

**City of Saratoga Springs
Department of Public Works**

2012 Annual Report



**Streets & Highways Department
Buildings & Grounds Department
Solid Waste Department
Water & Sewer Department
Office of the City Engineer**

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Health * History * Horses



Executive Summary

The purpose of this Annual Report is to provide an overview of the 2012 City of Saratoga Springs Department of Public Works (DPW) operations. The report describes the functions of the various DPW Divisions. The DPW's efforts continue to make Saratoga Springs a beautiful, vibrant, safe and sustainable City. We design, build, operate, maintain, and improve the City's infrastructure, public rights-of-way and facilities with skill, pride and responsiveness, in partnership with the community.

DPW's efforts to continually enhance our streetscapes, neighborhoods and corridors make areas inviting and a good investment for small businesses and for residents to enjoy time outside. DPW's significant efforts to preserve and enhance the integrity of its historic landmarks is critical to support the future of tourism and the economy of Saratoga Springs.

DPW continues to implement cost saving measures including capital improvements to its aging utility infrastructure. Water sales have been steady through 2012 with the City's price of \$11.80 per 1,000 cubic feet of water. This is two to three times less than the rates of surrounding municipalities. Last year's infrastructure improvements focused mainly on the Water Treatment Plant at 111 Excelsior Avenue, built in 1935, which treats surface water from Loughberry Lake & the Bog Meadow Impoundment Area. 2012 was the start of a \$1.6 million, four part project to replace four multi-media filter beds. The filter beds have been operating with the same filter media material since 1968. In addition to the filters, aging controls, sections of piping and valves are being replaced. This year-long project allows the plant to continue operating while the filters are replaced one at a time. DPW is committed to improving these critical functions of the Water Treatment Plant to provide Saratogians with a safe and reliable water source for many years to come.

Every part of Saratoga Springs, including each resident and visitor, is touched by the work of our Department. DPW works 24 hours a day, cleaning, paving, building, designing, operating and maintaining the City's infrastructure. I am proud to showcase our accomplishments in this year's 2012 Annual Report, which illustrates the valuable contributions that our employees have made over the past twelve months.

Respectfully,

Anthony "Skip" Scirocco
Commissioner of Public Works

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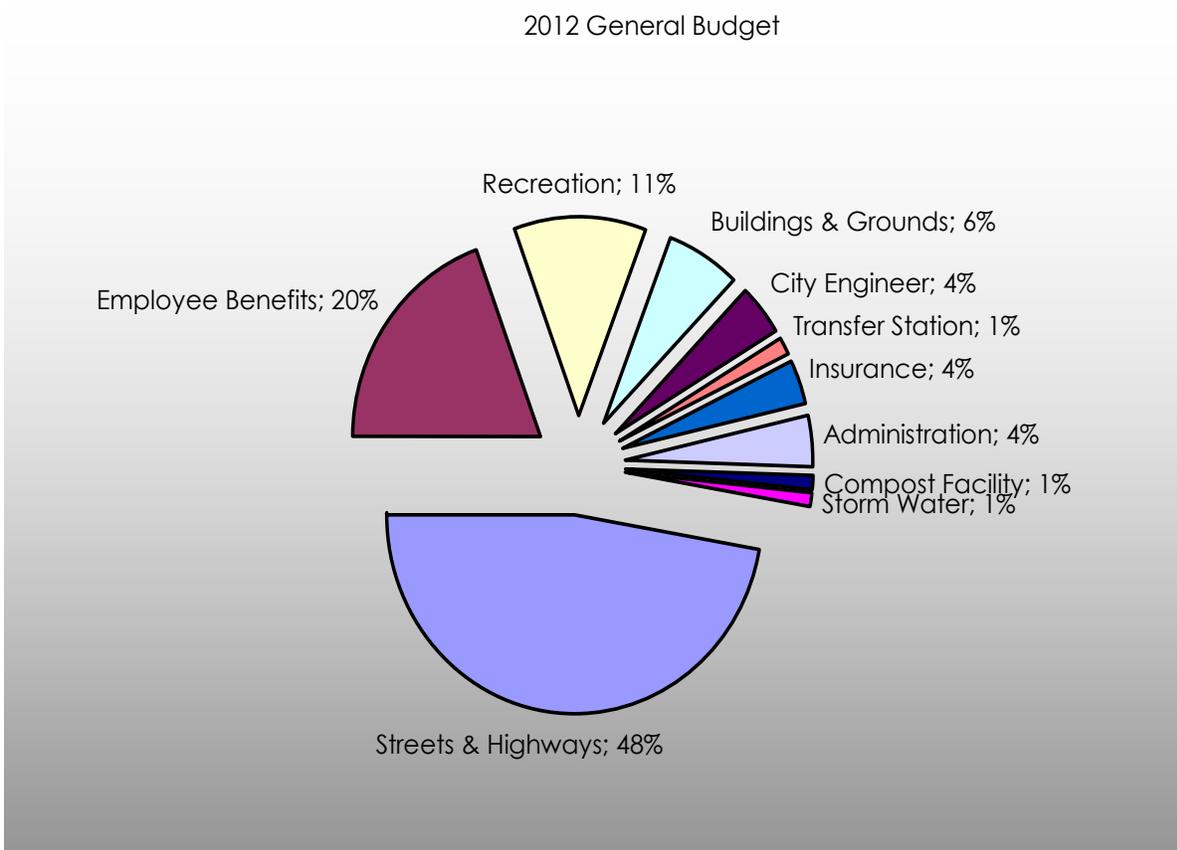
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I. INTRODUCTION

A. Expenditures Breakdown:

The following report presents the activities of the Department of Public Works (DPW) for the year 2012 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:

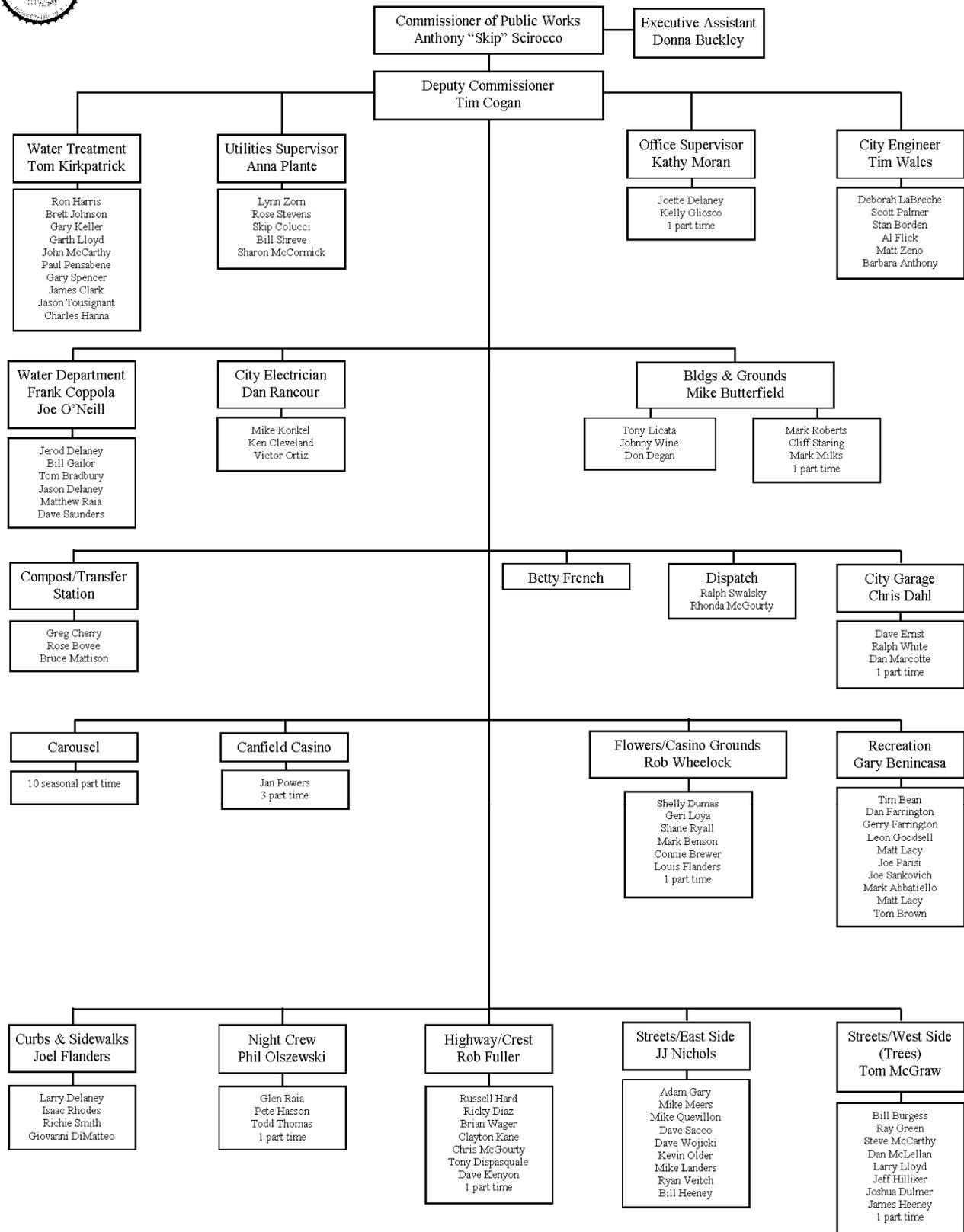


B. Organizational Chart:



ORGANIZATIONAL FLOW CHART

City of Saratoga Springs
OFFICE OF PUBLIC WORKS



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
- 24 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 & Parking Decks w/ new Long Alley Parking Deck
- 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 by 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
- MS4 Administration & Enforcement
- 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 were honored at a public ceremony on May 31, 2012. The 2012 awarded project was constructed in 2011 and included the restoration of the exterior Museum stairs, clay brick paver sidewalk and deteriorated brownstone on the building facade. Radiant heat tubing was installed beneath the stairs and sidewalk along the building frontage, avoiding the need for snow removal and damage from deicing chemicals.

DPW's efforts were recognized with this SSPF award, which is the second 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.

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, storm water structures 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 2012, DPW installed a little over 6,000 sq. ft. of concrete sidewalks, of which approximately 2,270 sq. ft. were paid for by residents, 1,600 sq. ft. by the Special Assessment District, and 2,200 s.f. by CDBG. We received \$15,884 from residents for their sidewalk replacements at a unit price of \$7.00 per s.f. DPW continually strives to meet the needs of the American With Disabilities Act. DPW 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 2012, the City was eligible for, and received, full CHIP's program funding in the amount of \$546,747.53.

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 23% increase from 2011. The following is a listing of those activities,

<u>2012 CHIPS Paving Projects</u>	<u>Project Cost</u>
Henry Street (Lake Avenue to Caroline Street)	\$28,717.88
Gilbert Road (Route 29 to 40 Gilbert Road)	\$53,082.32
Gridley Avenue (Nelson Avenue to Jefferson Street)	\$46,644.64
Bowman Street (Gridley Avenue to Crescent Street)	\$21,304.67
Jackson Street (Gridley Avenue to Crescent Street)	\$21,304.67
PD Harris Road (Ruggles Road to Sand Springs Drive)	\$22,148.97

Old Schuylerville Road (Route 29 to 80 feet inward)	\$22,116.71
Huestis Court (Broadway to end)	\$17,219.17
VanDam Street (Clinton Street to Tressel Lane)	\$24,784.53
Woodlawn Avenue (Van Dam Street to Greenfield Avenue)	\$39,654.25
Division Street (Beekman Street to Bensonhurst Avenue)	\$36,050.83
East Avenue (Bingham/McLean Streets to Excelsior Springs Avenue)	\$39,399.68
West Circular Street (Beekman Street to Elm Street)	\$30,039.31
Outer Grand Avenue (Milton Town Line to curve)	\$67,140.92
Adams Road (Industrial Park Road to Tennis Court Fence)	\$47,536.66
Wagon Wheel Trail (Ferndell Spring Drive to Wagon Wheel Court)	<u>\$29,602.32</u>

TOTAL CHIPS REIMBURSEMENT REQUEST \$546,747.53

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 2012, DPW prepared for the paving of the City's portion of the trail with excavation to the NYS Route 50 limit. The paving will be completed in 2013.

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. During 2012 the DPW was responsible for undertaking nearly 40 street repair projects related to water and sewer repairs and depressions in the roadways.

This task also involves normal restoration projects associated with pavement cuts caused by private contractors or Public Works utility crews doing work in City streets.

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 an ongoing 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 MS4 Program 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.

Tree, Planting, Pruning and Maintenance:

In 2012, the City of Saratoga Springs adopted a new initiative to plant only tree species that are native to, and historically in line with, old downtown species. DPW worked 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.

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.

Benches, bicycle racks, and trash bins on Broadway also improve the quality of life and are kept in good condition by DPW. In 2012 DPW fabricated and distributed additional horse head bicycle racks and benches for the comfort and convenience of the public.

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 is doing their part to "go green" by using new LED bulbs when possible to light the City's Christmas trees.

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. Right-of-way permits control the construction, alteration, installation and occupied uses in accordance with applicable laws 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 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

2012 included many safety training activities within the department's workforce. These sessions were coordinated with the assistance of the City's Director of Risk & Safety and focused on winter snow and ice control and snowplow safety. On several occasions, group sessions were held at the City Garage and various training films were presented and discussed with the various DPW employees assigned to snow plow duty. Some of the sessions included Confined Space Entry training for a new policy adopted in 2012 and Hazardous Communication training (MSDS).

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 (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 crews 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 specifications, and procuring all mechanized equipment.

B. Fuels and Liquids Inventory:

The DPW garage is responsible for 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 environmental regulations.

In 2012, DPW worked with Barton Loguidice Consulting Engineers to reconstruct and upgrade the City DPW garage fueling system in accordance with NYSDEC petroleum storage and fuel delivery regulations. The new station includes sophisticated leak monitoring and alarm systems, and improved safety measures.

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 purchasing 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 2012 by trading in the VacCon unit for two major pieces of pre-owned equipment:

- Used 60 ft extension boom lift to assist in the maintenance of multi-story buildings and other elevated structures.
- Used mini-excavator to improve productivity in tight areas and smaller projects.

Another cost conscious measure was the purchase of a sandblasting machine to enable DPW staff to refinish salvaged historic iron fencing, benches, and other painted items. This machine paid for itself under the Canfield Casino handicap ramp project in which DPW salvaged and refinished 180 ft of steel railing in-house, saving approximately \$25,000 in lieu of newly installed railing.

Attachment 1 includes a list of the 2012 DPW fleet that is managed by the DPW garage which includes over 200 running engines.

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
- Geyser Crest Water Treatment Plant
- Interlaken Water Treatment Plant
- Bog Meadow Secondary Water Supply Pump Station
- 24 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
- Geyser 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
- Geyser Park Garage
- Landfill Site

B. Canfield Casino and Congress Park

Casino:

In 2012, DPW designed and managed the restoration of the Casino handicap ramp. Prior to this, the ramp has been an eyesore to the park for many years. This project included a new brick veneer surface, decorative concrete coping, copper flashing, new LED lighting and restored railing. All concrete surfaces were replaced with Code compliant grades. DPW took advantage of the project disturbance to improve the area by installing new granite curbs along the east side of the access road and new pavement. This not only beautified the area, but helped to manage damaging surface runoff.

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 2012 the Canfield Casino booked 108 events, a 15% increase from 2011. Special chair rentals alone attributed to approximately \$5,700 in extra revenue, a 128% increase from 2011. 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.

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:

2012 marked the tenth 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 35 special events for the general public in 2012. The total revenue generated by the Carousel in 2012 was \$50,828, a 4% increase from 2011, hosting approximately 50,000 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

C. Waterfront Park on Saratoga Lake:

Through the efforts of the DPW and the Mayors 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 in 2012 was to make the Waterfront Park as usable as possible to the taxpayers within the limited budget.

Through the work of the DPW, the biggest obstacle to the long-awaited opening was resolved with the construction of a new access road. The City received \$200,000 in grant money toward improvements to the lot. Prior to this it was gated off for safety reasons due to the need for an acceptable road to the lower portion of the park. In addition, the former restaurant on the property was demolished by DPW crews after asbestos remediation was completed. DPW provided a newly paved and striped parking area.

As part of the State Environmental Quality Review process, the upper section of the property required an archeological team for potential findings on the site, an area of moderate development per the long term plan. As part of the three-phase plan developed in 2008, residents will eventually be able to swim. Currently, residents can enjoy the non-motorized boat launch, fish from the in-house dock constructed by DPW and enjoy the lake view. Many of the future planned improvements to the site are contingent on grant funding: grills, picnic tables, lighting, wooden decks, storm water upgrades, landscaping and informational kiosks and a potential amphitheater to be built into the side of the hill.

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. Some of the 2012 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
- Weddings
- Community Celebrations

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 three parks are located at Geyser 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 in Sept. of 2012. 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 2012.

- Replaced 12 Sternburg lights that were knocked down
- Fixed 187 Street lights that were not working
- Ran new service in conduit for light at 10 Tiffany Pl and light at 7 Timber Lane
- Replace electrical service at Casino pump station that had gone bad
- Emergent repairs of Quad two pump station force main break
- Upgrade of Grand Ave pump station
- Upgrade of Lake Ave pump station
- Takeover of the new Weibel pump station
- Retire ice rink pump station
- Upgrade of fuel station at garage
- Repair of Recreation Center generator breaker
- Replacement of electric meter box for Eastside football lights due to a phase melted
- Run new conduit and power to garage at ice rink
- Repair and upgrade of lighting at East side EMS part of fire station
- Replace electrical line for lights in park, put up three new lights in park

- Takeover of Woodlawn parking garage, replacement of 3 Sternburg lights on Woodlawn with LED lights, take down of National Grid cobra light and run new conduit and put up a Sternburg light to replace it
- Took over 25 Sternberg lights: 6 lights Market Place -corner of Division and Railroad Pl, 4 lights 60 Weibel Ave, 3 lights on Elm and Persimmon, 12 LED lights at new parking garage

The Electrical Crew is responsible for preventive maintenance, installation, and repair of:

- 24 sewage lift stations and associated alarm circuits: Biweekly operational check of all stations and alarms
- City outdoor lighting at all properties, Route 50 lights by SPAC, and 1,036 Sternberg decorative lights
- 17 emergency generators at City Hall, Senior Center, Geyser water plant, Interlaken water plant, main water plant, City garage, dispatch, Recreation Center, and at sewage pump stations
- City owned buildings, parks, and recreation fields: Camera systems, outdoor lighting, indoor lighting, emergency lighting, power, all electrical equipment, and running of computer lines
- Mineral springs and fountains in ponds
- Mark all electrical utilities for DSNY notifications.
- Order all materials and maintains inventory of all electrical equipment
- Supervise City's energy management system, control of heating of City Hall, control of heating and AC at Casino, Water Treatment Plant heat, and Recreation Center heating and AC
- Put up and take down all Christmas wreaths in downtown area, helping Flower crew with Christmas lights in front of City Hall and Casino,
- Put up and take down flower baskets in Spring and Fall
- Snow removal of streets and clearing of all pump stations, mowing of all pump stations and Geyser Crest Well field
- On 24 hour on-call to respond to all electrical emergencies including flooded pump stations, damage to deco lights 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 is in the process of purchasing a new trommel screen which will increase production and result in better quality of material being produced.

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 2012 yard waste material collected in 2011, 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.

2012 Compost Material Summary	Cubic Yards
Yard Waste/Raw Material	5,778
Mulch	5,635
Total Compost Material Currently Stockpiled	11,413

2012 Compost Distribution	Use in Cubic Yards
Individual Sales to area residents & businesses	3,171
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 2012 was at \$66,568, which helps to offset program costs.

10 Year Compost Revenue Collected

Year	Amount
2003	\$61,893
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
10 Year Total	\$693,166

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 2012 was \$168,350.79, a roughly 11% decrease from 2011.

C. Household Hazardous Waste Day

In 2012, the DPW hosted a Household Hazardous Waste Day made possible by a 50% reimbursement grant through NYSDEC. Saratogians had the opportunity to appropriately free up space in their basements and garages and dispose of old paint, turpentine and other hazardous chemicals they no longer need. This was the first time in two years the collection was held and DPW is hoping to make HHW Day an annual event.

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 distribution 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 Geysers 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.

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.

Water quality standards require turbidity and chlorine residual to be monitored continuously. Color, temperature, pH, alkalinity, hardness, fluoride and distribution turbidity is 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 were also performed. During 2012, 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.

2012 included many emergency repairs and replacements of broken down, aging equipment at the Excelsior Avenue Plant. These were made necessary due to budget restraints of the past several years. Fortunately, most of the repairs were made in house by our new Maintenance Supervisor who was hired in January 2012, at a great savings to the City. The underground facility at Geysers Crest was flooded out due to a broken pipe on January, 28 2012, which required the replacement of a great deal of metering equipment and controls. Again, most of the replacement work was able to be done in house minimizing the cost.

In 2012 a major long overdue capital project was begun upgrading all four filters at the Excelsior plant. This project entails putting in a new under drain system, replacing the filter media, installing new controls, and integrating an air scour back wash which will significantly lengthen filter runs and reduce the amount of water used in backwashing. This upgrade is projected to be completed in the summer of 2013.

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.

Geysers 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 Geysers Crest neighborhood. These wells primarily supply the Geysers 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 Geysler 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.

The 2011 Geysler Crest Well Field Improvement Project made it possible to increase the amount of water being pumped to the City from Geysler Crest, lessening the strain on the Excelsior Ave. Plant. Due to a sustained dry spell in 2012, two of the four main well pumps at Geysler Crest were turned down to sustain acceptable well levels One well is back to normal and the other is being monitored closely to see if steps are needed to increase flow.

Water production and usage for the City of Saratoga Springs for the year 2012:

	TOTAL
Gallons pumped from Loughberry Lake to Excelsior Ave., WTP	1,299,761,000
Gallons pumped from Geysler Crest	234,682,000
Gallons pumped from Interlaken	36,791,000
Total demand of City in 2012 1,571,234,000 (Approximately 4% increase from 2011)	

During the year 2012, the highest single day water consumption for the entire City occurred on July 13, 2012, when 8.743 million gallons were used, a 4% increase from 2011.

Bog Meadow Pump Station

In 2012 the City began developing a well system in the area of the Bog Meadow pump station to 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 to 1.5 million gallons per day (MGD) which will meet present source water capacity needs today and, potentially, for many years to come.

B. Water Modeling

In 2012, Chazen Companies was retained to develop a water system model and conduct field analysis throughout the City's water distribution system to determine the available system pressures, flows and chlorine residuals available within the water system.

Measuring the chlorine residual in a water supply is a simple but important method of checking that the water is safe to drink. Chlorine destroys most disease causing organisms without being a danger to people. Chlorine is used up as organisms are destroyed. Free chlorine will remain in the water until it is either lost to the outside world or used up destroying new contamination. Measuring the chlorine residual proves that most dangerous organisms in the water have been removed and it is safe to drink.

Thirty-six (36) locations were identified and coordinated with the City prior to commencing the field work. Chazen representatives collected the hydrant test data in July. Hydrant flow tests were performed in accordance with AWWA standards. Water samples were collected during each hydrant flow test and chlorine residual was measured. This information will be used to provide the City with short and long term water distribution system recommendations.

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 Road 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.

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 2012, DPW collected \$169,500 in new Water Service Connection fees, a 68% increase from 2011. 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. For example, the High Rock Condominiums project generated \$51,000 in connection fees.

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	<u>\$169,500</u>
	8 YEAR TOTAL	\$1,463,359

The following are some of the larger 2012 water line & sanitary sewer improvement projects:

- Bog Meadow Water Source - On-going
- Adams St Water Line Extension
- Construction of Phase 1 of the Water Filtration Rehabilitation Project
- Birch Run - Seward Street Water Main Extension
- Washington Street - On hold due to funding.

D. Water Service Lines & Emergency Repairs

Much of the 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 between the water main and the curb shut-off. 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 2012, the Utility Crew generated 60 Dig Safely requests which were prompted, in part, by needed repairs to water mains, water services, and hydrant replacements. This is a 30% increase from 2011. 30 of the 60 dig safely requests were the result of emergencies.

E. Storm Sewer Cleaning:

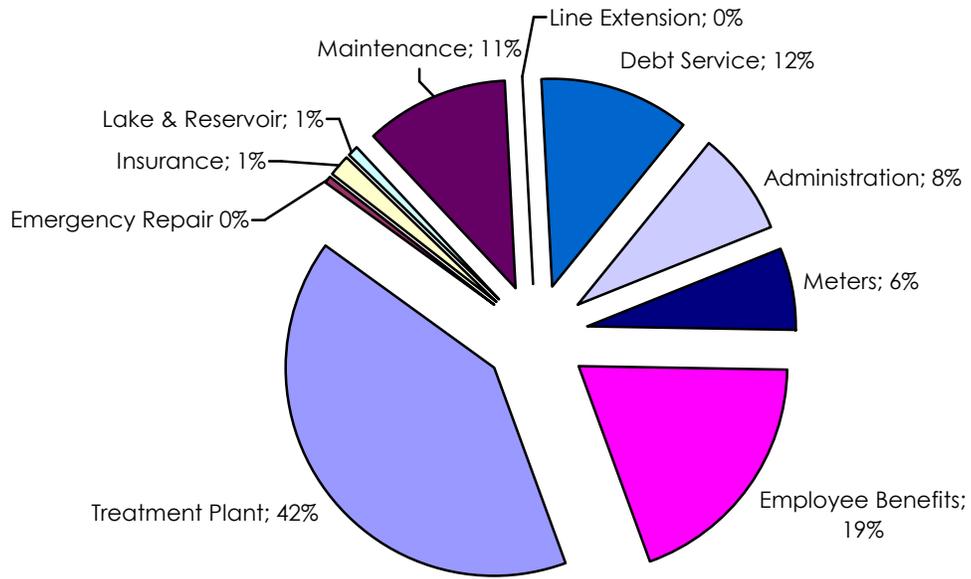
The City's system of underground storm sewers exists primarily throughout the downtown and inner city neighborhoods. Surface water, sand and typical street debris from the various streets serviced by this secondary collector system flows under city streets to the City's main collector system that runs 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 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. These are periodically cleaned by the City. Otherwise, the storm water is discharged directly to a pond, stream, or other water course.

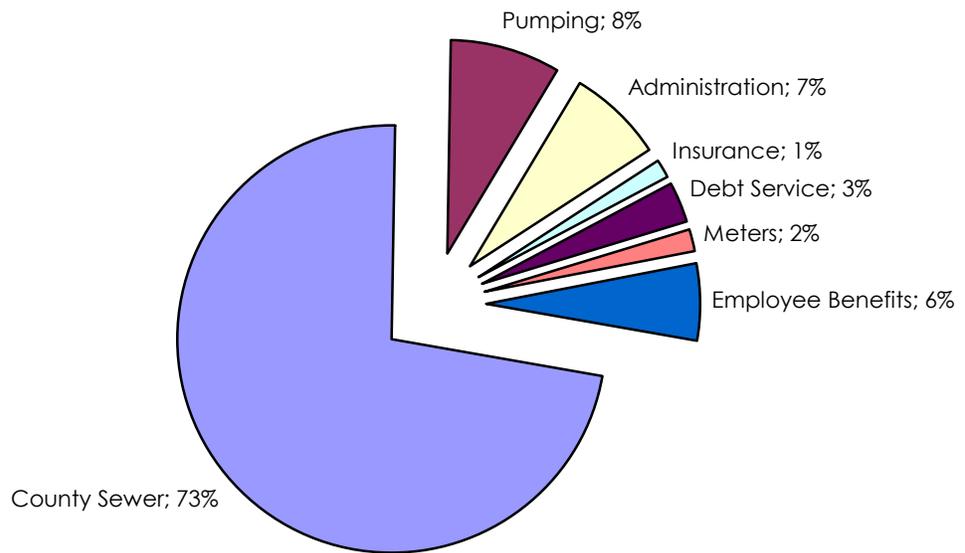
F. Expenditures Breakdown:

The charts on the following page represent the water and sewer expenditures for the year 2012:

2012 Water Budget



2012 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 Mayors 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 2012 which the City Engineers Office was involved with:

- Long Alley Parking Garage
- Canfield Casino Basement Moisture Remediation & First Floor Reinforcing
- Canfield Casino Handicap Restoration
- Visitors Center Slate Roof Restoration
- Weibel Avenue Ice Rink Dasher Boards Replacement
- City Court Room Renovations
- Railroad Run Bicycle Trail
- Spirit of Life Memorial Landscape Conservation
- Spring Run Trail
- Water Treatment Plant Generator
- Water Treatment Plant Filter Rehabilitation
- Compost Expansion
- Additional Water Source Development Plan
- Ballston Ave Traffic Improvements
- Weibel Ave Pump Station/Lake Ave Pump Station Upgrades
- Weibel Ave Landfill Monitoring
- Bog Meadow Secondary Water Supply Pump Station Upgrade
- Meadow Vista/Grand Ave Pump Station Upgrade & Generator
- Adams Street Pump Station Upgrade
- Pinewood Avenue Sewer Improvements
- NYRA Storm Water Flooding Issues
- SWPPP Program

- EBP Parking Deck LED Lighting Retrofit
- Lake Ave Fire Station Floor
- Capital Improvements Recreation Fields
- Lake Ave Fire Station Roof
- Woodlawn Ave Parking Deck II
- DPW Garage Fueling System Rehabilitation
- Nelson Avenue Drainage Area)
- Safe Routes to School Committee
- 911 Memorial Sculpture

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 (96 Planning Board projects, a 35% increase from 2011).
- 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 2012 was 145.99 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 2012 list of work completed by the Survey Technicians:

- Spirit of Life Restoration -Provide committee with topographic survey and digital map
- Additional Water Source Development Plant - Provide support as-needed & locate production well
- Casino Handicap Ramp - Provide pre-existing topographic survey and digital map
- Pinewood Avenue Sewer Improvements - Topographic survey and digital map of pre-existing conditions & design proposed 8" sanitary sewer and plan creation
- Circular St./Park Pl. Traffic Improvements - Topographic survey and digital map of pre-existing conditions & design new traffic intersection, drainage and plan creation
- Waterfront Park - Design and layout of new park entrance road & specify and layout for new fence
- Spring Run Trail Parking Lot - Topographic survey and digital map of pre-existing conditions, design parking lot layout and plan creation & specify proposed gazebo; design and layout of proposed foundation
- Spring Run Trail - Provide consultant with manufactured wetland "as-built" survey and digital map creation
- Tarquin Place - Research, survey and layout of existing alley
- Grand Avenue Pump Station - Research, survey and map of existing conditions of "Grand Avenue Reconstructed" right of way
- Benedict Street Utility Easement - Plot plan creation of proposed storm drain easement
- Railroad Run Bike Trail - Provide NYS Office of Parks and Recreation and consultant with topographic survey and map update
- Woodlawn Avenue Parking Deck - Provide Construction Observation
- Water Treatment Plant rehabilitation - Provide Construction Observation
- Planning Board Site Plan "As-Built" Review - Provide as-built review of Planning Board projects

Miscellaneous Survey Tasks:

- Elevation study of City Hall antennae for Look TV
- 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

2012 DPW FLEET

<u>VEH #</u>	<u>YEAR</u>	<u>MAKE</u>	<u>VEHICLE</u>
1	2003	FORD EXPLORER	SURBURBAN
2	2006	FORD SD F-250	PICKUP
3	2010	FORD F-350	PICKUP Diesel
4	2004	DODGE 2500	PICKUP
5	2008	FORD F-350	PICKUP
6	1999	CAT IT28G	LOADER SER#8CR01771
7	2001	DODGE RAM	PICKUP/ QUAD CAB
8	2001	FORD F-450	SMALL DUMP
9	2004	DODGE RAM 2500	PICKUP
10	2005	FORD F250 4x4	PICKUP
11	2000	INTERNATIONAL	DUMP
12	2002	DODGE 2500	PICKUP
13	2002	INTERNATIONAL	DUMP
14	2001	DODGE RAM 2500	PICKUP
15	1999	IT-28B CAT	LOADER
16	2000	INTERNATIONAL	DUMP
17	2000	INTERNATIONAL	DUMP
18	1997	INTERNATIONAL	DUMP
19	2005	FORD F-250	PICKUP
21	2004	DODGE 2500	PICKUP
22		(RESERVED)	
23	2008	FORD F-350	PICKUP
24		(RESERVED)	
26	2000	INTERNATIONAL	DUMP
27	1993	JOHN DEERE 772B	GRADER
28	2005	FORD F-350	PICKUP
29	1997	GMC 3500	CHASSIS CAB w/BOOM
30	2000	FORD ECONOLINE E-150	CARGO VAN
31	1999	INTERNATIONAL 2574 4x2	DUMP
32	2006	FORD F350 w CREW CAB	PICKUP
33	2002	INTERNATIONAL	DUMP
34	1999	INTERNATIONAL 2574 4x2	DUMP
35	2002	INTERNATIONAL	CAB/CHASSIS
36		(RESERVED)	
37	2002	DODGE 2500	PICKUP
38	2002	FORD F450	SMALL DUMP
39	1985	CAT 12G	GRADER
40		(RESERVED)	
41		(RESERVED)	
42	2000	INTERNATIONAL	DUMP
44	2003	STERLING L8500	DUMP
45	2003	STERLING L8500	DUMP
46		(RESERVED)	
47	1995	INTERNATIONAL	DUMP
48		(RESERVED)	
49	2003	FORD F-350 4x4	PICKUP
50	2007	FORD F-450	GARBAGE TRUCK
51	2000	CAT IT-28 ENG #4TF57976	LOADER
53	1997	INTERNATIONAL	DUMP
54	2002	INTERNATIONAL	DUMP

<u>VEH #</u>	<u>YEAR</u>	<u>MAKE</u>	<u>VEHICLE</u>
55		(RESERVED)	
56	1991	INTERNATIONAL w/CAMEL	SEWER JET
57		(RESERVED)	
58	2005	INTERNATIONAL	DUMP
59	2005	INTERNATIONAL 7600	DUMP
60		(RESERVED)	
61	2003	DODGE	PICKUP
62	2007	FORD	F-450
63	2004	INTERNATIONAL-7600	DUMP
64	2004	INTERNATIONAL-7300	CHIP BOX DUMP
65	2004	CATERPILLAR IT28G	LOADER
66	2002	DODGE RAM 2500	PICKUP
67	2005	FORD F350 w/CREW CAB	PICKUP
69	1994	FORD F-150	PICKUP
70	2005	INTERNATIONAL 7600	DUMP
71	2005	FORD F-350 UTILITY	PICKUP
			EXCAVATOR MODEL
72	2002	CATERPILLAR	M318
73	2001	UTILIMASTER/FREIGHTLINER	VAN
74		(RESERVED)	
75	2001	FORD F-550 UTILITY	PICKUP
		VACTOR 2100 PLUS ON	
76	2011	INTERN'L 7000 (VEH. 222)	VAC TRUCK
77		(RESERVED)	
78		(RESERVED)	
79	1994	FORD RANGER	PICKUP
80	2003	DODGE RAM 3/4 TON	CARGO VAN
81	2006	ELGIN PELICAN	SWEEPER
82	1999	FERMAC TLK860	BACKHOE/LOADER
83	2001	FORD-F-350	PICKUP
84	2006	FORD E-250	VAN
85	2002	ELGIN PELICAN	SWEEPER
		(RESERVED)	
87	2006	FORD E-250	VAN
88	1997	FORD F-250	PICKUP
89		(RESERVED)	
			624J 4WD
90	2005	JOHN DEERE	TRACTOR/LOADER BACKHOE/LOADER
			430E
91	2008	CATERPILLAR	
92		(RESERVED)	
93		(RESERVED)	
94		(RESERVED)	
95	2007	FORD F-450	UTILITY PICKUP
96	1997	FORD F-350 UTILITY	PICKUP
97	1996	INTERNATIONAL	DUMP
98	2008	INTERNATIONAL	DUMP
99	1996	INTERNATIONAL	DUMP
100		(RESERVED)	
101		TORO WORKMAN 2100	UTILITY VEHICLE
102	1988	PEERLESS	DUMPER TRAILER 20'
103		(RESERVED)	
			TRAILER
104	1998	BRI MAR	

<u>VEH #</u>	<u>YEAR</u>	<u>MAKE</u>	<u>VEHICLE</u>
			TRACTOR w/AL IS74
105	2001	JOHN DEERE	MOWER
106	1995	TORO	MOWER
107	2002	TORO WORKMAN 3200 TORO GROUNDSMASTER	MOWER MODEL 07200
108	2002	4000	MOWER MODEL 30410
109	2002	NEW HOLLAND 2120	TRACTOR/LOADER #SIC0310
110	2002	SMITHCO	SAND PRO
111	1985	HUDSON BROS.	TRAILER
112	2002	KAWASAKI	MOWER
113	1991	CRAFTCO	TAR MACHINE
114	2003	HAULMARK TS610SA	TRAILER
115	1997	BISON TURF BLAZER	MOWER
116		PEABODY BARNES	PUMP
117	1997	GGSCMA/FLOWER CART	TRAILER
118		CARPENTER	TRAILER
119	1997	TORO	SAND PRO
120		CRAFTCO	PAVEMENT CUTTER
121		(RESERVED)	
122		(RESERVED)	
			LOADER
123	1999	GEHL SKIDSTEER SL6635-DXT	w/BUCKET/FORKS
124	1999	CASE IH CX90	TRACTOR
125	1993	OLYMPIA	RESURFACER
126	2001	OLYMPIA	RESURFACER
127	1957	FORD	TRACTOR
128		TORO	MOWER
129	2006	VERMEER RING-O-MATIC	VACUUM SYSTEM- 275
130	1980	KUBOTA-185W/CARONI	TRACTOR
131	1987	DRESSER 4-6 TON	STATIC ROLLER
132	1986	HYSTER C-330	STATIC ROLLER
133	1950	MACK	TANKER
134	1985	Q-125 LeROI	AIR COMPRESSOR
			STUMPER w/AUTO
135	2001	VERMEER 752/DENTZ ENG	SWEEP
			TRACTOR
136	2004	JOHN DEERE MODEL 4210	w/ATTACHMENTS
137	2004	INGERSOLL-RAND	ROLLER
138	2005	GRADALL XL 4100	
139	1975	JOHN DEERE 301A	TRACTOR
140	1975	JOHN DEERE 301A	TRACTOR
141	2000	B. FOSTER	TRAILER
142	2000	JOHN DEERE	MOWER
143	2006	TIMBER WOLF	FIREWOOD SPLITTER
144	1999	VOHL	SNOWBLOWER
145	2001	TORO PROLINE 30154	MOWER S/N 200000175
146		FORD-OWENS	GENERATOR
147		(RESERVED)	
148	1997	GAC LANDSCAPE TRAILER	TRAILER
149	2000	TENNANT 800	SWEEPER
150	2000	2000 INGERSOLL RAND	AIR COMPRESSOR
151	2000	GAC 16E10	TRAILER

<u>VEH #</u>	<u>YEAR</u>	<u>MAKE</u>	<u>VEHICLE</u>
152	1986	INTERNATIONAL	DUMP
153	2000	BRI-MAR	TRAILER
154	2000	SWEEP STAR	TURF SWEEPER MODEL #77-100BF
155	2000	JOHN DEERE SABRE	TRACTOR MODEL # 2148HV
156	2001	SALSCO MODEL 813	CHIPPER
157	2001	GAC #610U29	TRAILER
158	2001	BRI- MAR	TRAILER
159	2001	628 TURFCAT 26 HP 2WD	MOWER w DECK
160	2003	WACKER MODEL # RSS800A	TAILGATE ROLLER
161	2003	TORO GROUNDSMASTER 228	MOWER
162	2003	TORO GROUNDSMASTER 228	MOWER
163	2003	BRI-MAR MODEL DT818-20GN	TRAILER
164	2003	BANDIT MODEL 150	CHIPPER
165	2004	NORTH STAR 459221	GAS PORTABLE AIR COMPRESSOR
166	2004	TORO	MOWER
167	2004	TORO	MOWER
168	2004	BRI MAR	UTILITY TRAILER
169	2004	TORO GRANDMASTER	MOWER/SNOWBLOWER
170	2004	TOP BRAND	TOP RAIL TRAILER
171	2005	G.A.C MACHINE	UTILITY TRAILER
172	2005	BRI-MAR	TRAILER
173	2005	TORO WORKMAN 3200	UTILITY VEHICLE MODEL7361
174	2005	TORO WORKMAN 3200	UTILITY VEHICLE MODEL7361
175	2005	TORO SAND PRO 5020	3- WHEELER
176	2006	JOHN DEERE 6X4 GATOR	UTILITY VEHICLE- Diesel
177	2006	TORO WORKMAN 3300D	UTILITY VEHICLE MODEL 7362
178	2006	TOP BRAND	TRAILER
179	2006	AQUAMARINE TDT 230	WEED HARVESTER- H6-230
180	2002	WACKER 5045A	TAMPER
181		MK DIAMOND SAW 20	HONDA GX620
182		MK DIAMOND SAW	HONDA 13
183	2006	CUB CADET 530 SWE	11HP, 30" SNOW BLOWER
184	2006	CUB CADET 530 SWE	11 HP, 30" SNOWBLOWER
185	2000	TORO WORKMAN 7302	UTILITY VEHICLE MODEL 7302
186	2007	BOBCAT S-185	SKIDSTEER/ LOADER
187	2006	GENIE	SCISSOR LIFT
188	2007	LAWNBOY	MODEL 10795
189	2007	LAWNBOY	MODEL 10795
190	2007	GENERATOR (SENIOR CTR)	
191	2007	TORO LAWN MOWER	MODEL 22189
192	2007	TOTO LAWN MOWER	MODEL 22189
193	2007	WACKER RD16	ROLLER
194	2007	TOP BRAND	TRAILER

<u>VEH #</u>	<u>YEAR</u>	<u>MAKE</u>	<u>VEHICLE</u>
195	2007	BRI MAR	DUMP TRAILER
196	2008	CAM SUPERLINE	UTILITY TRAILER
197	2007	GENERATOR (CITY HALL)	
198	2008	WACKER PLATE TAMPER	WP 1550 AW
199	2008	WACKER PLATE TAMPER	WP 1550 AW
200	2007	VERMEER TUB H66000	TUB GRINDER
201	2000	FORD EXPLORER E250	SUBURBAN
202	2008	TORO	SANDPRO 5040
203	2008	BRIMAR	TRAILER DT714LPHD14
204	1999	FORD E250	VAN
			SNOWBLOWER ST 1332
205	2008	ARIENS	DLE
			SNOWBLOWER ST 1332
206	2008	ARIENS	DLE
207	2001	CHEVROLET BLAZER	VAN
208	2008	CHEVROLET TRAIL BLAZER	SUV
209	2008	BRIMAR	TRAILER DT814-14BN
210	2009	FORD F350	PICKUP
211	2009	INTERNATIONAL w BOOM	CHASSIS CAB w BOOM
212	2009	FLOWER TRAILER	HOME MADE
213	2009	INGERSOLL-RAND BX-8WH	18" PLATE COMPACTOR
214	2009	TORO LAWN MOWER	
215	2009	TORO LAWN MOWER	
216	2009	TORO LAWN MOWER	
217	2009	TORO LAWN MOWER	
218	2009	ARIENS ST30DLE	SNOWBLOWER
219	2009	ARIENS ST30DLE	SNOWBLOWER
220	2010	FORD F350	PICKUP
221	2010	TORO LAWNMOWER	
222	2011	INTERNATIONAL 7500	DUMP
223	2012	NORTH NEWTON	TRAILER
224	?	INTERNATIONAL	DUMP
225	2007	JEEP	SUV
226	2012	FORD F-350	PICKUP
227	2012	FORD F-350	PICKUP
228	2012	FORD F-250	PICKUP
229	2012	BRI MAR	TRAILER
230	2009	KUBOTA	EXCAVATOR
231	2006	JGL	LIFT
232	2012	GOODELL	CAR STARTER
233	2002	MERCURY SABLE	STATION WAGON
234	2011	FORD ESCAPE	SUV
235	2011	FORD E-250	VAN
236	2012	CHEVROLET	VAN
237	2012	HONDA	PLATE COMPACTOR
238	2013	BRI MAR	TRAILER
239	2013	BRI MAR	TRAILER
240	2013	CARRY-ON	UTILITY TRAILER
273	1998	CHEVY	SUBURBAN

ATTACHMENT 2

*Saratoga Springs Preservation Foundation
2012 Preservation Recognition Award*

*Restoration Award
Canfield Casino
Stair & Sidewalk Restoration*

City of Saratoga Springs

Samantha Bosshart
Samantha Bosshart
Executive Director

Christopher Armer
Christopher Armer
President