MISSION STATEMENT
Our mission is to provide professional engineering and environmental services in a respectful and efficient manner, which safeguards the Township’s public infrastructure and natural resources for the well-being of our residents.
**Engineering and Environmental Services Department Staff**

The following are current EESD employees with their years of Township service included.

**Wayne Domine PE, Director (22 years)**
Department Head, responsible for supervising the overall activities of the Engineering and Environmental Services Department in conjunction with the needs to sustain the operation of the Township’s water supply system and sanitary sewer system and other public works activities.

**Lance Scram, Project Coordinator (16 years)**
Responsible for coordinating public works projects, such as the Township’s safety path construction and road paving projects with the Township DPW, consultants, contractors, other public agencies, and customers. Also, assists the Department of Public Works with snow removal activities as needed.

**Olivia Olsztyn-Budry, PE, Township Engineer (4 years)**
Responsible for managing public improvement projects in conjunction with the needs of the Township’s DPW operations. Provides technical support associated with the planning and construction of public improvements and review of site development projects submitted for Building Permits. Also, reviews Building Permit applications on behalf of the DPW-Water Division.

**Charles Markus, Program Coordinator (2 years)**
Responsible for implementing the activities involving management of the Township’s environmental programs to meet regulatory compliance in conjunction with the Township’s Phase II Watershed-based Storm Water permit, wetlands, pest management, woodlands, and protection of other natural features. Also, reviews Tree Permit applications on behalf of Planning, Building, and Ordinance Departments.

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EESD Staff Left to Right: Charles Markus, Olivia Olsztyn-Budry, Lance Scram
**Professional Development**

The EESD staff commits to expanding their knowledge on changing technologies, practices, and methods for engineering, construction, environmental and water and sewer operations. Summarized below are recent accomplishments by EESD staff and a summary of educational trainings attended.

**Staff Accomplishments and Development**

Olivia Olsztyn-Budry passed the S-1 exam in November 2013. The State of Michigan requires an operator of the Township water supply system to have an S-1 water distribution license. Olivia is one of three operators with this license in the Township, and is the only non-Department Head to have it.

Charles Markus began his first year at Michigan Public Service Institute (MPSI). The MPSI is a three year program providing valuable training for employees in the public sector. All other EESD staff have completed this three year course, Wayne Domine graduated in 1995, Lance Scram graduated in 2001, and Olivia Olsztyn-Budry graduated in 2011.

Charles Markus was appointed Chair of the Public Information and Education Committee (PIE) of the Alliance of Rouge Communities (ARC), of which Bloomfield Township is a founding member.

Olivia Olsztyn-Budry, with three DPW-Water Division staff members, attended a three day hands on training session for Automatic Control Valve Training and Water Loss Reduction through Pressure Management Training for Singer Pressure Reducing Valves (PRVs).

Olivia Olsztyn-Budry, along with two DPW-Water Division staff members, were certified in the Pipeline Assessment Certification Program (PACP), Manhole Assessment Certification Program (MACP), and the Lateral Assessment Certification Program (LACP), all offered through National Association of Sewer Service Companies (NASSCO).

Lance Scram, Olivia Olsztyn-Budry, and Charles Markus were recertified for Confined Space Entry. This training is required by OSHA for workers that may enter or serve as an attendant or manager for a confined space entry. This is an annual training.

Wayne Domine, Lance Scram, and Charles Markus were certified in the updated Haz-Mat Label Identification program.

Lance Scram attended training for operating valves, hydrants and other components of the water system presented by the Michigan Rural Water Association.

Wayne Domine and Olivia Olsztyn-Budry renewed their Professional Engineers licenses which now require 30 hours of continuing education over a two year period to renew.
Support, Technical Assistance, and Project Summary

The EESD supports other departments in the review of projects that seek permits from the Township. In cooperation with the Planning, Building & Ordinance Department and Department of Public Works, the EESD reviews applications for building permits, demolition permits, fill permits, planning permits and tree removal permits. Also, the EESD assists the Clerk’s Office in reviewing applications for right-of-way disturbance permits, and Wetland Permits.

The EESD staff provides technical support to the DPW Water Division throughout several emergency water and sewer repairs. In addition, EESD staff provides assistance to residents regarding connection to Township water and sewer services, drainage concerns impacting their property, and natural resource development regulations. EESD staff also provides project management and technical direction during the replacement and upgrading of public utilities. The EESD works collaboratively with other jurisdictions, including MDOT, DWSD, SOCWA, and the Water Resource Commissioner’s office.

Below is a numerical summary of projects and work that the EESD either managed or provided assistance in 2012 and in 2013.

- 409 building, tree and fill permit reviews
- 3 miles of new safety path
- 1.2 miles of asphalt road paving
- 111,000 square feet of concrete road repair
- 4.25 miles of new road through SAD process
- 5,420 feet of new water main
- 35,000 feet (6.5 miles) of sanitary and combined sewer rehabilitated
- 890 feet of new sanitary sewer
- 15,000 square feet safety path repair and replacement
- 27,000 feet joint sealing
- 200 feet water main rehabilitated
- 231 right of way permit reviews
- $95,500 in escrow funds for new construction plan review and inspection
Department Highlight

**Water System**

**Master Meter Pit Improvements**

Three of the Township’s master metered connections to the Detroit water supply system were constructed nearly fifty years ago. Since that time, the DPW-Water Division has operated and maintained the components to the Township water system in the master meter pits, including the piping, valves, and pressure reducing valves (PRVs). The PRVs have operated beyond their expected useful life. In order to replace the PRVs, other improvements to the master meter pits were required, including upgrades for entry and access to equipment for safer operation. The construction of the improvements at the three connection pits began in the fall of 2012 and was completed in the spring 2013.

Each master meter connection to the Detroit water supply system had to be shut down for a period of time while the work was performed, posing the potential for low water pressure for residents and fire demand. Through careful advanced planning between the DPW-Water Division, Fire Department, and EESD, and computer modeling of the water system, the Township received no complaints and water was provided to all residents at safe and acceptable pressures.

Pit #3 Original Piping and PRVs

Pit #3 New Piping and PRVs

Olivia Olsztyn-Budry, Township Engineer and Ken Brown, DPW – Water Division Foreman, Managed the Project
Department Highlight

**Water System**

*Bloomfield Village Water Main Enhancement Project*

As part of the Township’s continuing capital improvement program, existing water mains in Bloomfield Village will be rehabilitated or replaced over the next several years. The water system that serves most of Bloomfield Village was installed from 1925 through 1968 and consists of 11 miles of underground piping. Because of the overall size of the water system in Bloomfield Village, the project will be constructed in different phases. This phase delineation was also in consideration to avoid other utility upgrades, such as improvements by Consumers Energy that are planned for the existing gas distribution system in the Bloomfield Village Subdivisions. The scope of the project includes upsizing 6-inch diameter water mains, replacing 8-inch to 12-inch diameter water mains, replacing and adding hydrants, and replacing valves.

The first phase of the water main enhancement program emphasis is to enhance the oldest water mains constructed in 1925, approximately 17,000 feet or 3.2 miles and includes significant portions of the water main east of Covington Road and a few small portions just west of Covington Road. The project scope required the contractor to replace 3,000 feet of water main in 2013, suspending work over the winter season and completing the remaining water main in 2014.

The selected method of construction is pipe bursting, which involves splitting or bursting the existing water main in place underground, and then inserting the new water main into the same channel as the old water main. Above ground excavations are minimized and only require excavations for access pits at the upstream and downstream ends of the section of water main being replaced, and access pits at all valve and hydrant locations. The impact to residents adjacent to the work is minimized to a day, and water service is restored within 10-12 hours.
Department Highlight

**Sanitary Sewer System**  
**Sanitary Sewer Rehabilitation**

The EESD staff is always looking for sources to fund and supplement projects. Since 2006, the Township has received $996,000 in grant funding from local and federal sources for rehabilitating or replacing the Township’s aging sanitary sewer system. Rehabilitation or replacing the sanitary sewer system prolongs the useful life of the utility, reduces emergency repairs, and removes infiltration and inflow, thereby lowering the cost of sewer bills. Below is a summary of the most recent grant project.

**Rouge Program Office Round XI Grant Funding**  
The EESD applied for a federal grant through the Rouge Program Office for sanitary sewer rehabilitation. The Township was awarded grant for $160,000 to perform sanitary sewer rehabilitation in Section 29, the area around Wing Lake. The project began in the summer 2013 and will be completed by July 2014.

**Manhole Rehabilitation**  
In addition to sewer rehabilitation around Wing Lake, the EESD also managed the rehabilitation of 127 sanitary sewer manholes. These manholes were identified during a previous sanitary sewer evaluation survey as needing rehabilitation for both structural reasons and preventing inflow and infiltration into the sanitary sewer system.

Top Left: Buildup of grease in existing sewer, potentially decreasing capacity.  
Middle Left: Offset joints, allowing for water and soil infiltration, and intrusion of roots to potential block flow.  
Bottom Left: Unburied sanitary manhole  
Bottom Middle: Cured liner sticking out of a manhole. Liner will be cut inside manhole to match existing pipe.  
Bottom Right: Scaffolding for support of liner installation.
Department Highlight

Intern Program

The EESD is proud to continue our intern program. In 2011, Charles Markus, started as an intern with the Township working with both the EESD and DPW. He performed various tasks including management and implementation of the West Nile Virus Program, Fertilizer Applicant Registration Program, and dry weather sampling required as part of the Township’s NPDES Storm Water Permit. Later in 2011 he was hired full time as our Program Coordinator.

In 2012 and 2013 the EESD continued our intern program with three student interns: Paul Diven from U of M - Dearborn, Kristen Shetler from U of M - Ann Arbor, and Angela Pasciolla from Lawrence Technological University. The interns work closely with EESD staff to gain experience in construction management, plan review and inspection; and administration of environmental programs. Interns assist EESD staff with various tasks, including:

- Performing tree inspections, ordinance violation inspections,
- Administering the West Nile Virus program, including sampling and treatment,
- Performing engineering and building plan reviews,
- Inputting data for the water and sewer systems, and
- Conducting construction site visits for Township projects.

Paul surveying a road catch basin for mosquito larvae

Kristen learning about the new PRVs with Ken Brown, Water Foreman, and Olivia Olsztyn-Budry, Township Engineer.

Angela reviewing construction plans for a new sanitary sewer.
Department Highlight

Grant Funding
Green Landscaping and Beautification

While surface water quality in the Township remains higher than several other areas in the Rouge River Watershed, it is critical to continue to maintain and protect these water features. In part, landscaping practices using trees and other vegetation will help protect water quality. Below is a summary of landscaping projects funded by grants received.

ARC Tree Grant
In the spring of 2012 the Alliance of Rouge Communities (ARC) obtained a grant from the MDNR for the procurement of trees. Bloomfield Township requested and was granted a total of 25 trees from the ARC. The ARC solicited for a single nursery supplier for the entire grant which provided 800 trees to over twenty communities in the Rouge River Watershed. EESD staff worked with the DPW-Grounds Division in planning and planting of the trees on Township properties. The 25 trees the Township received were planted in the fall of 2012. Additional 3 trees were made available and planted in the spring of 2013.

Charles Markus, Program Coordinator, worked on the tree grant
Department Highlight

Department Highlight

Road Special Assessment Districts (SAD)

SAD #404: Knob Hill Subdivision, Knob Hill No. 2 Subdivision, Knob Hill No. 3 Subdivision and Forman Orchards Subdivision

The homeowners in the Knob Hill Subdivision, Knob Hill No. 2 Subdivision, Knob Hill No. 3 Subdivision and Forman Orchards Subdivision, in Section 19, petitioned the Township to create a special assessment district to repave their roads that include Van Ness Drive, Van Ness Court, Mark Hopkins Road, Hoit Tower Drive, Clarendon Crest Court, Fairmount Hill Court, and Nob Hill Court. The EESD drafted the petition, and managed the SAD process on behalf of the Township. The construction of the paving project was managed by the Road Commission for Oakland County. Lance Scram, with the EESD, acted as a liaison between the Township, residents and the RCOC during the project.

SAD #405 Thorncrest Subdivision and Thorncrest No. 1 Subdivision

The homeowners in the Thorncrest Subdivision and Thorncrest No. 1 Subdivision, in Section 28, petitioned the Township to create a special assessment district to repave their roads that include Thorncrest Drive, Blackhorn Court and Ramshead Court. As described above, the EESD drafted the petition and managed the SAD process on behalf of the Township and provided a liaison between the Township, residents and RCOC. The construction of the paving project was managed by the Road Commission for Oakland County.
Engineering and Environmental Services Department

The Engineering and Environmental Services Department (EESD) provides engineering and environmental support to Bloomfield Township residents, local businesses, commercial developments, and other Township departments. The department manages Township capital improvement projects, provides construction administration, and coordinates a variety of services. The EESD also provides technical oversight and manages several programs that have a potential impact on our community’s public health and environment. Below are some of the services and programs provided by the EESD:

Services:
- Perform site plan reviews for new developments
- Review wetland permit and right-of-way permit applications
- Construction administration for public improvements
- Provide technical support to Lake Improvement Boards
- Review and apply for grant funding opportunities
- Provide technical assistance for the National Flood Insurance Program (NFIP)
- Provide assistance for miscellaneous residential concerns (Emerald Ash Borer, flooding/drainage, natural features, etc.)
- Coordinate projects with other public agencies

Programs:
- Water System Capital Improvement Program
- Sanitary Sewer Rehabilitation Program
- Safety Path Construction Program
- Road Improvement Program
- Coordinate data acquisition for utility mapping
- Manage/coordinate Special Assessment Districts (SAD)
- Manage Phase II Storm Water Permit requirements
- Gypsy Moth Management Program
- West Nile Virus Management Program
- Review of Wetland Permit applications
- Wetland inventory mapping updates
- Hazard mitigation planning projects
- Water Quality Monitoring activities
- Tree Preservation & Protection Ordinance management
- Fertilizer Ordinance management
**Construction Projects**

The EESD provides construction oversight and management to a variety of projects. Some key programs include: safety path construction, water system upgrades, sewer rehabilitation project oversight, and road construction and replacement projects.

**Road Reconstruction Tri-Party Agreement**

In 2012 Bloomfield Township applied for funding for road reconstruction from Oakland County Tri-Party program. The Township selected Andover Road between Telegraph and Exeter roads for reconstruction. This area was originally bid in 2009 with Exeter Road Reconstruction Tri-Party Project, but at that time, the bid prices came back too high and the project was reduced to just Exeter Road. With the new Tri-Party funding in 2012, work on Andover Road started in June and was completed in August 2012.

**Concrete Replacement Program**

Each year, funds are allocated to remove and replace sections of concrete roads within the Township. Although the roads are under the jurisdiction of the Road Commission for Oakland County, residential roads are evaluated and selected for repair by Township staff. Selection criteria include RCOC Paser Rating, the number of complaints, age of road, location of repair, and type of pavement issue. In 2012 and 2013, over 111,000 square feet of concrete was removed and replaced in several locations throughout the Township.

**Asphalt Overlay Program**

In 2013, funds were budgeted to contract a portion of the paving to supplement the DPW – Road Division in completing their annual asphalt overlays on subdivision roads. This contracted work is necessary due to the short paving season in Michigan. This was the first time in seven years that an outside contractor was hired to overlay with asphalt. The EESD staff put together specifications and solicited bids from paving contractors and the DPW – Road Division oversaw the work. Over 1,800 tons (1.2 miles) of asphalt was overlaid in three subdivisions. These overlays are temporary repairs that will extend the current use of the roadway surface.

**Joint Sealing Program**

In 2012, the Township contracted to have 27,000 linear feet of joint sealing performed. This was the first time in seven years that money was available for this work. The EESD staff put together specifications and solicited bids from joint sealing contractors. Work was performed on Wabeek Lake Drive, the Township Campus parking lots and the parking lot of the Bloomfield Village Offices.

**Bloomfield Township CSO Chapter 20 Drainage District Rehabilitation Project**

Bloomfield Township partnered with Oakland County to obtain Recovery Zone Bonds for sanitary and combined sewer rehabilitation in the Bloomfield Township Chapter 20 Drainage District. Oakland County also funds a portion of the project, leaving the Township’s portion to be 77% of the total costs. The scope of the project includes cleaning, inspecting and rehabilitating sanitary sewers and manholes in order to reduce infiltration and inflow (I/I) and restore structural integrity of the aging sewer system. This additional work has
resulted in all Township owned sanitary sewers being inspected and rehabilitated between Quarton and Maple Roads east of Cranbrook Road and west of Lahser Road, and all sanitary sewers in the Oakland Country Club subdivision north and south of Maple Road. The project is expected to be completed by the spring of 2014.

**Connection to the SOCWA Water Supply**

In 2011, Bloomfield Township became a customer of SOCWA for purchasing water. Bloomfield Township had been a customer of DWSD since 1964, but by purchasing water from SOCWA, the Township has saved on the cost of water. This savings was realized in the first year and subsequent years to be about $2,000,000 per year.

Part of becoming a customer of SOCWA, Bloomfield Township entered into an agreement with SOCWA which had several requirements and goals set within it. The requirements included that Bloomfield Township connect to the SOCWA water supply system, and agree to work with the City of Bloomfield Hills to possibly integrate the two water systems. The EESD staff working with the DPW – Water Division and the Township’s consultants, HRC, determined that the most beneficial connection to the SOCWA system was at Quarton Road east of Cranbrook. Additional savings were made by utilizing the existing Bloomfield Hills connection at the same location and combining a small district in Bloomfield Hills with the Bloomfield Township District. This option was approved by both Township and City leaders in October 2012. Connection to the SOCWA system and the construction of the new PRV pit in Bloomfield Hills began in September 2013. The projects will be completed by July 2014.

**Pressure Reducing Valve Replacements**

The EESD and DPW-Water Division replaced the internal water system PRVs located at Big Beaver east of Woodward. The pit and PRVs were originally installed in 1972, and because of the age, required significant maintenance on a regular basis. In 2002, the pit was upgraded with access hatches, but due to the inability to shut down the water that ran through the PRV, the replacement of the piping and PRVs was postponed. The DPW-Water Division installed the necessary valves outside of the pit in order to replace the piping and PRVs inside the pit and the replacement of the PRVs began shortly after. The project included replacing the existing PRVs with Singer PRVs, which is the same manufacturer as the PRVs used in the recent Master Meter Vault Improvement Project that concluded earlier in 2013. The EESD, DPW-Water Division and Fire Department worked closely during the duration of the project to ensure that all residents had adequate water pressures for both domestic use and fire suppression.

**Sanitary Sewer Extensions**

Bloomfield Township managed two sanitary sewer projects in 2013. Public sanitary sewer was extended in Bloomfield Heights No. 1, and in Wing Lake Shores Subdivisions to serve existing properties. In both areas, lot size was small, soils were not adequate for septic system drainage, and options through a private connection were not possible. A total of 680 feet of sewer was installed in Bloomfield Heights No. 1 and 208 feet in Wing Lake shores. A special connection charges was determined and approved by the Township Board for when properties connected to the sanitary sewer in both locations as a way to recover the costs expended on these projects.
**Escrow Accounts**
The EESD also manages new private construction through the use of escrow accounts. Developers interested in constructing private facilities in the Township post funds with the Township for the EESD or the Township’s consultant to review construction plans for conformance to the Township’s engineering ordinance and standards for public water and sewer construction and connections. During construction, Township representatives are on site to observe and inspect the construction per the approved plans. Lifetime Fitness is one of several projects that started in 2013. To date, the EESD has collected over $55,500 in fees for review and inspection on this project alone. As part of this project, the developer is installing approximately 550 feet of public sewer and 800 feet of public water main.

**Safety Path Program**
In 2012 and 2013, 3 miles of new safety paths were constructed as part of the master plan approved with the 2008 millage renewal. These areas include:
- Adams Road, from Ashover Drive to Square Lake Road
- Square Lake Road, from the I-75 ramp to Adams Road
- Telegraph Road, from Maple Road to Sandalwood Drive
- Telegraph Road, from Long Lake Road to Hickory Grove Road
- Maple Road, south side, from West Bradford Drive to Westbourne Road
- Square Lake Road, north side, from Bloomfield Crossing to Opdyke Road
EESD Programs

In addition to construction projects, the EESD manages and oversees several Township-wide programs both specific to EESD and in coordination with other departments.

Tree Preservation & Protection Ordinance
The EESD works with the Planning, Building & Ordinance Department to assist Township residents and their contractors in the form of pre-application meetings, site visits, plan evaluation and phone conversations with perspective applicants and interested residents. After a tree permit application is submitted to the Building Department, the EESD staff reviews the application and inspects the site to confirm the work to be done.

In addition to the private projects, the EESD staff reviews the construction plans of public improvements such as safety path and water main installation to assure that trees are protected during construction.

Fertilizer Ordinance
Through Bloomfield Township’s Registered Fertilizer Applicator Program, commercial fertilizer firms agree to follow the requirements of the Fertilizer Ordinance for all fertilization done in the Township. The registrars are issued a permit for a two year period. The second two year phase of this permit process begins in 2014.

National Pollution Discharge Elimination System (NPDES) Permit Management
On May 22, 2008 the Michigan Department of Environmental Quality (MDEQ) issued a new National Pollutant Discharge Elimination System (NPDES) General Permit for our Municipal Separate Storm Sewer System (MS4). On November 30, 2010, the MDEQ rescinded that permit in response to over seventy communities contesting the requirements in that permit as being unduly prescriptive and costly. On this action, the Township was forced to revert back to its 2003 Watershed Permit requirements.

Bloomfield Township continues to implement the requirements under the Storm Water Pollution Preventive Initiative (SWPPI) plan which was required as part of the 2003 Watershed Permit. In addition, Bloomfield Township also incorporates elements from the rescinded 2008 permit. The new permit will be required by 2017.

Projects related to the NPDES Permit include Public Education. The EESD staff maintains two bulletin boards along with a display case within the Township Campus.

West Nile Virus Management Program
The Township West Nile Virus Management Program continues to address the WNV problem through an integrated pest
management program that consisted of identifying and prioritizing approximately 1900 catch basins and detention basins. Public areas found to be in high priority of mosquito control treatment are sampled and treated. Once it is determined that breeding has begun, treatment of street side catch basins, ditches, retention and detention basins will begin. Catch basins will be treated with the larvicide Altosid. Altosid is a growth regulator that prevents mosquito larvae from developing to adults and lasts up to 150 days. Throughout the year the EESD provides public education and community outreach activities through the WNV hotline, Township newsletter articles, and printed materials. The website provides additional information, such as the modes of virus transmission; means of prevention; and how to reduce the risk of exposure. There were no recent cases reported of the WNV in the Township. However, the risk for contracting the disease is still present in Southeast Michigan.

Gypsy Moth Management Program
Since 1993 Bloomfield Township, together with the National Gypsy Moth Management Group, has implemented an integrated pest management approach to reduce and contain the Gypsy Moth problem. Components of the program include: public education, intensive biological monitoring, and treatment plus evaluation.

The National Gypsy Moth Management Group personnel collected data from biological surveys at permanently established survey locations to determine Gypsy Moth population, density and health, susceptibility and vulnerability of trees and infestation trends. In the spring, fungus inoculations were applied to many locations throughout the Township.

Community Participation

Open House
EESD staff participated in Bloomfield Township’s open house in October. EESD answered questions, displayed information, and educational materials addressing storm drain awareness, water conservation, earth-friendly landscape materials, fertilizer education, car washing techniques, proper HHW disposal, Emerald Ash Borer, West Nile Virus, “Ours to Protect” materials, and safety path maps. Also the EESD held a free tree raffle. Pictured to the right are the tree raffle winners, the Steffanina family with the winning tree, a white pine.
River Rouge Cleanup
EESD partnered with E.L. Johnson Nature Center to hold a Rouge Rescue Event. The event takes place annually on the first Saturday in June. Over thirty volunteers worked to removed invasive species, planted native species, cleaned trash, and worked to restore the hiking trails within the nature center.

Frog and Toad Survey
In March EESD staff hosted a Frog and Toad Survey training in conjunction with Friends of the Rouge and the ARC for Township residents. Amphibians are used as a survey tool because they depend on clean water for breeding and need good quality upland habitat for the adult portion of their life, their presence is an indicator of good quality habitat. This means the more species a site can support, the healthier the habitat is.

Student Outreach
Each year in May, the Pontiac Optimist club brings interested students to tour the Township Government. The EESD participates and spends time with the students discussing the water and sewer systems and the importance of both system for human health, watershed wide topics and their effect on the watershed, and other projects that may be of interest to students.

In 2013, the EESD met with four students, Haakam, Jakar, Michael, and Daniel, also known as the Bionic Lancers, from Bloomfield Hills Middle School. The students are participating in the Michigan First Lego League and were interested in learning about the water system and sewer system, and presented to the EESD their Lego League competition design project. EESD provided input and feedback for the students. The Bionic Lancers were one of the seven teams out of a total of 24 participating teams, to move on to the Michigan Championship.

The EESD also provides information to student groups, for assistance with school projects. This past year two different groups of 4th grade students contacted the EESD regarding wetlands and storm water best management practices and ordinances for class projects.

In 2013, a Bloomfield Township high school student shadowed EESD staff for an afternoon. The high school student followed EESD staff to various job sites to get a better understanding of what Bloomfield Township does to protect our environment.
As we look ahead to the future, the EESD will continue to oversee the Township’s construction projects and continue to provide support to all Township departments regarding the environment, natural features, building projects, and Township utilities.

Projects planned for 2014 include:

- Completion of the Bloomfield Village Phase I Water Main Enhancement Project
- Update the Water System Capital Improvement Plan from 2004
- Create a Sanitary Sewer Infrastructure Capital Improvement Plan
- Continue existing water system capital improvement program
- Work with the WRC and neighboring communities with sewer system improvements
- Develop an Asset Management Program for sewer and water systems
- Continue the sanitary sewer rehabilitation program
- Continue the Intern Program
- Construction and repair of safety paths
- Continue road paving, concrete replacement and joint sealing