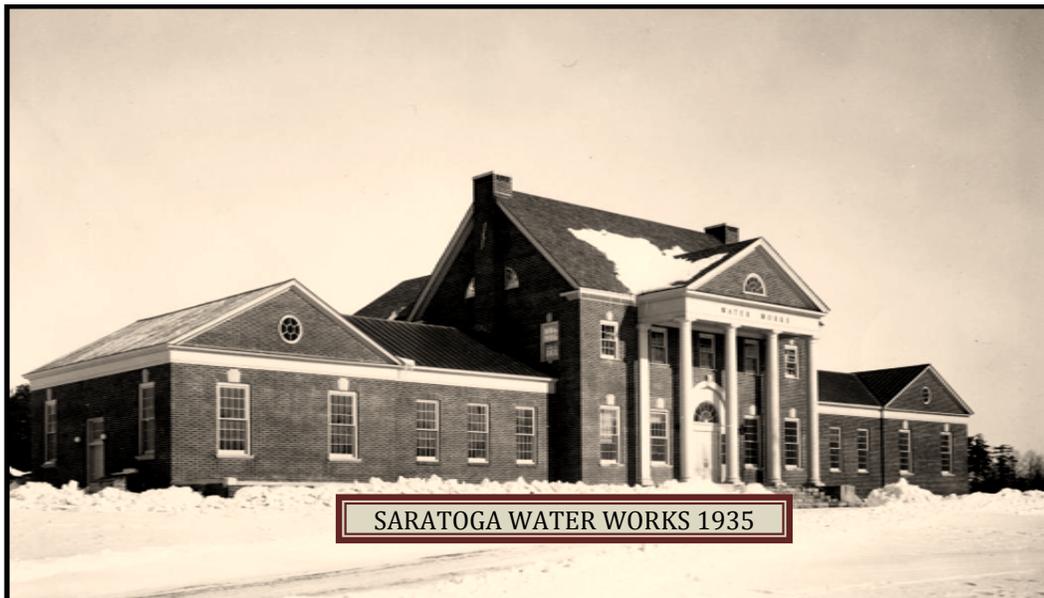
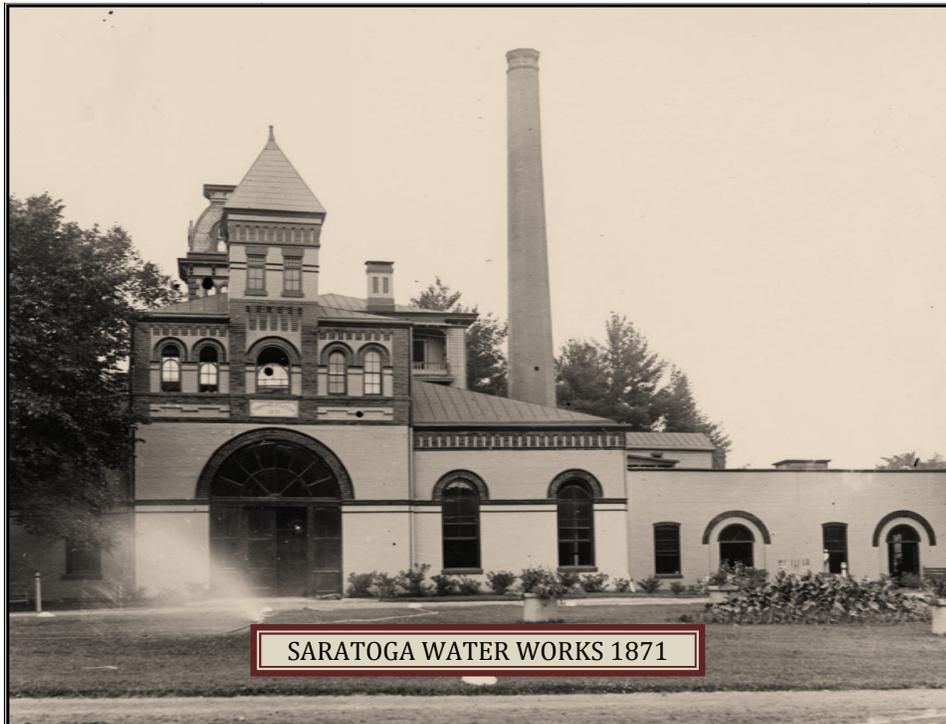




City of Saratoga Springs
Department of Public Works
2013 Annual Report

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Health * History * Horses

See inside cover for explanation of photographs

A Note About The Cover

(Cover photographs courtesy of the George S. Bolster Collection of the History Museum)

In his 2009 story published in the Saratoga Living magazine, titled "How Water Works", Field Horne shared some interesting history about the Saratoga Springs public water supply. The article included the following information:

- Located on a plateau far from a river of any size, the City's need for water demanded inventive approaches from government and private entrepreneurs. In the early days, the "Upper Village" near the present Courtyard by Marriott Hotel, depended on a pump at the corner of Catherine and North Circular Streets as late as the Civil War era. Water was stored in a stone cistern and hauled to homes in a one-horse rig.
- In 1820s the "Lower Village" (downtown) benefitted from the damming of Village Brook near Lake and Maple Avenues. In 1832 Dr. John Clarke equipped Congress Spring with a water wheel and pump. He built a 50 ft high water tower in the park which flowed by gravity through log pipes to homes and businesses close by. (DPW occasionally comes across some of these log water lines, some which are still in use.)
- By the mid 1800's Saratoga was filled with 6 and 7 story wooden hotels lit by gas lamps and fires were a serious problem. It wasn't until 1865 that a real solution was found when the editor of *The Saratogian* proposed the idea to dam Loughberry Creek which eventually created a 71-acre lake and the City's first water works facility. (This is shown in the first cover photo.)
- The Loughberry water supply had an unpleasant taste and odor. Bottled water was available everywhere so it appeared that visitors were not much annoyed by it. However, in 1924 the need for a filtration plant and new pumps was noted.
- In 1935, the City issued bonds and used WPA labor to make major improvements to their water supply system. The Works Progress Administration (WPA) was created by President Roosevelt to offer direct government employment to the jobless. The unemployment rate was about 20% at the time the WPA was created.
- In 1936 the new Water Works went into service. (This is shown in the second cover photo.) A concrete box reservoir was built at the highest point nearby, on the west summit of North Broadway (today's Skidmore campus) to hold 5 million gallons and guarantee steady flow. This system still serves us today.

Message from the Commissioner

Saratoga Springs stands out among other cities with its beautiful streetscapes, historic architecture, cultural events, restaurants, parks and many other admirable amenities. This is evident in the increased property values, commercial revitalization, business investment, and tourism we experience. The Department of Public Works is integral to this success providing the high level of service expected by City residents and visitors. Our services to the community go beyond normal daily maintenance as we provide long term planning and improvements to critical utility systems, structures, parks, and streets as we grow into the future.

DPW administers a large number of the City's capital improvements each year, with special emphasis in recent years on the aging utility infrastructure. 2013 included significant improvements to the Water Treatment Plant. The first project was the completion of the Filter Rehabilitation which had not been maintained since the early 1960s. Preliminary results have already shown a 33% water use reduction during the filter backwash cycles.

The planning and design of the City's water supply requires the expertise of Public Works working in combination with water supply engineers. Many factors must be considered such as location, current demand, future growth, leakage, pressure, pipe size, pressure loss, fire fighting flows, and more. In 2013 we enlisted Chazen Companies to establish the City's first water model which uses a pipe network analysis to determine directional flow and chlorine residuals in the system under various conditions and flow rates. The model has already been relied on to help DPW continue to provide effective chlorine levels to kill bacteria and viruses and maintain a proper residual to protect the City's water supply users.

In addition, we continued developing the Bog Meadow well system which began in 2012. This well system is projected to produce between 1.5 to 1.9 million gallons per day. This will ensure the City has sufficient water source capacity as outlined by an administrative order from New York State Dept. of Health (NYSDOH). This project is slated to be finished and on line by July 2014.

DPW also finalized plans for the installation of a 1500 kW emergency generator in 2013 at the Excelsior Avenue Water Plant. This is another long overdue project that will ensure compliance with the NYS Health Department and a safe potable water supply with sustained pressure in the event of a prolonged power outage. This too is scheduled to be on line by July 2014.

A noteworthy project in the structures division, which began in 2013, included the Casino First Floor Reinforcing & Basement Moisture Remediation. The Canfield Casino, which is on the National Register of Historic Places, was unfortunately built in a low lying area with high groundwater. This complex project addresses both structural and geotechnical deficiencies in the 140 year old Casino basement: a long overdue solution to the demise of this treasured City Landmark. The construction phase was completed in March 2014.

The amount of work DPW has accomplished in recent year is encouraging as we continue to improve our efficiency in the coming years. The following report provides a summary of these accomplishments during the 2013 fiscal year.

Respectfully,



Anthony "Skip" Scirocco
Commissioner of Public Works

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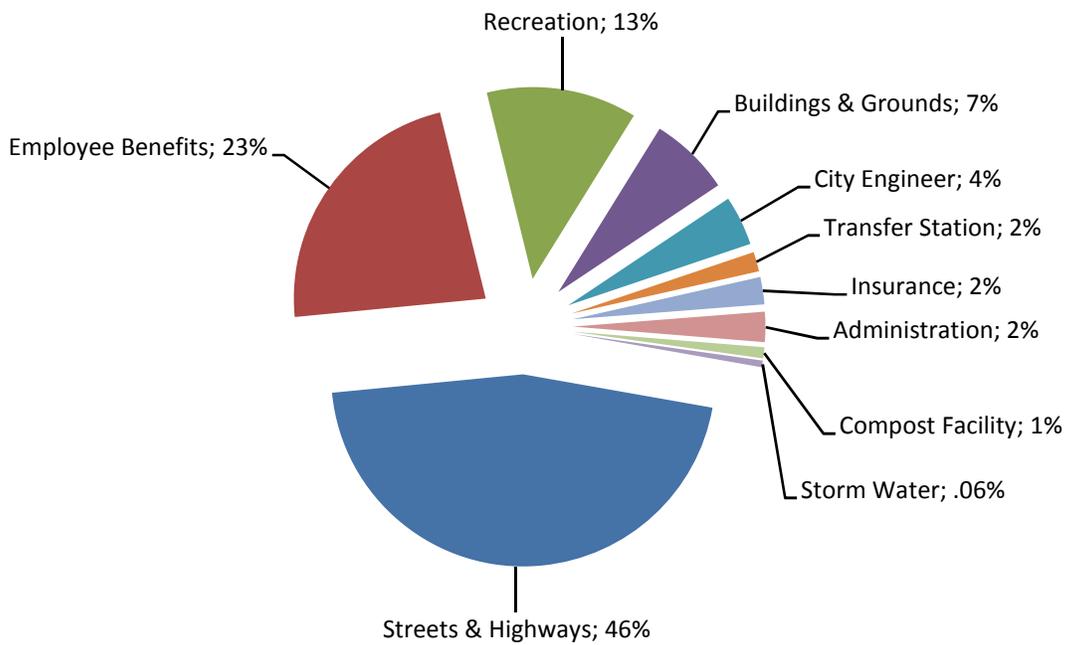
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I. INTRODUCTION

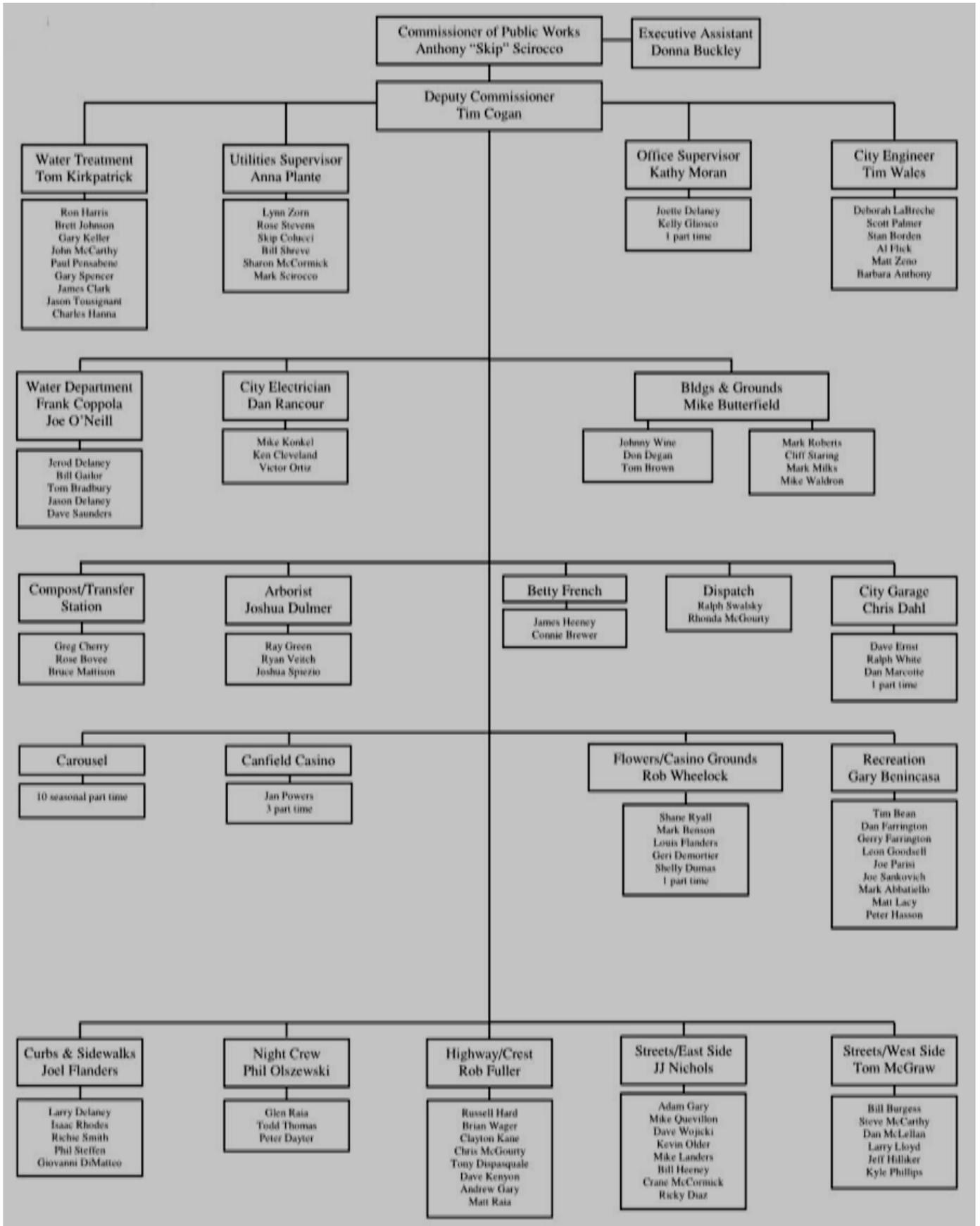
A. Expenditures Breakdown:

The following report presents the activities of the Department of Public Works (DPW) for the year 2013 as required by the City Charter. The current spending and organizational structures that make-up of the City's DPW are depicted in the following charts:

2013 General Budget



B. Organizational Chart:



C. Overview:

Maintaining Saratoga Springs public right-of-ways to be safe, clean and green is an enormous undertaking. It requires several large DPW crews to be out in the streets, at all times of the day, with a deep familiarity of the neighborhoods they work in and an ability to develop strong relationships and communicate well with residents and businesses. As you read through the annual report, we hope to share the scopes of work that our crews perform every day – often with limited resources. DPW's responsibilities are generally described below:

- 146 miles of Inside District & Outside District Streets
- 250+ miles of Water, Sanitary & Storm Sewer Utilities
- 200+ DPW vehicles & equipment
- 3 Water Treatment Plant Facilities
- City Water Supply - 1 surface water reservoir, 1 secondary water supply, and 2 groundwater well fields
- 25 Sewer Pumping Stations & 8000 sewer service connections
- 43 major Buildings/ Structures and Grounds
- 113+ City Owned miscellaneous parcels
- 1 Public Restroom
- 1 City Park including Carousel and 8+ historic fountains & statuaries
- 4 Recreation Fields & Playgrounds (East, West South & Geysler)
- 4 Water Spray Parks
- 7 Surface Parking Lots & Three Parking Decks
- 2 Indoor Skating Rinks
- 1 Indoor Recreation Facility
- 1 Transfer Station
- 1 Compost Facility

Some of the operations and events which are managed by DPW City Hall staff include:

- Public Works Administrative Office
- Utilities Dept./Water and Sewer Billing
- Utilities Dept./ Field Coordinator and Underground Locating
- Engineering Department/Administration and Field Staff
- Music Hall Events - 3rd floor City Hall
- Casino & Carousel Events
- Farmers Market
- Project Review and Counsel to Land Use Boards

D. Honors and Awards:

Each year in May, as part of National Historic Preservation Month, the Saratoga Springs Preservation Foundation recognizes those who have preserved the architectural heritage of Saratoga Springs. Award recipients are honored at a public ceremony in May. The Department of Public Works received a 2013 award for the Visitors Center Slate Roof Restoration project which was completed in 2012. Built in 1915, the Visitor Center roof had not been rehabilitated in 34 years. In 1976 the roof was repaired leaving most of the original slate in place, making the slate over 95 years old. Prior to the restoration, slate and fasteners were loose and missing and seams had opened up. The work included salvaging the existing slate and installing new copper hips, flashings and snow slides. This is the third award of this kind that DPW has earned in recent

years for using high quality, historically sensitive materials on a City Landmark. A copy of the award is included in Attachment 2 of this report.

In a February 26, 2014 letter, the New York State Department of Health recognized DPW's commitment to providing optimally fluoridated water to the community and our efforts to help improve oral health by reducing tooth decay. The DOH informed the DPW that we had been awarded a 2012 Fifty-Year Fluoridation Award from the Association of State and Territorial Dental Directors, American Dental Association and the U.S. Centers for Disease Control and Prevention (CDC). The award recognizes those water systems that reached fifty years of continuous water fluoridation in 2012. Our water system was one of only three systems that qualified for this award in New York State this year. A copy of the award and DOH Letter are included in Attachment 2.

II. STREETS AND HIGHWAYS DEPARTMENT

A. Overview:

Maintenance and repair of the City's roadways are among DPW's highest priorities requiring our year-round commitment. Whether undertaking an aggressive paving and resurfacing program or developing improved procedures for patching City streets, DPW has made great progress in maintaining and improving the overall condition of the City's roadways. In addition, as required in the City Code, DPW crews also oversee the installation and maintenance of sidewalks, curbs, and street name signs around the City.

Unlike many other area cities, the Saratoga Springs DPW performs quality work involving most street reconstruction or resurfacing without relying on outside contractors. Performing these activities in-house results in significant savings to the City and offers a sense of pride and accomplishment for the Public Works crews. For example, in 2013, DPW installed the following sidewalks under Community Development Block Grant funding:

87 Division Street - 325 square feet
29 Park Street - 700 square feet
26 Park Street - 250 square feet
50 Park Street - 285 square feet
33 & 35 West Harrison Street - 175 square feet
58 Congress Street - 350 square feet
Federal Street - 400 square feet

These sidewalk projects are paid for by residents, the Special Assessment District, and CDBG. DPW continually strives to meet the needs of the American With Disabilities Act and is working hard to systematically replace non-compliant pedestrian curb ramps with new ADA complaint ramps along the main City corridors.

B. Paving Program

The Consolidated Local Street and Highway Improvement Program, known as CHIPS, provides State funds to municipalities for support of construction and repair of highways and bridges not in the State Highway system. These monies are received from the State as a reimbursement to offset program eligible costs for street capital improvements including reconstruction and paving of City streets. For the year 2013, the City was eligible for, and received, full CHIP's program funding in the amount of \$612,592.29.

The DPW Resurfacing Program consists of pavement resurfacing, road base repair, curbs, gutters, storm sewer basins, sidewalks, and pedestrian curb ramp construction. DPW will repave, repair, and reconstruct various street segments throughout the City to ensure safety in the public right-of-way for pedestrians, and all vehicles, such as transit buses, cars, trucks, and bicycles.

In addition to maintaining 290 lane miles of streets, parking lots, downtown City building sidewalks and other downtown parcels, DPW undertook an especially aggressive program of street paving with a 12% increase from 2012. The following is a listing of those activities,

2013 CHIPS Paving Projects		Project Cost
East Congress Street	Broadway to end	\$39,994.83
Maple Avenue	East Avenue to 1400 feet Maple Avenue Hill	\$35,613.37
Green Street	Maple Avenue to Catherine Street	\$35,189.84
Woodlawn Avenue	Greenfield Avenue to First Street	\$26,151.10
State Street	Greenfield Avenue to First Street	\$26,055.81
Denton Road	Outer Seward Street to trestle to curve	\$42,682.27
Pleasant Street	Washington Street to end	\$13,007.92
West Fenlon Street	South Broadway to 430 feet west	\$12,756.86
Gilbert Road	40 Gilbert Road to 100 feet south	\$41,764.34
Cottage Place	Regent Street to Caroline Street	\$17,103.83
Adams Street	Gridley Avenue to Crescent Street	\$19,107.32
Dutchess Court	Rip Van Lane to end	\$31,921.46
Curt Boulevard	Hathorn Boulevard to White Birch Path	\$32,448.87
Arapaho Path	Quevic Drive to end	\$31,274.07
York Avenue	East Avenue to Warren Street	\$40,572.87
Ludlow Street	Lake Avenue to Catherine Street	\$42,702.44
Kaydeross Avenue East	Crescent Avenue to 300 feet south	\$70,373.56
Railroad Place	Church Street to Division Street	\$37,284.59
Bank Alley, Spruce Alley, Britton Lane	Lake Avenue to end	\$16,586.94
TOTAL CHIPS REIMBURSEMENT REQUEST		\$612,592.29

C. Railroad Run Multi-Use Trail:

The Railroad Run Trail is one of 1,600 rail-trails supported by Rails-to-Trails Conservancy, a nonprofit organization working to create a nationwide network of trails from former rail lines and connecting corridors. Previously an unused railroad corridor through the City, this "rail-trail" is now a great place to walk and bike in Saratoga Springs. In 2013, DPW completed the paving of the trail.

D. Seasonal Maintenance

In addition to the activities associated with the annual street resurfacing program, the DPW Streets & Highways Division accomplishes a multitude of seasonal tasks. Routine with these tasks are the following:

Hot Mix Blacktop Patching:

Broken water and sewer pipes can cause street cave-ins and roadway depressions also known as sinkholes, which are public safety hazards. This task also involves normal restoration projects associated with pavement cuts caused by private contractors doing work in City streets. During 2013 the DPW was responsible for undertaking 99 street repair projects related to water and sewer repairs and depressions in the roadways, a 65% increase from 2012. DPW was also

responsible for the temporary repair of potholes during the winter season until weather conditions allow for permanent repairs.

Snow & Ice Control:

Winter maintenance activities are typically performed under the most demanding conditions. Preparation of equipment and organizing manpower are basic to our success in snow fighting. Designated employees receive storm warning notifications and issue mobilization orders. DPW crews use designated route assignments to accomplish plowing and deicing in the most efficient manner based on the type of storm and required level of service.

An additional task under demanding weather conditions is the removal of snow from downtown City streets where adequate space is not available to accommodate on-site storage. Procedures for loading and transporting snow must be followed all while minimizing the impact to the drivers, businesses and residents in the vicinity.

Street Cleaning & Graffiti Removal:

Depending on a variety of factors, maintaining the cleanliness of the City's streets is also 3 season operation and an on-going task. The clean-up of winter sand, accumulated along City streets, is performed using the department's two mechanical sweepers. The process takes several weeks to complete. Street sweeping is also an important part of the City's Storm water Pollution Prevention Program (MS4) as it keeps sand and other street debris from entering the municipal storm sewer system.

To keep the City free of blight, DPW monitors its properties and removes any defacing graffiti.

Curb Side /Yard Debris Pick-Up Program:

From early spring through late fall, this City-wide program offers residents the opportunity to place containers of leaves, grass clippings, tree branches, and other yard debris at their roadside for pick-up by DPW crews. The objective is to reach each neighborhood, both inside and outside districts, at least once during every two-week period. This material is then transported to the DPW Compost Facility on Weibel Avenue. The composting process, which is conducted in-house, produces an environmentally benign product that is then sold as a high quality mulch to residents, generating revenue from waste. Additional information is included below in Section V under Solid Waste.

Tree, Planting, Pruning and Maintenance:

The City of Saratoga Springs adopted a new initiative in 2012 to plant only tree species that are native to, and historically in line with, old downtown species. During 2013, DPW continued to work with Sustainable Saratoga to implement this important initiative. Part of the initiative is to recognize and avoid invasive species which are harmful to the native species. DPW crews are trained to use proper planting and pruning methods for these trees and shrubs. Maintenance trimming, removal and replacement of the hundreds of unsafe, storm damaged or diseased trees that line City streets are ongoing tasks. The City DPW has a certified arborist on staff who oversees the tree program and is generally focused on the health and safety of individual plants and trees within the City right-of-way and parks.

E. Beautification

DPW is the force behind beautiful public spaces in Saratoga Springs. This responsibility includes numerous public gardens located on City owned property. DPW is continually working to keep these important open spaces free of illegal dumping and other unhealthy activities to improve the quality of the neighborhood. We maintain a high standard of cleanliness by setting out each

day to address issues that affect the quality of life in the City and keep streets clean and inviting for residents, customers and other visitors.

For example, DPW crews landscape, mow, weed and water Congress Park, two cemeteries, the Farmer's Market, the Visitors Center, the Senior Center, the Arts Council, South Broadway and Union islands and the length of Broadway. We plant in excess of 60,000 annual plants including Hathorn Spring. During the fall the flower crew plants thousands of tulips. In addition, DPW is responsible for the mowing of four recreation fields.



Figure 1: DPW planted flowers at Union Ave. & Circular St. to help celebrate 150 years of Race Track history

(Organized by Saratoga 150 and volunteers, the five-month-long celebration extended from May through September 2013, and offered more than 100 events for area residents and visitors to the region.)

Holidays in the City are celebrated by lighted decorations hung by the DPW flower crew along Broadway, Congress Park, City Hall, and the Visitor Center, and trees around the Canfield Casino. Evergreen wreaths are made in-house by talented staff to decorate downtown poles with lights, red bows and green garland. A Menorah and other festive holiday decorations are placed in and around Congress Park. DPW continues to "go green" by using new LED bulbs when possible to light the City's Christmas trees.

The following are some additional DPW sponsored programs which add to the beauty and sustainability of the City:

- Flag banner program that generates \$10,000 in revenue. Local organizations purchase colorful banners which are hung on the decorative street lights.
- Memorial bench program - Benches can be purchased from DPW with plaques to honor the deceased. These are installed by DPW on Broadway and Congress Park.
- Horse head bicycle racks
- New Holiday decorations for the Downtown Business District
- New trash barrels to begin a new replacement program
- Recycling bins for City Hall offices to promote recycling.

F. Public Right of Way Management

In the interest of public safety and convenience and to protect public facilities, DPW continually monitors the activities within the City's public right of way along the City streets. This includes items such as issuance of permits for underground and aboveground work, utility locations, and inspections. Street Opening permits control the construction, alteration, installation and occupied uses in accordance with applicable City Codes and standards. This also provides the opportunity to confirm that proper insurance is in place by the applicant. All public and private paving and construction projects are required to provide A.D.A. compliant curb ramps, giving priority to locations requested by the disabled.

G. Street Acceptance

Another responsibility of the DPW administration is the duty of street acceptance. Typically when a new residential development is created and a subdivision map is approved, there are new roads added to the inventory. Once City planners and engineers approve the developer's as-built plans, the map is filed, and the proposed roads are dedicated to the City. It is DPW's charge to ensure that the new streets are built to proper City standards.

H. Safety Training

2013 included many safety training activities within the department's workforce. These sessions were conducted by the City's Director of Risk & Safety and focused on the following topics:

- Personal Protective Equipment Respirator Training
- Fleet Safety
- New York State Right to Know
- Fight the Bite (NYSDOH Tick and Lyme Disease Awareness)
- Basic First Aid
- CPR
- Work Place Violence
- Confined Spaces
- Snow & Ice Control & Snow Plow Safety

I. Storm Water Pollution Prevention Training:

DPW field staff employees routinely receive in-house training focused on storm water pollution prevention as part of the City's Municipal Separate Storm Sewer System (MS4) Program. Topics for training include: Hazardous Materials Spill Prevention and Cleanup, Erosion & Sediment Control During Construction, and Identifying Illicit Discharges & Other Sources of Storm Water Pollution.

III. Equipment & Fleet Management

A. Overview:

Routine repair, replacements, preventative maintenance, inspections, fleet inventory management, parts inventory, tools inventory, fuel inventory, safety and condition assessments, and emergency repairs are just some of the responsibilities of the DPW City Garage. DPW mechanics must maintain appropriate training, licenses, and certifications such as those required by the NYSDOT, air emissions, and commercial drivers licenses (CDL) in line with the functions of the job. In addition, the DPW garage analyzes equipment costs and defines replacement cycles, drafting purchasing specifications, and procuring all mechanized

equipment. Attachment 1 includes a list of the 2013 DPW Vehicle List that is managed by the DPW garage which includes over 200 running engines.

B. Fuels and Liquids Inventory:

The DPW garage is responsible for managing and tracking the use of fuels, oils, lubricants and automotive fluids meeting all applicable environmental regulations. Gallons of fuel are continually tracked to determine any variance from recorded inventory levels. This reconciliation assists in determining fuel leaks. DPW must constantly monitor the above ground gas and diesel tanks in accordance with Petroleum Bulk Storage and permit regulations.

C. Snow and Ice Control Fleet:

Central to our ability to respond quickly and efficiently to winter storm conditions is having available the necessary equipment to do the job. Over the years, the Department has taken pride in its fleet maintenance procedures for trucks and equipment that are used all year. Proper calibration of spreading equipment is necessary to maintain the spreader settings that produce the correct application of deicing material within the guidelines of the State agencies.

During the winter season, the Department maintains various pieces of heavy equipment used for snow removal operations which typically includes: a Vohl Snow Blower, 2 Road Graders with Wing Plows, 4 Wheel Loaders, 6 Dump Trucks with Plow and Spreader, 7 Dump Trucks and Wing Plow and Spreader, 5 Dump Trucks with Plows. Also, key to our winter operation is the fleet of pick-up trucks with plows that work in tandem with the larger pieces of snow removal equipment.

D. Major Replacement Purchases:

DPW demonstrated their commitment to cost conscious spending in 2013 by trading in the aging units for the following major pieces of equipment:

- Two (2) International single axle dump trucks with snow plows
- One (1) CAT 930K heavy duty front end loader
- One (1) Bobcat 5650 skid-steer loader

IV. BUILDINGS & GROUNDS DEPARTMENT

A. Overview

The goal of DPW is to preserve and maintain all City owned facilities in a manner that provides a safe and efficient environment for City functions. Proper maintenance of facilities includes preparation of capital funding allocations for long and short term building and space needs. A conditions assessment is followed for all facilities maintained and updated on a regular basis.

Regular fire inspections for code compliance and fire hazard identifications are managed DPW through the use of a professional fire sprinkler firm. DPW provides custodial programs for all facilities, excluding those maintained by the Public Safety Department. Supplies are inventoried and stored as needed for City operations.

The following lists the majority of extensive facilities and structures which DPW is responsible for operating and maintaining. Many are listed on the National Register of Historic Places:

Asset Name

- Excelsior Ave. Water Filtration Plant
- Geysers Crest Water Treatment Plant
- Interlaken Water Treatment Plant
- Bog Meadow Secondary Water Supply Pump Station
- 25 Sanitary Sewer Lift Stations
- Putnam Street Parking Deck
- Woodlawn Avenue Parking Deck
- Long Alley Parking Garage
- City Hall
- Arts Council
- Franklin Community Center
- Senior Citizens Center
- Visitors Center
- City Center (operates under City Center Authority)
- Canfield Casino
- Congress Park
- The Carousel
- "Spit and Spat" Marble Statues and Reflecting Pool
- Italian Gardens Statues
- Mineral Springs and Gazebos
- "The Reservoir" Fish Pond at the Casino
- Rose Fountain
- Spirit of Life Bronze Statuary & Reflecting Pool
- "Night & Day" Urns
- War Memorials & Veteran's Walk of Honor
- Farmers Market Pavilions & Gazebos
- 9-11 Memorial
- Waterfront Park on Saratoga Lake
- High Rock Park Restroom
- Indoor Recreation Facility
- Geysers Park Recreation Facilities and Building
- 4 Interactive Spray Parks
- Weibel Ice Skating Arena
- Vernon Ice Skating Arena
- Compost Facility and Office Building
- Transfer Station Facilities
- DPW Garage, Dispatch & Fuel Facilities
- DPW Carpentry Shop
- DPW Sheds
- Weibel Ave Garage
- Geysers Park Garage
- Landfill Site

B. Canfield Casino and Congress Park

Casino:

The Canfield Casino serves as one of Saratoga Springs' most popular destination points for various parties, banquets, weddings, public and private events special to our City. Unique to this historic building is the fact that it is available for use by the general public in accordance with a schedule of rental charges. Increased public usage of this historic City treasure also places increased demands on the Public Works staff, which is responsible for the day to day operation. Critical to our success at the Canfield Casino, is the small dedicated support staff. This staff

operates and oversees the Casino building and is also responsible for much of the outside maintenance work throughout the surrounding Congress Park.

During the year 2013 the Canfield Casino booked 101 events. Special chair rentals alone attributed to approximately \$4,690 in extra revenue. The monies generated by the Canfield Casino are used to offset expenses to the City's taxpayers. In addition, many outside events were held in Congress Park such as the annual Shakespeare In-The-Park, 4th of July celebration, summer concerts, and Arts and Crafts shows.

Casino Basement First Floor Reinforcing & Moisture Remediation Project

DPW worked with Ryan-Biggs Associates (structural engineers) and Dente Engineering (geotechnical engineers) to design the Casino First Floor Reinforcing & Basement Moisture Remediation project. The Canfield Casino, which is on the National Register of Historic Places, was unfortunately built in a low lying area with high groundwater. This complex project addresses both structural and geotechnical deficiencies in the 140 year old Casino basement. With the relative humidity levels exceeding 80% in the summer months the wood supporting the first floor was rotting and sagging, metal fasteners had fallen out, and masonry walls were spalling. In past decades DPW has reacted by adding "temporary" posts and timber beams to address the sagging floors. However, the moisture levels were not addressed. The structural portion of the project included new structural steel beams, microlams and steel columns to bring the entire first floor into Code compliance. The moisture remediation portion of the project included a multi-layered approach with new underdrain trenching, alarmed sump pump system, moisture vapor venting system, and concrete slab throughout the basement. The construction phase was completed in March 2014.



Figure 2: Casino Basement before remediation

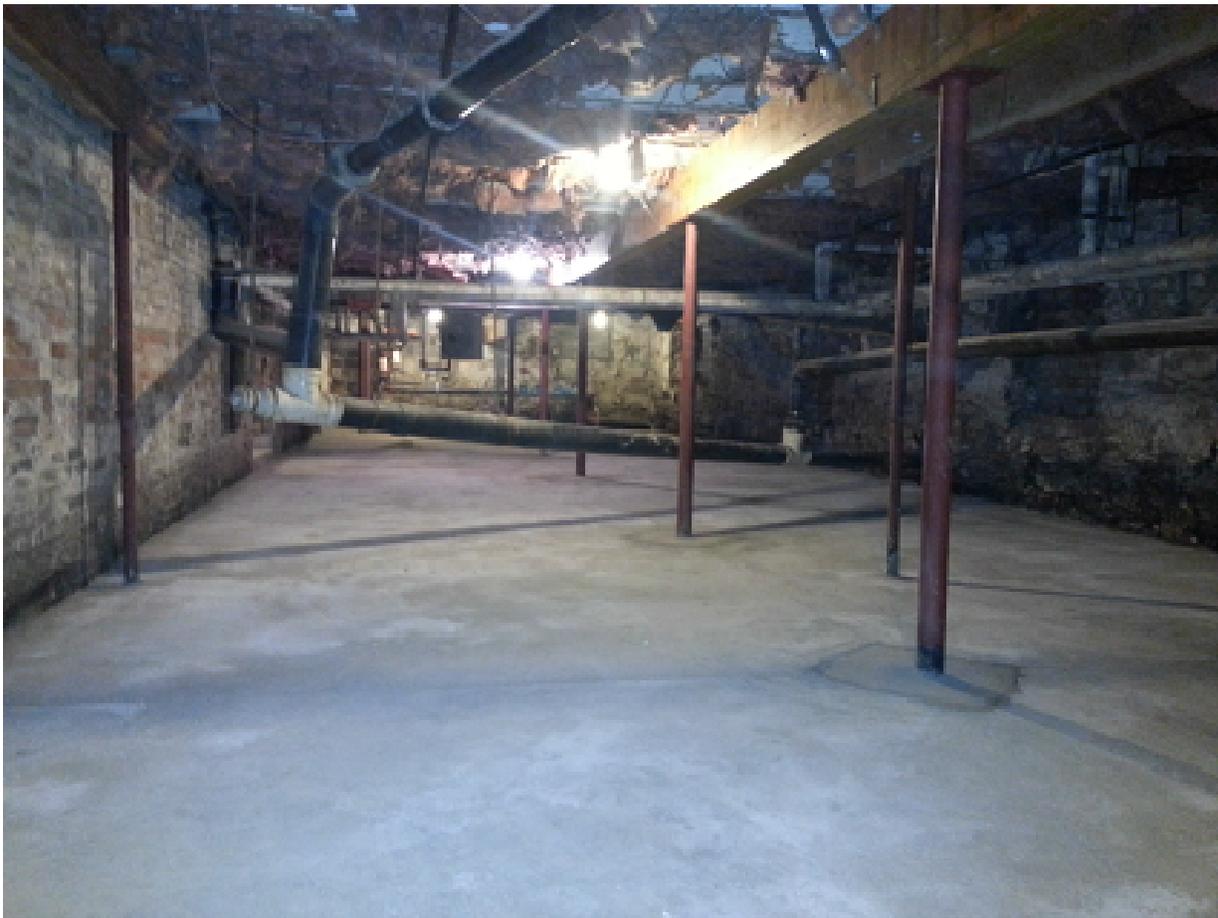


Figure 3: Casino Basement after remediation

The Mineral Springs:

The City's natural mineral springs have been attracting summertime visitors for over 200 years. These springs were believed to have healing powers and are famous for their varied and distinct tastes. Visitors are welcome to bottle the spring water for personal consumption. DPW maintains these historic springs which are covered by highly ornate pavilions and marked by plaques.

Spirit of Life & Spencer Trask Memorial

In 1913, Katrina Trask, philanthropist, Yaddo founder, and Saratoga resident, along with George Foster Peabody, commissioned the memorial to honor her late husband, Spencer Trask, preserver of Saratoga's natural springs. Sculptor Daniel Chester French created the bronze sculpture *Spirit of Life* and architect Henry Bacon, who also designed the *Lincoln Memorial* in Washington, designed the architectural features. The Commissioner of Public Works and the Saratoga Springs Preservation Foundation are working together toward a three year conservation and restoration project for this priceless treasure in time for the 2015 Centennial celebration.

Veteran's Walk of Honor:

This patriotic program was started in 1999, featuring a sidewalk of bricks engraved with the names of local war veterans to memorialize their names in front of the Congress Park War Memorial. The walkway is an extension of this important space where the City holds patriotic dedication ceremonies and gatherings with music, various speakers and refreshments. DPW oversees this ongoing program by offering a veteran's family and friends an opportunity to

purchase a brick for \$50. To date, over 2,000 bricks have been dedicated. The bricks are engraved with the Veteran's name, rank and branch of service. Proceeds from the sale of the memorial bricks are used to fund future maintenance and upkeep of the War Memorial.

Carousel:

2013 marked the eleventh year of operation of this magnificent one-of-a-kind historic Carousel. During the early spring season, DPW performs a scheduled maintenance and repair of the Carousel's mechanical operation and security system. Skilled DPW staff pay special attention to the condition of the painted surfaces of the historic Carousel horses.

The Carousel hosted 44 special events for the general public and 7 schools in 2013. The total revenue generated by the Carousel in 2013 was \$55,094, an 8.4% increase from 2012, hosting approximately 55,000 riders not including weddings, school children and special events:

Carousel Revenue Collected	
Year	Amount / Riders Hosted
2008	\$30,324 / 60,648
2009	\$30,391 / 60,780
2010	\$50,392 / 50,392
2011	\$49,000 / 49,000
2012	\$50,828 / 50,000
2013	\$55,094 / 55,094

C. Waterfront Park on Saratoga Lake:

Through the efforts of the DPW and the Mayor's Office, the City's Waterfront Park on Saratoga Lake was opened to the public in August of 2012. The park was formerly the Waterfront Restaurant on the northwest bank of the Lake with access on Crescent Avenue, across from Cassidy Drive. The City purchased the property in 2006 with \$2 million in open space bond money. The goal is to make the Waterfront Park as usable as possible to the taxpayers within the limited budget.

D. City Hall Music Hall:

- The Music Hall is a historic civic asset and a lively home for numerous arts and local organizations. The third floor of City Hall is a beautiful location with seating for 200 people. DPW operates the activities and provides staff to help with maintenance. In 2013 the DPW staff painted the Music Hall and had new window and stage draperies installed.

Some of the on-going events include:

- SAVOY Swing Dances (occur every third Friday of the month)
- Johnny Cash Country Show Concerts
- Dance Flurry In February
- First Night

- Meg Kelly Musical Theater Performance in Fall (2013 included the Christmas Theater, Little Mermaid, Cinderella, and Christopher Howard Work Shop from the tour of Billy Elliott)
- Weddings
- Community Celebrations
- Barmitvahs/Batmitvahs

E. Water Spray Parks

DPW oversees the summer operation of four interactive fountain parks which provide a free spot for kids of all ages to cool down. Through the use of computerized controllers, there is no need for lifeguards and water only flows when children are present. The four parks are located at Geysers Park, and at the West, South and East Side Recreation Areas. Spray parks are not maintenance free and must be inspected and maintained to be sure the park is being used properly and the area is free from any debris or potential hazards. All component surfaces and nozzles are checked for signs damage.

F. 9-11 Sculpture

"Tempered by Memory" is a memorial constructed out of steel beams taken from the wreckage of the Twin Towers following the terrorist attacks of Sept. 11, 2001. The steel was assembled into the memorial by a pair of Saratoga County artists and paid for by Saratoga Arts, which donated it to the City at a formal dedication. The artists completed the 9/11 Memorial together with a volunteer team of iron workers, crane operators and a broad range of community-wide support. The sculpture and surrounding setting at High Rock Park is another important City treasure now under the care of DPW.

G. Electricians

DPW maintains a skilled electric crew responsible for repair and maintenance of City owned facilities. The following is an overview of their responsibilities and activities for the year 2013.

- Replaced 11 Sternberg lights that were knocked down
- Fixed 154 Street lights that were not working
- Took over 32 Sternberg lights: 6 lights at 239 Washington St, 2 lights at 125 - 127 Adams St, 2 lights at 31 Myrtle St, 1 light at 132 Ash St, 2 lights at 239 Jefferson St, 1 light at 63 Spring St, 3 lights at Thirsty Owl on Lincoln, 2 lights 420-424 Broadway at the Washington , 1 light at 47/48 Eureka Ave, 5 LED lights Adelphi St, 4 lights at Excelsior Spring Conference Center, and 3 lights at movie theatre on Railroad Place
- Replaced electrical service that malfunctioned at Hathorn North pump station
- Court Room renovations
- Cameras hooked up for Public Safety on Gardner Lane and Caroline Street
- Upgraded Visitors Center and Arts Council to LED lights
- Generator installed for Grand Ave pump station

The Electrical Crew is comprised of the following employees:

- Senior Electrician supervises a crew of 4
- One Electrician- currently unmanned
- Two Maintenance Mechanics II
- One Maintenance Mechanic I

They are responsible for preventive maintenance, installation, care, and repairs of:

- 24 sewage lift stations and associated alarm circuits: Biweekly operational check of all stations and alarms
- All city outdoor lighting at 24 Route 50 lights by SPAC, and 1097 Sternberg decorative lights
- 19 emergency generators at City Hall, Senior Center, Geyser water plant, Interlaken water plant, Excelsior Avenue water plant, City garage, dispatch, Recreation Center, and at miscellaneous sewage pump stations
- All City owned buildings, park, and recreation fields: outdoor lighting, indoor lighting, emergency lighting, power, all electrical equipment, and running of computer lines
- All mineral springs and fountains in ponds
- Marks all electrical utilities for DSNY notifications
- Ordered all materials and maintained inventory of all electrical equipment
- Supervision of City's energy management system, control of heating of City Hall, control of heating and AC at Casino, water plant heat, and Recreation Center heating and AC
- Putting up and taking down of all Christmas wreaths in downtown area, helping Flower crew with Christmas lights in front of Casino, putting flower baskets up in Spring and taking down in Fall
- Snow removal of streets and clearing of all pump stations, mowing of all pump stations and Geyser Crest Well field
- On 24 hour call to respond to all electrical emergencies including flooded pump stations, decorative lights being knocked down by accidents, heat, and power issues

V SOLID WASTE DEPARTMENT

A. Yard Waste & Composting Program

As indicated above under seasonal maintenance, the City's Yard Waste Program has earned the reputation as one of the best municipal composting operations in New York. This Public Works sponsored program has developed into an important City service that nearly every City resident depends on.

From early spring through late fall, DPW street crews provide a valuable service to all City residents by picking up all rakings, mowings, trimmings and weeding placed at curbside. This program has a few basic rules:

- April 15 through September 31 - All yard waste material must be placed at curbside in a reusable container or biodegradable paper bag.
- All yard waste material must be in the form of leaves, grass clippings or tree limbs cut in lengths shorter than four feet.
- October 1 until the snow falls - Materials may be placed loose by the curbside for pick up.

This yard waste is transported to the City's Weibel Avenue Compost facility and stock-piled. It is then ground and shred into a rough-cut mix of raw (or green) compost material utilizing the City's large tub grinder machine. The raw material is then placed in large windrows on the compost pad where it undergoes its natural process of bacterial decomposition. DPW purchased a new McCloskey 516RE trommel screen which will increase production, result in better quality of material being produced and eliminate costly rental fees.

Periodic turning of these large windrows is necessary to allow proper oxygenation to take place throughout the compost mix. Water is also added, especially during dry periods, to facilitate the natural decomposition process of the compost material. Considering that this cycle takes approximately a year to complete, in the spring of 2013 yard waste material collected in 2012, was ready for final processing into a fine, high quality, black compost material. This is accomplished by screening the aged compost material through a large scale trommel type machine specifically designed to remove and separate out any unwanted or large pieces of foreign material.

2013 Compost Material Summary	Cubic Yards
Yard Waste/Raw Material	8,152
Mulch	3,500
Total Compost Material Currently Stockpiled	11,650

2013 Compost Distribution	Use in Cubic Yards
Individual Sales to area residents & businesses	2,525
Public Works Projects	750

While this Public Works sponsored program was initially established in 1995, as an alternative to the land filling of yard waste materials, the program has generated substantial revenue for the City. The sale of compost material during the year 2013 was at \$52,408, which helps to offset program costs.

<u>10 Year Compost Revenue Collected</u>	
Year	Amount
2004	\$84,700
2005	\$78,751
2006	\$58,290
2007	\$82,307
2008	\$91,602
2009	\$55,596
2010	\$47,807
2011	\$65,652
2012	\$66,568
2013	\$52,408
10 Year Total	\$683,681

B. Transfer Station

The Saratoga Springs Transfer Station serves the residents of the City of Saratoga Springs as well as other surrounding communities and is operated by DPW. The facility became operational in 1995 for use as a transfer station after the City landfill was closed. The Transfer Station Facility primarily consists of a waste drop-off area where bagged and other non-recycled waste is deposited into a large stationary trash compactor. An adjacent small office building provides space for a DPW attendant to oversee operation of the compactor and provide service to the public. The transfer station processes approximately 3.5 tons of waste material per day or approximately 100 tons per month.

Revenue generated from the sales of trash bags for 2013 was \$155,574, a roughly 8% decrease from 2012.

VI WATER & SEWER DEPARTMENT

A. Water Supply & Treatment Facilities

One of the most important functions of the City's Department of Public Works is the responsibility to operate and maintain the City's water delivery system and treatment facilities. Keeping these facilities up-to-date and in excellent operating condition is critical to the needs of our community and remains a top priority for the administrations of the DPW.

Excelsior Avenue Treatment Plant

The Excelsior Avenue Treatment Plant has been the main treatment facility for the City since it was built in 1935. Prior to 1979, when the Geyser Crest system was purchased, it was the sole Water Treatment Plant for the entire city. Over the years the DPW has undertaken several capital improvement initiatives designed to upgrade and improve various treatment processes within the plant.



Figure 4: Workers building the settling basins 1935

The basic treatment processes and procedures involved in treating Loughberry Lake water for human consumption may be referred to as conventional, or traditional. The processes done at the Excelsior Avenue facility include coagulation, flocculation, sedimentation, filtration, disinfection and fluoridation. The coagulant used is polyaluminum chloride. Sodium permanganate replaced activated carbon for taste and odor control in the summer months.

Fluoride is added at 1 Mg/L for prevention of tooth decay and copper sulfate is added directly to the Lake during summer months for algae control. Primary disinfection is attained through the application of UV light with sodium hypochlorite used for secondary disinfection.

The 2006 ultra-violet light (UV) system meets the new, stricter, EPA and NYSDOH regulations for disinfection by-products. As a result of the new EPA regulations, pre-chlorination had to be discontinued, which created the problem of algae growth in the settling basins. This was remedied by the application of sodium permanganate on essentially a full time basis. The addition of this chemical was hoped to be eliminated or at least be reduced by the installation of a cover on the sedimentation basins. Lack of money in the budget has prevented this from moving forward.

Water quality standards require turbidity and chlorine residual to be monitored continuously. Color, temperature, pH, alkalinity, hardness, fluoride and distribution turbidity are tested daily. Water quality bacteriological (total coliform) tests are routinely performed throughout the entire distribution system. Additionally, total organic carbon is tested monthly and disinfection byproducts are tested each quarter. The annual requirements for testing of nitrate, primary inorganic chemicals, principal organic chemicals, synthetic organic chemicals, asbestos, lead, copper and radiological elements are also performed. During 2013, the City met all drinking water quality conformance standards as set forth by state and federal guidelines. Additionally, we are proud to say the City has never violated a maximum contaminant level or other water quality statement set by the state or federal guidelines.

The City also finalized plans for the installation of a 1500 kW emergency generator at the Excelsior Avenue plant. This is a long overdue project that will ensure compliance with NYSDOH regulations and ensure that the City is kept supplied a safe potable water supply with sustained pressure in the event of a prolonged power outage. This too is scheduled to be on line by July 2014.

The most significant improvement at the Water Plant in 2013 was the completion of the Filter Rehabilitation Project. This project consisted of a complete overhaul of the four existing rapid sand filters, with replacement of all the valves, controls, and monitoring equipment. The existing under drain and filter media were removed and replaced. The new under drain system is a combination air scour / water backwash. This is a much more efficient way to clean the filters. Preliminary results show a significant reduction (33%) in the amount of water needed to wash a filter. This will help conserve water and also reduce treatment costs. The placement of new filter media has helped tremendously in complying with EPA's finished water standards.



Figure 5: Water Treatment Plant Filter Room

In addition to the Loughberry Lake water supply the City depends on the system of wells located in the City's Geysers Crest neighborhood and also the Interlaken well system located in the Interlaken development. These wells supply the two developments and also supplement the Loughberry Lake water supply system in the inner City. Both of these systems are subject to the same strict water testing regulations set by NYSDOH. In addition, the Bog Meadow pump station and the 20 inch raw water main into Loughberry Lake supplement the water supply during the summer season when there is an increased demand on Loughberry Lake.

Interlaken Water System:

As of 2005, the City acquired ownership of the Interlaken Water System from the Saratoga County Water Authority. The system is located within the Interlaken residential neighborhood off Crescent Avenue near Saratoga Lake.

There are three operating water wells and a new upgraded 60 kW Emergency Generator replaced the former 40 kW generator. This project was accomplished under contract with various construction contractors and in accordance with the engineering design and guidance of the City's water consultants Barton and Loguidice, P.C.

Also, associated with this project was the installation of 125 new "Radio Read" style water meters throughout the Interlaken residential neighborhood. The result of this project enables the City to utilize up to 300,000 gallons of additional water per day from the three operating wells. This in turn will supplement the entire service area in this section of the City's water distribution system.

The Interlaken water system was completed and online in April 2007. The increasing iron levels in the Interlaken wells has necessitated the addition of an ortho/poly phosphate chemical to

sequester the iron. This keeps the iron in solution to stop it from staining fixtures and to hinder other related aesthetic problems in the distribution system. The phosphate addition use was started in November 2009. In 2011 it was discovered that the #2 well iron content was too high to sequester the iron. This well has been taken out of service, decreasing the capacity of the well field to 115,000 gallons per day.

Geyser Crest Well System:

In addition to the Loughberry Lake water supply the City also depends on the system of wells located in the City's Geyser Crest neighborhood. These wells primarily supply the Geyser Crest subdivision and adjoining neighborhoods in the Town of Milton with City supplied potable water. This well system also has the capability of supplying water if needed to the inner City system. While the Geyser well system represents a critical water supply source for the City's south west neighborhoods, serious draw-down impacts on the well system levels (especially during times of drought) have caused the City to initiate a ban on new connections to this system. This policy, initiated in 2002, remains in effect today.

In 2011 the Geyser Crest Well Field Improvement Project was finalized. This was a long needed improvement which was which was required for the City to comply with the 2010 EPA Ground Water Rule. A new hypochlorite disinfection system was installed to simplify treatment and to provide enough chlorine contact time to satisfy the new rule. The well pumps were equipped with variable speed drives and motors to save energy use and the two buildings were insulated to reduce heating costs. One of the main benefits of the project was the reconfiguration of piping and the installation of a booster pump that allows the transfer of water from the inner City system to the Geyser Crest system. This is an important upgrade that will provide enough water to the Geyser Crest system should an emergency occur. Of course Geyser Crest previously had, and still does have, the capability of supplementing the City system. Due to this upgrade it is possible to increase the amount of water being pumped to the City from Geyser Crest, lessening the strain on the Excelsior Ave. Plant.

Water production and usage for the City of Saratoga Springs for the year 2013:

	TOTAL
Gallons pumped from Loughberry Lake to Excelsior Ave., WTP	1,303,305,000
Gallons pumped from Geyser Crest	184,712,000
Gallons pumped from Interlaken	32,025,000
Total demand of City in 2013	1,520,042,000
	(Approximately 3% decrease from 2012)

During the year 2013, the highest single day water consumption for the entire City occurred on July 19, 2013, when 7.890 million gallons were used.

Bog Meadow Pump Station

Beginning in 2012 and continuing in 2013 the City developed a well system in the area of the Bog Meadow pump station which was begun in 2012. This will ensure that the City has sufficient source water capacity as outlined by an administrative order from New York State Dept. of Health (NYSDOH). This well system is projected to produce between 1.5 to 1.9 million gallons per day (MGD) which will meet present source water capacity needs and hopefully for many years to come. This project is slated to be finished and on line By July 2014.



Figure 6: Bog Meadow production well & observation/monitoring well:

B. Water Modeling

The City also enlisted Chazen Companies to establish a water model for the City's distribution system in 2013. This will be a valuable tool in determining directional flow and chlorine residuals in the system under varying conditions and flow rates. It will also be an aid in how to proceed with future expansion of the system.

The treatment of the City's water supply is a 24 hour-a-day, 365-day operation. Constant care and monitoring of all treatment plant systems is a critical responsibility taken seriously by the entire water plant staff. It is important to note, the City's water treatment plant operators that are responsible for the Excelsior Avenue, Interlaken and the Geyser Crest Treatment Plants and they represent a critically important team of employees within the Department of Public Works. In order to maintain their status as Water Treatment Plant Operators, these individuals are required to undergo and maintain certain levels of training by the New York State Health Department. It is with their constant care and oversight of all treatment plant operations that we are able to maintain one of the best and most cost effective systems in the State.

The Excelsior Avenue Water Works has hosted many tours of the plant in the past year, as it has done for many years. The groups requesting tours have ranged from Cub Scouts, college students, to senior citizens. It is nice to know educators in our City take the time to teach our young people the importance of water treatment and conservation. It is truly astonishing how knowledgeable the students are about the process and how well thought out their questions were during their tours.

C. Water & Sewer Infrastructure

Our system of underground utilities represents a critically important element of our City's infrastructure. Accordingly, DPW is responsible for the operation, maintenance and repair of hundreds of miles of underground water, sanitary sewer and storm sewer lines throughout the City.

In general, the City's distribution system spans over 7-miles from east to west. The system is physically divided by New York State Interstate 87 (I-87) with the Downtown area, Saratoga Racetrack, Spa State Park, and Geysers Crest Subdivision on the west side. On the east side of I-87 are residential developments off of Crescent Avenue and Dyer Switch Road to the southeast and off of Old Schuylerville Road on the northeast.

Approximate Miles of Underground Utilities

UTILITY	PIPE SIZE (Diameter)	TOTAL MILES (APPROXIMATE)
Water*	Ranging from 4" to 24"	142 mi.
Sanitary Sewer**	Ranging from 4" to 30"	80 mi.
Storm Sewer***	Ranging from 6" to 84"	35 mi.

* Including 1480 Fire Hydrants and 2000 valves

** Including 1,736 Sanitary Manholes

*** Including 817 Storm Sewer Manholes and 1,634 Drop Inlet Drains

DPW Utilities Group and Meter Reading:

DPW's Utilities Group works under the general category of Public Works. They are also supported by a separate and independent portion of the City budget. City collected utility fees, for water and sewer services, provides the revenue for these separate and distinct operations. Simply put, City collected water fees pay for all water related operations and City collected sewer fees pay for all sewer related operations.

The DPW Utilities Group consists of a Field Operations and Maintenance Crew as well as a Utilities Office staff responsible for all City water and sewer billing account activities. The City's cost for delivering water and maintaining sanitary sewer services is offset by revenues collected by system users. Responsibilities of the Utilities Group are distributed into the following divisions: office administration, billing, meter readers, metering maintenance, water treatment plant, water/sewer field crew, and sewer pumping field crew.

Meter Reading:

Meter reading is a vital part of the DPW operation and is referred to as the "cash box" component because meter readings are ultimately imported into the electronic billing system to create utility bills and the revenue they generate. The DPW strives to collect as many actual reads as possible because they permit maximum billable services while minimizing inconvenience and inaccurate bills to our customers. The Utilities Field Operations and Maintenance Crew work hand in hand with the Utilities Office staff to achieve a high actual meter reading percentage.

Hydrant Flushing:

The City has approximately 1,200 fire hydrants, which are a vital part of the water distribution system and an important safety asset. To improve and maintain the quality of the water in the system, hydrants are flushed periodically. The amount of hydrant flushing is dependent on

observed and tested water quality parameters, but generally performed in the spring and fall of each year. A full flushing of the hydrants is not always warranted, however "dead-end" hydrants are flushed regularly due to their susceptibility to sediment accumulation and rusty water. The City is currently preparing to implement a more effective method known as uni-directional flushing designed to improve system performance and water quality.

New Water Service Connections:

In 1992, the City adopted a policy requiring a fee to be collected for all new connections to the City's water system. Today, this "Water Connection Fee" represents one of the City's most important sources of new water related revenue. These fees are placed into the City's special Water Fund account. The typical fee paid to the City for a new residential water service connection is \$3,000.00. Details explaining the collection of Water Connection fees are outlined in the City's Water Ordinance adopted annually by the City Council.

As a matter of fiscal policy, these monies can only be used to cover Capital expenditures designed to enhance the City's water system. For the Year 2013, DPW collected \$283,500 in new Water Service Connection fees, a 37% increase from 2012. It is also important to note, these fees were primarily paid by new residential and commercial development projects connecting to the City's municipal water system. New development projects contribute substantially to the City's Water Reserve Fund. Over the past five years alone, the following fees were paid by area developers and home-owners wishing to receive City water service. The variations are created when a large project, such as a hotel, requires a fee of approximately \$50,000.

Water Connection Fees Collected		
<u>YEAR</u>	<u>NEW CONNECTIONS</u>	<u>FEES COLLECTED</u>
2005	75	\$232,000
2006	63	\$276,359
2007	46	\$220,500
2008	42	\$236,000
2009	33	\$78,000
2010	31	\$150,000
2011	32	\$101,000
2012	46	\$169,500
2013	63	<u>\$283,500</u>
	9 YEAR TOTAL	\$1,746,859

The following are some of the larger 2013 water line & sanitary sewer improvement projects:

- Bog Meadow Water Source - On-going
- Water valve replacement between Excelsior Plant & Woodlawn Reservoir
- Inspection of Woodlawn Reservoir and preparation for repairs
- Weibel Avenue force main installation
- Lake Avenue lift station upgrade
- Grand Avenue lift station upgrade
- Grand Avenue lift station emergency generator

D. Water Service Lines & Emergency Repairs

Much of the inner City water system is brittle cast iron pipe over 100 years old resulting in underground utility breaks or disruptions in the system. These most often occur in the form of water main breaks, damaged fire hydrants, plugged or fractured sanitary sewer mains and

breaks to the City's storm water system due to undermining or damage caused by excessive storm water runoff. DPW maintains a 24-hour emergency response phone number located at the City's Public Works Garage on Division Street. In the case of a utility related emergency, Public Works crews are dispatched, called-in if necessary, to investigate and respond accordingly.

A 2006 City policy made DPW responsible for all emergency repairs to private water service pipe laterals that pose an immediate hazard or threat to the general public. Most of these occur during the winter months. The objective was to minimize losses of potable water, reduce traffic and safety hazards caused by water surfacing on City streets especially during the winter months and eliminate the time and expense for property owners, faced with an emergency, to make the necessary repairs. In 2013, the Utility Crew generated 99 Dig Safely requests which were prompted, in part, by needed repairs to water mains, water services, and hydrant replacements. This is a 65% increase from 2012. 36 of the 99 dig safely requests were the result of emergencies.

E. Storm Sewer Cleaning:

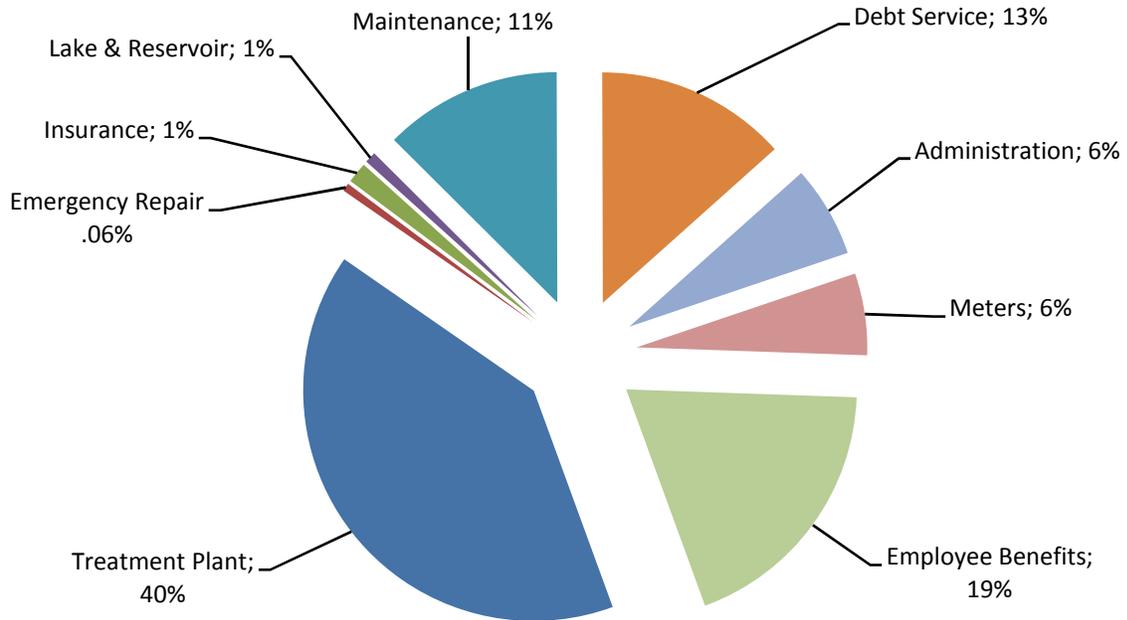
The City's system of underground storm sewers exists primarily throughout the downtown and inner city neighborhoods. Surface water, sand and typical street debris from the various streets serviced by this secondary collector system flows under city streets to the City's main collector system that runs from Congress Park and extends northerly to its discharge at the City's Spring Run Brook. Using a combination sewer jet and vacuum cleaning unit, DPW crews annually clean storm system drop-inlets, catch-basins, and storm sewer lines that have been identified in need of such work. This work compliments the City's MS4 Program with the goal of keeping debris and pollutants out of the storm sewer system. Other tasks, including replacing or reconstructing curbside storm system catch-basin structures and repairing or readjusting drop-inlet grates are routinely performed throughout the spring, summer and fall seasons.

Outlying areas of the City, which have storm collection systems, are typically comprised of storm drains connected to drywells or perforated pipe which allows storm water to infiltrate into the ground below. These are periodically cleaned by the City. Otherwise, the storm water is discharged directly to a pond, stream, or other water course.

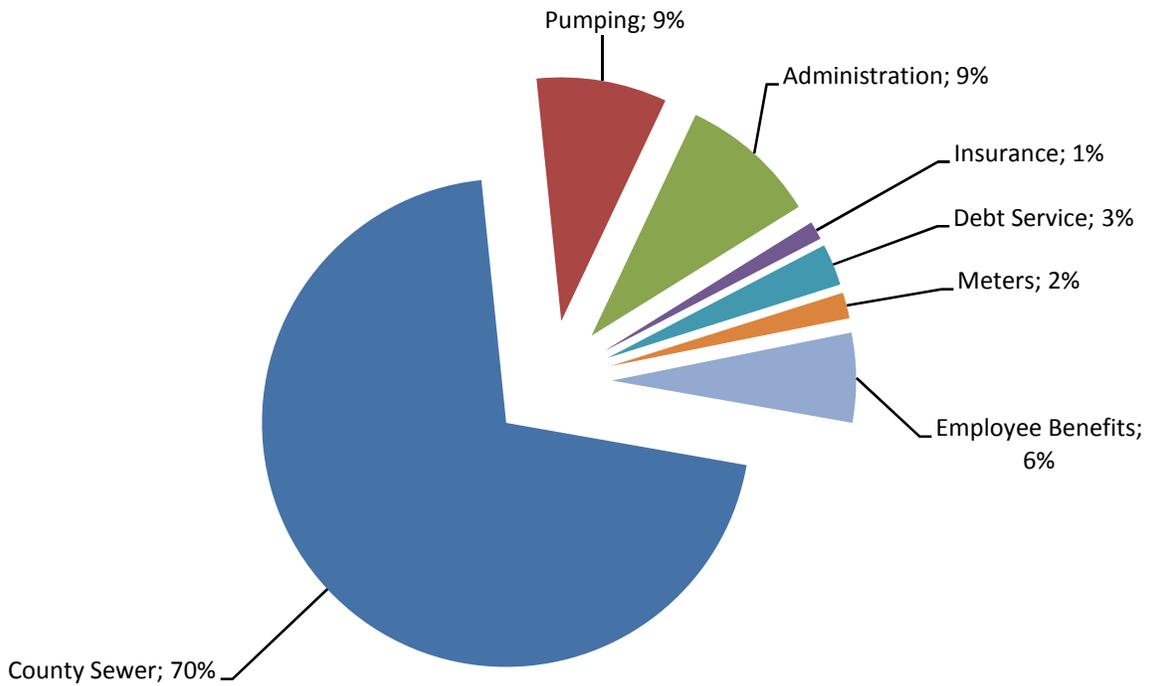
F. Expenditures Breakdown:

The charts on the following page represent the water and sewer expenditures for the year 2013:

2013 Water Budget



2013 Sewer Budget



VII OFFICE OF THE CITY ENGINEER

A. Overview

The Office of the City Engineer is a division of the DPW and provides an in-house consulting service available to all departments and residents. The City Engineer's Office consists of the City Engineer, Assistant City Engineer, Senior Engineering Technician, Survey/AutoCAD Technician, Administrative Assistant, Utility Locating Technician and an Engineering Technician. They provide engineering and surveying services to the DPW on various storm sewer, sanitary sewer, water, sidewalk, street and building projects. In addition, they work with the DPS and the Mayor's office on various projects. They work closely with the Planning Board in reviewing site plans and subdivisions and have provided engineering services to the Zoning Board of Appeals. Included below are the wide range of activities performed to assist the various departments in City Hall, as well as, assisting the public and numerous other committees and public groups.

B. Project Design, Management & Construction Administration

Where resources permit, the City Engineers Office identifies projects, prepares budgets, designs plans and specifications, assists with bid advertising, manages pre-bid meetings, reviews bidders qualifications, oversees bid openings, and makes award recommendations. These projects are then managed in-house during the construction phase through contract administration and field supervision. This saves funds that would otherwise be allocated to outside architecture and engineering firms. Here are the larger in-house projects for 2013 which the City Engineers Office was involved with:

- Canfield Casino Basement Moisture Remediation & First Floor Reinforcing
- City Court Room Renovations
- Grand Avenue Sanitary Pump Station Emergency Generator
- City Hall Annex Gutter and Roof Restoration
- Spirit of Life Memorial Landscape Conservation
- Water Treatment Plant Generator
- Water Treatment Plant Filter Rehabilitation
- Compost Facility Expansion
- Storm water Management Program (MS4)
- Woodlawn Reservoir Inspection
- Ballston Ave Traffic Improvements
- Weibel Ave Landfill Monitoring
- Landfill Compost Site SPDES Permit Renewal
- Bog Meadow Secondary Water Supply Pump Station Upgrade
- Adams Street Pump Station Upgrade
- Storm water Pollution Prevention Program (MS4)
- EBP Parking Deck LED Lighting Retrofit Design
- West Ave Fire Station Roof
- Court Resurfacing Bid
- Water Treatment Plant
- Hodgeman Street Parking Plan
- Fire Sprinkler Repairs - Various City Bldgs

- City Center City Center Parking Lot
- Vernon Rink Ice Arena
- City Hall Music Hall Restoration Work
- Worth Street Parking Lot
- Water Distribution System improvements
- Environmental permitting of City facilities

The Engineering Department also prepares and reviews the following annual bid specifications at the request of DPW involving: storm drainage, solid waste, potable water testing, post closure landfill monitoring, precast structures, street lights, uniforms and other fleet equipment items.

C. Assistance to Other City Departments & Boards:

- Maintain inventory of City parcels, buildings and infrastructure. Current total is approximately 43 buildings, 113 parcels of land and 34 City owned structures. This information was updated with the MUNIS system and provides the City with a more comprehensive view of value of City property, providing a base for projecting repair expenses.
- Review issues for the Building Department regarding site plans, utilities, structural, septic systems, etc.
- Provide engineering assistance to the ZBA as requested on issues involving storm water, grading, etc.
- Planning & Zoning - site plan review for the Planning Board (75 Planning Board projects and reviewed 20 to 30 as-built drawings for project closeout from previous years projects).
- Review miscellaneous plans and specifications for the Recreation Department, Department of Public Safety and the Department of Accounts as needed.

D. Address Numbering System

Another facet of planning responsibility is seen in the involvement of addressing. The Office of the City Engineer is the official custodian of building number address system and allocates new numbers to new buildings and does such things that may be necessary to keep the address system up-to-date.

E. Annual Highway Inventory:

The DPW, through the Office of the City Engineer, is responsible for filing annual reports of Local Highway Inventory Update with the New York State Department of Transportation. This information is used by DOT in determining the City's eligibility for State-funded local highway aid. The City's total mileage of City owned streets for the year 2013 was roughly 146 miles.

F. Surveying and AutoCAD Mapping

The City Engineers Office continues to operate its Global Positioning System (GPS) to locate all sewer manholes, storm sewer structures, hydrants, water valves, decorative street lights, traffic signs, street signs and plotting them on mapping using a Geographic Information system (GIS).

The following is the 2013 list of work completed by the Survey Technicians:

- Survey and map of Wetland Establishment Areas – 1 and 2 for Spring Run Trail
- Design Walnut Street storm drain upgrades

- Topographic survey and map of Bog Meadow well field for consultant
- Conceptual site plan for Police Evidence Management Facility
- Topographic survey and map for future storm drain upgrades to Wedgewood Drive
- Topographic survey, map and design of parallel bay parking on Hodgeman Street
- Elevation study and design of storm drain upgrades for upper Tamarack Trail
- Survey and map of the Water Treatment Plant for generator consultant
- Survey, map and design of 13 Worth Street Parking Lot
- Began survey and map of existing conditions at the Compost Facility
- Began survey and map of Ritchie Place for water main upgrades
- Began survey and map for Crescent Avenue sanitary force main upgrades for consultant
- Assisted Casino expansion consultant with Adams Street Pump Station
- G.I.S. map of Riparian Owners to Village Brook, Spring Run and Congress Park Ponds Control of Aquatic Vegetation

Miscellaneous Survey Tasks:

- As-Built Site Plan review and part time construction observation
- HVAC inventory
- Bi-annual elevation survey of Canfield Casino
- Annual volume analysis of compost
- Right of way research/recon for tree crew
- GPS/GIS utility mapping
- Monument off road water main valves
- Provide support to the Planning and Building departments

ATTACHMENT 1

2014 VEHICLE LIST

DEPT	VEH #	YEAR	MAKE	DESCRIPTION	PLATE #	VIN #	STATUS
1	1	2003	FORD EXPLORER	SURBURBAN	K81825	1FMZU73K53UB91697	Out of Service
1	2	2006	FORD SD F-250	PICKUP	M16812	1FTSX21Y06ED64533	
5	3	2010	FORD F-350	PICKUP Diesel	M56005	1FTWF3BR6AEB25563	
1	4	2004	DODGE 2500	PICKUP	L51940	3D7KU26D94G217802	
1	5	2008	FORD F-350	PICKUP	M31391	1FTWF31YX8EC75078	
2	6	1999	CAT IT28G	LOADER SER#8CR01771	K76713	8CR01771S23204	
1	7	2001	DODGE RAM	PICKUP/ QUAD CAB	K10599	1B7KF23671J591443	Auctioned 6/13
4	8	2001	FORD F-450	SMALL DUMP	K10614	1FDXF47F01ED15931	
16	9	2004	DODGE RAM 2500	PICKUP	L51947	3D7KU26D14G217793	
3	10	2005	FORD F250 4x4	PICKUP	L91998	1FTNF21585EC87172	
1	11	2000	INTERNATIONAL	DUMP	M37461	1HTGEAHR5YH342925	
1	12	2002	DODGE 2500	PICKUP	K39906	3B7KF26ZX2M268577	Out of Service
1	13	2002	INTERNATIONAL	DUMP	R31116	1HTGEAHR92H504269	
18	14	2001	DODGE RAM 2500	PICKUP	K10621	3B7KF26Z41M565469	
18	15	1999	IT-28B CAT	LOADER	K76695	08CR01882	
1	16	2000	INTERNATIONAL	DUMP	K76688	1HTGEAHR3YH342924	
2	17	2000	INTERNATIONAL	DUMP	M37463	1HTGEAHR8YH250451	
2	18	1997	INTERNATIONAL	DUMP	M37464	1HTGEAUR9VH487144	
5	19	2005	FORD F-250	PICKUP	L62358	1FTNF21525EC96854	
							Auctioned 6/13
5	21	2004	DODGE 2500	PICKUP	L51939	3D7KU26D74G219354	
	22						
1	23	2008	FORD F-350	PICKUP	M37451	1FTWF31R78EE29092	
							Auctioned 6/13
							Auctioned 6/13
1	26	2000	INTERNATIONAL	DUMP	M37465	1HTGEAHR7YH251039	
1	27	1993	JOHN DEERE 772B	GRADER	K76735	DW772BH544277	
1	28	2005	FORD F-350	PICKUP	L62328	1FDSF35P25EA45056	
7	29	1997	GMC 3500	CHASSIS CAB w/BOOM	K76721	1GDKC34J3VJ511252	Out of Service
7	30	2000	FORD ECONOLINE E-150	CARGO VAN	K76692	1FTRE1423YHB66939	
1	31	1999	INTERNATIONAL 2574 4x2	DUMP	M37466	1HTGEAHR5XH681215	
1	32	2006	FORD F350 w CREW CAB	PICKUP	M16807	1FTWW33P06ED27402	
1	33	2002	INTERNATIONAL	DUMP	K30870	1HTGEAHR52H504270	
1	34	1999	INTERNATIONAL 2574 4x2	DUMP	M37467	1HTGEAHR3XH681214	
6	35	2002	INTERNATIONAL	CAB/CHASSIS	K10674	1HTSCAAR62H502313	
	36						
1	37	2002	DODGE 2500	PICKUP	K39915	3B7KF26Z82M268576	
1	38	2002	FORD F450	SMALL DUMP	K39918	1FDXF47F52EC80188	
2	39	1985	CAT 12G	GRADER	K76726	61M11200	
1	40	1999	FORD F350	PICKUP	K76715	1FTWF33F3XEB32466	Out of Service
							Auctioned 6/13
1	42	2000	INTERNATIONAL	DUMP	K76702	1HTGEAHR3YH251040	
							Auctioned 6/13
1	44	2003	STERLING L8500	DUMP	M37468	2FZAAWCY83AL08597	
1	45	2003	STERLING L8500	DUMP	M37469	2FZAAWCY63AL08596	
							Auctioned 6/13
18	47	1995	INTERNATIONAL	DUMP	K42991	1HTGEAURXSH628640	
2	49	2003	FORD F-350 4x4	PICKUP	L81865	1FTSF31P63ED85298	Out of Service 6/26/13
1	50	2007	FORD F-450	GARBAGE TRUCK	M20811	1FDXF47P77EA84690	
1	51	2000	CAT IT-28 ENG #4TF57976	LOADER	K76696	8CR02292	
							Auctioned 6/13
1	53	1997	INTERNATIONAL	DUMP	M37470	1HTGEAUR0VH487145	
1	54	2002	INTERNATIONAL	DUMP	K39911	1HTGGAHT02H514467	
8	56	1991	INTERNATIONAL w/CAMEL	SEWER JET	K76748	1HTSCNMN8MH382498	
1	58	2005	INTERNATIONAL	DUMP	L62346	1HTWAAARX5J080339	
1	59	2005	INTERNATIONAL 7600	DUMP	L91979	1HTWZAHRO5J001906	

2014 VEHICLE LIST

DEPT	VEH #	YEAR	MAKE	DESCRIPTION	PLATE #	VIN #	STATUS
1	61	2003	DODGE	PICKUP	L81872	3D7KU26D83G837281	
1	62	2007	FORD	F-450 Diesel	M20813	1FDXF47P87EB38868	
18	63	2004	INTERNATIONAL-7600	DUMP	M37471	1HTWXAHT34J086126	
6	64	2004	INTERNATIONAL-7300	CHIP BOX DUMP	L81892	1HTWAAAR84J091192	
1	65	2004	CATERPILLAR	IT28G LOADER	L51971	SER #DBT01176	
18	66	2002	DODGE RAM	2500 PICKUP	K10642	3B7KF26Z02M288904	
18	67	2005	FORD F350	w/CREW CAB PICKUP	L62351	1FTWW33P05EC87840	
							Auctioned 6/13
21	69	1994	FORD F-150	PICKUP	K76740	1FTEF14N0RNB16606	Out of Service 6/26/13
3	70	2005	INTERNATIONAL	7600 DUMP	L91978	1HTWZAHR45J003349	
3	71	2005	FORD F-350	UTILITY PICKUP	L62327	1FDSF35PX5EA39313	
3	72	2002	CATERPILLAR	EXCAVATOR MODEL M318		SER # L8AL03355	
3	73	2001	UTILIMASTER/FREIGHTLINE	VAN	K10603	4UZAASBW91CH89195	
							Auctioned 6/13
3	75	2001	FORD F-550	UTILITY PICKUP	K10524	1FDAF57F31EC60421	
							Auctioned 6/13
1	79	1994	FORD RANGER	PICKUP	K39904	1FTCR10A6RTA41410	
3	80	2003	DODGE RAM	3/4 TON CARGO VAN	L81835	2D7JB21Y63K525345	
18	81	2006	ELGIN PELICAN	SWEEPER	M16810	P4821D	
22	82	1999	FERMAC	TLK860 BACKHOE/LOADER	K76697	SMFB44ECOX8604799	Out of Service 6/26/13
1	83	2001	FORD-F-350	PICKUP	K10515	1FTSF31F01EB89930	Out of Service 6/26/13
21	84	2006	FORD E-250	VAN	L51975	1FTNE24WX6HA09400	
18	85	2002	ELGIN PELICAN	SWEEPER	K39919	P3836D	
							Auctioned 6/13
21	87	2006	FORD E-250	VAN	L62374	1FTNE26W76HA09404	
5	88	1997	FORD F-250	PICKUP	K76733	1FTHF26F2VEA90142	Out of Service 6/26/13
	89						
15	90	2005	JOHN DEERE	624J 4WD TRACTOR/LOADER	L51999	DW624JZ599505	
3	91	2008	CATERPILLAR	BACKHOE/LOADER 430E	M31399	CAT0430ETDDT00800	
	92						
	93						
							Auctioned 6/13
7	95	2007	FORD F-450	UTILITY PICKUP	M20807	1FDXF47P57FA13584	
3	96	1997	FORD F-350	UTILITY PICKUP	K76727	1FTHF36F8VEB36370	Out of Service 6/26/13
2	97	1996	INTERNATIONAL	DUMP	M37472	1HTGEAUR1TH329782	Auctioned 6/13
1	98	2008	INTERNATIONAL	DUMP	R31115	1HTWZAHR08J562787	
1	99	1996	INTERNATIONAL	DUMP	K76730	1HTGEAURXTH329781	Auctioned 6/13
	100						
5	101		TORO WORKMAN	2100 UTILITY VEHICLE			
18	102	1988	PEERLESS	DUMPER TRAILER 20'	K76687	TWTT4016	
							Auctioned 6/13
18	104	1998	BRI MAR	TRAILER	K76714	43YDC1620WC001337	
1	105	2001	JOHN DEERE	TRACTOR w/AL IS74 MOWER		SER# L06110306589	
5	106	1995	TORO	MOWER			
5	107	2002	TORO WORKMAN	3200 MOWER MODEL 07200		SERIAL # 210000369	
5	108	2002	TORO GROUNDMASTER	4 MOWER MODEL 30410		SERIAL # 220000283	
5	109	2002	NEW HOLLAND	2120 TRACTOR/LOADER #SIC0310		T 3UV33402/ L	
16	110	2002	SMITHCO	SAND PRO		SER.# 4654	
4	111	1985	HUDSON BROS.	TRAILER	A45708	A0HHBC14F1000055	
1	112	2002	KAWASAKI	MOWER		2KAXS4312CA	
18	113	1991	CRAFTCO	TAR MACHINE			
1	114	2003	HAULMARK	TS610SA TRAILER	L80097	SN/16HCB10123PO29976	
5	115	1997	BISON TURF	BLAZER MOWER			
22	116		PEABODY BARNES	PUMP			
1	117	1997	GGSCMA/FLOWER	CART TRAILER			
1	118		CARPENTER	TRAILER			
5	119	1997	TORO	SAND PRO			
18	120		CRAFTCO	PAVEMENT CUTTER			

2014 VEHICLE LIST

DEPT	VEH #	YEAR	MAKE	DESCRIPTION	PLATE #	VIN #	STATUS
	121						
	122						
1	123	1999	GEHL SKIDSTEER SL6635-1	LOADER w/BUCKET/FORKS	K76729	SER# 11918	
1	124	1999	CASE IH CX90	TRACTOR	K76694	SER #JJE1011348	
24	125	1993	OLYMPIA	RESURFACER		RC8906778	
24	126	2001	OLYMPIA	RESURFACER		2GCDK14H1K1185619	
5	127	1957	FORD	TRACTOR		SER # 127506	
5	128		TORO	MOWER			
7	129	2006	VERMEER RING-O-MATIC	VACUUM SYSTEM- 275		1R9J216185P303039	
5	130	1980	KUBOTA-185W/CARONI	TRACTOR			
18	131	1987	DRESSER 4-6 TON	STATIC ROLLER			
	132	1986	HYSTER C-330	STATIC ROLLER		A158C21396	
1	133	1950	MACK	TANKER	K76743	505S2086	
19	134	1985	Q-125 LeROI	AIR COMPRESSOR			
6	135	2001	VERMEER 752/DENTZ ENG	STUMPER w/AUTO SWEEP	SER# 1VRN1514911000639		
18	136	2004	JOHN DEERE MODEL 4210	TRACTOR w/ATTACHMENTS	SER # LVR	10H321837	
	137	2004	INGERSOLL-RAND	ROLLER		SER #179922	
2	138	2005	GRADALL XL 4100		L62350	# 0210017575	
5	139	1975	JOHN DEERE 301A	TRACTOR		S/N 214129T	
1	140	1975	JOHN DEERE 301A	TRACTOR			
5	141	2000	B. FOSTER	TRAILER	K87638	4YTDS2027YW004789	Auctioned 6/13
16	142	2000	JOHN DEERE	MOWER		SER # M02148H011150	
15	143	2006	TIMBER WOLF	FIREWOOD SPLITTER		TW610058211	
18	144	1999	VOHL	SNOWBLOWER	K76744	NV970	
24	145	2001	TORO PROLINE 30154	MOWER S/N 200000175	ENG MOD	28B702 TYPE 1041-E1	
7	146		FORD-OWENS	GENERATOR			
	147						
	148	1997	GAC LANDSCAPE TRAILER	TRAILER	K87639	1G91A20200S203003	
1	149	2000	TENNANT 800	SWEEPER		8004477	
3	150	2000	2000 INGERSOLL RAND	AIR COMPRESSOR		SER # 308677-UBK-221	
5	151	2000	GAC 16E10	TRAILER	K87640	1G94A1628YS203043	
15	152	1986	INTERNATIONAL	DUMP	C54169	1HTLDUXN3GHA60981	
1	153	2000	BRI-MAR	TRAILER	K76690	43YDC1620YC007674	Auctioned 6/13
5	154	2000	SWEEP STAR	TURF SWEEPER MODEL #77-100BF		SER# D-1445	
16	155	2000	JOHN DEERE SABRE	TRACTOR MODEL #	2148HV	MO2148H011150	
6	156	2001	SALSCO MODEL 813	CHIPPER	K10502	SER#01010500100520998	
1	157	2001	GAC #610U29	TRAILER	K10595	1G91A10191S203037	
18	158	2001	BRI-MAR	TRAILER	K10613	43YDC16281C010487	
4	159	2001	628 TURFCAT 26 HP 2WD	MOWER w DECK		SER##94671300302	
6	160	2003	WACKER MODEL # RSS800	TAILGATE ROLLER		SER # 5396909	
5	161	2003	TORO GROUNDSMASTER 2	MOWER		SER 230000384/MODEL # 30242	
1	162	2003	TORO GROUNDSMASTER 2	MOWER		SER 230000429/MODEL # 30242	
18	163	2003	BRI-MAR MODEL DT818-20G	TRAILER	L81867	43YDC20263C022347	
6	164	2003	BANDIT MODEL 150	CHIPPER		SER# 4FMOS15193R019026	
1	165	2004	NORTH STAR 459221	GAS PORTABLE AIR COMPRESSOR		SER# 02041768	
1	166	2004	TORO	MOWER		SER# 230000408 MODEL #30242	
1	167	2004	TORO	MOWER		SER# 230000138 MODEL #30625	
3	168	2004	BRI MAR	UTILITY TRAILER	L51955	43YDC10224C026245	
1	169	2004	TORO GRANDMASTER	MOWER/SNOWBLOWER		SER #240000439 MODEL 30242	
3	170	2004	TOP BRAND	TOP RAIL TRAILER	L62392	5HLET08184F044322	
1	171	2005	G.A.C MACHINE	UTILITY TRAILER	L62391	1G91A12285S203015	
18	172	2005	BRI-MAR	TRAILER	L62368	43YDC14275C044221	
1	173	2005	TORO WORKMAN 3200	UTILITY VEHICLE MODEL7361		SER# 250000507	
5	174	2005	TORO WORKMAN 3200	UTILITY VEHICLE MODEL7361		SER# 250000533	
5	175	2005	TORO SAND PRO 5020	3- WHEELER		SER# 250000614	
4	176	2006	JOHN DEERE 6X4 GATOR	UTILITY VEHICLE- Diesel		ID# W0006X4D041489	
4	177	2006	TORO WORKMAN 3300D	UTILITY VEHICLE MODEL 7362		SER# 260000355	
1	178	2006	TOP BRAND	TRAILER	M20806	VIN# 5HLAB12276F064119	
1	179	2006	AQUAMARINE TDT 230	WEED HARVESTER- H6-230	M20808	2E9BJ34CX61008003	
	180	2002	WACKER 5045A	TAMPER			
1	181		MK DIAMOND SAW 20	HONDA GX620		SER # 582085	

2014 VEHICLE LIST

DEPT	VEH #	YEAR	MAKE	DESCRIPTION	PLATE #	VIN #	STATUS
1	182		MK DIAMOND SAW	HONDA 13		SER # 253348	
1	183	2006	CUB CADET 530 SWE	11HP, 30" SNOW BLOWER		SER# 1G255B10154	
1	184	2006	CUB CADET 530 SWE	11 HP, 30" SNOWBLOWER		SER# 1H035B10208	
5	185	2000	TORO WORKMAN 7302	UTILITY VEHICLE MODEL 7302		SER.# 200000562	
1	186	2007	BOBCAT S-185	SKIDSTEER/ LOADER	M20817	# 53031766330012007	
24	187	2006	GENIE	SCISSOR LIFT		SER.# 55375	
1	188	2007	LAWNBOY	MODEL 10795		SER. # 270001782	
1	189	2007	LAWNBOY	MODEL 10795		SER. # 270001783	
1	190	2007	GENERATOR (SENIOR CTR)				
5	191	2007	TORO LAWN MOWER	MODEL 22189		SER.# 270000232	
5	192	2007	TOTO LAWN MOWER	MODEL 22189		SER.# 270000257	
5	193	2007	WACKER RD16	ROLLER		SER.# 5750262	
1	194	2007	TOP BRAND	TRAILER	M31379	5HLAB12217F070421	
5	195	2007	BRI MAR	DUMP TRAILER	M31380	43YDC14237C063271	
1	196	2008	CAM SUPERLINE	UTILITY TRAILER	M31384	5JPBU25268P019468	
1	197	2007	GENERATOR (CITY HALL)				
1	198	2008	WACKER PLATE TAMPER	WP 1550 AW		SER.# 6655784	
1	199	2008	WACKER PLATE TAMPER	WP 1550 AW		SER.# 6655787	
1	200	2007	VERMEER TUB H66000	TUB GRINDER		1VRY4531771000302	
12	201	2000	FORD EXPLORER E250	SUBURBAN	K76700	1FMZU71X8YZB75101	
5	202	2008	TORO	SANDPRO 5040		270001135	
4	203	2008	BRIMAR	TRAILER DT714LPHD14	M37457	43YDC192X8C071720	
12	204	1999	FORD E250	VAN	K76712	1FTPE2428XHBOS372	
1	205	2008	ARIENS	SNOWBLOWER ST 1332 DLE		Ser.#003834	
1	206	2008	ARIENS	SNOWBLOWER ST 1332 DLE		Ser.# 004251	
12	207	2001	CHEVROLET BLAZER	VAN	K30867	1GNDT13W41K247663	
12	208	2008	CHEVROLET TRAIL BLAZER	SUV	M37453	1GNDT13S382253221	
1	209	2008	BRIMAR	TRAILER DT814-14BN	M37456	43YDC14258C071406	
1	210	2009	FORD F350	PICKUP	M54832	1FTWF31R69EA35603	
1	211	2009	INTERNATIONAL w BOOM	CHASSIS CAB w BOOM	M54833	1HTMMAAN09H130528	
1	212	2009	FLOWER TRAILER	HOME MADE	M54840	ID# NYA598981	
1	213	2009	INGERSOLL-RAND BX-8WH	18" PLATE COMPACTOR			
1	214	2009	TORO LAWN MOWER			290000820	
1	215	2009	TORO LAWN MOWER			290000821	
1	216	2009	TORO LAWN MOWER			290000822	
1	217	2009	TORO LAWN MOWER			290000823	
1	218	2009	ARIENS ST30DLE	SNOWBLOWER		Ser.# 001709	
24	219	2009	ARIENS ST30DLE	SNOWBLOWER		Ser. # 004440	
3	220	2010	FORD F350	PICKUP	M56007	1FTWF3B53AEA74584	
5	221	2010	TORO LAWNMOWER	Model 30467		Ser.# 31000105	
7	222	2011	INTERNATIONAL 7500	DUMP (Sewer Vac.)	R10414	1HTWNAZT9CJ619034	
5	223	2012	NORTH NEWTON	TRAILER	R10415	4KPBF1317CN006076	
1	224	1976	International	Dump		1HTLDUXN3GHA60971	
21	225	2007	JEEP	Patriot	R10416	1J8FF28W27D251255	
1	226	2012	FORD F-350 D	Pick-up Dual Axle	R24103	1FTRF3DT8CEB09163	
6	227	2012	FORD F-350 D	Pick-Up	R24104	1FTRF3BT9CEB09160	
5	228	2012	FORD F-250	Pickup	R24106	1FT7W2B64CEB24046	
1	229	2012	BRIMAR	TRAILER DT818-20 GN	R24110	43YDC2923CC093315	
7	230	2009	KUBOTA	EXCAVATOR MODEL KX713		S/N 11796	
1	231	2006	JGL	LIFT MODEL 600AJ		S/N 0300088879	
1	232	2012	Goodall Car Starter				
21	233	2002	MERCURY SABLE	Station Wagon	R24115	1MEHM59S72G655600	
1	234	2011	FORD Escape	SUV	R24119	1FMC49D76BKB69567	
1	235	2011	FORD E-250	Van	R24116	1FTNE2EW2BDA57232	
1	236	2012	CHEVROLET	Van	R24118	1GCSGAFX4C1133275	
1	237	2012	Honda	Plate Compactor		S/N # 27608302	
1	238	2013	BRI MAR	Trailer	R24121	43YDC2921DC096974	
1	239	2013	BRI MAR	Trailer	R24122	43YDC2928DC096972	
6	240	2013	Carry-On	Utility Trailer	R24123	4YMUL0818DV013493	
5	241	2013	Caterpillar	Loader	R31100	CAT0930KLRHN01677	D
1	242	2013	BOBCAT S-650	Skid Steer	R31101	A3NV21881	

2014 VEHICLE LIST

DEPT	VEH #	YEAR	MAKE	DESCRIPTION	PLATE #	VIN #	STATUS
2	243	2013	FORD F-350 D	Pick-Up	R31105	1FT8W3DT8DEB53080	D
6	244	2013	FORD F-350 D	Pick-Up	R31106	1FT8W3DT8DEB53079	D
1	245	2014	INTERNATIONAL	Dump	R31108	1HTWLAZR2EH770236	D
1	246	2014	INTERNATIONAL	Dump	R31107	1HTWLAZR4EH770237	D
5	247	2013	TORO Z-Master 2000 Mower	Mower Model #74141		SER 313000394	
1	248	2009	FORD F-150	Pick-Up	R31114	1FTRF12W79KB65123	
2	249	2013	Chicago Pneumatic	Tamper		bgf033255	
21	250	2007	Chevrolet	HR	R31122	3GNDA13D07S593713	
5	251	2014	TORO Groundmaster 4000-D	Mower Model #30448N			
	252						
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11	273	1998	CHEVROLET	SUBURBAN	K76717	1GNDM19W2WB167161	
	274						
	275		MISCELLANEOUS, ETC.				
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	279						
	280						
VEHICLE DEPARTMENTS							
1			STREETS		15	TRANSFER/COMPOST	
2			HIGHWAYS		16	WTR TREATMENT	
3			WATER MAINTENANCE		17	STREETS/SWC	
4			PARK/CASINO		18	STREETS/HWY	
5			REC COMM		19	STREETS/WTR MAINT	
6			TREES		20	PUBLIC HEALTH	
7			SEWAGE PUMP		21	WATER METERS	
8			SEWER ADMIN		22	SEWER ADM/SWC	
9			POLICE		23	STS/HWY/WTR.TRT	
10			EMERGENCY CORPS		24	RINK	
11			ASSESSORS		25	BLDG.INSPECTOR	
12			ENGINEERS		26	MISCELLANEOUS	
13			FIRE		27	ELECTRICIANS	
14			CITY CENTER				

ATTACHMENT 2

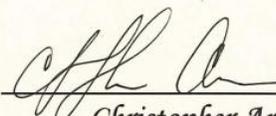
*Saratoga Springs Preservation Foundation
2013 Preservation Recognition Award*

Roof Restoration Award

*Drink Hall
297 Broadway*

City of Saratoga Springs


Samantha Bosshart
Samantha Bosshart
Executive Director


Christopher Armer
President

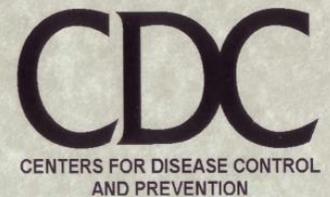
Association of State and Territorial Dental Directors
Centers for Disease Control and Prevention

CERTIFICATE OF APPRECIATION

50 Year Award, 1962 - 2012

City of Saratoga Springs

*for contributions made
on behalf of
community water fluoridation*



NEW YORK
state department of
HEALTH

Nirav R. Shah, M.D., M.P.H.
Commissioner

Sue Kelly
Executive Deputy Commissioner

February 26, 2014

Mr. Thomas J. Kirkpatrick
Chief Water Operator
Saratoga Springs City
5 Lake Avenue
Saratoga Springs, NY 12866

Dear Mr. Kirkpatrick:

The New York State Department of Health (Department) applauds your commitment to providing optimally fluoridated water to the community and efforts to help improve oral health by reducing tooth decay.

The Department has been informed that the City of Saratoga Springs has been awarded a 2012 Fifty-Year Fluoridation Award from the Association of State and Territorial Dental Directors, American Dental Association and the U.S. Centers for Disease Control and Prevention (CDC). The award recognizes those water systems that reached fifty years of continuous water fluoridation in 2012. Your water system was one of only three systems that qualified for this award in New York State this year. The Department recognizes the hard work and dedication of your water system's operators.

Community water fluoridation has been recognized by CDC as one of ten great public health achievements of the 20th Century. Nearly three-quarters (73.9 percent) of the nation's population, or 204 million people, served by community water systems have access to optimally fluoridated tap water. CDC recommends water fluoridation as safe, effective and inexpensive method of preventing tooth decay. In large systems, every \$1 invested in fluoridation saves at least \$38 in cost for dental treatment.

Thank you for your commitment to the oral health of your residents. If you would like additional information about oral health programs in New York State, please feel free to contact Ms. Erin Knoerl at 518-474-1961 or exk08@health.ny.gov.

Sincerely,



Jayanth Kumar, D.D.S., M.P.H.
Director
Bureau of Dental Health



Roger C. Sokol, Ph.D.
Director
Bureau of Water Supply Protection

cc: Hon. Yepsen
Ms. Duncan

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