

LOWER PAXTON TOWNSHIP 2016 ANNUAL REPORT

- EXECUTIVE SUMMARY -

Purpose:

This Annual Report describes the financial and administrative activities of Lower Paxton Township in accordance with the 2016 fiscal year. The preparation of this report is a requirement of the Township Manager, as set forth in Chapter 23, Section 23-6. B. (9) of the Codified Ordinances of the Township.

This Executive Summary of the 2016 Annual Report provides a brief description of the financial and administrative activities of the Township during the last fiscal year. It is based upon the detailed reports for each of the Township's operating departments, which have been prepared by department directors.

Introduction:

As the second largest municipality by population, and a desired location for community and economic development, Lower Paxton Township is a leader among local governments in the Harrisburg region. The Township is a dynamic community, with a 2010 population of 47,360 residents within its 28-square mile area. This large population ranks 17th among the more than 2,600 municipalities in the Commonwealth of Pennsylvania.

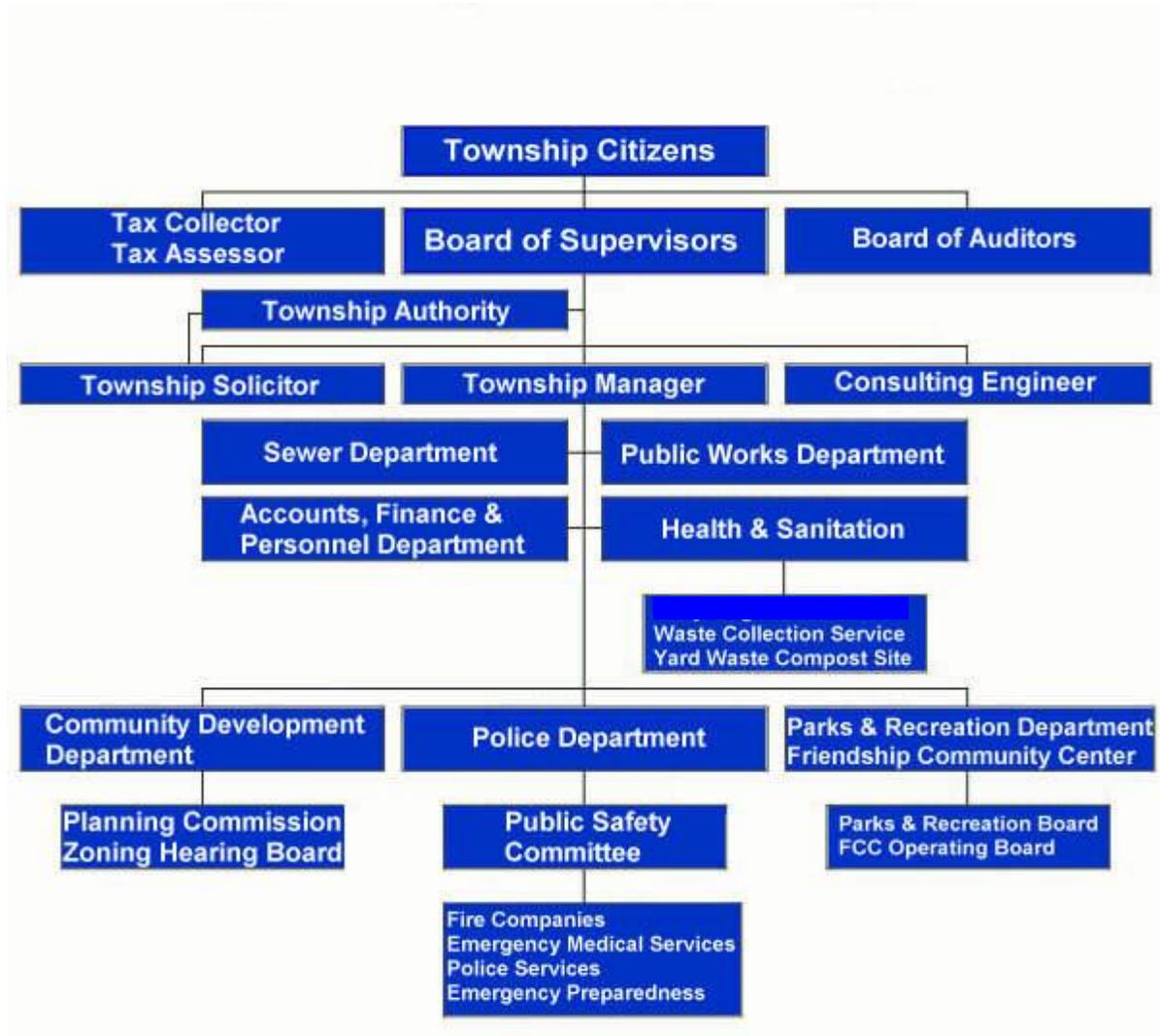
In 2016, the Board of Supervisors provided services to the citizens of our community in accordance with annual operating, enterprise, capital, and fiduciary fund budgets totaling nearly \$100 million. These budgets funded public safety, public works, community development, sanitary sewer operations, parks and recreation, the Friendship Center, the Lower Paxton Township Authority, employee pension plans, and planned capital projects.

In accordance with these budgets, the Township's workforce possessed 137 full-time positions and more than 300 part-time and seasonal workers, who maintained over 200 miles of local roads, 100 miles of storm sewers, 270 miles of sanitary sewers, 378 acres of parkland, and the ancillary facilities associated with these public facilities. The Township also contracted for or franchised other services, such as refuse collection and cable television.

The Board of Supervisors delegates some of its administrative responsibilities to appointed officials serving on municipally sanctioned bodies. The appointed bodies existing within the Township's administrative structure in 2016 included the Authority, Audit Committee, Planning Commission, Parks and Recreation Board, Zoning Hearing Board, Shade Tree Commission, Public Safety

Committee, Arts Council, Greenway Committee, the Community Engagement Committee, and the Friendship Center Operating Board.

The structure of municipal operations is indicated in the following Organization Chart.



Lower Paxton Township is a full-service municipal government. In providing services, the Board of Supervisors relies upon input from Township citizens to address the needs of our community. The following items detail, by area of operation, the Township’s 2016 activities and accomplishments.

The Board of Supervisors:

The Second Class Township Code places the overall management and administration of Lower Paxton Township in the hands of the Board of Supervisors. As such, Supervisors are required to perform legislative, executive, and administrative duties in the operation of the municipal government.

As a legislative body, the Board of Supervisors sets policy, enacts ordinances and resolutions, adopts budgets and levies taxes. However, a Supervisor's role as a legislator is not confined solely to matters of public policy. As elected officials, Supervisors represent Lower Paxton Township and its concerns before other municipal governments, the state and federal governments, and private sector entities.

Since there is no separately elected executive in Townships of the Second Class, the Board of Supervisors also performs executive functions, including preparation of the annual budget, proclaiming significant municipal events, hiring employees, and appointing citizens to serve on various Township authorities, boards, and commissions. Certain executive functions, such as representing the Township at official events, are often performed by the Chairman of the Board.

Supervisors also serve in an administrative capacity, providing for enforcement of local laws and regulations, management of personnel, and purchase of equipment, materials, supplies, and services. Supervisors, as administrators, are actively involved in the financial management of the Township, including the collection of monies earned through taxes, service charges, and grants, and the expenditure of funds in accordance with approved municipal budgets.

It is the Vision of the Board of Supervisors that *“Lower Paxton Township will be an open, vibrant, and progressive municipality working within the bounds of available resources, providing the best quality of life for a growing community and to be a recognized leader in central Pennsylvania.”* Further, the Board’s mission is *“To achieve our vision, Lower Paxton Township will work to meet and exceed the needs of a growing Township in a cost efficient manner.”*

MUNICIPAL FACILITIES:

Municipal Center:

The Township’s base of operations since 2004 is its Municipal Center at 425 Prince Street. This 52,000-square foot facility is the home of Township administrative functions, the Community Development Department, the Finance Department, Sewer Department administration, and the Police Department.

The Friendship Center:

The Friendship Center, home to the Parks and Recreation Department, opened to the public in 2000. Within its 62,000 square feet, the Center contains a natatorium, weight/fitness area, gymnasium, aerobics studio, locker rooms, walking track, babysitting room, classrooms and offices. In addition, the facility has an East Annex housing the Friendship Senior Center and a West Annex from which Drayer Physical Therapy operates a private clinic.

Public Works Building:

The Jack F. Hurley Transportation and Maintenance Center at 5975 Locust Lane is a 25,000-square foot facility that has housed the Public Works Department since the late 1980s. In 2016, the Township began construction of a 16,000-square foot addition to the Center, as well as a separate vehicle and equipment wash facility. These new facilities will be completed in 2017.

Sewer Operations Building:

Adjacent to the Hurley Maintenance Center is the Township Authority-owned Sewer Operations Building. Since 2002, this 12,000-square foot building has housed the maintenance and construction divisions of Township's Sewer Department. The Authority leases the land on which this building sits from the Township.

Closed Landfill & Compost Facility:

The closed municipal landfill consists of nearly 60 acres adjacent to Conway Road in the southeast quadrant of the Township. The Township's compost facility is located on a portion of the closed municipal landfill.

Municipal Parks:

The Township owns nearly 400 acres of parkland (developed and undeveloped). The Township's 18 public parks range from lightly developed forest and mountain land to extensively developed recreation facilities. Large regional parks (over ten acres) include: George; Koons; Brightbill; and Kohl/Lingle Parks. Neighborhood parks and open space tracts are scattered throughout the Township.

2016 Administrative (non-departmental) Activities:

In 2011, the Board of Supervisors reached substantial completion on items contained within its 2006 Strategic Plan, a long-term plan of action for both financial and capital project needs. This Strategic Plan analyzed and prioritized projects in a comprehensive format over a five-year period. In 2014, the Board conducted a complete review of its Strategic Plan, with a focus on public improvements necessary through to 2019. Action to implement Strategic Plan initiatives were ongoing in 2016.

Lower Paxton Township possesses three AFSCME collective bargaining units and a police employees' unit. All collective bargaining agreements were set to expire at the end of 2016. Throughout 2016, negotiations were ongoing and successfully completed, with all four bargaining units agreeing to renewed contracts possessing expiration dates of 12/31/19.

In 2016, as a member of the Pennsylvania Intermunicipal Health Insurance Cooperative, Lower Paxton Township continued participation in a self-insured employee health care benefits program. This cooperative possesses over 260 municipal members, providing benefits to more than 20,000 employees and their

dependents. Because of this participation, the Township received a return on 2016 payments to the Cooperative of approximately \$351,756, while maintaining stable rates for employee health care benefits.

As a member of the Susquehanna Municipal Trust (SMT) in 2016, the Township continued to self-insure its Workers' Compensation benefits for municipal employees. With nearly 70 SMT members, Lower Paxton now possesses an experience modification for all classes of employees in the lowest half of the membership. In 2012, SMT required that its members move volunteer firefighter coverage to the State Workers' Insurance Fund to address liability issues created by the Cancer Presumption Act.

In 2016, the Shade Tree Commission, which annually plants and maintains street trees in the Township, was instrumental in the Township maintaining its designation as a "Tree City USA" by the National Arbor Day Foundation.

In 2016, the Township completed the reorganization of its Parks and Recreation Department. The purpose of this reorganization was to separate indoor and outdoor recreation functions under individual managers, as opposed to being under a Department Director with responsibilities for both functions.

In 2016, the Township continued development of a "municipal campus" at its Locust Lane property, which houses the Public Works and Sewer operations buildings. As part of this effort, a new Babe Ruth baseball field, a 16,000-square foot addition to the Public Works building, a vehicle and equipment wash facility, and a 3,000-square foot Magisterial District Justice Office were being constructed. This effort is being undertaken in cooperation with the Dauphin County Industrial Development Authority and will continue into 2017.

In 2016, Heroes Grove, a county-wide memorial and amphitheater located in Brightbill Park, was opened to the public. Phase I of the Heroes Grove project possessed a cost of over \$800,000.

Finance Department In 2016:

In 2016, the Real Estate Tax rate was 1.950 mills, one of the lowest of any of the developed municipalities in the Harrisburg region. In addition to the Real Estate Tax, the Township levied an Earned Income Tax and a Local Services Tax. As part of its overall Real Estate Tax, the Township levied .355 mills for fire protection, which was budgeted to provide \$304,350 to the Fire Equipment Capital Fund; \$80,520 to the LOSAP Fund; \$458,000 to the Colonial Park, Paxtonia; and Linglestown Fire Companies; and \$239,245 for fire hydrants.

The General Fund is the primary operating fund for Lower Paxton Township. By law, this fund operates on a calendar year basis. For FY 2016, the General Fund budget was balanced at \$22,695,974 for both revenues and expenditures.

In 2016, General Fund revenues were revenues \$22,251,742 and expenses were \$21,891,419, producing a net gain of \$360,323.

The General Fund is the primary source of revenue for the General Improvement Fund, the Fire Equipment Capital Fund, LOSAP Fund, the Police Pension Fund, and the Non-Uniformed Employee Pension Fund.

It is the policy of the Board of Supervisors to maintain a General Fund balance equal to or greater than 25% of budgeted expenditures for the current fiscal year. At the beginning of 2016, the General Fund balance was \$8,058,326. Per Board policy, 25% of the \$22,695,974 budgeted for expenditures is \$5,673,994 and as such, an equivalent amount of the General Fund balance should be held in reserve. At the end of 2016, the General Fund balance was \$8,420,649.

In 2016, the Township issued General Obligation Bonds in the amount of \$29 million, with \$25 million allocated to the LPTA for the multiyear sanitary sewer Infiltration and Inflow Rehabilitation Program Program. To support Township capital expenditures for improvements to stormwater facilities and systems, \$4 million was borrowed.

The above referenced borrowing follows debt issuances and refundings in 2012, 2013, 2014, and 2015 for capital facilities. In 2015, the Township refunded \$14.3 million in General Obligation Bonds allocated to the LPTA for continuation of the multi-year Infiltration and Inflow Rehabilitation Program. This refunding produced \$1.6 million in interest savings over the life of the Bonds. In 2014, the Township issued General Obligation Bonds in the amount of \$32 million, with \$25 million allocated to the LPTA for continuation of the Infiltration and Inflow Rehabilitation Program. The remaining \$7 million was borrowed to support Township capital expenditures, including continuation of improvements to the storm sewer system, and rehabilitation of and an addition to the Public Works building. In 2012 and 2013, the Township issued \$2 million and \$4 million, respectively, in Bonds, as well as borrowing \$750,000 from the Pennsylvania Infrastructure Bank in 2012. The above referenced funds were pledged to various capital projects, including road improvements, stormwater facilities, replacement of Friendship Center natatorium HVAC units, and a new roof on the Municipal Center.

From the 2016 State Aid Fund (PA Liquid Fuels Act) the Township received revenues of \$1,446,621 against expenditures of \$1,430,099.

In 2016, General Improvement Fund had expenditures for capital projects of \$3,709,868. At year-end, the Fund possessed a balance of \$5,773,005 to be used for future projects.

The Township completed implementation of Phase IV of the Fire Equipment Capital Plan in 2016. The Capital Fund had a year-end balance of (\$449,876),

after payments in of \$2,343,960 for 3 new pieces of firefighting apparatus, one each for the Colonial Park, Linglestown, and Paxtonia Fire Companies.

In 2008, the Board of Supervisors created a Length of Service Awards Program (LOSAP) for volunteer firefighters and fire police officers. In 2016, the LOSAP Fund had a year-end balance of \$571,071.

The Friendship Center Operating Fund ended the 2016 fiscal year with a deficit of \$182,823 on revenues of \$2,067,662 against expenditures of \$2,250,484. The Center's operating fund possessed a year-end balance of \$295,388, and the Center's Capital Fund possessed a year-end balance of \$28,123.

The Lower Paxton Township Authority (LPTA) Operating Fund ended the 2016 fiscal year with revenues of \$15,972,211 against expenditures of \$14,988,124. LPTA expenditures for capital projects totaled \$12,277,434 in 2016. The LPTA possessed cash-on-hand of \$37,314,851 at the end of the fiscal year.

The Police Pension Fund possessed a 2016 year-end balance of \$22,021,809, and the Non-Uniformed Employee Pension Fund possessed a year-end balance of \$15,649,660. Both plans experienced investment gains of 5.5% and 5.9%, respectively, of their total assets.

Community Development Department In 2016:

Overall Community Development Department activities (building construction, subdivision and land development, zoning variances, etc.) continued to recover from the "Great Recession." As an example, new single-family housing starts are an indicator of local economic health, with 118 occurring in 2016, as compared with 87 in 2015, 67 in 2014, 78 in 2013, 48 in 2012, 40 in 2011, 54 in 2010 and 51 in 2009. The ten-year average prior to 2009 was 182 new single-family housing starts per year.

The Comprehensive Plan, adopted in 2003, represents a guide for community growth and development for Lower Paxton Township in the twenty-first century. In 2016, the Township took initial steps to begin the update of this plan, which will be ongoing in 2017.

From the 2003 Comprehensive Plan, the Township prepared and adopted a Zoning Ordinance in 2006. In 2010, the Board of Supervisors adopted a revised Subdivision and Land Development Ordinance (SALDO) and revised Stormwater Management Regulations. As part of the SALDO effort, the Parks and Recreation Board prepared a plan identifying future recreation facility needs. This recreation plan was adopted in 2013. In 2011, the Supervisors adopted revised Floodplain Management Regulations, and in 2013, the Supervisors adopted a revised Sewage Facilities (Act 537) Plan.

The Community Development Department continued to enforce the Pennsylvania Uniform Construction Code (PA UCC), which mandates use of the 2009 International Building Codes. The Department utilized third party agencies to review complicated construction plans for non-residential structures. The Department also utilized several third-party agencies to inspect electrical installations in all types of construction.

In 2016, Community Development Department staff issued 529 Zoning Permits, 400 Storm Water Permits, and 827 Building Permits; 34 land development, subdivision, and stormwater management plans, and 15 applications for variance or appeal were processed; and 435 property maintenance complaints were investigated. Thirty-five properties, with significant violations, required the Township to take some type of abatement action.

Community Development Department staff provided service to the Board of Supervisors, Planning Commission, Zoning Hearing Board, and Public Safety Committee. The Township, as a member of the Capital Region Council of Governments (CAP COG), participates in the COG's PA UCC Appeals Board.

Health Department In 2016:

The Health Department managed the solid waste and recyclable collection contract with Waste Management, providing service to approximately 14,000 residential customers. Waste Management collects solid waste, recyclables, and leaf waste under a contract for services that began July 2, 2008, and continued through to July 1, 2013. In 2012, the Board of Supervisors approved a five-year extension to this contract, with an average annual cost increase of not more than 2.2%, exclusive of escalators and tipping fees.

In 2016, the Township recycled 7,064 tons of residential and commercial waste, and 6,582 tons of leaf waste.

The Health Department managed the Township's contract with Penn Waste for the sale of recyclables. Due to the "Great Recession," recyclable markets declined significantly in 2009 and have remained depressed ever since.

In 2016, the Health Department, in conjunction with the Public Works Department, provided for maintenance of the closed municipal landfill and operation of the leaf waste compost facility that is located on the closed landfill.

The Health Department performs testing on 28 methane gas wells and performs water tests on the leachate at the closed municipal landfill. Annually, staff tests 47 methane gas alarms installed Hodges Heights dwelling units abutting the landfill. In 2016, 10 new alarms were installed in homes in Kendale Oaks, bringing the total to 20 alarms within this development. Also, six groundwater wells are sampled on a yearly basis to DEP specifications.

To provide for sustainable compost facility operations, the Township regulates resident access to and use of the facility through a permit system. The Health Department managed the sale of permits that are purchased by residents to gain access to the facility. The permit program also exists to offset facility labor and equipment costs for processing leaf waste. In addition, the Township permits West Hanover Township to deliver resident leaf waste, in bulk, to the compost facility. West Hanover Township pays a fee for this service

Health Department staff provided service to the Shade Tree Commission, as well as serving as Health Officer and Sewage Enforcement Officer.

Parks and Recreation Department In 2016:

The Parks and Recreation Department consists of outdoor recreation – municipal parks, and indoor recreation – the Friendship Center. These two areas of operation are under the direction of a Parks and Recreation Manager and a Friendship Director, who work cooperatively to provide for the overall management of the Department.

Department personnel managed nearly 400 acres of municipal parkland (developed and undeveloped) in 2016 and operated the Friendship Center. The Department possessed 11 full-time employees, and more than 300 part-time employees and Form 1099 contract workers, with most of these employees dedicated to the Friendship Center.

Municipal Parks:

In 2016, the Parks and Recreation Department provided programs to 1,900 outdoor recreation participants. Also, the Department coordinated the activities of 28 sports organizations, with more than 5,000 participants using park facilities.

In 2016, the Township completed earth moving and fill operations at the 50-acre Wolfersberger Tract. This work was undertaken in accordance with the 2013 Koons/Wolfersberger Park recreation master plan.

The Heroes Grove Amphitheater and Memorial in Brightbill Park was completed and opened to the public in 2016. In addition, at the Hurley Fields a new Babe Ruth baseball field was constructed to replace fields that were removed; new pavilions were constructed at Brightbill and Kohl Parks, replacing outdated pavilions; a new playground was constructed at Kohl Park and playgrounds at Lingle and Forest Hills Parks were enlarged; and tennis courts at Brightbill and Koons Parks were resurface and fencing was replaced or renewed.

The Parks and Recreation Department oversees lease agreements with the Central Dauphin (CD) School District; one providing for incorporation of the

Paxtonia Ball Fields into George Park, and the other providing for Township use of the CD East Middle School football field. The Department also oversees the lease of the Mateer (baseball) Fields located in the Colonial Park neighborhood of the Township and the lease of 75 parking spaces for from New Love In Christ Church, which serve Ranger Fields in George Park.

The Greenway Committee has prepared a plan for the layout and development of pedestrian and bicycle paths throughout the Township. The Greenway Plan was adopted by the Board of Supervisors in 2008, as an amendment to the Township's Comprehensive Plan.

Parks and Recreation Department staff provided service to the Parks and Recreation Board, the Friendship Center Operating Board, the Greenway Committee, the Community Engagement Committee, and the Arts Council.

The Friendship Center In 2016:

The Friendship Center, operated by the Parks and Recreation Department, is a 62,000-square foot, indoor facility that provides educational, health, recreational, and social opportunities to our community. The Center houses the Friendship Senior Center in an east annex, as well as a Drayer physical therapy center that occupies the west annex.

Regular memberships at the Friendship Center at the end of 2016 totaled 1,434, and insurance memberships (Healthways, Silver Fit, etc.) totaled 3,806. In 2016, 725 classes and events were held at the Center, serving 12,495 participants.

The Friendship Senior Center, is housed in the east annex of the Friendship Center. The Senior Center exists as an entity separate from the Township and its Parks and Recreation Department. The Friendship Center assumes a portion of the cost of operation of the Senior Center, which annually exceeds \$50,000.

In 2011, the Township retained Ballard King and Associates, LTD to perform an operations audit of the Friendship Center. In 2013, the Township retained Brailsford & Dunlavey, Inc. to perform market analyses for specific program and facility modifications that were proposed by the Board of Supervisors, in conjunction with the Friendship Center Operating Board, as a result of the operations audit. In addition, in 2013, the Township retained RSR Appraisers, who determined the market value of the Center to be \$8.2 million. In 2014, the Supervisors and Operating Board worked to address the recommendations from these efforts to increase the operational efficiency, public use, and financial performance of the Center. From this effort, in 2015, the Operating Board began work on a "priority projects," to include construction of a climbing wall; movement/removal of glass curtain walls; reconfiguration of the main reception station, including points of ingress and egress; remodeling of a passive activity area into a cardio theater; and LED relamping in the natatorium.

In 2016, the Township retained Weber, Murphy, Fox as the architect and project manager for the Friendship Center priority projects. The Board of Supervisors awarded bids for the priority projects in November and work is ongoing in 2017. The total cost of the priority projects, including professional services is approximately \$500,000 and is funded through General Obligation Bonds.

To quantify the overall cost of systems and equipment within the Friendship Center and to determine the financial impact of systems and equipment replacement the Friendship Center Operating Board maintains a Capital Replacement Plan. This Plan is designed to assist the Operating Board and the Board of Supervisors in the assessment and establishment of the true cost of operation of the Friendship Center on an annual basis, as well as plan for the replacement of items at the end of their useful life. The Friendship Center Capital Plan was adopted in 2012.

Police Department In 2016:

The Police Department provides professional police protection and services to our community. Police officers are assigned to one of three Divisions: Patrol Services, Field Services, and Staff Services. The Department has been accredited by the Pennsylvania Law Enforcement Accreditation Commission.

In 2016, the approved compliment of sworn police officers was 53 (not including the Public Safety Director) down from a high of 64 in 2008. Such a reduction occurred to address the financial impacts of the "Great Recession." In 2016, the Department possessed five full-time secretarial/clerical support employees, and a full-time Community Service Officer.

In 2016, the Police Department responded to 20,831 calls for service; investigated 726 Part I criminal offenses, achieving a 36% clearance rate; and investigated 1,489 Part II criminal offenses, achieving a 47% clearance rate. The Department investigated 326 reportable traffic accidents, issued 4,061 traffic citations and 9,777 written warnings.

The Police Department has established and maintains a Citizen's Police Academy, Rapid Response Team, School Resource Officer program (SROs), Community Service Officer (CSOs) detail, Warrants Officer, Fire Marshall, and Honor Guard. Members of the Police Department serve on the Dauphin County Drug Task Force and the Dauphin County Crisis Response Team. The Police Department has partnered with the Dauphin County Victim/Witness Program to provide services from the Municipal Center.

The Township is served by three volunteer fire companies -- Colonial Park, Linglestown, and Paxtonia. These three companies provide a full range of firefighting and accident response services to our community. The Township's

three volunteer fire companies, Linglestown, Paxtonia, and Colonial Park, responded to 1,526 calls for service in 2016.

South Central Emergency Medical Services (SCEMS) has been designated by the Board of Supervisors to provide emergency medical services throughout Lower Paxton Township. The Township provides financial support to SCEMS and has representation on its Board of Directors. The relationship between the Township and SCEMS is set forth in an agreement between the two entities. This agreement was renegotiated in 2012.

Police Department staff provided service to the Public Safety Committee.

Public Works Department In 2016:

In 2016, the Public Works Department possessed an approved compliment of 30 full-time employees and was responsible for maintenance of over 200 miles of roadway; 150 acres of developed parkland; 100 miles of storm sewers; 39 signalized intersections; over 4,500 street signs; seven bridges; and over 100 vehicles and construction equipment operated by Public Works and all Township Departments.

The Public Works Department operates from the Jack F. Hurley Transportation and Maintenance Center at 5975 Locust Lane. In the fall of 2015, construction began on a 16,000-square foot addition to the existing building 25,000 square foot building. Construction continued through 2016 and will be completed in the spring of 2017. Building improvements include an 1,800-square foot vehicle wash facility, also scheduled to be completed in 2017.

The primary responsibility of the Public Works Department is to maintain the public infrastructure throughout the Township. The following list summarizes the major activities undertaken by the Public Works Department:

- Roadway resurfacing/micro-surface/crack sealing
- Traffic line painting and installation of traffic signs
- Snow plowing and application of anti-skid materials
- Pothole patching and pavement repair
- Maintenance of traffic signals
- Maintenance of bridges
- Grading of roadway berms and shoulder areas
- Installation and maintenance of storm sewer systems
- Grass cutting along public rights-of-way
- Collection of leaves during the fall season
- Street sweeping
- Park maintenance, including athletic fields and courts
- Management of the compost facility
- Municipal vehicle and equipment maintenance

Over the last several years the Public Works Department has implemented annual stormwater improvement projects in accordance with a prioritized list that was prepared in 2012. Over \$1 million has been allocated annually for stormwater improvements since 2013, with similar levels of expenditure expected in future years. Funding for stormwater improvements has come from municipal debt in the form of General Obligation Bonds.

In accordance with PennDOT contract, the Public Works Department provides winter maintenance for specified state routes within the Township. The Township maintains nearly 18 miles of state roadway, providing deicing and snow plow services over the winter months.

In 2016, the Public Works Department operated and maintained the Township's leaf waste compost facility. As part of this effort, the Township purchased a windrow turner and material screener in 2014. Waste Management delivers leaf waste to the compost facility collected at curbside as part of its residential trash, recyclable, and leaf waste contract with the Township. In addition, the Township accepts leaf waste from West Hanover Township, as delivered by Waste Management.

In 2016, the Public Works Department resurfaced approximately 1.25 miles of roadway and performed a significant amount of crack sealing throughout the Township. Also, the resurfacing of streets took place in conjunction with the Sewer Department's sanitary sewer mini-basin program, where construction activities impacted pavement sections requiring resurfacing for project completion.

In 2016, the Department continued efforts to comply with Phase II of the federal Clean Water Act. As the Township moved forward with its stormwater management program, the following component parts were in process:

- Renewal of the NPDES general permit
- Implementation of the MS4 program
- Implementation of measures to address the Paxton Creek TMDL
- Implementation of the Township's Stormwater Management Ordinance
- Implementation of a multi-year stormwater capital improvement program
- Implementation of a multi-year sanitary sewer infiltration and inflow program
- Investigations into the formation of a stormwater authority

The Township, under its NPDES permit, is required to incorporate the following six elements (known as minimum control measures) into its stormwater management program:

- Public education and outreach
- Public involvement and participation
- Illicit discharge detection and elimination

- Construction site runoff control
- Post-construction stormwater management in new development and redevelopment
- Pollution prevention and good housekeeping for municipal operations and maintenance

The Public Works Department maintains 39 signalized intersections, most of which are interconnected in closed-loop computer networks. All the Township's signal heads possess LED light bulbs, and many of the Township's signalized intersections are outfitted with an emergency preemption system.

In 2016, PennDOT installed an Adaptive traffic signal management system on the U.S. Route 22 corridor, which was activated in March, and the Township took ownership in October. A smaller, but similar Adaptive system was also installed on Union Deposit Road at the I-83 Interchange, including 4 signalized intersections. This system was converted to Township ownership by year's end. Adaptive traffic signals adjust the timing of the green phase, monitoring changing traffic volumes and patterns along major roadways, therefore easing congestion.

Sewer Department (Township Authority) In 2016:

The sanitary sewer system owned by the Lower Paxton Township Authority (LPTA) is comprised of 270 miles of sanitary sewer lines, and five pumping stations. The Authority is under the direct control of the Board of Supervisors, with Supervisors appointing themselves to sit on the Authority. Through a management agreement, the Township's Sewer Department provides for the day-to-day operation of the Authority. Department staff provided service to the Authority Board. The Sewer Department possessed 24 full-time employees and a part-time employee in 2016, including a four-person I&I crew.

The Authority continued Township-wide efforts to remove infiltration and inflow (I&I) from the sanitary sewer system. Sewer system improvements are being undertaken in accordance with Corrective Action Plans (CAP) approved by the Pennsylvania Department of Environmental Protection (DEP) and as memorialized through a Consent Decree with DEP. The CAPs cover all sanitary sewer drainage basins, with most the Authority's work taking place in the Paxton Creek and Beaver Creek basins.

The Second Amendment to the Second Consent Decree provides for a programmed, mini-basin sanitary sewer replacement program in both Paxton Creek and Beaver Creek. The Paxton Creek CAP requires the replacement of ACP pipe at an estimated cost of \$75 million over 10 years. Further, the Authority is required to eliminate Paxton Creek sanitary sewer overflows by 2022, and reduce the hydraulic overload in this basin by 2027. To date, the Authority has completed 13 mini-basins in Paxton Creek and is on schedule to complete the remaining identified mini-basins by 2022.

The Beaver Creek CAP provides for sewer replacements over the next 10 years in three phases with an evaluation in 2027 for additional sewer replacements or construction of storage facilities to ensure future capacity. Further, the Authority is required to eliminate sanitary sewer overflows by 2028 and reduce the hydraulic overload within this basin by 2033. The Beaver Creek CAP possesses expected total costs similar to Paxton Creek. To date, the Authority has completed six mini-basins in Beaver Creek and is on schedule to complete two more mini-basins by 2018.

The Township's Act 537 Sewage Facilities Plan was adopted by the Board of Supervisors in 2003 and has been amended to correspond with the Township's 2006 zoning ordinance. This Plan is designed to provide for the implementation of the above referenced Consent Decree.

In 2016, the Authority's sanitary sewer system provided service to over 15,500 accounts. Residential accounts were charged a rental rate of \$139 per calendar quarter. The Authority also maintained a fee schedule for new connections to the sewer system. In Asylum Run the fee was \$1,115 for developer installed facilities or \$1,750 for connection to existing facilities; in Beaver Creek, the fee was \$2,165 or \$2,800; in Paxton Creek, the fee was \$1,615 or \$2,250; and in Spring Creek the fee was \$2,015 or \$2,650.

In the Beaver Creek drainage basin, there is an annual allocation of 150 Planning Modules EDUs and 168 connection permits available for issuance. In the Paxton Creek drainage basin, there was no limit on Planning Modules for proposed new developments and there is an annual allocation of 93 connection permits.

In 2016, the Authority issued bonds in the amount of \$25 million for the multiyear sanitary sewer Infiltration and Inflow (I&I) Program. In 2015, the Authority refinanced \$14 million in 2009 Series C Bonds, saving approximately \$1.6 million over the life of the bonds. In 2014, the Authority issued bonds in the amount of \$25 million for the multi-year sanitary sewer (I&I) Program.

The Authority has been successful in a lawsuit against the City of Harrisburg, with an award issued in December 2013. Settlement payments of \$1,438,132 and \$556,800 were received in 2014. Payments of \$556,800 are required through 2016, with decreasing payments through 2019.

The following contracts were under management by the Sewer Department during 2016:

- o Emergency Repairs Contract (Mainline External Repairs) – Rogele, Inc. was awarded the contract in the amount of \$36,858.50 and \$58,917 was spent and closed. A second contract with Rogele, Inc. was entered in 2016 in the amount of \$81,119, with \$40,443 spent at year-end.

- o Mini-Basin BC 3A & 3B - The Board of Supervisors awarded a contract to R-III Construction in the amount of \$5,391,811. Change orders to date bring the final contract amount to \$6,883,533.

- o Mini-Basin BC 4A, B, & C - The Board of Supervisors awarded a contract to M.F. Ronca and Sons in the amount of \$7,617,740. Change orders to date bring the contract amount to \$7,617,445. Work began in July 2015. \$5,806,304 has been spent to date.

- o Mini-Basin PC 4C/E - The Board of Supervisors awarded a contract to Doli Construction in the amount of \$8,459,359. Work began in April 2016. \$3,815,661 has been spent to date.