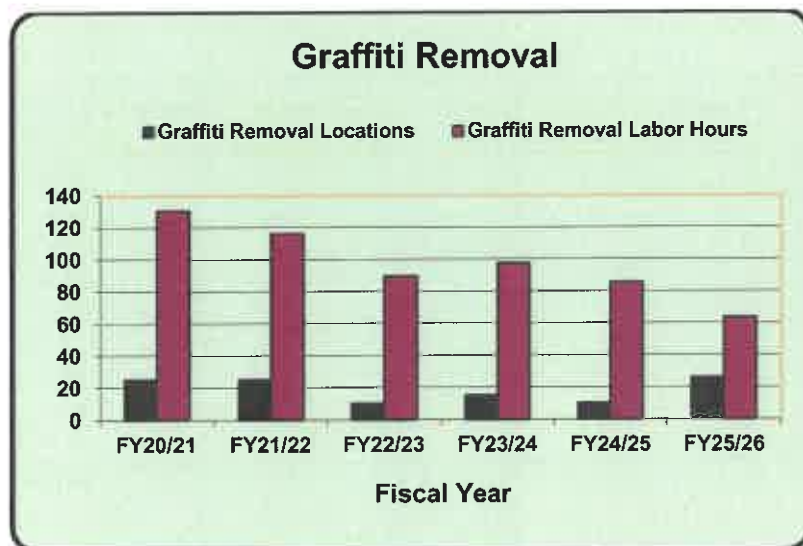


The Street Division is responsible for the timely covering and/or removal of all reported instances of graffiti on public and private property. This can only be completed if a hold harmless agreement from the property owner is on file and a police report is filed.

After a police report, pictures and documentation this graffiti will be removed from 826 College Blvd. The Street Division spent over 85.5 hours removing graffiti this year.

The Division uses different procedures for graffiti removal. On a smooth surface with marble-type finishes, a hot-water pressure washer is used. Most coarse brick surfaces are cleaned using a brand name chemical. The chemical is brushed on, allowed to sit for several minutes, then rinsed off with a hot-water pressure washer. The same procedure is used for smooth surfaces.

In the case of a waste dumpster, tree or asphalt street surface, the graffiti is sprayed over with a spray paint matching as close as possible to the original color of the surface. If inaccessible to normal removal procedures such as a concrete viaduct, a like color that matches the concrete can be used.



Department of Public Works 65th Annual Operation Report

Page 24

Sidewalk Replacement Program

The Street Division maintains an ongoing sidewalk inventory, identifying potential hazards, damage, etc. Each fiscal year, certain areas are targeted for sidewalk replacement and are replaced as budget funding allows. Through this program the Village Board has encouraged a proactive approach to minimize trip hazards throughout the Village, ensuring the safety of our residents. This year we replaced 2,077 Squares of sidewalk.

In August 2009 the Street Division began the additional program of grinding sidewalk trip hazards. Sidewalk grinding is an approved alternative to sidewalk replacement in the overall maintenance program and it enables the Village to stretch tax dollars by repairing minor joint alignment issues, minimizing trip and fall hazards, and increasing foot traffic safety. The Street Division ground 122 trip hazards during the fiscal year.

Signs

The Street Division installs and maintains all Village street signage. An intensive schedule is maintained throughout the year. Each fall all regulatory and warning signs are inventoried, inspected and graded to include reflectivity and damage and placed into one of three categories: good, fair and replace. November through February all the signs that need replacement are completed. 234 signs were replaced during the fiscal year.

Throughout the year this Division installs, fabricates, repairs and replaces signs requiring immediate attention.



This crew is putting up a temporary stop sign while the traffic signals are out of service.

Department of Public Works 65th Annual Operation Report

Page 25

Snow/Ice Operations and “Snow Plan”

Snow Fighting Vehicle Inventory

8	2-½-Ton Dump Trucks	6	1-Ton Dump Trucks
3	1-Ton Pick-Up Trucks	3	1-Ton Utility Trucks
4	¾-Ton Pick-Up Trucks	2	End-Loader W/12” Plow
4	Tandem Trucks	1	1 ¾ Ton Dump Truck

Public Works operates with a formal “Snow Plan” which outlines the snow/ice removal operations. This plan is continually reviewed, updated, and revised throughout the winter season. Response and call-out procedures vary according to weather conditions, time of day, weekdays or weekends. All specifics have to be taken under consideration for response efforts and response timing as each storm progresses. Division Foremen work in conjunction with the Addison Police and Fire Departments, relying on their 24hr/day information on current road conditions and issues on the Village streets, along with using National Weather Service Forecasts.

For a cost effective and time efficient operation, the Village streets have been divided into seven designated response areas. Each area has assigned equipment and crews, which are on 24hr call to respond to storm events. The Addison Public Works Department, as a team, combines the workforce of all divisions to make up the snow response team. Additional information about the Addison Snow Plan can be found on the Village Website at AddisonAdvantage.org.

Department of Public Works 65th Annual Operation Report

Page 26

Pretreating/Prewetting/Salting Roadways

When pre-treating, pre-wetting and/or salting is required, crews respond to pre-assigned areas. Each driver is responsible for checking out his equipment, filling the truck and keeping track of all quantities used during their shift.

Roadway salt is ordered via a Government Pricing Contract. The Salt Purchase Agreement for the DuPage County Contract is Board approved early in the year for the next year's quantity. Salt supplies are monitored to ensure standby quantities are available.



Mailbox damage and parkway repairs add to the Division's costs for the snow/ice removal program. As damages are noted, crews will assess whether a temporary restoration needs to be completed. Otherwise, all repairs or replacements are completed in the spring. All resident needs are considered to assure no interruption of mail delivery. We repaired 21 mailboxes this year.

Snow & Ice Removal Statistics					
	FY 21-22	FY 22-23	FY 23-24	FY 25-26	FY 25-26
Number of Events	14	14	12	17	19
Events Plowed	10	6	5	5	5
Hours Expended	2,947.00	2,037.75	1,890.25	1,646.50	2,754.00
Number of Trucks	25	25	23	25	25
Tons of Salt Used	2,967.25	1,963	1,569.75	1,934.00	2,617.25
Gallons of Liquid Pretreating Used	5,100	10,000	4,990	14,210	4,900

Department of Public Works 65th Annual Operation Report

Page 27

Street Re-Surfacing

During the year various blacktop re-surfacing projects are completed by the Public Works Street Division. These often are the result of severe weather conditions affecting the street surfaces such as pot holes or buckling of the pavement.

Each year funding is made available for milling of street surfaces (grinding/removing approximately two inches of existing surface) and placement of approximately 4,400 tons of asphalt for these resurfacing projects. In 2025-26, the Division used approximately 2,841 tons of hot mix asphalt and 39 tons of recycled asphalt mix.



The paver box puts down a 12-foot swath as employees lute, measure depth and prepare for compaction with the roller following behind them.

Department of Public Works 65th Annual Operation Report

Page 28

The sound wall was built in 2007. Since then, we have had 56 crashes. Nearly every year we have experienced traffic accidents resulting in wall damage. Or weather-related issues causing damage to the wall.



Three separate crashes leave three gaping holes in the sound wall as the sun comes up on a cold January morning.

While there have been a few hit and run accidents, most of the offenders are tracked down through the cooperation of the Addison Police Department, Illinois State Police, the Addison Fire Department and the Itasca Fire Department.

**Water
Division**

Department of Public Works 65th Annual Operation Report

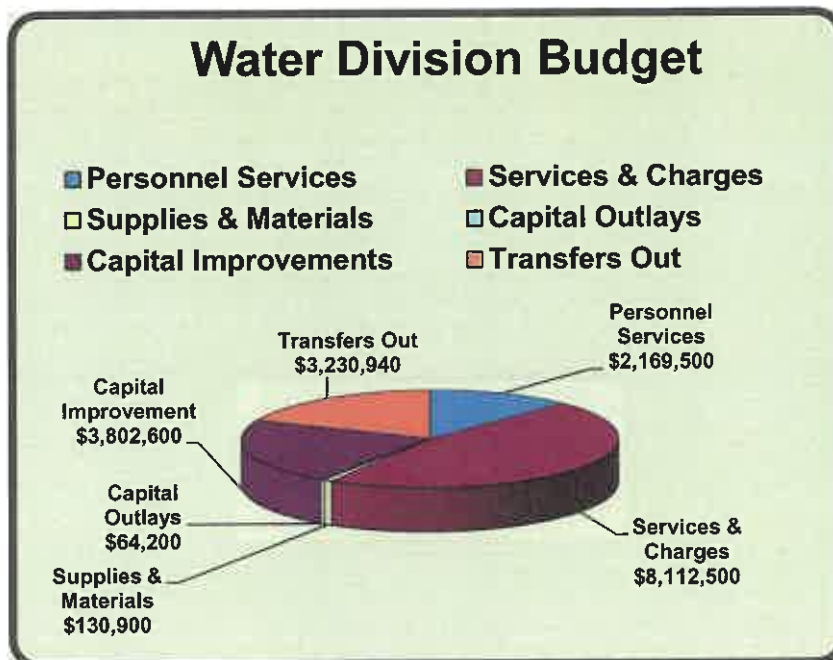
Page 29

Water Division

The Water Division monitors Village water quality in accordance with Illinois Environmental Protection Agency regulations for the safety and security of the community. The Division continues to also maintain wells in stand-by status to immediately cover any interruptions to the DuPage Water Commission water supply.

This monitoring is accomplished under the direction of the Division's foreman and a crew of three utility workers, and six maintenance workers.

Foreman:	Rick Russo
Public Utility Worker III:	Jason Cunniff
Public Utility Worker I:	Mike Hundley Mike Strycharz
Maintenance Worker II:	Art Huebner
Maintenance Worker I:	Jonaton Cabrera Mike Caputo Joe D'Antonio Andrew Gomez Colton Gnadt



Department of Public Works 65th Annual Operation Report

Page 30

Water Supply: Water supply responsibilities include the operation and maintenance of six standby wells, five pressure adjusting stations for receiving Lake Michigan water and two booster pumping stations.

The Division regulates all chemical feeding as required by the IEPA. This includes monthly samples for microbiology, Trihalomethane, volatile organics and lead and copper samples. The Division responds to resident concerns regarding water quality and pressure in their homes. Responsibilities also include the maintenance of all equipment and grounds for the 178 miles of water main, 2,300 hydrants, over 1,000 valves and 10,800 water services within the community.

<u>Well</u>	<u>Address</u>	<u>Design Capacity</u>
Well #6	1011 W. Fullerton Avenue	1,150 GPM
Well #7	1011 W. Fullerton Avenue	1,000 GPM
Well #8	1011 W. Fullerton Avenue	800 GPM
Well #11	926 N. Lombard Road	1,000 GPM
Well #12	Swift Road South of Lake Street	400 GPM
Well #13	Waveland & Sumner	300 GPM

<u>Water Reservoir Storage</u>	<u>Location</u>	<u>Design Data</u>
#1	1011 W. Fullerton Avenue	2 – 750 GPM pumps 1 – 1,450 GPM pump 1.0 MG Storage
#2	711 N. Addison Road	4 – 900 GPM pumps 1.5 MG Storage
#3	926 N. Lombard Road	0.750 MG reservoir
#4	626 N. Swift Road	1.5 MG reservoir
#5	Vista & Winthrop	2 MG Stand Pipe 1 – 1,450 GPM pump

Standby Well Maintenance

The six standby wells remain operational. They are inspected yearly by an outside well contractor who performs a series of tests to determine the overall condition of each well. Each well is sampled for bacteriological contamination on a monthly basis VOC, SOC and IOC are sampled yearly and radiological elements sampled every 3 years.

Department of Public Works 65th Annual Operation Report

Page 31

Reservoir and Water Tower Maintenance

The water storage reservoirs are internally inspected and painted on a 12 to 15-year rotation. Technology has come a long way and the new coating system should last 25 years. This far exceeds the endurance of the paints that have been used in the past.

Special Programs: This consists of the Backflow Protection Program, Water Quality/System Testing, and GIS & GPS program data recording, Water Pressure Monitoring, Annual Consumer Confidence Reports, Hydrant Flow tests and Annual Fire Pump tests.

Water Main/Repair Maintenance: Main Repairs and Replacements, Hydrant Repairs, Replacements and Painting, Meter Installations, B-Box Repair/Install, Valve Repair/Install. Valve Exercising and Hydrant Flushing annually, Parkway and Concrete Restorations.

Repairs & Maintenance

	FY 21-22	FY 22-23	FY 23-24	FY 24-25	FY 25-26
Water Main Breaks	82	80	99	95	123
Valves Repaired	12	19	13	39	43
Hydrants Repaired	36	46	18	81	79
Water Service Repairs	7	81	46	33	328

Water Meters: The Water Division has the responsibility of installing, testing, and rebuilding water meters. In many instances the Division will be asked to trouble-shoot meters on high bill complaints and leaky meters. An outside firm and one of the staff perform an organized large-meter testing annually. Monthly water service turn offs for non-payment of bills and private plumbing repair work can be a frequent work order for this Division.

Utility Locating: The Water Division is responsible to locate all village utilities when requested thru J.U.L.I.E. We respond to as many as 4,300 locate requests per year.



Automatic Hydrant Flusher

Department of Public Works 65th Annual Operation Report

Page 32

Emergency Water Main Repairs

Depending on each fiscal year's weather conditions, water main breaks can be a major factor in the department's material costs, equipment use and overall labor costs. This past Fiscal Year's water main breaks totaled 99. The "high" for water main breaks was 143 in Fiscal Year 1988-89 with a low in 2001-02 of only 47.

Water main breaks are identified by various means, whether by resident call-ins, Police notification, and alarm sensors built into the water system that "sense" abnormally high consumption spikes within identified sections of the system. Once notification of a main break comes into the division, steps are followed to ensure a timely response and repair to the main break. Staff assesses the site and it is secured, then J.U.L.I.E., the one call utility location center is notified, and utilities/potential utility conflicts are identified, crews respond, equipment and materials are prepared, and the repairs are completed using all safety measures and proper traffic controls. The location is then placed on a restoration list for a later date repair in house, using Public Works crews. The Village policy is to restore the location as close to its original condition as possible.

Results from each water main repair is recorded, recording manpower, equipment, materials used, even water loss when available. This information allows the Water Division to accurately track material use and inventory needs and provides much needed data for future budget preparations and background into trouble spots or weaknesses within the water system.

Department of Public Works 65th Annual Operation Report

Page 33

Capital Projects: Water Main Replacement Program

In-house records and data compiled from 1979 to 1989 were used to help prepare a report on the overall conditions of the water mains. The records and data, the type of break, the condition of the main, type of soil, proper main installation and lastly, breaks in the same area or street were all used to prepare a report and list of areas where water main replacement projects would be most beneficial. This list was established based on the past 10 years of data.

Using this report, funding would be required to implement an ongoing replacement program. The water main replacement program is an ongoing Capital Improvement Program and proposed water main improvements are presented to the Village Board during budget reviews.

The basis of the annual water main replacement program is to improve the overall system performance, to replace old deteriorating water main, water mains improperly installed or installed in bad soils without protection from the elements. Water main replacement is a priority when new roads are proposed under the MFT Program, when water main breaks are frequent in an area, to improve the water distribution system, and/or due to other necessary requirements. This program has been funded since FY88/89.

Cross Connection and Backflow Protection

In 2004, the Village of Addison passed Ordinance #0-04-120 amending the Village Municipal Code to add a new Chapter 6 Article 30 – titled Cross Connection Control and Backflow protection. This is based on the Illinois State Plumbing Code and Environmental Protection Agency regulations.

Illinois State Plumbing Code requires protection of all potable water systems from contamination due to backflow of contaminants through plumbing connections, fixtures or appurtenances. The Illinois Pollution Control Board Regulations also require an active program of cross-connection control which will prevent the contamination of all public waste supply systems due to the backflow of contaminants or pollution through the potable water service connection.

The Water Division has aggressively enforced this ordinance to ensure all irrigation systems and fire sprinkler systems are in compliance. At conception of the law there were over 262 fire systems not in compliance with the ordinance. In the past years 176 businesses have been brought into compliance. The remaining 39 have been notified and are moving forward to change out their old systems. All backflow protection devices are required to be tested and certified on a yearly basis, with a copy of the test data results sent to the Public Works Department Water Division for file.

Department of Public Works 65th Annual Operation Report

Page 34

Annual Water Quality Report

A Water Quality Report is prepared every April and is mailed to all customers within the Village. This report keeps the community current as to the quality of drinking water delivered to the community. Addison receives its water through the DuPage Water Commission (DWC) who receives it directly from the City of Chicago, Jardine Water Filtration Plant located near Navy Pier.

The Village of Addison Water Division samples and monitors the water throughout the entire water distribution system every month as mandated by the Safe Drinking Water Act (SDWA).

Water Sampling

The Water Division collects, at a minimum, 46 water samples each month from sampling points distributed evenly throughout the Village to ensure the drinking water is free from bacteria. If these required samples were not submitted or if a sample would be found to be contaminated, this would be a violation of SDWA and EPA regulations. If this would be the case, the Water Division is obligated to notify all Addison residents immediately and take measures necessary to bring the system back into compliance.

This year, as in past years, Village of Addison drinking water met all USEPA and State drinking water standards. There were zero water quality violations recorded during this reporting period.

In addition to performing bacteriological testing, the Water Division collects water samples at homes throughout the Village to test for lead and copper contamination. Homes containing lead pipes, lead service lines or copper pipe soldered with lead-based solder are chosen based on criteria set by the United States Environmental Protection Agency. If more than 10% of the collected samples exceed levels set by the USEPA, the Village would be notified by the IEPA as to what action would be required. Since the inception of this program in July, 1992, and after only two rounds of sampling, the IEPA reduced the number of samples Addison was required to test from 60 to 30 due to the Village's water being in compliance with lead and copper standards.

Plan Review

The Water Department reviews all plans relating to water main replacement, new construction and building services, domestic as well as fire protection.

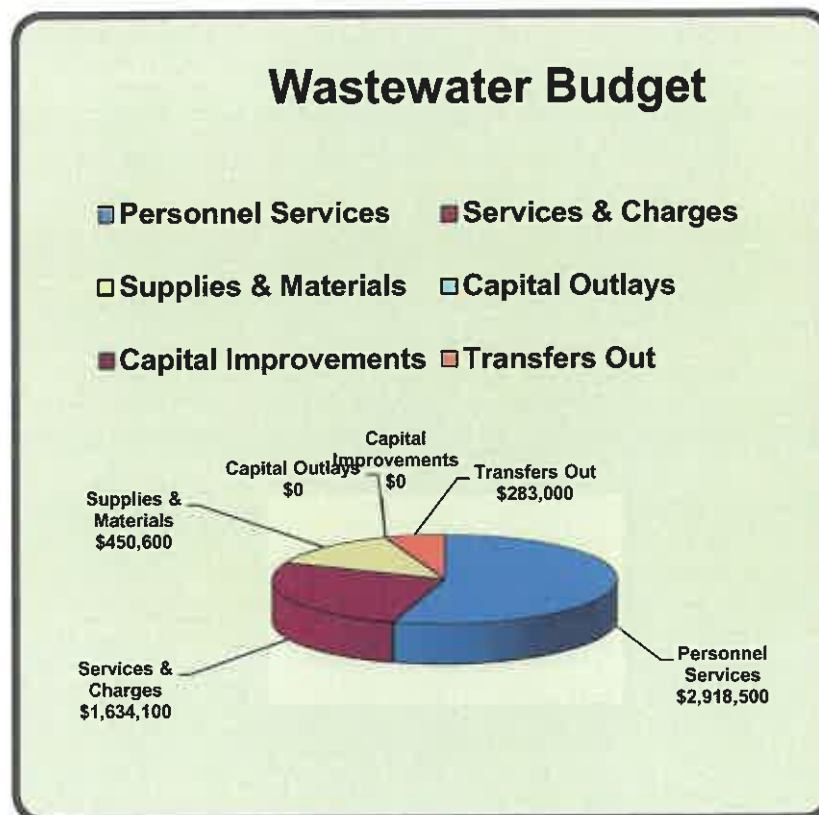
Wastewater Treatment

Department of Public Works 65th Annual Operation Report

Page 35

Wastewater

The Division of Environmental Services is responsible for the operation of the two wastewater treatment facilities in the Village of Addison. Between these two facilities, over 1.7 billion gallons of municipal wastewater is treated annually under guideline levels set forth in the Federal NPDES (National Pollutant Discharge Elimination System) Permit, utilizing an operating budget of 5.29 million dollars.



Department of Public Works

65th Annual Operation Report

Page 36

The **A.J. LaRocca Wastewater Treatment Facility** located at 333 S. Villa Avenue is under the management of one supervisor, three certified wastewater operators and one maintenance worker.

Supervisor:	Mike Ryan
Chief Operator:	Howard Hill, Jr
Wastewater Operator 3	Brad Baxa
Wastewater Operator 3	Al Sral
Maintenance Worker II:	Mike Tovella

This facility is a 3.2 MGD (Million Gallons per Day) Secondary, Activated Sludge Plant with nitrification process and combined sewer overflow pumping/treatment capabilities.

(Design Population: 32,000 – Design Volume: 2,216 GPM / 3,200,000 GPD)

A.J. LaRocca Treatment Facility Design Data

Raw Sewage	2 – 50HP (1,900 GPM/each)	(2,736,000 GPD/each)
Pumping Capacity	3 – 40HP (1,900 GPM/each)	(2,736,000 GPD/each)
	1 – 40HP (2,500 GPM/each)	(3,600,000 GPD/each)
	Total: 12,000 GPM	Total: 17,280,000 GPD

Influent Design Parameters	Raw Sewage Biochemical (204 mg/L – 5,444 lbs./day)
	Oxygen Demand (305 mg/L – 8,140 lbs./day max.)
	Raw Sewage Suspended Solids (264 mg/L – 7,045 lbs./day)
	Raw Sewage Ammonia Nitrogen (20 mg/L – 534 lbs./day)

Preliminary Treatment	2 – Mechanical Screening Units (22.75" Wide X ½' Clear Opening, 4 MGD @ 2' Wide T.D.H.)
	1- Parkson Aqua Washpress Screenings compactor
	1 – Pista Grit Trap (205 GPM @ 41 T.D.H., Screw Conveyor, 5.0 MGD)
	1 – Aerated Grit Chamber (8.4 Min. Detention Time, 20 HP Motor – 250 GPM @ 55 T.D.H., 3.2 MGD)

Primary Treatment	1 – Circular Settling Tank
	Surface Area 5,024 Sq.Ft.
	Volume 50,240 Cu.Ft.
	Surface Settling Rate 637 Gal./Sq.Ft./Day
	Detention Time 2.8 Hours
	Weir Overflow Rate (248' of Weir) 12,903 Gal./Ft./Day
	B.O.D. Reduction 25% of 204 mg/L=155 mg/L
	Suspended Solids Reduction 50% of 264 mg/L=132 mg/L

Department of Public Works 65th Annual Operation Report

Page 37

First Stage Aeration Process A:	2-	Aeration Tanks (Volume Total: 55,944 Cu.Ft.) Detention Time 8.3 Hours Average B.O.D. Applied 1,532 Lbs./day Average B.O.D. Loading 7.4 Lbs./1,000 Cu.Ft.
First Stage Aeration Process B:	2-	Aeration Tanks (Volume Total: 67,500 Cu.Ft.) Detention Time 6.03 Hours Average B.O.D. Applied 2,552 Lbs./Day Average B.O.D. Loading 37.8 Lbs./1,000 Cu.Ft.
First Stage Settling Tanks - Process A:	1-	Two-Bay Tank (Volume Total: 19,200 Cu.Ft.) Surface Area Total 1,920 Sq.Ft. Surface Settling Rate 625 Gals./Sq.Ft./Day Detention Time 2.87 Hours Weir Overflow Rate (171' of Weir) 7,020 Gals./Ft./Day B.O.D. Reduction Suspended Solids Reduction 75% of 155 mg/L = 116 mg/L 38% of 132 mg/L = 50 mg/L
First Stage Settling Tanks - Process B:	2-	Flight/Chain Final Settling Tanks (Volume Total: 37,500 Cu.Ft.) Surface Area Total 3,750 Sq.Ft. Surface Settling Rate 533 Gals./Sq.Ft./Day Detention Time 3.27 Hours Weir Overflow Rate (344' of Weir) 5,814 Gals./Ft./Day B.O.D. Removal 75% of 155 mg/L = 116 mg/L Suspended Solids Removal 38% of 132 mg/L = 50 mg/L
Second Stage Aeration	2 -	Aeration Tanks (Volume Total: 76,500 Cu.Ft.) Detention Time 3.8 Hours Average B.O.D. Applied 1,068 Lbs./Day Average B.O.D. Loading 16 Lbs./1,000 Cu.Ft. AVG Ammonia Nitrogen Applied 534 Lbs./Day AVG Ammonia Nitrogen Loading 8 Lbs./1,000 Cu.Ft.
Second Stage Settling Tanks	2 -	Flight/Chain Final Settling Tanks (Volume Total: 63,000 Cu.Ft.) Surface Area Total 6,300 Sq.Ft. Surface Settling Rate 507 Gals./Sq.Ft./Day Detention Time 3.38 Hours Weir Overflow Rate (640' of Weir) 5,000 Gals./Ft./Day B.O.D. Removal 50% of 40 mg/L = 20 mg/L Suspended Solids Removal 50% of 50 mg/L = 25 mg/L Ammonia Nitrogen Removal 92.5% - 20 mg/L = 1.5 mg/L
Turbo Blower	1-	Blower @ 6270 CFM
Centrifugal Blowers	2 -	Blowers @ 6,100 CFM/each First Stage Aeration A 2,100 CFM First Stage Aeration B 3,200 CFM Second Stage Aeration 5,500 CFM Aerobic Digester A 800 CFM Aerobic Digester B 600 CFM Require 1,500 CFM/LF. B.O.D. Total Air Required 12,200 CFM

Department of Public Works 65th Annual Operation Report

Page 38

Aerobic Sludge Digesters A&B	Aerobic Digester A Volume	52,542 Cu.Ft.
	Aerobic Digester B Volume	29,700 Cu.Ft.
	Combined Total Volume	82,242 Cu.Ft.
	Volume Per Capita	2.57 Cu.Ft.
Anaerobic Sludge Digestion	1 - Circular First Stage Heated Digester Floating Cover, Gas Accumulator & Gas Mixing (Volume Total: 37,131 Cu.Ft.) (Volume Per Capita: 1.16 Cu.Ft.)	
	1 - Circular Second Stage Heated Digester Floating Cover & Gas Accumulator (Volume Total: 37,131 Cu.Ft.) (Volume Per Capita: 1.16 Cu.Ft.)	
Sludge Dewatering	18- Paved Bottom Sludge Drying Beds (Drying Area: 27,630 Sq. Ft.) (Area Per Capita: .86 Sq. Ft.)	
	Mechanical Sludge Dewatering Units 2 - (Unit 1&2 - Sized: 80" Belt) Hourly Capacity (@1.5% Feed Solids) 4,320 Gals. (551 lbs. - Dry Solids)	
Engine Generator	2 - Units (620 KW/each - 775 KWA/each) 933 AMPS/each Fuel - Diesel Fuel Storage - 10,000 Gallons	
Engine Generator Oak Knoll Pump Station	1- 150 KW - 185 KVA 225 AMPS Fuel - Natural Gas	
Chlorine Contact Tanks	2 - Rectangular Tanks (Volume: 31,600 Cu. Ft.) Detention @ 22.75 MGD - 15 Minutes	
	2 - Chlorine Units Unit 1 - Capacity: 100 lbs/day Unit 2 - Capacity: 500 lbs/day Chlorine Storage: 1 1-ton container = 2,000 Lbs.	
Dechlorination Facilities	1 - Rectangular (Volume: 6,000 gallons) Length - 25'6" Width - 8' Solution - Sulfur Dioxide Detention @ DAF - 2.70 Minutes	
CSO Pumping Station	3 - Influent Pumps (60 HP, 350 GPM/each = 15,120,000 GPD Max.) Design - 2 @ 10 MGD Total	
	2 - Mechanical Climber Screens 15 MGD 150#/Hr. - each Grit Removal & Washing 24,000 Gallons	

Department of Public Works 65th Annual Operation Report

Page 39

First Flush Tank	2 - Rectangular Tanks (69,300 Gallons/each = 138,600 Gallons/Total) 2 - (18,529 Cu.Ft.) Aspirator Pumps (25 HP/each - 230 GPM/each)
CSO Clarifiers	2 - Circular @ 80' Diameter (100,000 Cu.Ft.) (Volume Total: 750,000 gallons) Surface Settling Rate @ 10 MGD - 1,102 Gal./Sq.Ft./Day Surface Settling Rate @ 11.7 MGD - 1,163 Gal./Sq.Ft./Day
Chemical Building	Sludge Aeration Tank (12,500 gallons/1,671 Cu.Ft.) 200 - CFM Air Diffusion 3 - Diaphragm Pneumatic Transfer Pumps (70-140 GPM Variable)
Chemical Building (Continued)	1 - Centrifugal Transfer Pump (5HP @ 100 GPM) Sodium Hypochlorite Feed System (5,000-gallon Bulk Storage) (2 - Chemical Feed Pumps) (1-Neat: 0.1-315GPD) (1-Neat 0.1-912GPD) Non-Potable Water System (3 - Non-potable pumps: 75 GPM/each) (1 - AMIAD SAF-3000 200 Micron Filter)

Department of Public Works 65th Annual Operation Report

Page 40

During the 2025-2026 fiscal year, the AJL Wastewater Facility successfully completed several projects. An outside contractor replaced the climber screens components, and the Neuros blower underwent a maintenance and inspection program. In addition to these planned upgrades, staff addressed various unforeseen maintenance needs throughout the year, including replacing multiple non-potable water lines and air lines across the facility.



The climber screens are a vital component of our preliminary treatment process, as they efficiently remove rags and debris that could otherwise severely damage downstream equipment. The maintenance performed on the Neuros blower helps ensure the reliable delivery of air to our aeration and grit tanks. By maintaining optimal dissolved oxygen levels, we support the microbial activity necessary for effective solids reduction and high-quality water treatment.

Department of Public Works 65th Annual Operation Report

Page 41



Over the past year, the majority of the combined sewer system has been successfully separated, resulting in a noticeable reduction in plant flow during rain events. It's too early to fully assess the flow reduction but the initial results are positive. The staff has learned to do more with less and are making adjustments for the future. With sewer separation nearing completion, the facility will now shift its focus toward working with Trotter and Associates to map and plan for the eventual decommissioning of the plant, which represents the final phase of our multiphase consolidation project.

Department of Public Works 65th Annual Operation Report

Page 42

The **North Wastewater Treatment Facility** located at 711 N. Addison Road is under the management of one supervisor with a crew of two wastewater operators and two maintenance workers.

Supervisor:	Mike Ryan
Wastewater Operator 2:	Zach Saucier
Wastewater Operator 4:	Zach Froats
Maintenance Worker I:	Anthony Colorato
Maintenance Worker II:	Chris Nanak

This facility is a 5.3 MGD (Million Gallons per day) Secondary, Activated Sludge Plant with nitrification process and stormwater pumping/treatment capabilities.

(Design Flow: 5.30 MGD/DAF (Dry Weather): 7.60 MGD/DMF (Wet Weather))

North Wastewater Treatment Facility Design Data

Influent	Biochemical Oxygen Demand	155 mg/L = 6,850 Lbs./Day
	Suspended Solids	185 mg/L = 8,180 Lbs./Day
	Ammonia Nitrogen	15 mg/L = 660 Lbs./Day
Effluent	Biochemical Oxygen Demand	20 mg/L = 884 Lbs./Day
	Suspended Solids	25 mg/L = 1,105 Lbs./Day
	Ammonia Nitrogen	1.5 mg/L = 66 Lbs./Day
Raw Sewage Pumping Capacity	4 – Vertical Non-Clog Centrifugal Pumps - VFD (40 HP, 1,760 GPM/each – 10 MGD Total)	
Preliminary Treatment	2 – Mechanical Screening Units w/ Washer Compactor (2.10' Wide – 0.235" Clear Opening: 4.7MGD Capacity/each)	
	1 – Manual Bar Rack (1.25" Clear Opening)	
	1 – Aerated Grit Tank (2,120 Cu.Ft. Volume, 120 SCFM Air Requirement, 3.0 min. Detention Time @ 7.6 MGD)	
	Auger, Chain & Bucket Removal System w/Grit Washer	
Primary Settling	3 – Circular, Center-Feed, Peripheral Effluent Clarifiers	
	Diameter/Each	63'
	Sidewater Depth	10'
	Volume/Each	233,200 Gals. (31,176 Cu.Ft.)
	Detention Time @ 5.3 MGD	3.2 Hours
	Detention Time @ 7.6 MGD	2.2 Hours
	Surface Area/Each	3,120 Sq.Ft.
	SSR @ 5.3 MGD	567 GPD/Sq.Ft.
	SSR @ 7.6 MGD	813 GPD/Sq.Ft.
	Weir Length/Each	198 Linear Ft.
	Weir Overflow @ 7.6 MGD	12,800 GPD/Linear Ft.

Department of Public Works 65th Annual Operation Report

Page 43

	4 - Pneumatic Diaphragm Pumps	
	Size: 4"	
	Capacity: 150 GPM	
First Stage Aeration	4 - First Stage Aeration Basins	
	Length	135'
	Width	30'
	Depth	15'
	Volume/Each	454,500 Gals. (60,600 Cu.Ft.)
	Detention Time @ 5.3 MGD	8.2 Hours
	B.O.D. Loading	40 lbs. B.O.D. (1,000
	Oxygen Transfer Efficiency	Cu.Ft./Day)
		12% (Clear Water)
Second Stage Aeration	2 - Second Stage Aeration Basins	
	Length	135'
	Width	30'
	Depth	15'
	Volume/Each	454,500 Gals. (60,600 Cu.Ft.)
	Detention Time @ 5.3 MGD	4.0 Hours
	B.O.D. Loading	7 lbs. B.O.D. (1,000 Cu.Ft./Day)
	Oxygen Transfer Efficiency	12% (Clear Water)
Centrifugal Blowers	4 - Aeration Blowers (2,600 CFM/each)	
	First Stage Aeration: 2,496 CFM	
	Second Stage Aeration: 2,496 CFM	
	3 - Channel Air Blowers (2,050 CFM/each)	
	3 - Aerobic Digester Blowers (2,050 CFM/each)	
	Aerobic Digestion: 2,600 CFM	
Intermediate Settling Tanks	3 - 65' Diameter, Peripheral Feed and Effluent	
	Sidewater Depth	12'
	Volume/Each	297,900 Gals. (39,826 Cu.Ft.)
	Detention Time @ 5.3 MGD	4.0 Hours
	Detention Time @ 7.6 MGD	2.8 Hours
	Surface Area/Each	3,320 Sq.Ft.
	SSR @ 5.3 MGD	532 GPD/Sq.Ft.
	SSR @ 7.6 MGD	763 GPD/Sq.Ft.
	Weir Length/Each	204 Linear Ft.
	Weir Overflow @ 5.3 MGD	8,660 GPD/Linear Ft.
	Weir Overflow @ 7.6 MGD	12,400 GPD/Linear Ft.
Final Settling Tanks	4 - 65' Diameter, Peripheral Feed and Effluent	
	Sidewater Depth	12'
	Volume/Each	297,900 Gals. (39,826 Cu.Ft.)
	Detention Time @ 5.3 MGD	5.4 Hours
	Detention Time @ 7.6 MGD	3.8 Hours
	Surface Area/Each	3,320 Sq.Ft.
	SSR @ 5.3 MGD	399 GPD/Sq.Ft.
	SSR @ 7.6 MGD	573 GPD/Sq.Ft.
	Weir Length/Each	204 Linear Ft.
	Weir Overflow @ 5.3 MGD	6,495 GPD/Linear Ft.
	Weir Overflow @ 7.6 MGD	9,300 GPD/Linear Ft.

Department of Public Works 65th Annual Operation Report

Page 44

Chlorination Facilities	2 – Rectangular	Length	49'
		Width	15'
		Depth	12'
		Volume/Each	64,600 Gals. (8,636 Cu.Ft.)
		Detention Time @ 12.1 MGD	15 Minutes
		Chlorine Requirement:	
		(Dry Weather @ 5.3 MGD)	6 mg/L – 265 Lbs./Day
		(Wet Weather @ 4.5 MGD)	8 mg/L – 300 Lbs./Day
Dechlorination Facilities	1 – Rectangular	Length	25'
		Width	8'
		Volume	6,000 Gallons
		Detention Time	1.6 Minutes @ DAF
		Solution	Sulfur Dioxide
Anaerobic Sludge Digestion	3 – 45' Circular Digesters (2 Mixed & 1 Storage)	Sidewater Depth	20'
		Volume/Each	31,793 Cu.Ft.
		VSS Loading (Mixed)	63 Lbs./1,000 Cu.Ft.
		Per Capita Loading	1.6 Cu.Ft./Capita
		VSS Destruction	55%
		Solids to Disposal	3,118 Lbs./Day
		Solids Retention Time (Mixed)	30 Days
		Storage Capacity @ 5% TS	63 Days
		Gas Yield (15 Cu.Ft./lbs.	32,800 Cu.Ft./Day
		VSS Destroyed)	
		Gas Production	.81 Cu.Ft./Capita/Day
		Heat Value (566 BTU/Cu.Ft.)	18.6 Million BTU/Day
Aerobic Digestion	1 – Circular (Divided into four equal Quadrants)	Volume Total	86,400 Cu.Ft.
		VSS Loading	0.02 Lbs./Cu.Ft./Day
		Per Capita Volume	2.14 Cu.Ft./Capita
		Solids to Disposal	1,700 Lbs./Day
		Solids Retention Time	70 Days
		Air Required	2,600 SCFM
Sludge Dewatering Facilities	2 – Belt Filter Presses (2 Meters Wide/Each)	Total Solids per Day	4,814 Lbs.
		Loading Aerobic	400 Lbs./Hour/Meter
		Loading Anaerobic	900 Lbs./Hour/Meter
		Cake Volume @ 18% TS	124 Cu.Yds./Weed

Department of Public Works 65th Annual Operation Report

Page 45

Excess Flow Facilities

Pump Station

3 – Wet Well Variable Speed

Submersible Pumps

Capacity/Each: 6,800 GPM

Station Capacity (2 Pumps): 13.6 MGD

First Flush Storage – Aerated Circular Tank

Capacity: 670,400 Gals. (89,626 Cu.Ft.)

Detention Time @ 1.62 MGD: 10 Hours

Excess Flow Settling – One Circular

Diameter: 81'

Sidewater Depth: 10.5'

Surface Area: 5,150 Sq.Ft.

SSR @ 1.62 MGD: 315 GPD/Sq.Ft.

SSR @ 4.50 MGD: 874 GPD/Sq.Ft.

Department of Public Works 65th Annual Operation Report

Page 46

Operation Data

Raw Sewage Flow/Cost

<u>Location</u>	<u>Gallons Receiving Secondary Treatment</u>	<u>Daily Average Flow</u>	<u>Monthly Flow Rate</u>	
			<u>Maximum MGD</u>	<u>Minimum MGD</u>
A.J. LaRocca Facility	653,430,000	1,790,000	3.008	0.974
North Facility	1,075,679,000	2,947,000	4.344	1.421
Combined Total	1,729,109,000	4,737,000	7.352	2.395

Excess Flow Facilities

<u>Location</u>	<u>Total Gallons Treated</u>	<u>Average BOD</u>	<u>Average Suspended Solids</u>
A.J. LaRocca Facility	3,150,000	19.76 mg/L	33.2 mg/L
North Facility	10,750,000	3.27 mg/L	15.5 mg/L
Combined Total/Average	11,065,000	Avg = 11.52 mg/L	Avg = 24.35 mg/L

Electrical Consumption

<u>Location</u>	<u>Average Daily KWH Used</u>	<u>Total KWH Used</u>	<u>True Cost KWH</u>	<u>Total Cost</u>
		<i>T3 & Main</i>		
A.J. LaRocca Facility	5,235.26	1,905,635.44	0.0839	\$160,080.80
North Facility	9,214.03	3,353,907.58	0.0827	\$276,643.71
Combined Total	14,449.29	5,259,543.02	0.0833	\$436,724.61

Natural Gas Consumption

<u>Location</u>	<u>Average Therms Use - Daily</u>	<u>Total Therms Used</u>	<u>True Cost Therm</u>	<u>Total Cost</u>
A.J. LaRocca Facility	96.20	35,114.68	\$0.517	\$22,039.97
North Facility	165.16	60,283.44	\$0.481	\$35,754.17
Total	261.36	95,398.16	\$0.499	\$57,794.14

Treatment & Related Costs

Carbonaceous Biochemical Oxygen Demand - 5 days @ 20 Degrees C mg/L

<u>Location</u>	<u>Average RAW</u>	<u>Average Effluent</u>	<u>Permit Required Effluent</u>	<u>% of BOD Removed</u>	<u>Total Lbs. BOD Removed</u>
AJL Facility	190.50 mg/L	2.60 mg/L	20 mg/L	98.6%	1,023,855
North Facility	254.00 mg/L	3.30 mg/L	20 mg/L	98.6%	2,249,020
Average/Total	222.25 mg/L	3.00 mg/L	20 mg/L	98.6%	3,272,875

Department of Public Works 65th Annual Operation Report

Page 47

Total Suspended Solids mg/L

<u>Location</u>	<u>Average RAW</u>	<u>Average Effluent</u>	<u>Permit Required Effluent</u>	<u>% of SS Removed</u>	<u>Total Lbs. SS Removed</u>
AJL Facility	169.5 mg/L	4.4 mg/L	25 mg/L	97.4%	899,619
North Facility	220.3 mg/L	5.3 mg/L	25 mg/L	97.6%	1,928,756
Average/Total	194.9 mg/L	4.85 mg/L	25 mg/L	97.5%	2,828,375

Chlorination Final Effluent

<u>Location</u>	<u>Total Lbs. Cl2 Used</u>	<u>Average Lbs/Day</u>	<u>Average mg/L Residual</u>	<u>Avg. Fecal Colonies 100 M/L</u>	<u>Total \$ Cl2</u>
AJL Facility	446	21	0.02	1.3	\$509.00
North Facility	8,755	48	0.02	1.7	\$11,420.00
Average/Total	9,201	35	0.02	1.5	\$11,929.00

*** DISINFECTION is seasonal and occurs only during the months of May thru October, as per IEPA permit.**

<u>Sodium Hypochlorite</u>	<u>Gallons</u>	<u>Average Gals/Day</u>	<u>Total \$</u>
AJL Facility	4,963	30	\$8,234

Dechlorination Final Effluent

<u>Location</u>	<u>Total Lbs. SO2 Used</u>	<u>Average Lbs/Day</u>	<u>Total \$ SO2</u>
AJL Facility	2,536	14	\$1,851.00
North Facility	3,239	17.0	\$2,922.00
Average/Total	5,775	15.5	\$4,773.00

Ammonia Nitrogen as N - mg/L Peak Flow Average

<u>Location</u>	<u>Average RAW</u>	<u>Average Effluent</u>	<u>Permit Required mg/L Effluent</u> Monthly/Daily Average/ Max	<u>% of NH3 Removed</u>	<u>Total Lbs. NH3 Removed</u>
<u>AJL Facility</u>					
Summer	20.94 mg/L	0.159 mg/L	1.5/3.0	99.4%	56,617
Winter	17.55 mg/L	0.102 mg/L	4.0/8.0	99.2%	47,536
<u>North Facility</u>					
Summer	21.01 mg/L	0.049 mg/L	1.5/3.0	99.8%	94,020
Winter	17.97 mg/L	0.107 mg/L	4.0/8.0	99.4%	80,124
Yr. Avg/Total	19.37 mg/L	0.104 mg/L	----	99.5%	278,297

Department of Public Works 65th Annual Operation Report

Page 48

Land Applied Sludge (Liquid)

<u>Location</u>	<u>Gallons Aerobic</u>	<u>% Solids Aerobic</u>	<u>Gallons Anaerobic</u>	<u>% Solids Anaerobic</u>	<u>Sludge Hauled</u>	<u>\$ Per Gallon</u>	<u>Total \$ Liquid Applied</u>
North Facility	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -

Land Applied Sludge (Solid)

<u>Belt Presses</u>	<u>Gallons Aerobic to Press</u>	<u>Average % Feed Solids</u>	<u>Average % Cake Solids</u>	<u>Total Cu. Yds. Removed</u>	<u>Cost Cu. Yds. Removed</u>	<u>Cost Press (Aerobic Disposal)</u>
North Facility	5,374,548	1.41	12.74	3000	\$30.25	\$90,750.00
	<u>Gallons Anaerobic to Press</u>	<u>Average % Feed Solids</u>	<u>Average % Cake Solids</u>	<u>Total Cu. Yds. Removed</u>	<u>Cost Cu. Yds. Removed</u>	<u>Cost Press (Anaerobic Disposal)</u>
	1,025,636	5.16	22.54	1600	\$30.25	\$48,400.00
<u>Drying Beds</u>	<u>Gallons Applied to Beds</u>	<u>Average % Solids</u>	<u>Cu. Yds. Removed from Beds</u>	<u>Cost Cu. Yds. Removed</u>	<u>Total Cost</u>	
AJL Facility	856,828	1.68	913	\$35.20	\$32,137.00	
North Facility	- 0 -	- 0 -	- 0 -	- 0 -	- 0 -	

Total Land Applied Sludge

	<u>Quantity</u>	<u>Cost</u>
Total gallons liquid removed Land Application	- 0 -	- 0 -
Total cost liquid Land Application	- 0 -	- 0 -
Total Cu. Yds. Semi-Solid Land Application	5,513	-
Total Cost Semi-Solid Land Application	-	\$171,287.60

Sludge Transfer

A.J. LaRocca Facility to North Facility	Gallons Aerobic:	348,000
	% Solids	1.44%
	Gallons Anaerobic	708,000
	% Solids	4.15%
	Transfer Cost	\$23,780.00

Department of Public Works 65th Annual Operation Report

Page 49

Sludge Removal & Related Costs - Landfill

Landfill Sludge

	<u>Gallons to Press</u>	<u>Average % Feed Solids</u>	<u>Average % Cake Solids</u>	<u>Total Cu. Yds. Removed</u>
North Facility				
Aerobic	- 0 -	- 0 -	- 0 -	- 0 -
(Belt Press)				
Anaerobic	- 0 -	- 0 -	- 0 -	- 0 -

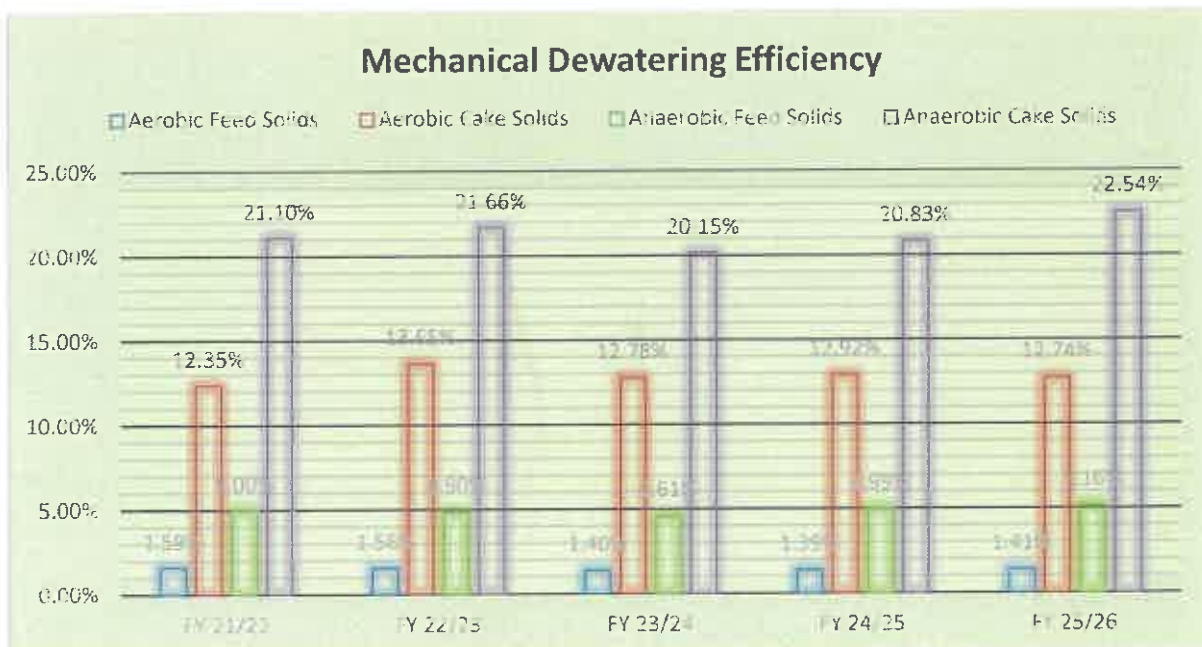
	<u>Gallons Applied to Beds</u>	<u>Average % Solid SS</u>	<u>Cu. Yds. Removed</u>	<u>Cost Cu. Yds. Removed</u>	<u>Total Cost</u>
AJL Facility					
(Drying Beds)	- 0 -	- 0 -	- 0 -	- 0 -	0.00

North Facility Landfill Costs

<u>Press to Landfill Total Cu. Yds.</u>	<u>Total Landfill Cost</u>
- 0 -	0.00

Total Sludge Removal Costs

<u>Total Land Application Costs</u>	<u>Total Landfill Costs</u>	<u>Total Transfer Costs</u>	<u>Total Sludge Removal Costs</u>
\$171,287.60	- 0 -	\$23,780.00	\$185,067.60



**Lab & Tech
Services/
Environmental
Concerns**

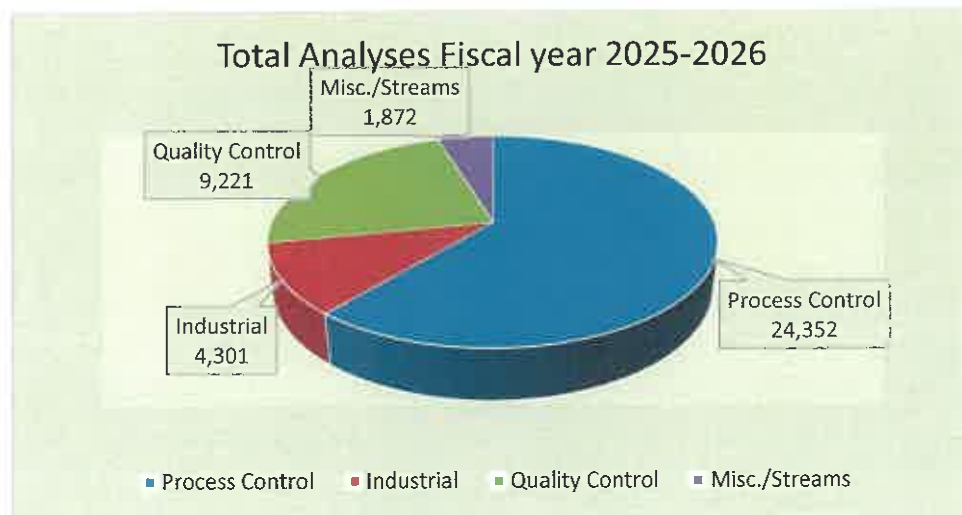
Department of Public Works 65th Annual Operation Report

Page 50

Laboratory and Technical Services

The Laboratory and Technical Services Division of Environmental Services is located at the North Wastewater Treatment Facility. The division performs the analyses required for process control and compliance for both the Wastewater Treatment facilities and Addison's industrial-commercial programs. In addition, the division provides technical support for the creation, testing, and enforcement of local environmental regulations. These regulations include air pollution (particulates), noise pollution, and land pollution. The division also assists with the use and implementation of Geographic Information Systems (GIS), recycling programs, and Public Works special waste disposal. The Lab Supervisor, two Lab Technicians, and two Compliance Inspectors maintain an extensive daily schedule to provide these services and ensure compliance with state and federal regulations.

Lab Supervisor:	Junior Rivera
Lab Tech III:	Chris Reynolds
Lab Tech III:	Dianne Burdorf
Compliance Inspector:	Nichole Sagan
Pretreatment Inspector:	Austin Ferris



Process Control:

Routine plant monitoring and required NPDES parameters performed on a weekly schedule, including excess flow monitoring, belt press analysis, stream monitoring, and other process monitoring.

Industrial Pretreatment:

Monitoring related to our Industrial Pretreatment Program. The related requirements of various permit Special Conditions.

Quality Control: assurance

All analytical data generated to meet the goals of our quality

Department of Public Works 65th Annual Operation Report

Page 51

Analytical Parameters

Alkalinity – The capacity of water to neutralize acids measured in milligrams of equivalent calcium carbonate per liter.

Ammonia Nitrogen – The quantity of elemental nitrogen present in the form of ammonia (NH₃) expressed in milligrams per liter.

Biochemical Oxygen Demand (BOD) – A measure of the quantity of oxygen required for the biochemical oxidation of organic matter in a specified time, at a specific temperature, and under specified conditions in milligrams per liter.

Carbonaceous BOD (CBOD) – A measure of the amount of oxygen required for the biological oxidation of carbon-containing compounds.

Chemical Oxygen Demand (COD) – A quantitative measure of the amount of oxygen required for the chemical oxidation of organic material expressed in milligrams per liter.

Chloride – A measure of the chloride ion present in the sample expressed in milligrams per liter

Chlorine Residual (Cl₂ Residual) – The amount of chlorine in all forms remaining in water after treatment to ensure disinfection, measured in milligrams per liter.

Chromium-Hexavalent – The method is used to measure the concentration of dissolved hexavalent chromium in milligrams per liter.

Cyanide (TOTAL) – The measurement of the toxin that contains simple or complex compounds which can be determined as the cyanide ion CN⁻. Available cyanide recovers weak to moderately strong metal-cyanide complexes.

Dissolved Metals – Metals present in an unacidified sample that passes through a 0.45-micron membrane filter.

Dissolved Oxygen (DO) – The quantity of oxygen in water expressed in milligrams per liter. All process control DOs are measured by plant operators.

Fecal Coliform – The rod-shaped bacteria discharged from the intestinal tract of warm-blooded animals. These bacteria are calculated by adding a nutrient indicator and observing the color change produced by the fecal coliforms. Counts are determined after disinfection per 100 ml of sample.

Fluoride – The measurement of the fluoride ion concentration in milligrams per liter.

Hardness – Sum of the Calcium and Magnesium concentrations, reported in milligrams per liter.

Metals (TOTAL) – The concentration of metals determined, after vigorous acid digestion, by optical emission spectroscopy. Currently, the lab analyzes for 21 metals and a couple of nutrients.

Microscopic Examination (MICRO) – The use of a microscope to perform a thorough examination of the diversity of the micro life found in the treatment process.

Oil and Grease (FOG) – A gravimetric determination of all materials recovered as a substance soluble in n-Hexane. These materials interfere with the biological processes at a wastewater treatment facility. Results are expressed as milligrams per liter

Phosphorus (P)/Ortho Phosphate (PO₄) – Phosphorus levels are determined by two methods: Optical Emission Spectroscopy (total P) and colorimetric (PO₄).

pH – A measure of the hydrogen ion concentration in a solution. On a pH scale (0-14), a value of 7.0 indicates a neutral condition. Decreasing values indicate acidity; increasing values indicate alkalinity.

Department of Public Works 65th Annual Operation Report

Page 52

Analytical Parameters - Continued

Settleable Solids - The matter in wastewater that will not stay in suspension during a pre-selected settling time, but settles to the bottom.

Specific Oxygen Uptake Rate (SOUR) - indicates how efficiently the biomass is metabolizing the sludge.

Temperature - The thermal state of a substance with respect to its ability to transmit heat.

Total Suspended Solids (TSS) - The portion of solids in a sample retained by a filter and dried to a constant weight at 104 degrees centigrade.

Total Solids (TS) - The residue left after evaporation of a sample dried to a constant weight at 104 degrees centigrade.

Volatile Solids (VS) - Materials generally organic that are driven off from a sample by heating to 550 degrees centigrade.

Volatile Acids - Water-soluble fatty acids are separated in the sample by distillation. This is a routine control test for anaerobic digesters.

Laboratory Analyses

Out of the total 39,746 analyses performed this fiscal year, 23.2 % were specific to Laboratory Quality Control.

Quality Control Averages:

NPDES Parameter	Acceptance				
BOD	Relative % Difference of Duplicates	9.0 %	-20 %	-	20 %
	Recovery of Control Standard	105.7 %	80 %	-	120 %
TSS	Relative % Difference of Duplicates	5.8 %	-20 %	-	20 %
	Matrix Spike Recovery	106.2 %	80 %	-	120 %
	Recovery of Control Standard	99.0 %	80 %	-	120 %
NH3-N	Relative % Difference of Duplicates	2.5 %	-20 %	-	20 %
	Matrix Spike Recovery	94.0 %	80 %	-	120 %
	Recovery of Control Standard	100.3 %	80 %	-	120 %
pH	Relative % Difference of Duplicates	0.62 %	-10 %	-	10 %

Department of Public Works 65th Annual Operation Report

Page 53

	Process Control	Industrial	Quality Control	Misc./Streams	Total
Alkalinity	199	0	72	12	283
Ammonia Nitrogen	1577	65	434	36	2,112
BOD	328	338	434	0	1,100
CBOD	777	0	96	36	909
Chloride	48	0	48	12	108
Chromium-Hex	16	0	16	0	32
Cyanide- Total	44	35	40	0	119
Dissolved Oxygen	3456	0	0	36	3492
Fecal	116	4	36	36	192
Fluoride	72	0	36	12	120
FOG	194	183	76	36	489
Hardness	0	0	24	36	60
Metals (Total)	7,055	2,703	6,375	756	16,889
Metals (Dissolved)	1,064	0	0	756	1,820
Micro	53	0	0	0	53
pH	1,765	419	613	36	2,833
Potassium	20	0	48	0	68
Settability	1469	0	0	0	1469
SOUR	4	0	0	0	4
Temp	748	419	0	36	1,203
TSS	3,264	135	711	36	4,146
Volatile Acids	159	0	54	0	213
%TS	1,227	0	54	0	1,281
%VS	697	0	54	0	751
Total Analyses	24,352	4,301	9,221	1872	39,746

Department of Public Works 65th Annual Operation Report

Page 54

Industrial Pretreatment Program

Established in 1984 under Clean Water Act provisions as part of a Federal grant to upgrade the North Wastewater Treatment Facility, the Village of Addison's Industrial Pretreatment Program plays a critical role in safeguarding local environmental health and municipal infrastructure.

Currently, the program oversees approximately 1,180 commercial and industrial facilities to maintain safe pollutant limits. Of these, thirty-two (32) significant industrial users operate under a formal Village Discharge Permit, which establishes specific effluent limits, mandates sampling and reporting protocols, and enforces strict regulatory compliance. Since the program's inception, these oversight efforts have driven significant reductions in influent pollutant levels across both municipal treatment plants, protecting utility worker safety and ensuring uninterrupted plant operations.

Influent Pollutant Concentrations A.J. LaRocca Facility

<u>Pollutant</u>	<u>1984</u>		<u>2025-2026</u>		<u>% Reduction</u>
Cadmium	0.056 mg/L		0.001 mg/L		98.2%
Chromium	0.319 mg/L		0.016 mg/L		95.0%
Copper	1.28 mg/L		0.067 mg/L		94.8%
Lead	0.169 mg/L		0.018 mg/L		89.3%
Nickel	0.129 mg/L		0.020 mg/L		84.5%
Zinc	0.827 mg/L		0.123 mg/L		85.1%
Cyanide	2.01 mg/L		0.009 mg/L		99.6%
Oil & Grease *	49.0 mg/L		29.5 mg/L		39.8%

* Oil & Grease data from 1988, first year of restaurant grease trap monitoring program.

Financially, the program generated \$233,000 this fiscal year through industrial and restaurant monitoring fees, surcharges, and legal penalties.

Over the past year, staff partnered with local businesses to advance proactive pollution prevention. Working directly with permitted industries, staff conducted process flow evaluations, facility inspections, waste-hauling oversight, and

routine sampling to identify key strategies to reduce effluent metal and other pollutant concentrations. In the commercial sector, staff routinely inspected restaurant grease traps and conducted semiannual post-trap wastewater sampling and analysis. These targeted efforts significantly reduced fats, oils, and grease (FOG) entering the collection system, safeguarding infrastructure against main blockages and protecting biological processes at the treatment facilities.

Beyond wastewater management, the program monitors storm sewers and local waterways for non-point source pollutants from runoff. This work forms a key component of a regional initiative to improve watershed health while maintaining full compliance with Illinois EPA (IEPA) stormwater

Influent Pollutant Concentrations North Facility

<u>Pollutant</u>	<u>1984</u>		<u>2025-2026</u>		<u>% Reduction</u>
Cadmium	0.271 mg/L		0.001 mg/L		99.6%
Chromium	0.35 mg/L		0.010 mg/L		97.1%
Copper	0.587 mg/L		0.086 mg/L		85.3%
Lead	0.129 mg/L		0.018 mg/L		86.0%
Nickel	0.294 mg/L		0.014 mg/L		95.2%
Zinc	3.00 mg/L		0.165 mg/L		94.5%
Cyanide	1.68 mg/L		0.009 mg/L		99.5%
Oil & Grease *	53.0 mg/L		16.1 mg/L		69.6%

* Oil & Grease data from 1988, first year of restaurant grease trap monitoring program.

Department of Public Works 65th Annual Operation Report

Page 55

permit mandates. Additionally, staff assists with broader environmental concerns related to air, land, and noise pollution under the local Sewer Use Ordinance.

Ultimately, the Industrial Pretreatment Program remains one of the Village's most effective tools for optimizing wastewater treatment performance and supporting the long-term environmental health of Addison's commercial and industrial communities.

Laboratory Upgrade

The laboratory performs critical analytical testing for our wastewater treatment operations and industrial pretreatment program. During this fiscal year, we replaced the existing laboratory glassware washer due to ongoing operational unreliability. To prevent disruptions to testing workflows, a replacement unit was purchased immediately.



Designed to deliver zero analytical interference, the high-performance laboratory glassware washer features direct-injection spindles for deep-cleaning narrow-neck flasks and BOD bottles. Reaching cleaning temperatures of up to 200°F, the unit ensures thorough decontamination across all laboratory testing.

Department of Public Works

65th Annual Operation Report

Page 56

Village of Addison Recycling Program

The Solid Waste Planning and Recycling Act – Public Act 85-1198 SB (1616) reads that all counties were to prepare, adopt, and implement a solid waste management plan to include a recycling program which would require solid waste diversions of at least 15% in the third year and 25% in the fifth year of a five-year plan. This would include separation of landscape waste and composting and may require residents of the county to separate recyclables. Public Act 85-1430 SB (1599) stated no person may place landscape waste for landfill disposal, landscape waste must be in a biodegradable container, and that the landfills compost the landscape waste and used for vegetative cover or soil conditioner.

Addison, in conjunction with our waste hauler, Republic Services, held two recycling events during 2025-2026 for Addison residents to recycle electronics, cardboard, scrap metal, eyeglasses, hearing aids, American flags, keys, books, musical instruments and document shredding.

**Sewer
Division**

Department of Public Works 65th Annual Operation Report

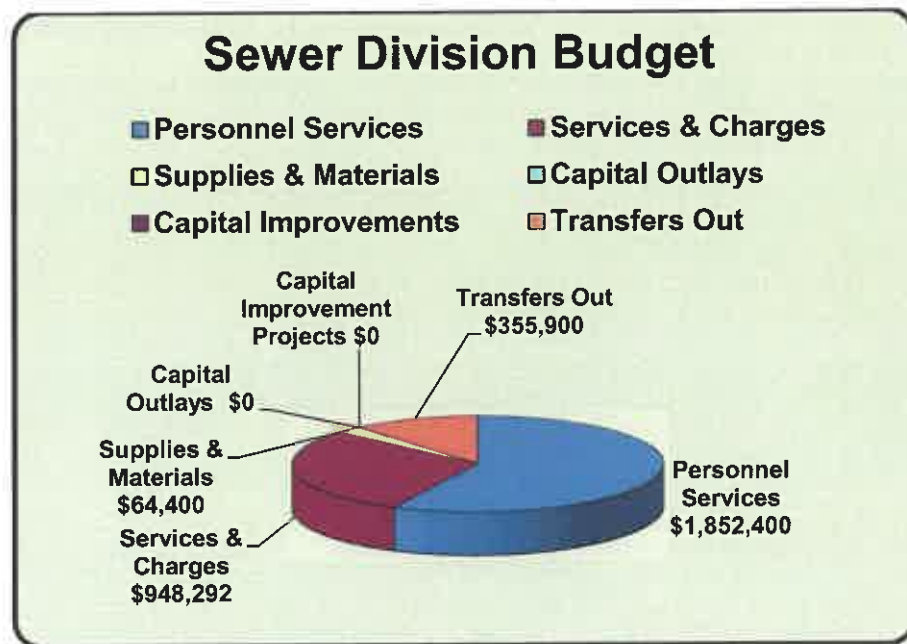
Page 57

Sewer Division

The Sewer Division is responsible for the operation and maintenance of all sanitary and storm sewer collection and conveyance systems and related pumping facilities within the corporate limits. Responsibilities also include sanitary sewer infiltration and inflow mitigation, elimination of detrimental industrial discharges and rear yard drainage issues.

These duties are accomplished by a crew of one foreman, and six maintenance workers.

Foreman:	Sean Quinn
Maintenance Worker III:	Jim Rhoads
Maintenance Worker II:	Andy Ancy Clois Wayne Doron, Jr. Nick Pentrelli
Maintenance Worker I:	John Baczek Kevin Cabral



Department of Public Works

65th Annual Operation Report

Page 58

Within its boundaries the Village has over 121 miles of sanitary sewer of various sizes to include 2,500 manholes structures. The design of the system also mandates that eleven lift stations be employed to elevate the waste due to topography differences.

<u>Lift Station</u>	<u>Address</u>	<u>Design Capacity</u>
Ellsworth	737 Ellsworth Avenue	600 GPM
Farmwood	910 Surrey Road	193 GPM
Foxdale	1436 Autumn Trail	236 GPM
Friars Cove	215 Kingston North	250 GPM
Fullerton Avenue	505 West Fullerton	300 GPM
Harvard Avenue	701 South Harvard	478 GPM
Kingery West	895 E Fullerton	103 GPM
Oak Knoll	233 S Villa	803 GPM
OPUS	2160 Executive Drive	300 GPM
Route 53	145 Route 53	50 GPM
Westridge	1274 Itasca Road	300 GPM

Also, within the Village boundaries there are 73 miles of storm sewer of various materials and sizes. This system has 1,400 manholes and over 2,200 inlets of various types. As all storm conveyance systems discharge into an open waterway (Salt Creek, Westwood Creek, or DuPage River), this Division maintains three storm water pumping stations and one dam and pump station.

<u>Pumping Station</u>	<u>Address</u>	<u>Design Capacity</u>
Diversey Avenue	7 South Villa Avenue	142,000 GPM
Myrick Avenue	9 South Villa Avenue	14,000 GPM
Farmwood Storm	Heather Court	25,000 GPM
Westwood Creek Dam/Pump	715 North Addison Road	225,000 GPM

Department of Public Works 65th Annual Operation Report

Page 59

Services Provided by the Sewer Division

		<u>FY 22-23</u>	<u>FY 23-24</u>	<u>FY 24-25</u>	<u>FY 25-26</u>
1.	Residential Service Requests (Blockages/Flooding)	388	388	282	372
2.	Excavations of Residential Laterals (Tree Root Intrusion)	41	41	44	46
3.	Residential Laterals Electrically Rodded and/or Televised (Tree Root Intrusion)	1,569	1,569	1,149	1,008

Services Provided by the Sewer Division - Continued

		<u>FY 22-23</u>	<u>FY 23-24</u>	<u>FY 24-25</u>	<u>FY 25-26</u>
4.	Rear Yard Drainage Systems Installed	4	4	4	3
5.	Lineal Feet of Storm Sewer Flushed and Cleaned	67,424	117,520	96,500	78,558
6.	Catch Basins & Curb Inlets Cleaned (Vacuum Cleaned)	398	668	535	376
7.	Cubic Yards of Debris Removed	325	300	350	250
8.	Lineal Feet of Sanitary Sewer Flushed & Cleaned	495,425	698,101	779,982	585,033
9.	Lineal Feet of Combined Sewer Flushed & Cleaned	40,100	32,500	32,500	11,200
10.	Combined Sewer Inlets (Cubic Yards of Debris Removed)	5	4	3	2

Resident Request Responses

Each property is connected to the Village sanitary sewer via a 6-inch underground pipe called a “lateral.” These laterals are the responsibility of the Village of Addison up to the outer edge of the public sidewalk. Flows can become compromised or blocked due to several issues.

Common causes for sewer backups are blockages caused by misuse – paper products, grease or non-biodegradable objects put into the system. Another problem is tree root intrusion into the lateral through leaking joints or failed pipe. If the offending tree is on Village property (Village of Addison Right-of-Way) the Village will rectify the blockage.

Geographic Information Systems (GIS)

The Sewer Division is also responsible for collecting utility data as part of the Village of Addison’s Geographic Information System (GIS) mapping program. The Division collects the exact location of sewer structures, such as manholes and curb inlets, through the use of handheld satellite GPS units.

The collection of data helps to create more accurate maps of the Village’s sewer utilities, and allows for the integration of powerful database information into a digital mapping system.

Projects

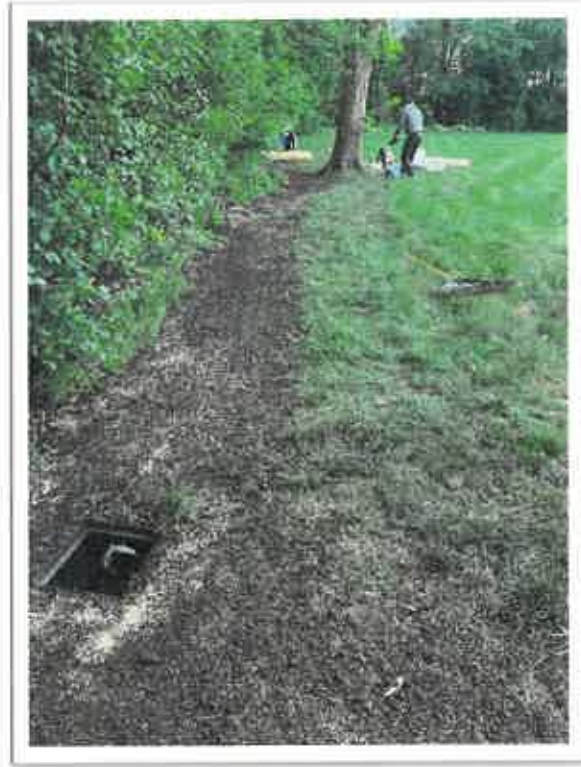
Phase Two of the Sewer Separation Project continued with the separation for the combined sewers in the Home Addition area. Approximately 5.5 miles total have been separated in the past three (3) years.



Department of Public Works 65th Annual Operation Report

Page 62

Rear yard drainage systems are installed in town where there is an easement for the Village to work on and the homeowner is experiencing severe flooding concerns. This installation at 201 N. Catalpa St. will help alleviate standing water along the rear easement.



Department of Public Works 65th Annual Operation Report

Page 63

DAPS wet well was cleaned out. Approximately 35 yards of debris were removed. This well houses 6 total pumps that convey storm water from the east side of town into Salt Creek.



The Village replaced a damaged right-angle drive on one of the diesel pumps at DAPS that conveys approximately 33,000 gpm. DAPS station pumps storm water from the east side of town into Salt Creek.

