

AGENDA
MONTGOMERY TOWNSHIP
BOARD OF SUPERVISORS
October 26, 2015

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Robert J. Birch
Candyce Fluehr Chimera
Michael J. Fox
Jeffrey W. McDonnell
Joseph P. Walsh

Lawrence J. Gregan
Township Manager

ACTION MEETING – 8:00 PM

1. Call to Order by Chairman
2. Pledge of Allegiance
3. Public Comment
4. Announcement of Executive Session
5. Consider Approval of Minutes of October 13, 2015 Meeting
6. Consider Appointment to Township Board/Commission
7. Introduction of New Police Canine Officers and Presentation to Montgomery County District Attorney
8. Presentation of Check to Fire Department of Montgomery Township Fire Relief Association
9. Consider Resolution to Acknowledge the Fire Department's 2014 Life Safety Achievement Award
10. Consider Approval of 2016 Winter Recreation Programs and Fees
11. Consider Adoption of Proposed Ordinance #15-289- Amending Stop Intersections & Yield Intersections
12. Consider Approval of Distribution of 2015 Act 205 General Municipal Pension System State Aid
13. Consider Request for Waiver of Fee for Special Events Permit – Bharatiya Temple
14. Consider Authorization of Advertisement of Public Comment Period and Public Meeting – Township MS4 TMDL Strategy
15. Consider Payment of Bills
16. Other Business
17. Adjournment

Future Public Hearings/Meetings:

10-27-2015 @7:00 p.m. – Environmental Advisory Committee
10-28-2015 @6:30 p.m. – Budget Workshop #4
10-29-2015 @6:30 p.m. – Budget Workshop #5 (if needed)
11-09-2015 @8:00 p.m. – Board of Supervisors Meeting

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Public Comment

MEETING DATE: October 26, 2015 ITEM NUMBER: #3

MEETING/AGENDA: WORK SESSION ACTION XX NONE

REASON FOR CONSIDERATION: Operational: XX Information: Discussion: Policy:

INITIATED BY: Lawrence J. Grogan
Township Manager

BOARD LIAISON: Michael J. Fox, Chairman
of the Board of Supervisors



BACKGROUND:

The Board needs to remind all individual(s) making a comment that they need to identify themselves by name and address for public record.

The Board needs to remind the public about the policy of recording devices. The individual(s) needs to request permission to record the meeting from the Chairman and needs to identify themselves, by name and address for public record.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

None.

MOTION/RESOLUTION:

None.

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

INITIATED BY: Lawrence J. Grogan
Township Manager 

BOARD LIAISON: Michael J. Fox, Chairman
of the Board of Supervisors

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Approval of Minutes for October 13, 2015

MEETING DATE: October 26, 2015 ITEM NUMBER: #5

MEETING/AGENDA: WORK SESSION ACTION XX NONE

REASON FOR CONSIDERATION: Operational: XX Information: Discussion: Policy:

INITIATED BY: Lawrence J. Gregan
Township Manager

BOARD LIAISON: Michael J. Fox, Chairman
of the Board of Supervisors

BACKGROUND:

Please contact Deb Rivas on Monday, October 26, 2015 before noon with any changes to the minutes.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

None.

MOTION/RESOLUTION:

None.

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

**MINUTES OF MEETING
MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
OCTOBER 13, 2015**

Chairman Michael J. Fox called the executive session to order at 7:00 p.m. In attendance were Vice Chairman Candyce Fluehr Chimera, Supervisors Robert Birch, Jeffrey McDonnell and Joseph Walsh. Also in attendance were Frank Bartle, Esquire, Lawrence Gegan, Ann Shade and Shannon Drosnock.

Chairman Michael J. Fox called the action meeting to order at 8:03 p.m. In attendance were Vice Chairman Candyce Fluehr Chimera, Supervisors Robert Birch, Jeffrey McDonnell and Joseph Walsh. Also in attendance were Frank Bartle, Esquire, Lawrence Gegan, Scott Bendig, Rick Lesniak, Ann Shade, Stacy Crandell, Bruce Shoupe, Kevin Costello, Rich Grier, Brian Forman, Kelsey McMeans and Deb Rivas.

Following the Pledge of Allegiance, Chairman Michael J. Fox called for public comment from the audience and there was none.

Township Solicitor Frank Bartle, Esquire reported that the Board had met in an executive session earlier in the evening at 7:00 p.m. to discuss a personnel matter regarding employee benefits. Mr. Bartle stated that this matter was a legitimate subject of executive session pursuant to Pennsylvania's Sunshine Law.

Chairman Michael Fox made a motion and Vice Chairman Candyce Fluehr Chimera seconded the motion to approve the minutes of the September 28, 2015 Board meeting. The minutes of the meeting were unanimously approved as submitted.

Director of Recreation and Community Center Brian Forman announced that the Community and Recreation Center was now opened to the public for tours during certain days and times. Also, Mr. Forman reminded everyone that the Dedication Ceremony for the building was being held on Saturday, October 24, 2015 from 11am to 3pm. The day will include Police and Fire Department demonstrations, as well as Recreation Program demonstrations for the public to participate in. The Montgomery County Bookmobile will be onsite in addition to a DJ,

moon bounces, face painting, balloon artist, magician and more. From 2pm to 3pm, the event will conclude with a Mango Men concert. The event is free to the public. Mr. Forman also announced that the Community and Recreation Center will officially open for business at 5:30 a.m. on Monday, October 26, 2015.

Police Chief Scott Bendig announced that earlier this year, Canine Jammer retired after over ten years of service to the Montgomery Township Police Department. Jammer entered service with the Township Police Department in 2005, serving as a dual purpose canine, specializing in both patrol work and drug detection. During his distinguished career, Canine Jammer and his handler, Sgt. Robert Hart, responded to over 400 calls for service, resulting in the arrest of numerous offenders and the seizure of significant quantities of drugs. This team also competed yearly in the United States Police Canine Associations Police field trials, obtaining numerous tracking, narcotic, Detector Dog and PD1 Certifications. Resolution #1 made by Chairman Michael Fox, seconded by Supervisor Robert Birch and adopted unanimously, recognized Canine Jammer for his ten years of service to the Police Department and citizens of Montgomery Township. In addition, Canine Police Officers Daniel Rose, Joseph McGuigan, Brian Schreiber and Tim Woch presented Sgt. Robert Hart with a plaque honoring him and his three canine partners, Bart, Astro and Jammer, during his over 25 years of service as a Canine Police Officer with Montgomery Township.

Police Chief Scott Bendig announced the resignation of Police Officer Brandi McCoy. Ms. McCoy worked for the Police Department as a Police Officer since July 29, 2011. Her separation will be effective October 15, 2015. Resolution #2 made by Chairman Michael Fox, seconded by Supervisor Joseph Walsh and adopted unanimously, recognized the resignation of Brandi McCoy from her position as a Police Officer with Montgomery Township.

Director of Fire Services Rick Lesniak reported that the Department of Fire Services (DFS) and the Fire Department of Montgomery Township (FDMT) are requesting the Board's approval to submit applications through the Pennsylvania State Fire Commissioner's Office

annual Volunteer Firefighter/Volunteer Ambulance Service Grant program. Each grant application will be approximately \$15,000.00, requesting the purchase of fire hose for a total grant of \$30,000.00. Resolution #3 made by Chairman Michael Fox, seconded by Vice Chairman Candyce Fluehr Chimera and adopted unanimously, granted approval to the DFS and FDMT to submit applications for the grants.

Director of Public Works Kevin Costello reported that the Township has regularly participated in the Montgomery County Consortium Cooperative Rock Salt Contract that is administrated by Upper Dublin Township. It has been the Township's experience that the cost per ton through the Consortium Bid has been lower than administering our own bid and saves the cost of advertising. The Consortium recently completed the public bidding process for the purchase of bulk salt for the 2015-2016 winter season and has awarded the contract to Oceanport, LLC of Claymont, Delaware, at a price of \$66.10 per ton delivered. Resolution #4 made by Chairman Michael Fox, seconded by Vice Chairman Candyce Fluehr Chimera and adopted unanimously, approved the Township's participation in the Montgomery County Consortium Rock Salt Purchase Contract for 2015-2016.

Assistant to the Township Manager Stacy Crandell reported that the Northern Montgomery County Recycling Commission (NMCRC) negotiated a new Compost Agreement with Barnside Farms Compost Facility. The main purpose of the Compost Agreement is to continue to designate an official Pennsylvania Department of Environmental Protection permitted compost facility for residents to use as a drop-off facility for leaf and yard waste generated in municipalities which do not have curbside pickup for leaf and yard waste at least once per month. The initial term of the agreement is three years and will automatically renew for an additional three years unless written notice is provided by either party. Resolution #5 made by Chairman Michael Fox, seconded by Supervisor Joseph Walsh and adopted unanimously, approved the renegotiated Compost Agreement with Barnside Farms Compost Facility.

Police Chief Scott Bendig reported that members of the Police Highway Safety Unit recently identified several intersections where traffic control devices (signs) had not been installed or more appropriate signs should be installed. The signs were posted in this manner when the developments were built over 25 years ago. The Police Department has been working to prioritize the signs to be modified for several developments in the Township. An ordinance has been prepared to amend stop and yield regulatory signs at ten locations in Montgomery Village and is ready to be advertised. Resolution #6 made by Chairman Michael Fox, seconded by Vice Chairman Candyce Fluehr Chimera and adopted unanimously, authorized the advertisement of Proposed Ordinance #15-289 Amending Stop Intersections and Yield Intersections – Montgomery Village Development for consideration and adoption at the Board of Supervisors meeting to be held on Monday, October 26, 2015 after 8pm in the Township building.

Township Manager Lawrence Gregan reported that when the Township built the current building facilities in 1995, the construction included an addition to house the Volunteer Medical Service Corps (VMSC) Ambulance. The Township and VMSC entered into a ten year lease agreement in exchange for VMSC providing continuing emergency service to the Township. The VMSC is required to perform maintenance and maintain a capital maintenance fund for future replacement of items such as the roof, heaters, garage doors, generator and air conditioning system. The lease was extended for a second 10 year term in November 2005 with an expiration date of August 1, 2015. The VMSC has requested an extension of the lease for another 10 year period under the same terms. Resolution #7 made by Chairman Michael Fox, seconded by Supervisor Robert Birch and adopted unanimously, authorized the execution of the Lease Agreement Extension between Montgomery Township and the Volunteer Medical Service Corps until August 1, 2025.

Resolution #8 made by Chairman Michael Fox, seconded by Vice Chairman Candyce Fluehr Chimera and adopted unanimously, approved the cash escrow release of \$35,000.00 to

be returned to Montgomeryville Investors, LP for the Taco Bell Restaurant if a traffic signal was not constructed at the location by September 27, 2015.

Chairman Michael Fox made a motion to approve the payment of bills for October 13, 2015. Supervisor Robert Birch seconded the motion. The payment of bills was unanimously approved as submitted. Supervisor Joseph Walsh inquired about the payment made to Celebration Fireworks in light of the Autumn Festival being cancelled due to inclement weather. Township Manager Lawrence Gregan explained that the payment had been a deposit and that Celebration Fireworks has agreed to keep the deposit for the Township's next Autumn Festival event.

There being no further business to come before the Board, the meeting adjourned at 8:36 p.m.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Appointment to Township Board/Commissions

MEETING DATE: October 26, 2015

ITEM NUMBER: #6

MEETING/AGENDA: WORK SESSION

ACTION XX

NONE

REASON FOR CONSIDERATION: Operational: XX Information: Discussion: Policy:

INITIATED BY: Lawrence J. Gregan
Township Manager

BOARD LIAISON: Candyce Fluehr Chimera, Liaison
Montgomery Township Planning Commission

BACKGROUND:

A vacancy currently exists on the Montgomery Township Planning Commission. Township resident Michael Lyon has expressed an interest in becoming a member of the Montgomery Township Planning Commission.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

Consider the appointment of Michael Lyon to the Montgomery Township Planning Commission.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby appoint Michael Lyon to serve as a member of the Montgomery Township Planning Commission with an existing four year term to expire on January 1, 2019.

MOTION: _____

SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Introductions on New Police Canines/Recognition of Support by District Attorney Risa Vetri Ferman

MEETING DATE: October 26, 2015 ITEM NUMBER: #7

MEETING/AGENDA: WORK SESSION ACTION XX NONE

REASON FOR CONSIDERATION: Operational: XX Information: Discussion: Policy:

INITIATED BY: J. Scott Bendig, Chief of Police BOARD LIAISON: Michael J. Fox, Chairman

BACKGROUND:

In early 2015 the Montgomery Township Police Department's Canine Unit was reduced to two active teams due to the retirement of canine Jammer and untimely passing of canine Bauer. Two new canine were added to the unit this year and are present this evening for introduction to the Board:

Canine Cooper:

Cooper is a 22 month old Belgian Malinois assigned to Officer Brian Schreiber. Cooper was imported from Slovakia and trained at Tarheel Canine Academy in patrol work and narcotics detection.

Canine Major:

Major is a 21 month old German Shepard assigned to Officer Tim Woch. Major was imported from Slovakia and trained at Tarheel Canine Academy in patrol work and narcotics detection.

Both canines are outstanding additions to our Canine Unit and most recently completed their "PD1" certifications at the Region 6 United States Police Canine Association Trials in Montgomery Township.

The purchase of these two canines could not have occurred without the generous assistance of members of our community, and in particular our District Attorney, Risa Vetri Ferman. District Attorney Ferman has been an ardent supporter of the department's Canine Unit, providing funding for the purchase and training of several of our canines since taking office as our District Attorney in 2007. In appreciation for this support the Board of Supervisors would like to recognize District Attorney Ferman at this meeting.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT: None.

PREVIOUS BOARD ACTION: None.

ALTERNATIVES/OPTIONS: None.

BUDGET IMPACT: None

RECOMMENDATION:

Recognize the new police canines and acknowledge the support of District Attorney Risa Vetri Ferman.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby welcome our police canines, Cooper and Major. Furthermore, be it resolved by the Board of Supervisors of Montgomery Township that we express our sincere appreciation to District Attorney Risa Vetri Ferman for her unwavering support of the Montgomery Township Police Department's Canine Unit.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Presentation of Check to the FDMT Fire Relief Association

MEETING DATE: October 26, 2015

ITEM NUMBER: #8

MEETING/AGENDA: Work Session

ACTION **X**

NONE

REASON FOR CONSIDERATION: Operational: X Policy: Discussion: Information:

INITIATED BY: Shannon Q. Drosnock
Finance Director

BOARD LIAISON: Robert J. Birch, Supervisor
Liaison – Finance Committee

BACKGROUND:

The annual allocation by the Commonwealth of Pennsylvania of a share of the Foreign Fire Insurance Tax has been received in the amount of \$181,959.48, a decrease of 28% from the 2015 allocation. These funds are a result of taxes paid by foreign fire insurance companies to the State of Pennsylvania in accordance with Act 205 of 1984.

These funds are allocated by the State to support the Volunteer Fire Relief Association of the volunteer fire company that serves the Township. Fifty percent of the allocation is based on the populations of the Township and fifty percent is determined by the market value of real estate in the Township compared to the state average. Act 205 requires that the Township forward the proceeds to the FDMT Fire Relief Association within 60 days. The Township's check will be presented to the FDMT Fire Relief Association at the Tuesday, October 26, 2015 meeting.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

\$70,400

\$252,363.85

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

Distribution of the fire relief association allocation is in accordance with the approved 2015 Budget.

RECOMMENDATION:

Present the Township's check to the Relief Association and approve the resolution

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby present a check in the amount of \$181,959.48 from the Commonwealth of Pennsylvania to the FDMT Fire Relief Association.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Resolution to Acknowledge the Fire Department's 2014 Life Safety Achievement Awards

MEETING DATE: October 26, 2015

ITEM NUMBER: #9

MEETING/AGENDA:

ACTION XX

CONSENT

NONE

REASON FOR CONSIDERATION: Operational: XX Policy: Discussion: Information: XX

INITIATED BY: Richard M. Lesniak
Director of Fire Services

BOARD LIAISON: Robert J. Birch, Public Safety
Committee Liaison

BACKGROUND:

Montgomery Township Department of Fire Services (DFS) and Fire Department of Montgomery Township (FDMT) were recently awarded the 2014 Life Safety Achievement Award by the National Association of State Fire Marshals Fire Research and Education Foundation (NASFM Foundation) in partnership with Grinnell Mutual Reinsurance Company for its fire prevention accomplishments in 2014.

Montgomery Township is one of only 96 fire departments across the United States to receive the award this year for recording zero fire deaths in 2014. In addition to zero fire deaths, the award recognizes active and effective fire prevention programs as well as a clear commitment to reducing the number of house fires in the community.

RECOMMENDATION:

It is recommended that the Board of Supervisors acknowledge the Fire Department's 2014 Life Safety Achievement Award for their fire prevention programs that have been proven to save lives year after year.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby acknowledge the Fire Department's 2014 Life Safety Achievement Award for their fire prevention programs that have been proven to save lives year after year.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

Announcing the 2014 *Life Safety Achievement Award*

September 1, 2015

Frank Colelli
Montgomery Township Fire Services
1001 Stump Road
Montgomeryville, PA 18936

Dear Chief:

Congratulations! Your fire department has been awarded the 2014 Operation Life Safety ***Life Safety Achievement Award***, presented jointly by the National Association of State Fire Marshals Fire Research & Education Foundation and Grinnell Mutual Reinsurance Company.

Since 1994, ***Life Safety Achievement (LSA) Award*** has recognized fire departments for having outstanding fire safety statistics and prevention programs during the preceding calendar year. In recognition of the proactive fire prevention efforts that your organization has made toward improving your community's fire and life safety behaviors, we are pleased to present you with the ***2014 Life Safety Achievement Award***.

Since its inception, the ***Life Safety Achievement Award*** has been granted to fire departments across the country that have achieved zero fire deaths in the previous calendar year. Recognizing that zero fire deaths in 2014 may not fully reflect a fire departments prevention efforts and may be beyond their control, criteria were revised to include those that record a 10 percent reduction in fire fatalities as well as requiring documentation of an active and effective fire prevention program.

For many years, the Grinnell Mutual Reinsurance Company has sponsored this prestigious Award and has done so again this year. Enclosed you will find a certificate suitable for framing that recognizes your department's accomplishments, signed by your State Fire Marshal, the President of the National Association of State Fire Marshals (NASFM) Fire Research & Education Foundation and the President of Grinnell Mutual Reinsurance Company. In addition, we are providing you with a news release template that you can customize and use for informing your community of your significant fire prevention efforts, in time for Fire Prevention Week, October 4 - 10, 2015.

We congratulate you for the substantial commitment that you have made to make your community safer, and we thank you for participating in the ***Life Safety Achievement Award*** program.

If you have any questions about the Award, please submit your inquiry to the NASFM Fire Research & Education Foundation general help line at admin@firemarshals.org

Sincerely,



Butch Browning
President
NASFM Fire Research & Education Foundation



2014 Life Safety Achievement Award

This certificate is awarded to

Montgomery Township Fire Services

For your outstanding efforts on behalf of fire and life safety

September 1, 2015

A handwritten signature in black ink, appearing to read "B. Browning".

Butch Browning, President
NASFM Fire Research & Education Foundation

A handwritten signature in black ink, appearing to read "Larry Jansen".

Larry Jansen, President & CEO
Grinnell Mutual Reinsurance Company

95 U.S. fire departments honored as Life Safety Achievement Award recipients by NASFM Foundation and Grinnell Mutual

The National Association of State Fire Marshals Fire Research and Education Foundation (NASFM Foundation) and Grinnell Mutual Reinsurance Company are pleased to announce that 95 fire departments from 29 states earned the Life Safety Achievement Award for their fire prevention accomplishments in 2014. (See list of award-winning departments below.) For over 20 years, this national award has recognized fire departments for actively promoting fire prevention in the pursuit of saving lives.

To qualify for the award, fire departments recorded zero fire deaths in residential structures or a 10 percent reduction of fire deaths from the prior year. In addition, award recipients documented active and effective fire prevention programs as well as commitment to reducing the number of house fires in the community.

"Fire departments take pride in what they are doing, and we want to give them the recognition they deserve," said David Miller, assistant vice president of Special Investigations for Grinnell Mutual. "The Life Safety Achievement Award celebrates fire departments for their efforts in organizing fire safety inspections, offering outreach programs that spread the word about fire safety, and, most importantly, saving the lives of people in their communities."

More than 1.2 million fires were reported in the United States in 2013, the most recent year for which statistics are available from the National Fire Protection Association. These fires caused 3,240 civilian deaths, 15,925 civilian injuries, and more than \$11.5 billion in property damage.

To reduce those statistics, this year's award recipients organized educational program: targeted to specific age and at-risk groups, conducted fire safety inspections, checked and installed free smoke detectors, provided fire extinguisher training, offered multi-lingual fire prevention resources, and promoted fire safety messages at a variety of community events. Many educational programs, including school visits, fire station tours, and summer camps, were designed to teach kids basic evacuation skills and how to call 9-1-1.

In addition, fire departments led the charge to incorporate sprinkler systems into building ordinances and to inform residents about how these systems can save lives and property. In wildfire-prone areas, firefighters promoted the importance of fuel reduction around homes. Firefighters also conducted additional life-saving programs, including

first-aid and CPR courses, fire safety classes for young babysitters, and drunk-driving demonstrations, and promoted disaster preparedness and the installation of carbon monoxide detectors.

"Experience tells us that fire prevention activities and public education can significantly reduce life and property loss from residential fires," said NASFM Foundation President Butch Browning. "Prevention and education are very cost effective compared to the traditional approach of relying on fire suppression. The Life Safety Achievement Award recognizes fire departments for their fire prevention efforts and encourages them to continually improve upon those efforts."

The 2014 Life Safety Achievement Award recipients named in 2015:

Alabama:

City of Dora Fire & Rescue

Spanish Fort Fire Rescue

Huntsville Fire and Rescue

Arizona:

MCAS Yuma Fire Department

California:

University of California-Irvine

Connecticut:

Tolland Fire Department

Woodbridge Fire Department

Florida:

Immokalee Fire Control District

Maitland Fire Rescue Department

Tamarac Fire Rescue

Georgia:

City of Woodstock Fire Department

Peachtree City Fire Rescue

Iowa:

Le Mars Fire Department

Bettendorf Fire, Rescue & Emergency Services

Grinnell Fire Department

Muscatine Fire Department

Spencer Fire Department

Indiana:

Coeur d'Alene Fire Department

Northern Lakes Fire Protection District

Illinois:

Gurnee Fire Rescue

Alsip Fire Department

Arthur Fire Department

River Forest Fire Department

Countryside Fire Protection District

Alburnett Fire

Kansas:

McPherson Fire Department

Ottawa Fire Department

Kentucky:

Milton Volunteer Fire & Rescue Department

Louisiana:

Gonzales Fire/Rescue

Grayson Volunteer Fire Department

Massachusetts:

Andover Fire-Rescue

Shrewsbury Fire Department

Maryland:

Riviera Beach Volunteer Fire Company

Michigan:

Sullivan Fire Protection District

Graafschap Fire Department

Keeler Township Fire & Rescue Department

Merrimac Fire Department

Norton Shores Fire Department

Olivet Fire Department

Minnesota:

Eden Prairie Fire Department

Excelsior Fire District

Minnetonka Fire & E/M

City of Hastings

Hopkins Fire Department

Alexandria Fire Department

White Bear Lake Fire Department

Albany Fire Department

Cloquet Area Fire District

Maple Grove Fire-Rescue

Missouri:

Battlefield Fire Protection District

Republic Fire Department

Kearney Fire & Rescue Protection District

Boles Fire Protection District

Logan-Rogersville Fire Protection District

North Carolina:

Etowah Horse Shoe Volunteer Fire & Rescue Department

Hopkins Fire Department

City of Henderson Fire Department

Pinehurst Fire Department

Nebraska:

Holdrege Volunteer Fire Department

Tecumseh Volunteer

Nevada:

Elko Fire Department

Ohio:

West Licking Joint Fire District

Concord Township Fire Department

Oklahoma:

Edmond Fire Department

Pennsylvania:

Millcreek Township Bureau of Fire Prevention

Montgomery Township Fire Services

South Carolina:

Camden Fire Department

Clover Fire Department

Georgetown City Fire Department

Fair Play Volunteer fire Department

Rock Hill Fire Department

Tennessee:

East Ridge Fire Rescue

Madisonville Fire-Rescue

Selmer Fire Department

Sharps Chapel Volunteer Fire Department

City of Clinton

Columbia Fire Department

Ripley Fire Department

Sharon Fire Department

City of Athens Fire Department

Germantown Fire Department

Bartlett Fire Department

Franklin Fire Department

Town of Mosheim Fire Department

Volunteer Fire Department of Seymour

Texas:

Haslet Fire Department

Ben Bolt Fire Department

Highland Village Fire Department

Utah:

Layton City Fire Department

Lehi Fire Department

West Valley City Fire Department

Diamond Valley Fire Department

Virginia:

City of Staunton Fire & Rescue

Wisconsin:

Middleton Fire Department

Sun Prairie Volunteer Fire Department

About NASFM Foundation

The NASFM Foundation is a public interest group whose mission is to reduce residential fire deaths and injuries. The Foundation advocates the use of residential fire sprinklers, smoke alarms, carbon monoxide detectors and teaching people fire-safe behavior. The Foundation assists fire departments with implementing residential sprinkler/smoke alarm programs on a local basis. The Foundation's partners include the United States Fire Administration, the National Association of State Fire Marshals and private industry/associations with an interest in and commitment to residential fire safety.

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MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Approval of 2016 Winter Recreation Programs and Fees

MEETING DATE: October 26, 2015

ITEM NUMBER: #10

MEETING/AGENDA:

ACTION

NONE

REASON FOR CONSIDERATION: Operational: Policy: Discussion: xx Information:

INITIATED BY: Brian Forman, Director

Of Recreation and Community Center

BOARD LIAISON: Michael J. Fox, Chairman,

Liaison to Park & Recreation

BACKGROUND:

Attached is a recommended listing of Recreation Programs to be offered to the public during the months of January through March, 2016. Associated fees for each program are also attached. These programs will be promoted via posting on www.montcrc.com, cable channels, E-News, and printed with our Winter Recreation Newsletter.

The 2016 Winter Recreation offerings include many opportunities for the community to participate in activities at the Community and Recreation Center.

We will offer programs for Toddlers to Seniors from Birthday Parties, Pickleball, Basketball and Volleyball to Holistic Health, Painting and Cake Decorating. We are also in the planning stages of offering activities to individuals with Special Needs.

To add value to the membership, many of our programs offer discounts to Community and Recreation Center Members. And, for Members Only, we are offering a "School's Out Program" on Martin Luther King, Jr. Day and President's Day. The program will provide an organized day of supervised activity for elementary school students.

We are excited to be able to offer so many quality programs to the community and look forward to continuing to add programs going forward.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT: None.

PREVIOUS BOARD ACTION: None.

ALTERNATIVES/OPTIONS: None.

BUDGET IMPACT:

Recreation programs are expected to be revenue/expense neutral.

RECOMMENDATION:

Approve the 2016 Winter Programs and Fee Schedule amendment as submitted.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby approve the 2016 Winter Programs and Fee Schedule amendment as submitted.

MOTION: _____

SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

Recreation Programs
January - March, 2016

<u>Program</u>	<u>Fees (charged to participant)</u>
Parent / Child Open Play Group	Free Members or Day Pass Fee
Ameri Kick Kick Boxing 1 & 2	\$79 (6 Weeks)
YANG'S Intro To Tae Kwon Do	\$39 Members, \$59 Non-Members (4 Weeks)
CPR/AED Training	\$65 Members, \$85 Non-Members (One day session)
Mad Science	\$36 Members, \$42 Non-Members (One day session)
Pick-Up Basketball	Free Members or Day Pass Fee (on going)
Pick-Up Pickleball	Free Members or Day Pass Fee (on going)
Pick-Up Volleyball	Free Members or Day Pass Fee (on going)
NHL Street Hockey	\$59 Members, \$75 Non-Members (8 Weeks)
Jump Start Sports Little Hoop Stars	\$80 (6 Weeks)
Jump Start Sports Hoop Stars	\$80 (6 Weeks)
Hollistic Health (Teens) Girls That Shine	\$55 Members, \$75 Non-Members (6 Weeks)
Hollistic Health One Day Classes	\$13 Members, \$23 Non-Members
(Holistic Health Classes - Girls That Shine, Essential Oils 101, Decoding Ingredients, Eat Well, Be Well, Deconstructing Cravings, Sugar Blues)	
Surviving the Holidays and Keeping your health in check, 10 ways to nourish yourself, New Years Resolution)	
Head Start Sports	\$55 Members, \$75 Non-Members (6 Week Sessions)
Young Rembrants Drawing Classes	\$69 (3 Sessions)
Canvas Painting	\$33 Members, \$49 Non-Members (2nd Saturday Every Month)
Cake Decorating Classes	\$49 Members, \$69 Non-Members (3 Sessions)
Cake Decorating Workshops	\$18 Members, \$29 Non-Members (3 One day Workshops)
Snow Insurance Program	\$100 Members Only (Fee for entire school year)
Coloring Club	Free Members or Day Pass Fee (Year Round)
French For Travelers	\$49 Members, \$59 Non-Members
School's Out Program	\$35 Members Only (MLK Day and Presidents Day)
Bricks 4 Kidz	\$90 (6 Weeks)
US Sports Institute	\$110 (2 Sessions)
Children Making Music	\$89 Members, \$99 Non-Members (One Session)
Teen/Tween Nights-Special Needs	FREE Members or Day Pass Fee
Youth / Adult Open Gym- Special Needs	FREE (2x a month during a weekday)

**MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY**

SUBJECT: Consider Adoption of Proposed Ordinance #15-289- Amending Stop Intersections & Yield Intersections- Montgomery Village

MEETING DATE: October 26, 2015 **ITEM NUMBER:** # 11.

MEETING/AGENDA: **ACTION** **NONE**

REASON FOR CONSIDERATION: Operational: Policy: Discussion: xx Information:

INITIATED BY: J. Scott Bendig
Chief of Police

BOARD LIAISON: Michael J. Fox, Chairman

BACKGROUND:

The Police Department presented a proposal for discussion at the Township Engineers Meeting regarding pedestrian and vehicular safety improvements in several residential developments within the Township. Members of the Police Department's Highway Safety Unit identified several intersections where traffic control devices (signs) had not been installed or more appropriate signs should be installed. The signs were posted in this manner when the developments were built over 25 years ago.

After careful review, it was the recommendation of the Police Department at the Township Engineers Meeting to post signs at these intersections to ensure sign consistency with other Township intersections. The recommended sign postings at these intersections would provide clear and consistent direction to all vehicle operators in the Township while promoting pedestrian and vehicular safety.

The Police Department recommends the following changes in the Montgomery Village Development:

	Development	Location	Intersection	Current Sign	Proposed Sign
1	Montgomery Village	Harbob Lane	Hawthorne Circle	Yield Sign	Stop Sign
2	Montgomery Village	Acorn Place	Hemlock Drive	None	Stop Sign
3	Montgomery Village	Narcissus Place	Hemlock Drive	None	Stop Sign
4	Montgomery Village	Hemlock Drive	Sassafras Drive	Yield Sign	Stop Sign
5	Montgomery Village	Hedgerow Place	Hemlock Drive	None	Stop Sign
6	Montgomery Village	Azalea Place	Hawthorne Drive	None	Stop Sign
7	Montgomery Village	Magnolia Place	Rose Lane	None	Stop Sign
8	Montgomery Village	Hawthorne Drive	Winter Drive	Yield Sign	Stop Sign
9	Montgomery Village	Jason Place	Winter Drive	None	Stop Sign
10	Montgomery Village	Aspen Place	Winter Drive	None	Stop Sign

The Police Department sent letters to all of the residents in Montgomery Village advising of the changes and the reasoning behind the changes (see attached letter). The Police Department received no negative feedback to the changes from the residents. If approved, a request will be forwarded to the Public Works Department requesting the signs be posted.

In the coming months, the Township will be proposing changes to signs in other developments. The Police Department will be following the same process and will contact residents prior to making recommendations to the Board of Supervisors.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

Total cost in materials for this project is estimated to be under \$2,000.

RECOMMENDATION:

Township Staff recommends the adoption of Ordinance #15-289- Amending Stop Intersections and Yield Intersections for Montgomery Village.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby adopt Ordinance #15-289 amending Stop Intersections and Yield Intersections for Montgomery Village Development.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

MONTGOMERY TOWNSHIP
Montgomery County, Pennsylvania

ORDINANCE #15-289

AN ORDINANCE AMENDING THE MONTGOMERY TOWNSHIP CODE, CHAPTER 222, ARTICLE II, SECTION 222-15 [STOP INTERSECTIONS; PENALTIES] AND SECTION 222-16 [YIELD INTERSECTIONS; PENALTIES], TO ADD LOCATIONS FOR STOP SIGNS AND DELETE LOCATIONS FOR YIELD SIGNS.

ENACTED: _____

MONTGOMERY TOWNSHIP

Montgomery County, Pennsylvania

ORDINANCE #15-289

AN ORDINANCE AMENDING THE MONTGOMERY TOWNSHIP CODE, CHAPTER 222, ARTICLE II, SECTION 222-15 [STOP INTERSECTIONS; PENALTIES] AND SECTION 222-16 [YIELD INTERSECTIONS; PENALTIES], TO ADD LOCATIONS FOR STOP SIGNS AND DELETE LOCATIONS FOR YIELD SIGNS.

IT IS HEREBY ENACTED AND ORDAINED by the Montgomery Township Board of Supervisors that the Township Code is hereby amended as follows:

SECTION 1. Amendment to Chapter 222, Article II, Section 222-15 [Stop Intersections; Penalties].

Article II [Traffic Regulations], Section 222-15 [Stop Intersections; Penalties] is hereby amended to add the following additional locations for Stop Signs:

<u>Name of Street Location</u>	<u>Intersecting Street</u>	<u>Direction of Travel</u>
Harbob Lane	Hawthorne Circle	West
Acorn Place	Hemlock Drive	West
Narcissus Place	Hemlock Drive	West
Hemlock Drive	Sassafras Drive	South
Hedgerow Place	Hemlock Drive	West
Azalea Place	Hawthorne Drive	West
Magnolia Place	Rose Lane	South
Hawthorne Drive	Winter Drive	South
Jason Place	Winter Drive	South
Aspen Place	Winter Drive	South

SECTION 2. Amendment to Chapter 222, Article II, Section 222-16 [Yield Intersections; Penalties].

Chapter 222, Article II [Traffic Regulations], Section 222-16 [Yield Intersections; Penalties] shall be amended to remove the following Yield Signs:

<u>Yield Street</u>	<u>Through Street</u>	<u>Direction of Travel</u>
Harbob Lane	Hawthorne Circle	West
Hemlock Drive	Sassafras Drive	South
Hawthorne Drive	Winter Drive	South

SECTION 3. Repeal and Ratification.

All ordinances or parts of ordinances inconsistent herewith or in conflict with any of the specific terms enacted hereby, to the extent of said inconsistencies or conflicts, are hereby specifically repealed. Any other terms and provisions of the ordinances of the Township that are unaffected by this Ordinance are hereby reaffirmed and ratified.

SECTION 4. Severability.

Should any section, paragraph, sentence, clause, or phrase in this Ordinance be declared unconstitutional or invalid for any reason, the remainder of the Ordinance shall not be affected thereby and shall remain in full force and affect, and for this reason the provisions of this Ordinance shall be severable.

SECTION 5. Effective Date.

This Ordinance shall become effective five (5) days after enactment.

ORDAINED AND ENACTED this _____ day of October 2015, by the Montgomery Township Board of Supervisors.

**MONTGOMERY TOWNSHIP
BOARD OF SUPERVISORS**

MICHAEL J. FOX, *Chairman*

[Seal]

Attested by:

LAWRENCE J. GREGAN
Township Manager/ Secretary

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Approval of Distribution of 2015 Act 205 General Municipal Pension System State

MEETING DATE:

ITEM NUMBER: # 12.

MEETING/AGENDA: WORK SESSION

ACTION XX

NONE

REASON FOR CONSIDERATION: Operational: XX Policy: Discussion: Information:

INITIATED BY: Shannon Q. Drosnock
Finance Director

BOARD LIAISON: Robert J. Birch, Supervisor
Liaison – Finance Committee



BACKGROUND:

The annual General Municipal Pension System State Aid allocation for 201 has been received in the amount of \$427,370.97. This is a decrease of 1% from the 2014 State Aid allocation.

The State requires that the Board of Supervisors adopt a resolution approving the allocation of the State Aid to the pension systems for its employees. Based on the 2015 Minimum Municipal (MMO) Obligations to the Police and Non-Uniformed Pension Plans, and based on the AG 385 State certifications, it is recommended that the 2015 Act 205 General Municipal Pension System State Aid be allocated as follows:

Police Pension Plan	– 57%	- \$ 243,601.45
Non Uniformed Pension Plan	– 43%	- <u>\$ 183,769.52</u>
		\$ 427,370.97

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

The State Aid provides the Township with assistance in meeting its annual pension funding obligation, and was factored into the Township's budget at the 2014 funding rate.

RECOMMENDATION:

Accept the recommended allocation and approve resolution.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby accept the recommendation to allocate the 2015 Act 205 General Municipal Pension System State Aid to the Police Pension Plan in the amount of \$ 243,601.45 and to the Non Uniformed Employee Pension Plan in the amount of \$ 183,769.52.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Waiver of Permit Fee for Special Event – Bharatiya Temple – Festival

MEETING DATE: October 26, 2015 ITEM NUMBER: **#13.**

MEETING/AGENDA: ACTION XX NONE

REASON FOR CONSIDERATION: Operational: Policy: Discussion: xx Information:

INITIATED BY: Bruce Shoupe BOARD LIAISON: Michael J. Fox
Director of Planning and Zoning Chairman

BACKGROUND:

In the past, it has been the policy of the Board of Supervisors to waive permit fees for non-profit and religious organizations. The Township has received a request from Bharatiya Temple to waive all special event permit fees associated with their Festival which was held on October 22, 2015.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

That the special event permit fee for the Bharatiya Temple be waived.

MOTION/RESOLUTION:

Resolution is attached.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

Resolution #

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby approve the request of Bharatiya Temple to waive all special event permit fees associated with their Festival which was held on October 22, 2015.

MOTION BY:

SECOND BY:

VOTE:

DATE:

xc: Applicant, F. Bartle, B. Shoupe, Minute Book, Resolution File, File



BHARATIYA TEMPLE AND CULTURAL CENTER

Ph 215-997-1181

Street Address | 1612 County Line Rd | Chalfont, PA, 18914
Mailing Address | P.O. BOX 463 | Montgomeryville, PA, 18936
www.b-temple.org

Executive Officers

President - Nand Todi
Vice, President - Vipul Rathod
Treasurer - Eswaran Balasubramanian
Secretary - Praful Patel

Board of Directors

Eswaran Balasubramanian	215-568-5122
Mahesh Jituri	215-643-2424
Praful Patel	215-616-0782
Vipul Rathod	215-641-8091
Sri Sagaram	215-699-6367
Nimish Sanghrajka	215-646-1998
Dilip Sheth	610-275-7472
Parasaran Thyagaraja	215-674-9573
Nand Todi	215-699-0406

Committee Chairpersons

Religious Committee
Nand Todi 215-699-0406

General Administration
Vipul Rathod 215-641-8091

PR & Communication
Sheetal Vibhute 508-736-2875

Priest Committee
Mohinder Sandana 610-584-5989

Capital & Construction
Ashok Soni 215-540-0979

Maintenance
Raman Patel 215-628-2384

Resource Committee
Prem Balani 215-631-9503

Fundraising
Nimish Sanghrajka 215-646-1998

Educational Committee
Rita Sheth 610-275-7472

Cultural Committee
Sapna Radhakrishnan 267-614-2072

Senior Citizen Group
Prati Shah 215-699-2317

Youth Group
Vijay Pola 215-768-2544

Women's Group
Meeta Kumar 215-898-7021

Bharatiya Vidyalaya
Praveen Sharma 215-361-0145

Health and Human Services
Akkaraju Sarma 215-914-0236

10/18/2015

To whom it may concern:

The Bharatiya temple and Cultural Center have submitted a special events permit for an upcoming program at the temple.

The Temple and Cultural center are a non-profit organization under tax id's:

Bharatiya Temple, Inc (Tax ID # 23-2959416)
Bharatiya Cultural Center, Inc (Tax ID # 76-0706802)

This letter is to request a waiver to the associated fees for the special events permit.

Please feel free to contact me at (267) 939 -9715 for questions or concerns.

Vipul Rathod
Vice, President
(Bharatiya Temple and Bharatiya Cultural Center)
104 Green Tree Tavern Rd
North Wales, PA, 19454





BHARATIYA TEMPLE AND CULTURAL CENTER

Ph 215-997-1181

Street Address | 1612 County Line Rd | Chalfont, PA, 18914
Mailing Address | P.O. BOX 463 | Montgomeryville, PA, 18936
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Priti Shah 215-699-2317

Youth Group
Vijay Pola 215-768-2544

Women's Group
Meeta Kumar 215-898-7021

Bharatiya Vidyalaya
Praveen Sharma 215-361-0145

Health and Human Services
Akkaraju Sarma 215-914-0236

10/06/2015

To whom it may concern:

Attached please find a special events permit for Bharatiya Temple
1612 County Line Rd, Montgomeryville, PA 18936.

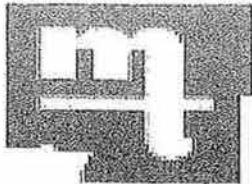
The temple will be celebrating an event where a 10-12 foot (approx)
stick figure (scare crow) will be lit as a ceremonial fire. The ceremony
will take less than 15 mins. Attached please find an approximate location
of where this will take place.

The area (30 x40 ft) will be roped off with caution tape. Fire
Extinguishers will be available at the location and volunteers will be on
hand to supervise the event.

Please forward permit approval to the address below. If you have
any further questions, I may be contacted (267) 939 -9715.

Vipul Rathod
Vice. President

(Bharatiya Temple and Bharatiya Cultural Center)
104 Green Tree Tavern Rd
North Wales, PA, 19454



RECEIVED

OCT 09 2015

MONTGOMERY TOWNSHIP

MONTGOMERY TOWNSHIP
DEPARTMENT OF PLANNING AND ZONING

1001 STUMP ROAD, MONTGOMERYVILLE, PA 18936-9605

Telephone: 215-393-6920 · Fax: 215-855-1498

Permit # P15100060 Blk/Unit # _____ Fee \$ _____ Ck # _____ Date _____**TEMPORARY SIGN****SPECIAL EVENT - OUTDOOR SALES APPLICATION**

A temporary event which may significantly impact public or private property, extend beyond the normal use or standards allowed by the zoning ordinance and exceeds normal vehicular and pedestrian traffic, may require the need for services of the Township's Police and Fire Departments. Such events include, but not limited to: entertainment, amusement, cultural recognition, sporting events, arts & crafts or trade shows, sidewalk sales, special seasonal events, special automobile sales/shows, fund raising events and grand openings. Activities may not inhibit or block safe access by emergency responders or adversely impact access and parking required to serve the facility. Company picnics are exempt; unless a temporary structure is erected, which may require a building permit. At the Regional Shopping Center, indoor special events require a permit but are not limited by the number of events per year. Temporary Indoor retail sales at the Regional Shopping Center requires a separate permit.

Temporary sign permits shall be limited to **one (1) sign per street frontage**, no more than fourteen (14) times per calendar year. A temporary sign permit is limited to maximum of 7-days per permit. Permits are non-transferable. Maximum ground sign permitted is **32 square feet set back 15' from the curb line and shall not obstruct view of traffic**. Permits for special events or outdoor sales shall be limited to no more than six (6) times per calendar year.

Activities, such as hot air ballooning, skydiving events, hang gliding, bungee jumping, etc. as well as carnivals, circuses, festivals, fairs are not permitted unless the Zoning Hearing Board approves as a special exception. Fireworks displays (unless sponsored by the Township) are prohibited.

Application(s) **MUST** be submitted a minimum of **two (2) weeks** in advance of the event. A Temporary retail sales permit must be obtained by all vendors or merchants prior to issuance of permit, unless vendor is already registered with the Township.

SITE ADDRESS 1612 County Line Rd, Chalfont PA 18914		
PROPERTY OWNER Bharaliya Temple		
ADDRESS 1612 County Line Rd, Chalfont PA 18914	PHONE 215-997-1181	FAX
APPLICANT Vipul Rathod		
ADDRESS 104 Green Tree Tavern Rd, North Wales, PA 19454	PHONE 267-939-9715	FAX
Describe Special Event :		
Ravan effigy burning Oct-22nd '2015		
Number of People		~1000

TYPE OF APPLICATION :	Start Date Oct-22nd-2015	End Date Oct-22nd-2015
<input type="checkbox"/> Temporary Sign	<input type="checkbox"/> Special Event-Outdoor/Sidewalk Sales \$ 50.00	<input checked="" type="checkbox"/> Special Event w/ tent \$ 100.00
TEMPORARY SIGN PERMIT		LIMITED MAXIMUM 7-DAYS PER PERMIT
<input type="checkbox"/> Temp Sign to 32 SF - 7 per days - ground only \$ 25.00		<input type="checkbox"/> Temp Sign to 48 SF - 7 per days - building \$ 30.00
<input type="checkbox"/> Temp Sign to 60 SF - 7 per days - building \$ 35.00		<input type="checkbox"/> Temp Sign to 90 SF - 7 per days - building \$ 40.00
<input type="checkbox"/> Temp Sign p to 120 SF -7 per days - building \$ 50.00		<input type="checkbox"/> Each additional 7-days - 50% fee at initial issuance
TOTAL FEE		\$ Non-profit (see attached letter)

TEMP. SIGN - SPECIAL EVENTS

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Authorization of Advertisement of Public Meeting and Public Comment Period for the Township's MS4 TMDL Strategy

MEETING DATE: October 26, 2015

ITEM NUMBER: #14

MEETING/AGENDA:

ACTION

NONE

REASON FOR CONSIDERATION: Operational: xx Policy: Discussion: Information:

INITIATED BY: Lawrence J. Gregan
Township Manager

BOARD LIAISON: Michael J. Fox, Chairman,
Board of Supervisors

BACKGROUND:

Montgomery Township owns and maintains a municipal separate storm sewer system (MS4) requiring a National Pollutant Discharge Elimination System (NPDES) permit to allow discharge of stormwater runoff to waters of the Commonwealth of Pennsylvania. The Wissahickon Creek and Neshaminy Creek watersheds have approved Total Maximum Daily Load (TMDL) plans. These plans establish sediment waste load allocations (WLA) for the Township limiting the amount of sediment that is permitted to be discharged to these watersheds. At this time, the Wissahickon and Neshaminy TMDL plans have siltation (sediment) WLAs attributed to the Township.

The attached MS4 TMDL Strategy has been prepared by the Township Engineer to satisfy the conditions of the NPDES MS4 permit. The intent of this Strategy is to establish the WLA of the Township and to present a plan to reduce waste loads discharged consistent with the WLAs in the approved TMDLs for each watershed.

Upon approval of this Strategy by the Pennsylvania Department of Environmental Protection (PADEP), the Township will provide MS4 TMDL Design Details for implementation of the Strategy. Together, these documents, the MS4 TMDL Strategy and the MS4 TMDL Design Details, comprise the MS4 TMDL Plan to satisfy the requirement of the Township's NPDES MS4 Permit.

In submitting this strategy, the Township has been instructed to take measures to solicit public involvement and participation for the revised TMDL Strategy and to provide DEP with documentation of that process. Specifically, the Township is required to:

- Publish, a public notice in a newspaper of general circulation in the area, containing a statement describing the Strategy, where it may be reviewed by the public, and the length of time (minimum 30 days) to be provided for the receipt of comments."
- Accept written comments for a minimum of 30 days from the date of public notice."
- Accept any verbal or written comments from any interested member of the public at a public meeting or hearing.
- To consider and make a record of each comment received and prepare a written response. This record is to be submitted to DEP with the revised strategy.

To initiate this process, the Board is requested to authorize advertisement of a Public Comment Period and Public Meeting for the Township's MS4 TMDL Strategy. We are proposing that the public meeting be held during the Board of Supervisors meeting on November 9th and that the public comment period run for a 30 day period beginning on October 26, 2015 and ending November 25, 2015.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

Authorize advertisement of a Public Meeting and Public Comment Period on the Township's MS4 TMDL Strategy with the Public Meeting to be held on November 9, 2015 starting at 8:00 pm and the public comment period to run for a 30 day period beginning on October 26, 2015 and ending November 25, 2015.

MOTION/RESOLUTION:

BE IT RESOLVED by the Board of Supervisors of Montgomery Township that we hereby authorize advertisement of a Public Meeting and Public Comment Period on the Township's MS4 TMDL Strategy with the Public Meeting to be held on November 9, 2015 starting at 8:00 pm and the public comment period to run for a 30 day period beginning on October 26, 2015 and ending November 25, 2015.

MOTION: _____ SECOND: _____

ROLL CALL:

Robert J. Birch	Aye	Opposed	Abstain	Absent
Candyce Fluehr Chimera	Aye	Opposed	Abstain	Absent
Jeffrey W. McDonnell	Aye	Opposed	Abstain	Absent
Joseph P. Walsh	Aye	Opposed	Abstain	Absent
Michael J. Fox	Aye	Opposed	Abstain	Absent

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

LEGAL NOTICE

NOTICE OF PUBLIC COMMENT PERIOD AND PUBLIC MEETING for the Montgomery Township MS4 TMDL Strategy. The MS4 TMDL Strategy outlines the plan the Township will use to reduce pollutants discharged from the Township storm sewer system (MS4) consistent with the waste load allocations presented in the Neshaminy Creek and Wissahickon Creek TMDL plans. The Township is soliciting written comments on the MS4 TMDL Strategy. Interested persons may submit written comments during the thirty (30) day period beginning October 26, 2015 and ending November 25, 2015. The document will be available for review at the Township office address below weekdays between the hours of 9AM and 4PM during the comment period. The document is also available for review on the Township website (www.montgomerytp.org). Written and verbal comments will be accepted at the public meeting scheduled at 8PM on November 9, 2015 (same night as regular BOS meeting) at the Township office address below. Comments must be submitted in writing to the attention of the Township Manager at the Township office address below or by email (lgregan@montgomerytp.org). Comments submitted by facsimile will not be accepted. Comments, including comments submitted by email, must include the originator's name and address.

All regular meetings and work sessions of the Board will be in the Township Administration Building and are open to the public, pursuant to Section 704 of the Sunshine Act (65 Pa. C.S. §701, *et seq.*) At any regular meetings and work sessions of the Board, deliberation and official action may be taken on any item properly before the Board. All interested citizens of Montgomery Township may attend this meeting and will be given the opportunity to be heard at the appropriate time. Persons with disabilities, wishing to attend the Public Hearing and requiring auxiliary aid, service or other accommodations to participate, should contact the Montgomery Township Director of Administration and Human Resources at 215-393-6900.

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
1001 Stump Road, Montgomeryville, PA 18936
Lawrence J. Gregan, Township Manager

DRAFT
MS4 TMDL Strategy
For
Montgomery Township
Montgomery County, Pennsylvania

September 2012
Revised October 2015

Prepared For:

Montgomery Township
1001 Stump Road
Montgomeryville, PA 18936
(215) 393-6900

Prepared By:

Gilmore & Associates, Inc.
Engineers ♦ Land Surveyors ♦ Planners ♦ GIS Consultants
65 East Butler Avenue, Suite 100
New Britain, PA 18901
215-345-4330

**PUBLIC INSPECTION
COPY**

MS4 TMDL Strategy
For
Montgomery Township
Montgomery County, Pennsylvania

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1.0. Introduction

Montgomery Township, located within Montgomery County, is comprised of 10.7 square miles of land situated within the Neshaminy Creek and Wissahickon Creek watersheds. The Township owns and maintains a small municipal separate storm sewer system (MS4) requiring a National Pollutant Discharge Elimination System (NPDES) permit to allow discharge of stormwater runoff to waters of the Commonwealth of Pennsylvania. The Wissahickon Creek and Neshaminy Creek have approved Total Maximum Daily Load (TMDL) plans. These plans establish sediment waste load allocations (WLA) for Montgomery Township limiting the amount of pollution that is permitted to be discharged to waters of the Commonwealth of Pennsylvania. At the time of this Strategy, the Wissahickon and Neshaminy TMDL plans have siltation (sediment) WLAs attributed to the Township. Nutrient WLAs have not been established for Montgomery Township in either watershed. This MS4 TMDL Strategy is prepared to satisfy the permit condition requiring this document.

The intent of this MS4 TMDL Strategy is to establish the WLA of the Township and to present a plan to reduce waste loads discharged from the regulated small MS4 consistent with the WLAs in the approved TMDLs for each watershed. Upon approval of this Strategy by the Pennsylvania Department of Environmental Protection (PADEP), the Township will provide MS4 TMDL Design Details for implementation of the Strategy. Together, these documents, the MS4 TMDL Strategy and the MS4 TMDL Design Details, comprise the MS4 TMDL Plan satisfying the requirement of the Township's NPDES MS4 Permit. Implementation of the TMDL Plan is an adaptive, iterative and dynamic process. The TMDL Plan will be evaluated and updated by the Township on an as-needed basis based on its effectiveness in reducing pollutant loads in discharges from the regulated small MS4, upon the reasonableness of achieving the WLAs and the cost/benefit of the BMP under consideration.

2.0. Watersheds

Montgomery Township is located within the Neshaminy Creek and Wissahickon Creek watersheds. The current, approved TMDL plans associated with these watersheds are listed below.

- PADEP, 2003. Total Maximum Daily Load (TMDL) Assessment for the Neshaminy Creek Watershed in Southeast Pennsylvania. Pennsylvania Department of Environmental Protection
- US EPA, 2003. Nutrient and Siltation TMDL Development for Wissahickon Creek, Pennsylvania - Final Report. U.S. Environmental Protection Agency Region 3

The Neshaminy Creek TMDL plan was developed based on different geographic sections (sub-watersheds) and by source and cause of impairment. Montgomery Township is within the Little Neshaminy Sub-Basin and the West Branch Neshaminy Creek Sub-Basin #2 of the Neshaminy watershed. At the time of this Strategy, the Wissahickon and Neshaminy TMDL plans have siltation (sediment) WLAs attributed to the Township. Nutrient WLAs have not been established for Montgomery Township in either watershed. The following table lists the applicable watersheds and the current pollutants attributed to the Township per the current TMDL plans.

TABLE 2-1: TMDL PLAN SUMMARY

Watershed	Hydrologic Unit Code (HUC)	TMDL Plan Approval Year	TMDL Plan Analysis Year	Pollutant(s)
Neshaminy - Little Neshaminy Sub-Basin	02040203	2003	2000	siltation
Neshaminy - West Branch Neshaminy Creek Sub-Basin #2	02040203	2003	2000	siltation
Wissahickon	02040203	2003	2002	siltation

3.0. Existing Pollutant Loads

Pollutants are transported by stormwater runoff and discharged to Waters of the Commonwealth of Pennsylvania through the Township storm sewer system. The TMDL plans for each watershed presents the waste load at the time the report was prepared. The TMDL plans are prepared based upon stream monitoring, historic rainfall data as well as hydrologic, hydraulic and pollutant modeling. The methodology and computational tools used to prepare each TMDL plan may vary but the result of each is the existing pollutant load at the time of the plan, the waste load allocation for the watershed and reduction percentage. In the case of the Neshaminy and Wissahickon TMDL plans, the WLA for sediment is presented as pounds per year (lbs/yr). The Wissahickon TMDL plan presents the WLA attributed to each municipality within the watershed. The Neshaminy TMDL plan presents the WLA for each sub-basin. The tables below documents the WLA and reduction percentage attributed to area of Montgomery Township per the current approved TMDL plans for each watershed. The WLAs within the Neshaminy watershed are prorated based on the area of the Township with the sub-water shed areas.

TABLE 3-1: NESHAMINY CREEK WATERSHED SEDIMENT LOADING

NESHAMINY CREEK SEDIMENT LOADING SUMMARY									
Watershed	Total Watershed Area	Township Watershed Area	% Watershed of Township	Total Existing Sediment Load in Watershed	Watershed Sediment WLA	Total Existing Sediment Load in Township	Township Sediment WLA	Sediment Load Reduction	Township Sediment Reduction
	(ac)	(ac)	(%)	(lbs/year)	(lbs/year)	(lbs/year)	(lbs/year)	(%)	(lbs/year)
Little Neshaminy	27,262	3,963	14.54%	8,369,480	6,937,351	1,216,648	1,008,463	17.11%	208,185
West Branch, Sub-Basin 2	2,521	1,876	74.41%	672,510	295,629	500,448	219,992	56.04%	280,456

TABLE 3-2: WISSAHICKON CREEK WATERSHED SEDIMENT LOADING

WISSAHICKON CREEK SEDIMENT LOADING SUMMARY				
Source	Existing Sediment Load	Sediment WLA	Sediment Reduction	Sediment Reduction
	(lbs/year)	(lbs/year)	(%)	(lbs/year)
Streambank Erosion	25,444	13,231	48.00%	12,213
Overland	135,550	97,898	27.78%	37,653
TOTAL	160,994	111,128	30.97%	49,866

TABLE 3-3: TOWNSHIP POLLUTANT REDUCTION REQUIREMENT

Watershed	SUMMARY			
	TMDL Plan Township Sediment Load (lbs/yr)	Township Sediment WLA (lbs/yr)	Township Pollutant Reduction (lbs/yr)	Township Pollutant Reduction (%)
Little Neshaminy	1,216,648	1,008,463	208,185	17%
West Branch Neshaminy, Sub-Basin #2	500,448	219,992	280,456	56%
Wissahickon	160,994	111,128	49,866	31%
TOTAL	1,878,089	1,339,584	538,506	29%

3.1. MS4 Tributary Area

The existing pollutant loads presented above are attributed the entire Township area. The Township's permit obligation applies only to runoff collected by and discharged from the MS4. The following table summarizes areas that are not tributary to the Township's MS4. The sediment loads generated from these non-tributary areas are parsed from the Township loads to determine that which is attributed to only the MS4. The Township reserves the right to modify parsed areas in the future. Any modification to parsed areas will be documented in future updates of the MS4 TMDL Plan.

TABLE 3-4: SUMMARY OF PARSED AREAS

Area Description	Unit	Little Neshaminy	West Branch #2	Wissahickon	TOTAL
PADOT Roads	acres	95	48	14	157
Not Tributary to MS4	acres	1,424	597	429	2,450
Total	acres	1,519	644	444	2,608

3.1.1. Transitional Areas

The Neshaminy Creek TMDL Plan includes significant pollutant loads due to "transitional" land uses (Tables C.2.4 & C.6.3 of the Neshaminy TMDL Plan). These transitional uses are considered to be new developments or construction sites and contribute a significant portion of the overland sediment load. Comparison of historical and current aerial photography indicates the majority of new developments and construction sites at the time the Neshaminy TMDL Plan was prepared have been stabilized for several years. Also, the size, rate and frequency of development within the Township have decreased sharply in the decade following the preparation of the Neshaminy TMDL Plan. For the purpose of determining the sediment load attributed to the Township, the sediment load from these transitional uses presented in the TMDL Plan will be adjusted to account for the transition of these areas from disturbed to stabilized land cover classifications. It is assumed that 75 percent of transitional land uses have been stabilized and converted to low intensity development. Low intensity development was selected as a conservative assumption due to a higher loading rate per the Neshaminy TMDL Plan (Tables C.2.4 & C.6.3 of the Neshaminy TMDL Plan).

TABLE 3-5: TRANSITIONAL USE ADJUSTMENT SUMMARY

TRANSITIONAL USE ADJUSTMENT SUMMARY	
Watershed	Sediment Load (lbs/yr)
Little Neshaminy	87,110
West Branch Neshaminy, Sub-Basin #2	229,666
TOTAL	316,776

3.1.2. MS4 Pollutant Loads

The following table summarizes the sediment loads, WLAs and required sediment reductions for the overall Township and that which is attributed to the MS4 after accounting for parsed areas and transitional land uses.

TABLE 3-6: MONTGOMERY TOWNSHIP MS4 POLLUTANT LOAD SUMMARY

Row	Watershed	Unit	Little Neshaminy	West Branch #2	Wissahickon	TOTAL	Source
A	Watershed Area	acres	27,262	2,521	N/A		TMDL Plan
B	TMDL Plan Watershed Sediment Load	lb/year	8,369,480	672,510	N/A		TMDL Plan
C	TMDL Plan Watershed WLA	lb/year	6,937,351	295,629	N/A		TMDL Plan
D	TMDL Plan Watershed Pollutant Reduction	lb/year	1,432,129	376,881	N/A		TMDL Plan
E	TMDL Plan Watershed Pollutant Reduction	%	17.1%	56.0%	N/A		TMDL Plan
F	Township Area Within Watershed	acres	3,963	1,876	944	6,783	Mapping
G	Township Area Within Watershed	%	14.5%	74.4%	N/A		F/A
H	Township Sediment Load	lb/year	1,216,648	500,448	160,994	1,878,089	B*G
I	Township WLA	lb/year	1,008,463	219,992	111,128	1,339,584	C*G
J	Township Pollutant Reduction	lb/year	208,185	280,456	49,866	538,506	D*G
K	Township Pollutant Reduction	%	17.1%	56.0%	31.0%		J/H
L	Transitional Area Adjustment	lb/year	-87,110	-229,666	0	-316,776	Section 3.1.1
M	Adjusted Township Sediment Load	lb/year	1,129,538	270,782	160,994	1,561,313	H+L
N	Parsed Area - Total	acres	1,519	644	444	2,608	Table 3-4
O	Parsed Area - Total	%	38.3%	34.3%	47.0%		N/F
P	Parsed Area Sediment Load - Total	lb/year	-433,032	-93,013	-75,688	-601,733	M*O
Q	MS4 Sediment Load	lb/year	696,505	177,769	85,306	959,581	H+L+P
R	MS4 Required Pollutant Reduction	%	17.1%	56.0%	31.0%		K
S	MS4 Required Pollutant Reduction	lb/year	119,181	99,623	26,422	245,227	Q*R

4.0. Pollutant Reduction Strategy

As presented in Table 3-6 above, Montgomery Township has a significant requirement to reduce sediment discharging from the MS4. The Township plans to achieve the sediment reduction using three basic approaches listed below and described in subsequent sections.

- Quantify existing best management practices (BMPs)
- Amend the Township Stormwater Management Ordinance to require pollutant reductions
- Implement new BMPs

The Township intends to implement this Strategy over 25 years. The Township intends that at or before the conclusion of 25 years the sediment reduction presented in Table 3-6 will be achieved and the assumptions made in the approved watershed TMDL Plans regarding attaining water quality will be satisfied.

The Township anticipates that setting realistic goals that can be quantified by “measurable” success, the reduction percentages outlined in each approved watershed TMDL Plan can be met and water quality in all waterways within the municipality will be positively impacted by implementation of this MS4 TMDL Strategy. Implementation of the MS4 TMDL Plan is an adaptive, iterative and dynamic process. The MS4 TMDL Plan will be evaluated and updated by the Township on an as-needed basis based on its effectiveness in reducing pollutant loads in discharges from the regulated small MS4, upon the reasonableness of achieving the WLAs and the cost/benefit of the BMP under consideration. Therefore, it is intended that this Strategy, in its entirety, including the implementation term, may be modified by the Township periodically to reflect actual results, achievable goals and obstacles encountered during the process of implementation of this Strategy.

4.1. Pollutant Load Concentration Calculation Method

In subsequent sections of this Strategy, pollutant load concentrations are required to quantify the amount of sediment generated from area tributary to proposed BMPs. The Water Quality Analysis of Pollutant Loading method (Worksheet 12, Pennsylvania Stormwater BMP Manual, 2006, PADEP) is utilized to approximate sediment generated on an annual basis. The method requires three input parameters:

- Pollutant event mean concentration (EMC) in mg/L (Table 8.3 of the PA BMP Manual)
- Tributary area in acres (measured from a map)
- Annual runoff depth in feet

For the purposes of the Strategy, runoff depth is calculated using 4 years (2012 – 2014) of daily rain gauge data from the Ambler Borough Waste Water Treatment Plant and the Runoff Curve Number method accounting for the initial abstraction and land cover classification.

TABLE 4-1: AVERAGE ANNUAL RUNOFF BASED ON LAND COVER CLASSIFICATION

LAND COVER CLASSIFICATION	CN	AVERAGE ANNUAL RUNOFF (in/year)
Forest	62	4.63
Meadow	60	4.10
Fertilized Planting Area	65	5.53
Native Planting Area	58	3.62
Lawn, Low Input	68	6.59
Lawn, High Input	65	5.53
Golf Course Fairway/Green	68	6.59
Grassed Athletic Field	70	7.39
Rooftop	98	43.51
High Traffic Street/Highway	97	39.80
Medium Traffic Street	90	23.96
Low Traffic/Residential Street	89	22.47
Res. Driveway, Play Courts, etc.	98	43.51
High Traffic Parking Lot	98	43.51
Low Traffic Parking Lot	98	43.51

4.2. Existing BMPs

Both the Wissahickon and the Neshaminy Creeks TMDL Plans were based on analyses completed in the years 2002 and 2000, respectively. Beginning in 2009, the Township has implemented a basin naturalization program. The Township owns 63 basins. These basins were originally constructed as peak rate control basins. The Township program includes naturalizing these basins to provide a water quality benefit. All areas tributary to these basins are low intensity residential developments. The following parameters are used to determine the sediment load from these areas and the reduction provided by the improved basins.

- Tributary area – determined by inspection of the storm sewer map.
- Area cover conditions – 25% impervious area and 75% lawn area was assumed.
- Runoff depth – values for impervious and lawn areas from Table 4-1.
- EMC TSS – 35 mg/L was used for impervious areas to account for rooftops and roads, 108 mg/L was used for lawns, low input.

A detailed tabulation of the calculations can be found in Appendix D-2. A summary follows.

TABLE 4-2: EXISTING NATURALIZED BASINS

EXISTING NATURALIZED BASIN SUMMARY		
Watershed	Sediment Load (lbs/yr)	Sediment Reduction (lbs/yr)
Little Neshaminy	242,890	60,723
West Branch Neshaminy, Sub-Basin #2	95,701	23,925
Wissahickon	6,431	1,608
TOTAL	345,023	86,256

4.3. Ordinance Requirements

The current Township Ordinances require peak rate and volume reductions as well as water quality requirements. These requirements are typically met by the implementation of BMPs. However, the pollutant reduction associated with these BMPs is generally not quantified. The Township intends to include pollutant reduction requirements consistent with the WLAs in the approved TMDLs for each watershed. The purpose of this ordinance requirement is to ensure developments and other projects achieve the pollutant reductions required by the TMDL Plans and that those benefits are quantified under the TMDL Plan requirements. It is not possible to quantify the pollutant reductions achievable from these new ordinance requirements for inclusion in this Strategy. Any BMPs installed throughout the Township will be included in future reporting regarding implementation the MS4 TMDL Plan.

4.4. Potential New BMPs

The Township anticipates that sediment reduction from existing BMPs and from future projects subject to new ordinance requirements will not achieve the substantial pollutant reduction required by the TMDL Plans. The Township includes with this Strategy several potential BMPs that may be implementable in striving to meet the WLA requirements. These potential BMPs may be on private property and therefore, no guarantee is provided that these BMPs can or will be implemented. Implementation of any BMP expected to contribute to achieving the goal of this Strategy will require, planning, design, permitting approval, property owner consent, etc. Therefore, the potential BMPs presented in this MS4 TMDL Plan are to be considered conceptual in scope and in no way imply any obligation of the Township to implement these specific BMPs in the locations identified. As stated previously, implementation of the TMDL Plan is an adaptive, iterative and dynamic process. The TMDL Plan will be evaluated and updated by the Township on an as-needed basis based on its effectiveness in reducing pollutant loads in discharges from the regulated small MS4, upon the reasonableness of achieving the WLAs and the cost/benefit of the BMP under consideration.

The WLAs and pollutant reduction requirements vary by watershed. The potential BMPs are grouped geographically by watershed. Additional information regarding these potential BMPs is provided in Appendices E-1 and E-2.

4.4.1. Little Neshaminy Sub-Watershed

The Little Neshaminy Sub-Watershed requires a 17 percent reduction in sediment.

TABLE 4-3: LITTLE NESHAMINY - ESTIMATED SEDIMENT REDUCTION FROM POTENTIAL BMPS

LITTLE NESHAMINY POTENTIAL BMP SUMMARY			
BMP	Appendix	Sediment Load (lbs/yr)	Sediment Reduction (lbs/yr)
Naturalize Existing Township Basins	E-1	41,341	10,335
Riparian Buffer Restoration	E-2	4,833	4,108
Streetsweeping	C	102,812	87,390
TOTAL		148,986	101,833

4.4.2. West Branch Neshaminy, Sub-Basin #2

The West Branch Neshaminy, Sub-Basin #2 watershed requires a 56 percent reduction in sediment.

TABLE 4-4: WEST BRANCH NESHAMINY - ESTIMATED SEDIMENT REDUCTION FROM POTENTIAL BMPs

WEST BRANCH NESHAMINY, SUB-BASIN #2 POTENTIAL BMP SUMMARY			
BMP	Appendix	Sediment Load (lbs/yr)	Sediment Reduction (lbs/yr)
Naturalize Existing Township Basins	E-1	42,012	10,503
Naturalize Existing Private Basins	E-2	6,060	1,515
Neshaminy Creek Trib.: Riparian Buffer Restoration	E-2	568	483
Neshaminy Creek Trib.: Riparian Buffer Restoration	E-2	936	796
Runoff Capture and Reuse	E-2	5,821	5,821
Stream Bank Restoration	E-2	25,100	21,335
Fellowship Park Rain Garden	E-2	550	467
Streetsweeping	C	42,838	36,412
TOTAL		123,885	77,332

4.4.3. Wissahickon Creek

The Wissahickon watershed requires a 31 percent reduction in sediment.

TABLE 4-5: WISSAHICKON - ESTIMATED SEDIMENT REDUCTION FROM POTENTIAL BMPs

WISSAHICKON POTENTIAL BMP SUMMARY			
BMP	Appendix	Sediment Load (lbs/yr)	Sediment Reduction (lbs/yr)
Trewellyn Creek: Riparian Buffer Restoration	E-2	2,265	1,517
Wissahickon Creek: Floodplain Restoration	E-2	5,105	4,339
Basin Naturalization	E-2	4,984	4,236
Streetsweeping	C	25,703	21,848
TOTAL		38,057	31,940

4.5. Pollutant Reduction Strategy Summary

The following table summarizes the sediment load, WLA and required sediment reduction for the overall Township and that which is attributed to the MS4 after accounting for parsed and transitional areas. It also includes a summary of the existing and potential BMPs contemplated to achieve the required sediment load reduction.

TABLE 4-6: MS4 TMDL STRATEGY SUMMARY

Row	Watershed	Unit	Little	West Branch	Wissahickon	TOTAL	Source
A	Watershed Area	acres	27,262	2,521	N/A		TMDL Plan
B	TMDL Plan Watershed Sediment Load	lb/year	8,369,480	672,510	N/A		TMDL Plan
C	TMDL Plan Watershed WLA	lb/year	6,937,351	295,629	N/A		TMDL Plan
D	TMDL Plan Watershed Pollutant Reduction	lb/year	1,432,129	376,881	N/A		TMDL Plan
E	TMDL Plan Watershed Pollutant Reduction	%	17.1%	56.0%	N/A		TMDL Plan
F	Township Area Within Watershed	acres	3,963	1,876	944	6,783	Mapping
G	Township Area Within Watershed	%	14.5%	74.4%	N/A		F/A
H	Township Sediment Load	lb/year	1,216,648	500,448	160,994	1,878,089	B*G
I	Township WLA	lb/year	1,008,463	219,992	111,128	1,339,584	C*G
J	Township Pollutant Reduction	lb/year	208,185	280,456	49,866	538,506	D*G
K	Township Pollutant Reduction	%	17.1%	56.0%	31.0%		J/H
L	Transitional Area Adjustment	lb/year	-87,110	-229,666	0	-316,776	Table 3-5
M	Adjusted Township Sediment Load	lb/year	1,129,538	270,782	160,994	1,561,313	H+L
N	Parsed Area - Total	acres	1,519	644	444	2,608	Table 3-4
O	Parsed Area - Total	%	38.3%	34.3%	47.0%		N/F
P	Parsed Area Sediment Load - Total	lb/year	-433,032	-93,013	-75,688	-601,733	M*O
Q	MS4 Sediment Load	lb/year	696,505	177,769	85,306	959,581	H+L+P
R	MS4 Required Pollutant Reduction	%	17.1%	56.0%	31.0%		K
S	MS4 Required Pollutant Reduction	lb/year	119,181	99,623	26,422	245,227	Q*R
T	Existing BMPs	lb/year	60,723	23,925	1,608	86,256	Table 4-2
U	Future Potential BMPs	lb/year	101,833	77,332	31,940	211,105	Section 4.4
V	Pollutant Reduction Potential	lb/year	162,556	101,258	33,547	297,361	T+V
W	Net Potential - Required	lb/year	43,375	1,634	7,125	52,134	V-S

The table above indicates that implementation of this Strategy will potentially exceed the required pollutant reduction in each watershed and 52,134 Lbs/year overall.

5.0. Public Participation

As part of the preparation of this MS4 TMDL Strategy, PADEP requires solicitation of public involvement and participation. The following are required:

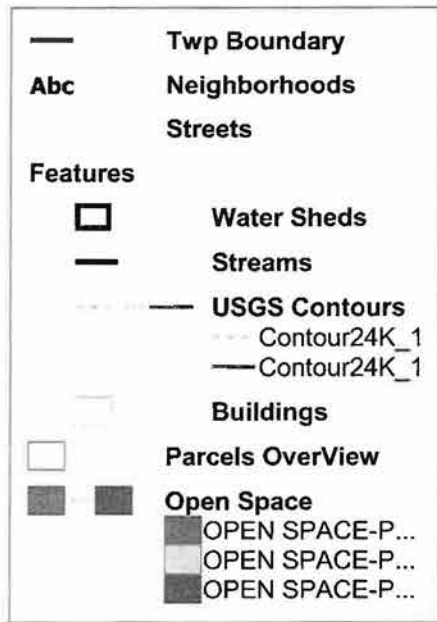
- A copy of the MS4 TMDL Strategy must be available for public review.

- Publish, in a newspaper of general circulation in the area, a public notice containing a statement describing the Strategy, where it may be reviewed by the public, and the length of time provided for the receipt of comments.
- Accept written comments for a minimum of 30 days from the date of public notice.
- Accept any verbal or written comments from any interested member of the public at a public meeting or hearing.
- Consider and make a record of the consideration of each timely comment received from the public during the public comment period concerning the Strategy, identifying any changes made to the Strategy in response to the comment.

Submission of the MS4 TMDL Strategy to PADEP must include a copy of the newspaper notice, a copy of all written comments received from the public and a copy of the record of consideration of all timely comments received in the public comment period. Documentation of public participation will be included as Appendix F.

APPENDIX A
TOWNSHIP WATERSHED MAP

Montgomery Township Watershed Map



APPENDIX B

TRANSITIONAL LAND USE ADJUSTMENT

CLIENT:
MONTGOMERY TOWNSHIP
PROJECT NAME:
NPDES MS4 PERMIT RENEWAL
PROJECT NUMBER:
11-12055



Gilmore & Associates, Inc.

WATERSHED TMDL - SEDIMENT LOADING VALUES for 2000 LAND USE CONDITIONS						
LAND USE CATEGORY	LITTLE NESHAMINY		WEST BRANCH #2		TOTAL	
	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)
Hay Pasture	2,570	43,465	89	3,091	2,659	46,556
Cropland	6,926	1,053,201	114	24,840	7,040	1,078,041
Coniferous Forest	296	243	54	154	350	397
Mixed Forest	1,908	2,252	163	487	2,071	2,739
Deciduous Forest	6,655	10,110	516	2,053	7,171	12,163
Unpaved Roads	7	3,289	0	0	7	3,289
Transitional	1,187	826,324	187	425,717	1,374	1,252,041
Low Intensity Dev	5,909	136,071	1,091	82,914	7,000	218,985
High Intensity Dev	1,804	30,949	306	15,475	2,110	46,424
Stream Bank	0	6,263,576	0	117,779	0	6,381,355
Groundwater	0	0	0	0	0	0
Point Source	0	0	0	0	0	0
Septic Systems	0	0	0	0	0	0
TOTAL	27,262	8,369,480	2,520	672,510	29,782	9,041,990

TOWNSHIP - SEDIMENT LOADING ATTRIBUTED TO THE TOWNSHIP						
LAND USE CATEGORY	LITTLE NESHAMINY (14.54%)		WEST BRANCH #2 (74.41%)		TOTAL	
	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)
Hay Pasture	374	6,318	66	2,300	440	8,619
Cropland	1,007	153,101	85	18,485	1,092	171,586
Coniferous Forest	43	35	40	115	83	150
Mixed Forest	277	327	121	362	399	690
Deciduous Forest	967	1,470	384	1,528	1,351	2,997
Unpaved Roads	1	478	0	0	1	478
Transitional	173	120,120	139	316,797	312	436,917
Low Intensity Dev	859	19,780	812	61,700	1,671	81,481
High Intensity Dev	262	4,499	228	11,516	490	16,015
Stream Bank	0	910,518	0	87,645	0	998,164
Groundwater	0	0	0	0	0	0
Point Source	0	0	0	0	0	0
Septic Systems	0	0	0	0	0	0
TOTAL	3,963	1,216,648	1,875	500,448	5,838	1,717,095

TOWNSHIP - SEDIMENT LOADING ATTRIBUTED TO THE TOWNSHIP, ADJUSTED FOR REDUCED TRANSITIONAL LAND USES						
LAND USE CATEGORY	LITTLE NESHAMINY		WEST BRANCH #2		TOTAL	
	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)	AREA (ac)	SEDIMENT LOAD (lbs/year)
Hay Pasture	374	6,318	66	2,300	440	8,619
Cropland	1,007	153,101	85	18,485	1,092	171,586
Coniferous Forest	43	35	40	115	83	150
Mixed Forest	277	327	121	362	399	690
Deciduous Forest	967	1,470	384	1,528	1,351	2,997
Unpaved Roads	1	478	0	0	1	478
Transitional (25%)	43	30,030	35	79,199	78	109,229
Low Intensity Dev	988	22,760	916	69,632	1,905	92,392
High Intensity Dev	262	4,499	228	11,516	490	16,015
Stream Bank	0	910,518	0	87,645	0	998,164
Groundwater	0	0	0	0	0	0
Point Source	0	0	0	0	0	0
Septic Systems	0	0	0	0	0	0
TOTAL	3,963	1,129,537	1,875	270,782	5,838	1,400,319

	LITTLE NESHAMINY	WEST BRANCH #2	TOTAL
NET Sediment Load Adjustment	87,110	229,666	316,776

APPENDIX C

TOWNSHIP ROADWAY SEDIMENT LOADING CALCULATION

CLIENT:
 MONTGOMERY TOWNSHIP
PROJECT NAME:
 NPDES MS4 PERMIT RENEWAL
PROJECT NUMBER:
 11-12055



Street Name	Classification	Sidewalks	Curb	Length (mi)	Length (ft)	ROW	Paved	Impervious Area (ft ²)	TSS EMC (mg/L)	Q (ft/year)	Grass Area (lbs/year)	TSS EMC (mg/L)	Q (ft/year)	Sediment Load (lbs/year)
Aaron Way	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Abbey Lane	Low Traffic	Yes	Yes	0.77	4066	50	29	154,968	86	1.88	48,312	180	0.55	1845
Acorn Place	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Addison Lane	Low Traffic	Yes	Yes	0.54	2851	50	28	105,494	86	1.88	37,066	180	0.55	1282
Aileen Dr.	Low Traffic	Yes	Yes	0.34	1795	50	28	66,422	86	1.88	23,338	180	0.55	807
Amber Place	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
Andrew Lane	Low Traffic	Yes	Yes	0.81	4277	50	28	158,242	86	1.88	55,598	180	0.55	1923
Annabel Road	Low Traffic	Yes	Yes	0.38	2006	50	28	74,237	86	1.88	26,083	180	0.55	902
Applewood Lane	Low Traffic	Yes	Yes	0.33	1742	50	30	67,954	86	1.88	19,166	180	0.55	797
Arbor Lane	Low Traffic	Yes	Yes	0.07	370	50	32	15,154	86	1.88	3,326	180	0.55	172
Arbour Green Circle	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Armada Circle	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121
Arrowhead Circle	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Ashley Circle	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Aspen Place	Low Traffic	Yes	Yes	0.10	528	50	26	18,480	86	1.88	7,920	180	0.55	233
August Lane	Low Traffic	Yes	Yes	0.23	1214	50	26	42,504	86	1.88	18,216	180	0.55	537
Avondale Drive	Low Traffic	Yes	Yes	0.54	2851	50	26	99,792	86	1.88	42,768	180	0.55	1260
Azalea Place	Low Traffic	Yes	Yes	0.08	422	50	26	14,784	86	1.88	6,336	180	0.55	187
Bailey Drive	Low Traffic	Yes	Yes	0.19	1003	50	26	35,112	86	1.88	15,048	180	0.55	443
Baker Place	Low Traffic	Yes	Yes	0.10	528	50	26	18,480	86	1.88	7,920	180	0.55	233
Banbury Avenue	Low Traffic	Yes	Yes	0.35	1848	50	30	72,072	86	1.88	20,328	180	0.55	845
Bartlett Drive	Low Traffic	Yes	Yes	0.09	475	50	32	19,483	86	1.88	4,277	180	0.55	221
Beaumont Terrace	Low Traffic	Yes	Yes	0.10	528	50	26	18,480	86	1.88	7,920	180	0.55	233
Bedford Lane	Low Traffic	Yes	Yes	0.36	1901	50	30	74,131	86	1.88	20,909	180	0.55	869
Beechwood Drive	Low Traffic	Yes	Yes	0.45	2376	40	16	59,400	86	1.88	35,640	180	0.55	812
Bell Run Boulevard	Low Traffic	Yes	Yes	0.53	2798	50	34	120,331	86	1.88	19,589	180	0.55	1323
Bellows Way	Low Traffic	Yes	Yes	0.56	2957	50	30	115,315	86	1.88	32,525	180	0.55	1352
Blue Jay Way	Low Traffic	Yes	Yes	0.17	898	50	24	29,621	86	1.88	15,259	180	0.55	390
Bonnie Lane	Low Traffic	Yes	Yes	0.39	2059	50	26	72,072	86	1.88	30,888	180	0.55	910
Bradford Court	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Bridlepath Ln	Low Traffic	Yes	Yes	0.14	739	50	26	25,872	86	1.88	11,088	180	0.55	327
Bridlepath Road	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Brighton Circle	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Brighton Place	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Brittany Place	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
Broad Acres Road	Low Traffic	Yes	Yes	0.46	2429	50	27	86,909	86	1.88	34,531	180	0.55	1081
Brook Circle	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
Brookshyre Way	Low Traffic	Yes	Yes	0.17	898	50	32	36,802	86	1.88	8,078	180	0.55	417
Brookwood Road	Low Traffic	Yes	Yes	0.11	581	50	26	20,328	86	1.88	8,712	180	0.55	257
Browning Circle	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121

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Bryan Way	Low Traffic	Yes	Yes	0.20	1056	50	30	41,184	86	1.88	11,616	180	0.55	483
Buckingham Lane	Low Traffic	Yes	Yes	0.30	1584	50	28	58,608	86	1.88	20,592	180	0.55	712
Cambridge Court	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Camp Drive	Low Traffic	Yes	Yes	0.07	370	50	36	16,632	86	1.88	1,848	180	0.55	178
Canterbury Lane	Low Traffic	Yes	Yes	0.62	3274	50	30	127,670	86	1.88	36,010	180	0.55	1497
Carnaby Circle	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Carson Drive	Low Traffic	Yes	Yes	0.22	1162	50	26	40,656	86	1.88	17,424	180	0.55	513
Cathedral Dr.	Low Traffic	Yes	Yes	0.53	2798	50	30	109,138	86	1.88	30,782	180	0.55	1280
Cedar Lane	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Chamberlain Circle	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121
Channel House Rd.	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Chaps Way	Low Traffic	Yes	Yes	0.10	528	50	30	20,592	86	1.88	5,808	180	0.55	241
Chatham Place	Low Traffic	Yes	Yes	0.55	2904	50	30	113,256	86	1.88	31,944	180	0.55	1328
Chester Circle	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
Cheswick Drive	Low Traffic	Yes	Yes	0.49	2587	50	26	90,552	86	1.88	38,808	180	0.55	1143
Churchill Circle	Low Traffic	Yes	Yes	0.08	422	50	28	15,629	86	1.88	5,491	180	0.55	190
Citadel Court	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
Claremont Drive	Low Traffic	Yes	Yes	1.49	7867	53	32	320,760	86	1.88	95,832	180	0.55	3794
Clayton Court	Low Traffic	Yes	Yes	0.13	686	50	26	24,024	86	1.88	10,296	180	0.55	303
Cloverleaf Lane	Low Traffic	Yes	Yes	0.34	1795	50	26	62,832	86	1.88	26,928	180	0.55	793
Colt Circle	Low Traffic	Yes	Yes	0.10	528	50	30	20,592	86	1.88	5,808	180	0.55	241
Colwyn Terrace	Low Traffic	Yes	Yes	0.20	1056	50	26	36,960	86	1.88	15,840	180	0.55	467
Commerce Drive	Low Traffic	Yes	Yes	0.54	2851	50	26	99,792	86	1.88	42,768	180	0.55	1260
Compton Court	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Conrad Lane	Low Traffic	Yes	Yes	0.17	898	50	26	31,416	86	1.88	13,464	180	0.55	397
Copperleaf Circle	Low Traffic	Yes	Yes	0.07	370	50	28	13,675	86	1.88	4,805	180	0.55	166
Corporate Drive	Low Traffic	Yes	Yes	0.39	2059	50	30	80,309	86	1.88	22,651	180	0.55	942
Country Club Drive	Low Traffic	Yes	Yes	1.08	5702	50	26	199,584	86	1.88	85,536	180	0.55	2520
Country Lane	Low Traffic	Yes	Yes	0.16	845	33	26	29,568	86	1.88	-1,690	180	0.55	285
Cove Circle	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Coventry Circle	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Crestwood Circle	Low Traffic	Yes	Yes	0.04	211	50	30	8,237	86	1.88	2,323	180	0.55	97
Crestwood Drive	Low Traffic	Yes	Yes	0.29	1531	50	26	53,592	86	1.88	22,968	180	0.55	677
Cricklewood Circle	Low Traffic	Yes	Yes	0.32	1690	66	40	82,790	86	1.88	28,723	180	0.55	1004
Damson Lane	Low Traffic	Yes	Yes	0.07	370	50	32	15,154	86	1.88	3,326	180	0.55	172
David Lane	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Davis Dr.	Low Traffic	Yes	Yes	0.66	3485	50	28	128,938	86	1.88	45,302	180	0.55	1567
Dayton Drive South	Low Traffic	Yes	Yes	0.18	950	50	26	33,264	86	1.88	14,256	180	0.55	420
Deerpath Lane	Low Traffic	Yes	Yes	0.08	422	50	30	16,474	86	1.88	4,646	180	0.55	193
Devonshire Drive	Low Traffic	Yes	Yes	0.17	898	50	26	31,416	86	1.88	13,464	180	0.55	397

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Dickens Court	Low Traffic	Yes	Yes	0.08	422	50	30	16,474	86	1.88	4,646	180	0.55	193
Domorah Drive	Low Traffic	Yes	Yes	0.31	1637	50	30	63,835	86	1.88	18,005	180	0.55	749
Dorter Ln	Low Traffic	Yes	Yes	0.13	686	50	28	25,397	86	1.88	8,923	180	0.55	309
Douglas Road	Low Traffic	Yes	Yes	0.51	2693	50	28	99,634	86	1.88	35,006	180	0.55	1211
Drake Lane	Low Traffic	Yes	Yes	0.61	3221	50	30	125,611	86	1.88	35,429	180	0.55	1473
Drayton Circle	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Duchess Place	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121
Durham Way	Low Traffic	Yes	Yes	0.18	950	50	30	37,066	86	1.88	10,454	180	0.55	435
Eagle Lane	Low Traffic	Yes	Yes	0.16	845	50	26	29,568	86	1.88	12,672	180	0.55	373
Eaton Drive	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Edgar Allen Circle	Low Traffic	Yes	Yes	0.08	422	50	28	15,629	86	1.88	5,491	180	0.55	190
Elberta Drive	Low Traffic	Yes	Yes	0.08	422	50	32	17,318	86	1.88	3,802	180	0.55	196
Embassy Drive	Low Traffic	Yes	Yes	0.21	1109	50	30	43,243	86	1.88	12,197	180	0.55	507
Enterprise Drive	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Fairacres Drive	Low Traffic	Yes	Yes	0.15	792	80	64	57,816	86	1.88	5,544	180	0.55	612
Fairview Drive	Low Traffic	Yes	Yes	0.21	1109	50	30	43,243	86	1.88	12,197	180	0.55	507
Falling Leaf Way	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Field Terrace	Low Traffic	Yes	Yes	0.10	528	50	26	18,480	86	1.88	7,920	180	0.55	233
Forest Trail Drive	Low Traffic	Yes	Yes	0.66	3485	58	26	121,968	86	1.88	79,728	180	0.55	1708
Freedom Way	Low Traffic	Yes	Yes	0.23	1214	50	34	52,219	86	1.88	8,501	180	0.55	574
Gift Circle	Low Traffic	Yes	Yes	0.10	528	50	24	17,424	86	1.88	8,976	180	0.55	229
Glasgow Circle	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Glen Road	Low Traffic	Yes	Yes	0.28	1478	50	26	51,744	86	1.88	22,176	180	0.55	653
Goodwin Lane	Low Traffic	Yes	Yes	0.33	1742	50	28	64,469	86	1.88	22,651	180	0.55	783
Gordon Lane	Low Traffic	Yes	Yes	0.22	1162	50	24	38,333	86	1.88	19,747	180	0.55	504
Grays Lane	Low Traffic	Yes	Yes	0.77	4066	50	30	158,558	86	1.88	44,722	180	0.55	1859
Green Spring Circle	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Green Tree Tavern	Low Traffic	Yes	Yes	0.82	4330	50	28	160,195	86	1.88	56,285	180	0.55	1947
Greenbriar Road	Low Traffic	Yes	Yes	0.16	845	50	26	29,568	86	1.88	12,672	180	0.55	373
Grouse Court	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Guilford Court	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Guinness Lane	Low Traffic	Yes	Yes	0.16	845	50	30	32,947	86	1.88	9,293	180	0.55	386
Gwynedd Lea Drive	Low Traffic	Yes	Yes	0.42	2218	50	26	77,616	86	1.88	33,264	180	0.55	980
Gwynmont Circle	Low Traffic	Yes	Yes	0.26	1373	50	30	53,539	86	1.88	15,101	180	0.55	628
Gwynmont Drive	Low Traffic	Yes	Yes	0.39	2059	50	32	84,427	86	1.88	18,533	180	0.55	958
Halloway Circle	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
Hampton Circle	Low Traffic	Yes	Yes	0.09	475	50	26	16,632	86	1.88	7,128	180	0.55	210
Hanover Avenue	Low Traffic	Yes	Yes	0.27	1426	50	30	55,598	86	1.88	15,682	180	0.55	652
Harbob Lane	Low Traffic	Yes	Yes	0.11	581	50	26	20,328	86	1.88	8,712	180	0.55	257
Hawthorne Circle	Low Traffic	Yes	Yes	0.46	2429	50	26	85,008	86	1.88	36,432	180	0.55	1073

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Hawthorne Drive	Low Traffic	Yes	Yes	0.54	2851	50	26	99,792	86	1.88	42,768	180	0.55	1260
Heartwood Drive	Low Traffic	Yes	Yes	0.53	2798	50	26	97,944	86	1.88	41,976	180	0.55	1237
Hedgegrow Place	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Hemlock Drive	Low Traffic	Yes	Yes	0.48	2534	50	26	88,704	86	1.88	38,016	180	0.55	1120
Henning Drive	Low Traffic	Yes	Yes	0.11	581	50	32	23,813	86	1.88	5,227	180	0.55	270
Heritage Drive	Low Traffic	Yes	Yes	0.03	158	50	26	5,544	86	1.88	2,376	180	0.55	70
Heron Court	Low Traffic	Yes	Yes	0.09	475	50	28	17,582	86	1.88	6,178	180	0.55	214
Holl Court	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Holly Drive	Low Traffic	Yes	Yes	0.52	2746	50	26	96,096	86	1.88	41,184	180	0.55	1213
Horseshoe Lane	Low Traffic	Yes	Yes	0.31	1637	50	30	63,835	86	1.88	18,005	180	0.55	749
Independence Dr.	Low Traffic	Yes	Yes	0.61	3221	50	26	112,728	86	1.88	48,312	180	0.55	1423
Jason Place	Low Traffic	Yes	Yes	0.10	528	50	26	18,480	86	1.88	7,920	180	0.55	233
Jonathan Drive	Low Traffic	Yes	Yes	0.33	1742	50	32	71,438	86	1.88	15,682	180	0.55	810
Kelsey Drive	Low Traffic	Yes	Yes	0.32	1690	50	26	59,136	86	1.88	25,344	180	0.55	747
Kent Drive	Low Traffic	Yes	Yes	0.31	1637	50	26	57,288	86	1.88	24,552	180	0.55	723
Keystone Drive	Low Traffic	Yes	Yes	0.55	2904	50	30	113,256	86	1.88	31,944	180	0.55	1328
Kingston Way	Low Traffic	Yes	Yes	0.34	1795	50	26	62,832	86	1.88	26,928	180	0.55	793
Knapp Road	Medium Traffic	Yes	Yes	1.23	6494	33	24	214,315	113	1.88	0	180	0.55	2815
Knollwood Drive	Low Traffic	Yes	Yes	0.27	1426	50	26	49,896	86	1.88	21,384	180	0.55	630
Lantern Lane	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Lawn Avenue	Low Traffic	Yes	Yes	0.47	2482	50	26	86,856	86	1.88	37,224	180	0.55	1097
Lea Drive	Low Traffic	Yes	Yes	0.17	898	50	33	37,699	86	1.88	7,181	180	0.55	421
Lenape Drive	Low Traffic	Yes	Yes	0.15	792	50	26	27,720	86	1.88	11,880	180	0.55	350
Lindsey Place	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121
Line Street	Low Traffic	Yes	Yes	0.84	4435	40	24	146,362	86	1.88	31,046	180	0.55	1653
Longleat Drive	Low Traffic	Yes	Yes	0.34	1795	50	30	70,013	86	1.88	19,747	180	0.55	821
Lower State Road	Medium Traffic	Yes	Yes	0.61	3221	33	18	86,962	113	1.88	19,325	180	0.55	1261
Macintosh Lane	Low Traffic	Yes	Yes	0.07	370	50	32	15,154	86	1.88	3,326	180	0.55	172
Madison Court	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Magdalena Lane	Low Traffic	Yes	Yes	0.27	1426	50	26	49,896	86	1.88	21,384	180	0.55	630
Magella Court	Low Traffic	Yes	Yes	0.08	422	50	28	15,629	86	1.88	5,491	180	0.55	190
Magnolia Place	Low Traffic	Yes	Yes	0.08	422	50	26	14,784	86	1.88	6,336	180	0.55	187
Major Drive	Low Traffic	Yes	Yes	0.17	898	50	28	33,211	86	1.88	11,669	180	0.55	404
Mallard Drive	Low Traffic	Yes	Yes	1.46	7709	50	28	285,226	86	1.88	100,214	180	0.55	3466
Manor Drive	Low Traffic	Yes	Yes	0.19	1003	50	28	37,118	86	1.88	13,042	180	0.55	451
Matthew Drive	Low Traffic	Yes	Yes	0.28	1478	50	26	51,744	86	1.88	22,176	180	0.55	653
McLaughlin Road	Low Traffic	Yes	Yes	0.15	792	33	10	15,048	86	1.88	11,088	180	0.55	218
Meadow Glen Rd.	Low Traffic	Yes	Yes	0.34	1795	50	26	62,832	86	1.88	26,928	180	0.55	793
Meadowood Dr.	Low Traffic	Yes	Yes	0.40	2112	50	26	73,920	86	1.88	31,680	180	0.55	933
Mele Avenue	Low Traffic	Yes	Yes	0.20	1056	50	26	36,960	86	1.88	15,840	180	0.55	467

CLIENT:
MONTGOMERY TOWNSHIP
PROJECT NAME:
NPDES MS4 PERMIT RENEWAL
PROJECT NUMBER:
11-12055



Street Name	Classification	Sidewalks	Curb	Length (mi)	Length (ft)	ROW	Paved	Impervious Area (ft ²)	TSS EMC (mg/L)	Q (ft ³ /year)	Grass Area (lbs/year)	TSS EMC (mg/L)	Q (ft ³ /year)	Sediment Load (lbs/year)
Merton Circle	Low Traffic	Yes	Yes	0.08	422	50	30	16,474	86	1.88	4,646	180	0.55	193
Montclair Drive	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Montg. Glen Drive	Low Traffic	Yes	Yes	0.66	3485	50	32	142,877	86	1.88	31,363	180	0.55	1620
Morgan St.	Low Traffic	Yes	Yes	0.04	211	50	50	12,461	86	1.88	-1,901	180	0.55	113
Morningside Drive	Low Traffic	Yes	Yes	0.40	2112	50	22	65,472	86	1.88	40,128	180	0.55	901
Narcissus Place	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Nevermore Circle	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Newport Lane	Low Traffic	Yes	Yes	0.44	2323	50	30	90,605	86	1.88	25,555	180	0.55	1062
Noble Court	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
North Wales Road	Medium Traffic	Yes	Yes	0.77	4066	43	31	161,304	113	1.88	15,048	180	0.55	2211
Nottingham Way	Low Traffic	Yes	Yes	0.09	475	50	28	17,582	86	1.88	6,178	180	0.55	214
Old Oak Tree Road	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Orchard Drive	Low Traffic	Yes	Yes	0.42	2218	50	32	90,922	86	1.88	19,958	180	0.55	1031
Oval Lane	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
Oxford Lane	Low Traffic	Yes	Yes	0.33	1742	50	30	67,954	86	1.88	19,166	180	0.55	797
Park Drive	Low Traffic	Yes	Yes	0.43	2270	60	40	111,250	86	1.88	24,974	180	0.55	1265
Parliament Drive	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Pauline Circle	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Pecan Drive	Low Traffic	Yes	Yes	0.38	2006	40	16	50,160	86	1.88	30,096	180	0.55	686
Pemberton Court	Low Traffic	Yes	Yes	0.11	581	50	26	20,328	86	1.88	8,712	180	0.55	257
Pendulum Way	Low Traffic	Yes	Yes	0.07	370	50	28	13,675	86	1.88	4,805	180	0.55	166
Pine Crest Lane	Low Traffic	Yes	Yes	0.68	3590	50	26	125,664	86	1.88	53,856	180	0.55	1586
Pintail Court	Low Traffic	Yes	Yes	0.07	370	50	28	13,675	86	1.88	4,805	180	0.55	166
Pioneer Drive	Low Traffic	Yes	Yes	0.35	1848	50	28	68,270	86	1.88	24,130	180	0.55	830
Pioneer Spur	Low Traffic	Yes	Yes	0.13	686	50	30	26,770	86	1.88	7,550	180	0.55	314
Poe Court	Low Traffic	Yes	Yes	0.22	1162	50	28	42,979	86	1.88	15,101	180	0.55	522
Potters Way	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Preston Drive	Low Traffic	Yes	Yes	0.30	1584	50	30	61,776	86	1.88	17,424	180	0.55	724
Progress Drive	Low Traffic	Yes	Yes	0.23	1214	50	30	47,362	86	1.88	13,358	180	0.55	555
Quail Ct.	Low Traffic	Yes	Yes	0.09	475	50	28	17,582	86	1.88	6,178	180	0.55	214
Raven Hollow Drive	Low Traffic	Yes	Yes	0.72	3802	50	28	140,659	86	1.88	49,421	180	0.55	1709
Ravenwood Place	Low Traffic	Yes	Yes	0.10	528	50	30	20,592	86	1.88	5,808	180	0.55	241
Red Haven Drive	Low Traffic	Yes	Yes	0.46	2429	50	32	99,581	86	1.88	21,859	180	0.55	1129
Regency Drive	Low Traffic	Yes	Yes	1.07	5650	50	30	220,334	86	1.88	62,146	180	0.55	2584
Richardson Road	Low Traffic	Yes	Yes	0.96	5069	33	18	136,858	86	1.88	30,413	180	0.55	1554
Ridgeview Road	Low Traffic	Yes	Yes	0.21	1109	50	26	38,808	86	1.88	16,632	180	0.55	490
Rose Lane	Low Traffic	Yes	Yes	0.13	686	50	26	24,024	86	1.88	10,296	180	0.55	303
Rosetwig Ln	Low Traffic	Yes	Yes	0.32	1690	50	33	70,963	86	1.88	13,517	180	0.55	792
Rosewood Drive	Low Traffic	Yes	Yes	0.38	2006	50	26	70,224	86	1.88	30,096	180	0.55	887
Ross Court	Low Traffic	Yes	Yes	0.05	264	50	30	10,296	86	1.88	2,904	180	0.55	121

CLIENT:
MONTGOMERY TOWNSHIP
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11-12055



Street Name	Classification	Sidewalks	Curb	Length (mi)	Length (ft)	ROW	Paved	Impervious Area (ft ²)	TSS EMC (mg/L)	Q (ft ³ /year)	Grass Area (lbs/year)	TSS EMC (mg/L)	Q (ft ³ /year)	Sediment Load (lbs/year)
Royal Court	Low Traffic	Yes	Yes	0.10	528	50	30	20,592	86	1.88	5,808	180	0.55	241
Runnymede Drive	Low Traffic	Yes	Yes	0.25	1320	50	30	51,480	86	1.88	14,520	180	0.55	604
S. Buckingham Lane	Low Traffic	Yes	Yes	0.16	845	50	28	31,258	86	1.88	10,982	180	0.55	380
Samantha Lane	Low Traffic	Yes	Yes	0.16	845	50	30	32,947	86	1.88	9,293	180	0.55	386
Sassafras Drive	Low Traffic	Yes	Yes	0.17	898	50	26	31,416	86	1.88	13,464	180	0.55	397
Savory Lane	Low Traffic	Yes	Yes	0.32	1690	50	30	65,894	86	1.88	18,586	180	0.55	773
Schriener Drive	Low Traffic	Yes	Yes	0.52	2746	50	25	93,984	86	1.88	43,296	180	0.55	1205
Scott Circle	Low Traffic	Yes	Yes	0.12	634	50	26	22,176	86	1.88	9,504	180	0.55	280
Shady Lane	Low Traffic	Yes	Yes	0.48	2534	50	26	88,704	86	1.88	38,016	180	0.55	1120
Shelburne Drive	Low Traffic	Yes	Yes	0.31	1637	50	26	57,288	86	1.88	24,552	180	0.55	723
Simpson Court	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Society Circle	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
South Drive	Low Traffic	Yes	Yes	0.10	528	50	22	16,368	86	1.88	10,032	180	0.55	225
Sparks Circle	Low Traffic	Yes	Yes	0.08	422	50	26	14,784	86	1.88	6,336	180	0.55	187
Spring Valley Drive	Low Traffic	Yes	Yes	0.36	1901	50	24	62,726	86	1.88	32,314	180	0.55	825
Springdale Lane	Low Traffic	Yes	Yes	0.24	1267	50	30	49,421	86	1.88	13,939	180	0.55	579
Spur Rd.	Low Traffic	Yes	Yes	0.35	1848	50	28	68,376	86	1.88	24,024	180	0.55	831
Stafford Circle	Low Traffic	Yes	Yes	0.09	475	50	30	18,533	86	1.88	5,227	180	0.55	217
Stayman Drive	Low Traffic	Yes	Yes	0.32	1690	50	32	69,274	86	1.88	15,206	180	0.55	786
Steeplechase Dr.	Low Traffic	Yes	Yes	0.48	2534	50	30	98,842	86	1.88	27,878	180	0.55	1159
Sterling Drive	Low Traffic	Yes	Yes	0.24	1267	50	26	44,352	86	1.88	19,008	180	0.55	560
Stevens Mill Rd.	Low Traffic	Yes	Yes	0.47	2482	50	28	91,819	86	1.88	32,261	180	0.55	1116
Stone Ridge Drive	Low Traffic	Yes	Yes	0.43	2270	50	29	86,117	86	1.88	27,403	180	0.55	1029
Stoney Court	Low Traffic	Yes	Yes	0.06	317	50	26	11,088	86	1.88	4,752	180	0.55	140
Stump Road	Medium Traffic	Yes	Yes	3.20	16896	33	18	456,192	113	1.88	101,376	180	0.55	6613
Summer Ridge Dr.	Low Traffic	Yes	Yes	0.45	2376	50	26	83,160	86	1.88	35,640	180	0.55	1050
Summit Place	Low Traffic	Yes	Yes	0.07	370	50	26	12,936	86	1.88	5,544	180	0.55	163
Sunrise Drive	Low Traffic	Yes	Yes	0.44	2323	50	26	81,312	86	1.88	34,848	180	0.55	1027
Sunset Drive	Low Traffic	Yes	Yes	0.30	1584	50	22	49,104	86	1.88	30,096	180	0.55	675
Swallow Court	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Swan Court	Low Traffic	Yes	Yes	0.10	528	50	28	19,536	86	1.88	6,864	180	0.55	237
Sycamore Drive	Low Traffic	Yes	Yes	0.21	1109	40	16	27,720	86	1.88	16,632	180	0.55	379
Tanglewood Drive	Low Traffic	Yes	Yes	0.11	581	50	26	20,328	86	1.88	8,712	180	0.55	257
Tennyson Lane	Low Traffic	Yes	Yes	0.32	1690	50	30	65,894	86	1.88	18,586	180	0.55	773
Thames Drive	Low Traffic	Yes	Yes	0.40	2112	50	30	82,368	86	1.88	23,232	180	0.55	966
Thatcher Court	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Torey Circle	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
Tracey Circle	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Tree Line Drive	Low Traffic	Yes	Yes	0.55	2904	50	26	101,640	86	1.88	43,560	180	0.55	1283
Trotter Lane	Low Traffic	Yes	Yes	0.14	739	50	32	30,307	86	1.88	6,653	180	0.55	344

CLIENT:
MONTGOMERY TOWNSHIP
PROJECT NAME:
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PROJECT NUMBER:
11-12055



Street Name	Classification	Sidewalks	Curb	Length (mi)	Length (ft)	ROW	Paved	Impervious Area (ft ²)	TSS EMC (mg/L)	Q (ft/year)	Grass Area (lbs/year)	TSS EMC (mg/L)	Q (ft/year)	Sediment Load (lbs/year)
Tudor Drive	Low Traffic	Yes	Yes	0.91	4805	50	30	187,387	86	1.88	52,853	180	0.55	2197
Twining Road	Low Traffic	Yes	Yes	0.68	3590	50	30	140,026	86	1.88	39,494	180	0.55	1642
Usher Lane	Low Traffic	Yes	Yes	0.22	1162	50	28	42,979	86	1.88	15,101	180	0.55	522
Veronica Lane	Low Traffic	Yes	Yes	0.22	1162	50	28	42,979	86	1.88	15,101	180	0.55	522
Village Drive	Low Traffic	Yes	Yes	0.12	634	50	26	22,176	86	1.88	9,504	180	0.55	280
Vilsmeier Road	Low Traffic	Yes	Yes	0.75	3960	50	16	99,000	86	1.88	99,000	180	0.55	1597
Virginia	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
Walden Circle	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
Walden Court	Low Traffic	Yes	Yes	0.07	370	50	32	15,154	86	1.88	3,326	180	0.55	172
Walden Lane	Low Traffic	Yes	Yes	0.10	528	50	30	20,592	86	1.88	5,808	180	0.55	241
Wentworth Drive	Low Traffic	Yes	Yes	0.40	2112	50	28	78,144	86	1.88	27,456	180	0.55	950
West Thomas Rd.	Low Traffic	Yes	Yes	0.47	2482	50	16	62,040	86	1.88	62,040	180	0.55	1001
Westgate Drive	Low Traffic	Yes	Yes	0.37	1954	50	27	70,910	86	1.88	26,770	180	0.55	873
Westminster Drive	Low Traffic	Yes	Yes	0.54	2851	50	28	105,494	86	1.88	37,066	180	0.55	1282
Weston Court	Low Traffic	Yes	Yes	0.08	422	50	30	16,474	86	1.88	4,646	180	0.55	193
Weymouth Circle	Low Traffic	Yes	Yes	0.06	317	50	30	12,355	86	1.88	3,485	180	0.55	145
White Pines Drive	Low Traffic	Yes	Yes	0.26	1373	50	26	48,048	86	1.88	20,592	180	0.55	607
Willowood Court	Low Traffic	Yes	Yes	0.05	264	50	26	9,240	86	1.88	3,960	180	0.55	117
Winter Drive	Low Traffic	Yes	Yes	0.28	1478	50	26	51,744	86	1.88	22,176	180	0.55	653
Witchwood Drive	Low Traffic	Yes	Yes	0.28	1478	50	40	72,442	86	1.88	1,478	180	0.55	733
Woodland Dr.	Low Traffic	Yes	Yes	0.52	2746	50	26	96,096	86	1.88	41,184	180	0.55	1213
Woodlea Terrace	Low Traffic	Yes	Yes	0.07	370	50	32	15,154	86	1.88	3,326	180	0.55	172
Wordsworth Lane	Low Traffic	Yes	Yes	0.07	370	50	30	14,414	86	1.88	4,066	180	0.55	169
Wren Court	Low Traffic	Yes	Yes	0.05	264	50	28	9,768	86	1.88	3,432	180	0.55	119
Wrights Circle	Low Traffic	Yes	Yes	0.06	317	50	28	11,722	86	1.88	4,118	180	0.55	142
TOTAL								13,941,998			4,745,770			171,353

Neshaminy West Branch	25%							3,485,500			1,186,442			42,838
Little Neshaminy	60%							8,365,199			2,847,462			102,812
Wissahickon	15%							2,091,300			711,865			25,703

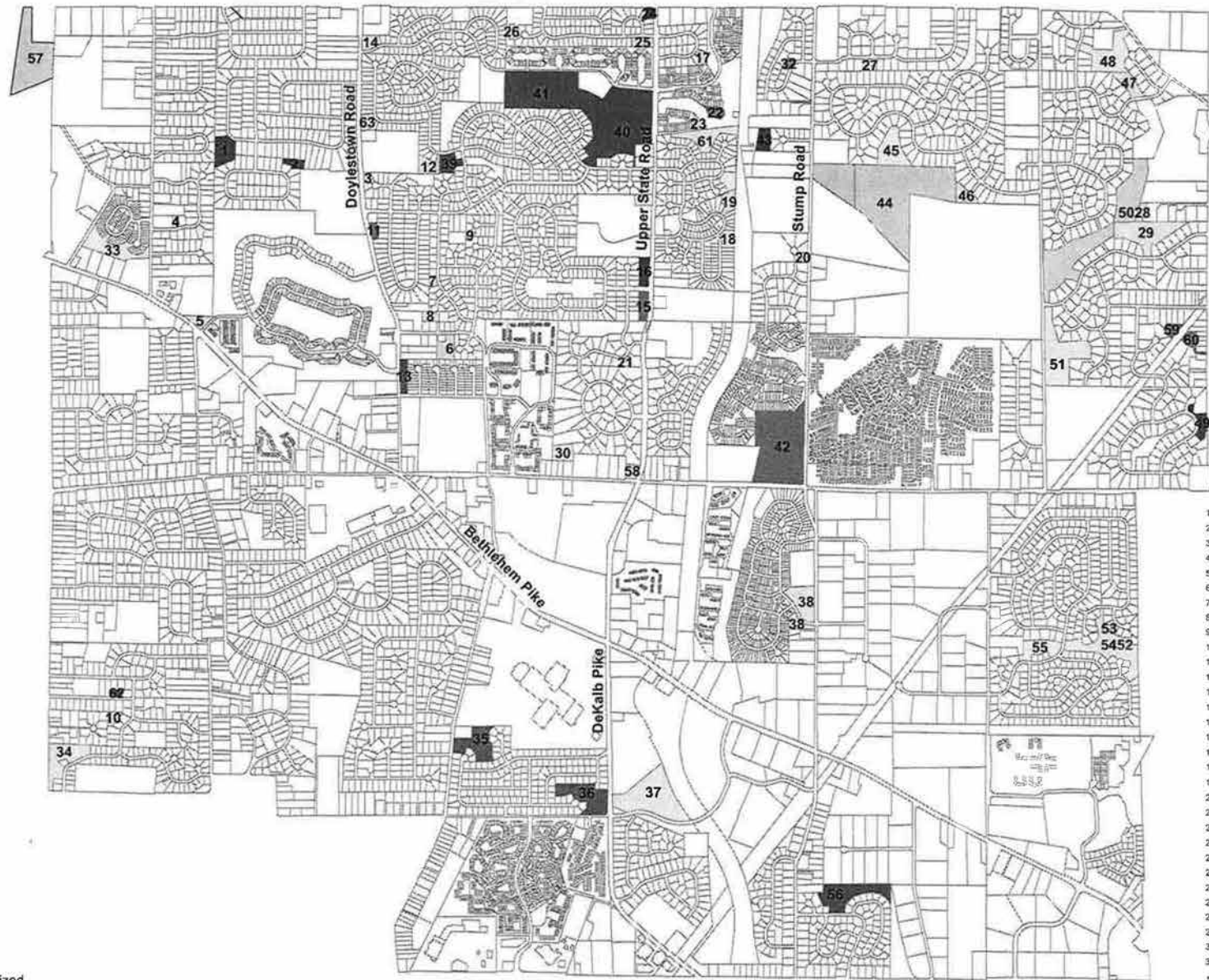
APPENDIX D

EXISTING NATURALIZED BASINS

APPENDIX D-1

TOWNSHIP BASIN LOCATIONS MAP

7



Basins

Basins

Unassessed Basins

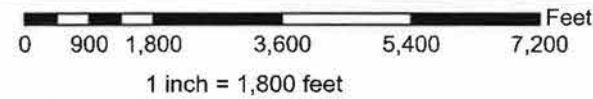
Assessed But Not to be Naturalized

Basins

- | | |
|--------------------------------|--------------------------------|
| 1, Andrew Lane | 33, Autumn Woods Park |
| 2, Douglas Road | 34, Cambridge Knoll A |
| 3, Paulina Circle | 35, Knapp Farm |
| 4, Veronica Lane | 36, Knapp Farm |
| 5, Bethlehem Pike | 37, Witchwood Park |
| 6, Montgomery Ave. | 38, The Orchard |
| 7, Pioneer Drive | 39, Canterbury |
| 8, Walden Lane | 40, Spring Valley Park |
| 9, Toney Circle | 41, Spring Valley Park |
| 10, Addison Lane | 42, Township Building |
| 11, Forest Trail | 43, Baker Place |
| 12, Heather Knoll* | 44, Zehr Tract |
| 13, Thornbury | 45, Mallard Pond |
| 14, Gwynmere | 46, Mallard Pond |
| 15, Stone Ridge | 47, Montgomery Lea |
| 16, Stone Ridge | 48, Montgomery Lea |
| 17, Horseshoe Lane | 49, Green Tree Tavern |
| 18, West Gale | 50, Estates of Windiestrae |
| 19, West Gate | 51, Estates of Windiestrae |
| 20, The Ridings | 52, Montgomery Crossing |
| 21, Montgomery Hill | 53, Montgomery Crossing |
| 22, Winners Circle | 54, Montgomery Crossing |
| 23, Winners Circle | 55, Montgomery Crossing |
| 24, Summer Ridge | 56, Gwynedd Lea |
| 25, Summer Ridge | 57, Whistestop Park (Hatfield) |
| 26, Summer Ridge | 58, Tall Gables |
| 27, Heather Lea | 59, Montgomery Hollow |
| 28, Gift Circle (Raven Hollow) | 60, Montgomery Hollow |
| 29, Gwynwood Pond | 61, Autumn Grove |
| 30, Tall Gables | 62, Magdalen |
| 32, Heather Ridge | 63, Bedford Lane |

* Basins are naturalized but have not been assessed

Boucher & James, Inc.
CONSULTING ENGINEERS
www.bjengineers.com
May 26, 2011 #1055022
Last Revised October 7, 2014

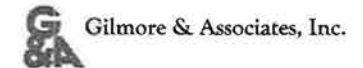


Montgomery Township Stormwater Management Basins May 26, 2011

APPENDIX D-2

EXISTING NATURALIZED BASINS SEDIMENT CALCULATION

CLIENT:
MONTGOMERY TOWNSHIP
PROJECT NAME:
NPDES MS4 PERMIT RENEWAL
PROJECT NUMBER:
11-12055



No.	LOCATION	YEAR NATURALIZED	WATERSHED	TRIBUTARY AREA (ac)	25% IMPERVIOUS COVER (ac)	RUNOFF DEPTH (in)	EMC TSS (mg/L)	IMPERVIOUS SEDIMENT (Lb/year)	75% LAWN COVER (ac)	RUNOFF DEPTH (in)	EMC TSS (mg/L)	LAWN SEDIMENT (Lb/year)	TOTAL SEDIMENT (Lb/year)	25% SEDIMENT REDUCTION (Lb/year)
24	Summer Ridge	2009	LN	16.5	4.1	43.51	35	1,413	12.375	6.59	180	3,303	4,716	1,179
35	Knapp Farm	2009	LN	41.8	10.5	43.51	35	3,581	31.35	6.59	180	8,367	11,948	2,987
40	Spring Valley Park	2009	LN	29.2	7.3	43.51	35	2,501	21.9	6.59	180	5,845	8,346	2,087
41	Spring Valley Park	2009	LN	54.7	13.7	43.51	35	4,686	41.025	6.59	180	10,949	15,635	3,909
56	Gwynedd Lea	2010	LN	35.9	9.0	43.51	35	3,075	26.925	6.59	180	7,186	10,261	2,565
15	Stone Ridge	2011	LN	40.2	10.0	43.51	35	3,439	30.1125	6.59	180	8,037	11,476	2,869
16	Stone Ridge	2011	LN	40.2	10.0	43.51	35	3,439	30.1125	6.59	180	8,037	11,476	2,869
22	Winners Circle	2011	LN	22.9	5.7	43.51	35	1,962	17.175	6.59	180	4,584	6,546	1,636
32	Heather Ridge	2011	LN	14.9	3.7	43.51	35	1,276	11.175	6.59	180	2,983	4,259	1,065
42	Township Building	2011	LN	4.0	1.0	43.51	35	343	3	6.59	180	801	1,143	286
59	Montgomery Hollow	2011	LN	11.5	2.9	43.51	35	985	8.625	6.59	180	2,302	3,287	822
60	Montgomery Hollow	2011	LN	10.4	2.6	43.51	35	891	7.8	6.59	180	2,082	2,973	743
21	Montgomery Hill	2012	LN	37.0	9.3	43.51	35	3,169	27.75	6.59	180	7,406	10,576	2,644
29	Gwynwood Pond	2012	LN	18.2	4.6	43.51	35	1,559	13.65	6.59	180	3,643	5,202	1,301
30	Tall Gables	2012	LN	16.8	4.2	43.51	35	1,439	12.6	6.59	180	3,363	4,802	1,200
38	The Orchard	2012	LN	13.4	3.4	43.51	35	1,148	10.05	6.59	180	2,682	3,830	958
45	Mallard Pond	2012	LN	26.9	6.7	43.51	35	2,307	20.2	6.59	180	5,391	7,698	1,925
48	Montgomery Lea	2012	LN	48.0	12.0	43.51	35	4,112	36	6.59	180	9,608	13,720	3,430
51	Estates of Windlestrae	2012	LN	15.0	3.8	43.51	35	1,285	11.25	6.59	180	3,003	4,287	1,072
52	Montgomery Crossing	2012	LN	52.4	13.1	43.51	35	4,491	39.325	6.59	180	10,496	14,987	3,747
53	Montgomery Crossing	2012	LN	52.4	13.1	43.51	35	4,491	39.325	6.59	180	10,496	14,987	3,747
54	Montgomery Crossing	2012	LN	52.4	13.1	43.51	35	4,491	39.325	6.59	180	10,496	14,987	3,747
55	Montgomery Crossing	2012	LN	22.3	5.6	43.51	35	1,910	16.725	6.59	180	4,464	6,374	1,594
61	Autumn Grove	2012	LN	3.8	1.0	43.51	35	326	2.85	6.59	180	761	1,086	272
17	Horseshoe Lane	2013	LN	14.2	3.6	43.51	35	1,216	10.65	6.59	180	2,842	4,059	1,015
19	West Gate	2013	LN	43.9	11.0	43.51	35	3,760	32.925	6.59	180	8,788	12,548	3,137
28	Gift Circle (Raven Hollow)	2013	LN	6.0	1.5	43.51	35	514	4.5	6.59	180	1,201	1,715	429
50	Estates of Windlestrae	2013	LN	23.1	5.8	43.51	35	1,979	17.325	6.59	180	4,624	6,603	1,651
43	Baker Place	2014	LN	26.9	6.7	43.51	35	2,307	20.2	6.59	180	5,391	7,698	1,925
49	Green Tree Tavern	2014	LN	54.8	13.7	43.51	35	4,694	41.1	6.59	180	10,969	15,664	3,916
36	Knapp Farm	2009	W	22.5	5.6	43.51	35	1,927	16.875	6.59	180	4,504	6,431	1,608
1	Andrew Lane	2010	WB	73.0	18.3	43.51	35	6,253	54.75	6.59	180	14,613	20,866	5,216
2	Douglas Road	2010	WB	8.7	2.2	43.51	35	745	6.525	6.59	180	1,741	2,487	622
13	Thornbury	2010	WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
39	Canterbury	2010	WB	57.7	14.4	43.51	35	4,943	43.275	6.59	180	11,550	16,492	4,123
11	Forest Trail	2011	WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
7	Pioneer Drive	2012	WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
14	Gwynmere	2012	WB	22.0	5.5	43.51	35	1,885	16.5	6.59	180	4,404	6,288	1,572
33	Autumn Woods Park	2012	WB	15.5	3.9	43.51	35	1,328	11.625	6.59	180	3,103	4,430	1,108
6	Montgomery Ave.	2013	WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
9	Torey Circle	2013	WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
10	Addison Lane	2013	WB	16.3	4.1	43.51	35	1,396	12.225	6.59	180	3,263	4,659	1,165
62	Magdalena	2014	WB	35.7	8.9	43.51	35	3,058	26.775	6.59	180	7,146	10,204	2,551

APPENDIX E
POTENTIAL NEW BMPS

APPENDIX E-1

POTENTIAL TOWNSHIP BASINS TO BE NATURALIZED

CLIENT:
MONTGOMERY TOWNSHIP
PROJECT NAME:
NPDES MS4 PERMIT RENEWAL
PROJECT NUMBER:
11-12055



No.	LOCATION	YEAR TO BE ASSESSED	WATERSHED	TRIBUTARY AREA (ac)	25% IMPERVIOUS COVER (ac)	RUNOFF DEPTH (in)	EMC TSS (mg/L)	IMPERVIOUS SEDIMENT (Lb/year)	75% LAWN COVER (ac)	RUNOFF DEPTH (in)	EMC TSS (mg/L)	LAWN SEDIMENT (Lb/year)	TOTAL SEDIMENT (Lb/year)	25% SEDIMENT REDUCTION (Lb/year)
44	Zehr Tract		LN	26.9	6.7	43.51	35	2,307	20.2	6.59	180	5,391	7,698	1,925
57	Whistletop Park (Hatfield)		LN	0.0	0.0	43.51	35	0	0	6.59	180	0	0	0
18	West Gate	2015	LN	25.1	6.3	43.51	35	2,150	18.825	6.59	180	5,024	7,174	1,794
20	The Ridings		LN	15.5	3.9	43.51	35	1,328	11.625	6.59	180	3,103	4,430	1,108
23	Winners Circle		LN	4.6	1.2	43.51	35	394	3.45	6.59	180	921	1,315	329
25	Summer Ridge	2015	LN	17.9	4.5	43.51	35	1,533	13.425	6.59	180	3,583	5,116	1,279
26	Summer Ridge		LN		0.0	43.51	35	0	0	6.59	180	0	0	0
27	Heather Lea	2015	LN	25.7	6.4	43.51	35	2,201	19.275	6.59	180	5,144	7,346	1,836
46	Mallard Pond		LN	7.5	1.9	43.51	35	642	5.625	6.59	180	1,501	2,144	536
47	Montgomery Lea		LN	8.2	2.1	43.51	35	702	6.15	6.59	180	1,641	2,344	586
58	Tall Gables		LN	13.2	3.3	43.51	35	1,131	9.9	6.59	180	2,642	3,773	943
12	Heather Knoll*		WB	22.1	5.5	43.51	35	1,893	16.575	6.59	180	4,424	6,317	1,579
3	Pauline Circle		WB	22.1	5.5	43.51	35	1,893	16.575	6.59	180	4,424	6,317	1,579
4	Veronica Lane	2015	WB	10.7	2.7	43.51	35	917	8.025	6.59	180	2,142	3,058	765
5	Bethlehem Pike	2015	WB	6.8	1.7	43.51	35	582	5.1	6.59	180	1,361	1,944	486
8	Walden Lane		WB	21.2	5.3	43.51	35	1,815	15.8875	6.59	180	4,240	6,055	1,514
34	Cambridge Knoll A	2015	WB	42.0	10.5	43.51	35	3,598	31.5	6.59	180	8,407	12,005	3,001
63	Bedford Lane		WB	22.1	5.5	43.51	35	1,893	16.575	6.59	180	4,424	6,317	1,579
	Bridle Path Rd		WB	9.5	2.4	43.51	35	814	7.125	6.59	180	1,902	2,715	679
	Brookshire Way		WB	11.7	2.9	43.51	35	1,002	8.775	6.59	180	2,342	3,344	836

APPENDIX E-2
POTENTIAL BMPs

Potential BMP Application for Little Neshaminy Creek: Riparian Buffer Restoration



This Little Neshaminy Creek Tributary collects stormwater from approximately 160 acres of residential suburban neighborhoods and discharges it into Little Neshaminy Creek. This tributary can be considered for bank stabilization / floodplain restorations to reduce polluted run-off. Work completion will be contingent upon public / private partnerships.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	55	0.25	0.4	160	87.87	4832.67	21.97	35.15
Reduction**							4107.77	18.67	10.54

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 30% TN Reduction, 85% TP Reduction based on floodplain restoration in accordance with the PADEP BMP Manual.

Potential BMP Application for Neshaminy Creek Trib.: Riparian Buffer Restoration



This Neshaminy Creek Tributary collects stormwater from approximately 140 acres of residential suburban neighborhoods and discharges it to an unnamed tributary to Neshaminy Creek. This tributary can be considered for bank stabilization / floodplain restorations to reduce polluted run-off. Completion will be contingent upon public / private partnerships.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	55	0.25	0.4	18.8	10.32	567.84	2.58	4.13
Reduction**							482.66	2.19	1.24

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 30% TN Reduction, 85% TP Reduction based on floodplain restoration in accordance with the PADEP BMP Manual.

Potential BMP Application for Neshaminy Creek Trib.: Runoff Capture & Reuse



This Neshaminy Creek Tributary collects stormwater from approximately 162 acres of residential suburban neighborhoods and golf course greens and discharges it into an unnamed tributary to Neshaminy Creek. The Township contemplates a system in which runoff is collected for reuse for groundskeeping. Completion will be contingent upon public / private partnerships.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	200	0.5	0.8	53	29.11	5821.17	14.55	23.28
Reduction**							5821.17	14.55	23.28

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 100% TSS Reduction, 100% TN Reduction, 100% TP Reduction based on floodplain restoration in accordance with the PADEP BMP Manual.

Potential BMP Application for Neshaminy Creek Trib.: Riparian Buffer Restoration



This Neshaminy Creek Tributary collects stormwater from approximately 31 acres of residential suburban neighborhoods and discharges it to an unnamed tributary to Neshaminy Creek. This tributary can be considered for bank stabilization / floodplain restorations to reduce polluted run-off. Completion will be contingent upon public / private partnerships.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	55	0.25	0.4	31	17.02	936.33	4.26	6.81
Reduction**							795.88	3.62	2.04

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 30% TN Reduction, 85% TP Reduction based on floodplain restoration in accordance with the PADEP BMP Manual.

Potential BMP Application for Neshaminy Creek Trib.: Landscape Naturalization



The basin at Bridle Path Road collects stormwater from approximately 9.5 acres of residential suburban neighborhoods and discharges it to an unnamed tributary to Neshaminy Creek. This basin can be considered for landscape restoration to reduce polluted run-off. It is anticipated that the naturalization will increase the pollutant removal of the basin by 25%. See Appendix E-1 for pollutant removal estimates. Completion will be contingent upon public / private partnerships.

Potential BMP Application for Neshaminy Creek Trib.: Landscape Naturalization



The basin at Brookshire Way collects stormwater from approximately 11.7 acres of residential suburban neighborhoods and discharges it to an unnamed tributary to Neshaminy Creek. This basin can be considered for landscape restoration to reduce polluted run-off. It is anticipated that the naturalization will increase the pollutant removal of the basin by 25%. See Appendix E-1 for pollutant removal estimates. Completion will be contingent upon public / private partnerships.

Potential BMP Application for Neshaminy Creek Trib.: Raingarden Installation



There is the potential to install a raingarden at Fellowship Park which collects stormwater from approximately 5 acres of athletic fields. It is anticipated that the raingarden will increase the pollutant removal of the area by 85%.

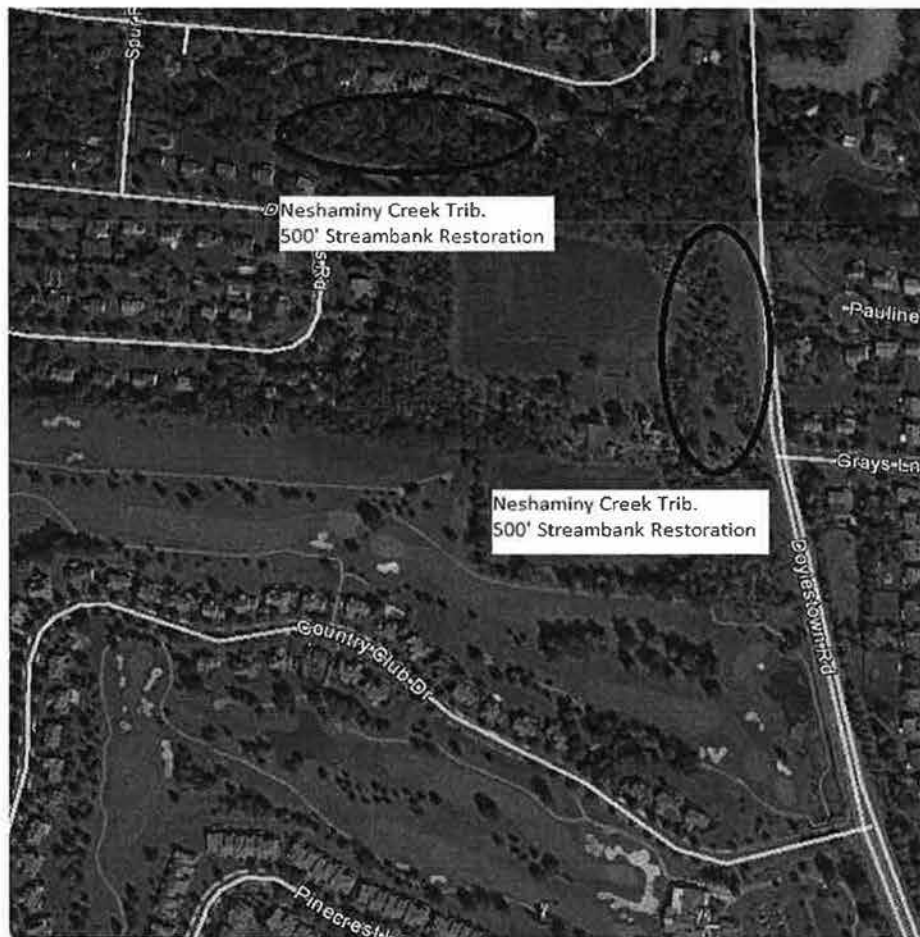
Estimated Polutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	200	1.07	1.01	5	2.75	549.17	2.94	2.77
Reduction**							466.79	2.94	2.77

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 85% TN Reduction, 30% TP Reduction based on Rain Garden / Bioretention in accordance with the PADEP BMP Manual.

Potential BMP Application for Neshaminy Creek Trib.: Streambank Restoration



This Neshaminy Creek proposed BMP is a streambank restoration that will reduce future erosion from approximately 500 linear feet of streambank in two separate sections. It is anticipated that the restoration will decrease the sediment removal along the banks by a total of 21,335 pounds per year.

Estimated Pollutant Load and Reduction from BMP

Two 500 Linear Feet Sections = 1000 Linear Feet

Average reduction = 25.1 lbs / linear foot / year

Total Reduction 25100 lbs/year

85% Claimed 21335 lbs/year

Potential BMP Application for Trewellyn Creek: Riparian Buffer Restoration



Trewellyn Creek originates in the southeast section of the Township where approximately 75 acres drain towards the headwaters of the creek. The municipality contemplates naturalization of the existing basin and establishment of a riparian buffer that will help remove approximately 67% of the total siltation entering the creek in this area.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Estimated*	0.5492	55	0.25	0.4	75	41.1875	2265.3125	10.296875	16.475
Reduction**							1517.76	4.43	5.6015

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 67% TSS Reduction, 34% TN Reduction, 43% TP Reduction based on 100' Buffer in accordance with the PADEP BMP Manual.

Potential BMP Application for Wissahickon Creek: Floodplain Restoration



The Wissahickon Creek in Montgomery Township is surrounded mostly by park lands and suburban residential neighborhoods. In order to accomplish a 48% reduction of sediment highlighted by streambank erosion, it is important that Montgomery Township utilizes all streams and tributaries that contribute to the Wissahickon Creek Watershed. The Township contemplates reduction of streambank erosion by surveying the approximately 3,000 linear feet of the creek and installing bank stabilization/floodplain restoration measures as necessary to reduce erosion.

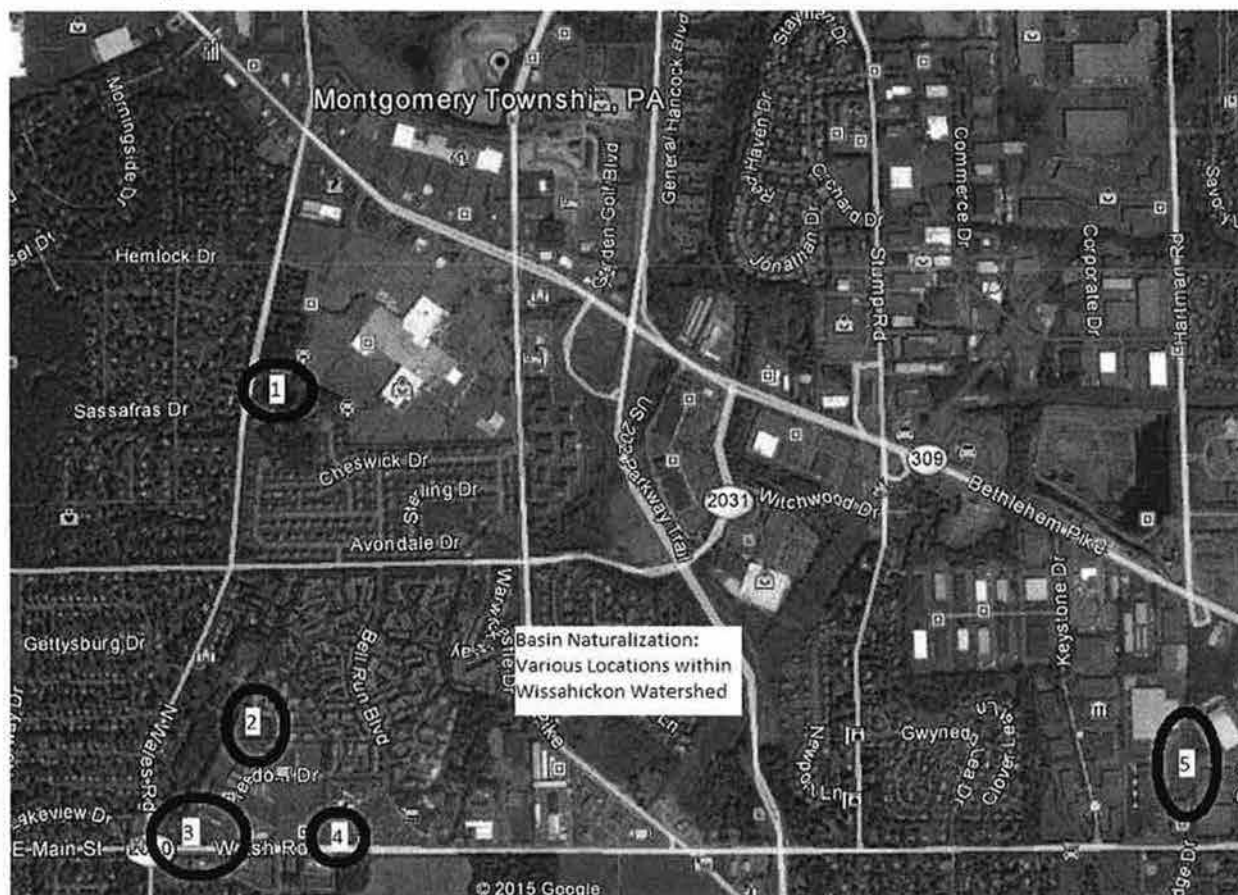
Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME		TP (lbs/year)	NO ₃ (lbs/year)
						(ac*ft)	TSS (lbs/year)		
Estimated*	0.5492	55	0.25	0.4	169	92.809	5104.50	23.20	37.12
Reduction**							4338.83	19.72	11.14

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 30% TN Reduction, 85% TP Reduction based on floodplain restoration in accordance with the PADEP BMP Manual.

Potential BMP Application for Wissahickon Creek: Basin Naturalization



The Wissahickon Creek Watershed has a few areas in Montgomery Township that drain into existing detention basins. These basins are currently operating as designed, but can be utilized as potential areas for Landscape Restoration. By naturalizing these basins, they will now serve a dual purpose, water retention as well as water quality enhancement. Further site investigations as well as partnerships with the owners of any private basins will have to be coordinated prior to any work being completed.

Estimated Pollutant Load and Reduction from BMP

LAND COVER CLASSIFICATION	ANNUAL RUNOFF (ft)	TSS EMC (mg/l)	TP EMC (mg/l)	NO ₃ EMC (mg/l)	TRIBUTARY AREA (ac)	RUNOFF VOLUME (ac*ft)	TSS (lbs/year)	TP (lbs/year)	NO ₃ (lbs/year)
Basin 1*	0.5492	55	0.25	0.4	35	19.22	1057.15	4.81	7.69
Basin 2*					25	13.73	755.10	3.43	5.49
Basin 3*					25	13.73	755.10	3.43	5.49
Basin 4*					40	21.97	1208.17	5.49	8.79
Basin 5*					40	21.97	1208.17	5.49	8.79
Total					165	90.61	4983.69	22.65	36.25
Reduction**							4236.13	19.26	10.87

*Approximate composite EMC values based on visual inspection of aerial photographs.

** Estimated 85% TSS Reduction, 30% TN Reduction, 85% TP Reduction based on landscape restoration in accordance with the PADEP BMP Manual.

APPENDIX F
PUBLIC COMMENT AND RESPONSES

MONTGOMERY TOWNSHIP BOARD OF SUPERVISORS
BOARD ACTION SUMMARY

SUBJECT: Consider Payment of Bills for October 26, 2015

MEETING DATE: October 13, 2015 ITEM NUMBER: #15.

MEETING/AGENDA: WORK SESSION ACTION XX NONE

REASON FOR CONSIDERATION: Operational: XX Information: Discussion: Policy:

INITIATED BY: Lawrence J. Gregan
Township Manager

BOARD LIAISON: Michael J. Fox, Chairman
of the Board of Supervisors

BACKGROUND:

Please find attached a list of the October 26, 2015 bills for your review.

ZONING, SUBDIVISION OR LAND DEVELOPMENT IMPACT:

None.

PREVIOUS BOARD ACTION:

None.

ALTERNATIVES/OPTIONS:

None.

BUDGET IMPACT:

None.

RECOMMENDATION:

Approval all bills as presented.

MOTION/RESOLUTION:

None.

DISTRIBUTION: Board of Supervisors, Frank R. Bartle, Esq.

Check Date	Bank	Check	Vendor	Vendor Name	Amount
Bank 01 UNIVEST CHECKING					
10/13/2015	01	62236	00000209	BOUCHER & JAMES, INC.	16,428.77
10/13/2015	01	62239	00001075	BROMM'S LULLABY FARM	7,020.00
10/13/2015	01	62240	00902974	EASTERN STATES INC.	1,200.00
10/13/2015	01	62241	00000903	HOME DEPOT CREDIT SERVICES	1,362.98
10/13/2015	01	62242	00000356	NORTH WALES WATER AUTHORITY	332.00
10/13/2015	01	62243	00000356	NORTH WALES WATER AUTHORITY	52.80
10/13/2015	01	62244	00000356	NORTH WALES WATER AUTHORITY	73.40
10/13/2015	01	62245	00906102	READY REFRESH	29.16
10/13/2015	01	62246	00001847	STAPLES CONTRACT & COMMERCIAL, INC.	368.22
10/13/2015	01	62247	00906008	STONERIDGE, INC.	161,558.74
10/22/2015	01	62248	00001756	EAST COAST EVENT GROUP INC.	550.00
10/22/2015	01	62249	00906143	PARTY BOUNCE RENTALS, LLC	1,309.00
10/22/2015	01	62250	00000408	REGINA E. SMITH	200.00
10/22/2015	01	62251	00906139	SCULLY WELDING SUPPLY CORP.	182.12
10/23/2015	01	62252	00000496	21ST CENTURY MEDIA NEWSPAPERS LLC	415.22
10/23/2015	01	62253	00905040	3M COGENT INC.	154.50
10/23/2015	01	62254	00000842	911 SAFETY EQUIPMENT	456.50
10/23/2015	01	62255	00002050	A TO Z PARTY RENTAL	669.75
10/23/2015	01	62256	00001370	A. BRUCE WEIKEL	60.00
10/23/2015	01	62257	MISC	ABINGTON INTEGRATIVE MEDICINE	64.59
10/23/2015	01	62258	00000006	ACME UNIFORMS FOR INDUSTRY	346.22
10/23/2015	01	62259	00001653	ADAM LION	4,000.00
10/23/2015	01	62260	00001875	ADVANCED COLOR AND GRIND LLC	3,300.00
10/23/2015	01	62261	00000340	ADVENT SECURITY CORPORATION	111.00
10/23/2015	01	62262	00001202	AIRGAS, INC.	189.84
10/23/2015	01	62263	MISC-FIRE	ALEXANDER J DEANGELIS	75.00
10/23/2015	01	62264	00906137	ALL A BOARD INC	4,106.00
10/23/2015	01	62265	00000443	ALL STATE DESIGN GROUP INC	641.25
10/23/2015	01	62266	00000523	AMERICAN FIRE SERVICES, LLC	4,270.65
10/23/2015	01	62267	MISC-REC	AMERIKICK MARTIAL ARTS CHALFONT	70.00
10/23/2015	01	62268	00000820	AMPRO	379.00
10/23/2015	01	62269	MISC-REC	AMY SHALONGO	70.00
10/23/2015	01	62270	00001866	ANGEL M. JOHNSON	379.20
10/23/2015	01	62271	MISC-REC	APRIL MERCADO	60.00
10/23/2015	01	62272	00000027	ARMOUR & SONS ELECTRIC, INC.	1,377.50
10/23/2015	01	62273	00000028	ASSOC. PENNSYLVANIA MUNICIPAL MGMT.	305.00
10/23/2015	01	62274	00000030	ASSOCIATED TRUCK PARTS	683.64
10/23/2015	01	62275	00001997	AUTOMATIC SYNC TECHNOLOGIES, LLC	49.88
10/23/2015	01	62276	00906105	BATTERIES & BULBS	36.99
10/23/2015	01	62277	00000043	BERGEY'S	665.73
10/23/2015	01	62278	MISC-FIRE	BILL WIEGMAN	90.00
10/23/2015	01	62279	00000072	CANON FINANCIAL SERVICES, INC	1,569.00
10/23/2015	01	62280	00000071	CANON SOLUTIONS AMERICA, INC.	110.65
10/23/2015	01	62281	MISC-FIRE	CARL HERR	15.00
10/23/2015	01	62282	00001601	CDW GOVERNMENT, INC.	3,480.00
10/23/2015	01	62283	00001601	CDW GOVERNMENT, INC.	3,506.17
10/23/2015	01	62284	MISC	CHARLES & ESTHER HUGHES	139.69
10/23/2015	01	62285	MISC-REC	CHERI PATEL	100.00
10/23/2015	01	62286	MISC-REC	CHICK-FIL-A	110.00
10/23/2015	01	62287	MISC-REC	CHIP PANICO	100.00
10/23/2015	01	62288	MISC-FIRE	CHRIS MAGEE	30.00
10/23/2015	01	62289	00906032	COLD CUTS MERCH	376.90
10/23/2015	01	62290	00906032	COLD CUTS MERCH	55.42
10/23/2015	01	62291	00000363	COMCAST	810.34
10/23/2015	01	62292	00000363	COMCAST	197.83
10/23/2015	01	62293	00000335	COMCAST CORPORATION	1,400.93
10/23/2015	01	62294	00001937	CONCOURS AUTOMOTIVE	373.57
10/23/2015	01	62295	00000329	CRAFCO, INC.	3,585.00
10/23/2015	01	62296	00001913	DANO ENTERPRISES, INC.	710.00
10/23/2015	01	62297	MISC-FIRE	DAVID P BENNETT	30.00
10/23/2015	01	62298	MISC-REC	DAVID WADE	90.00
10/23/2015	01	62299	MISC-FIRE	DAVID WOLFE	15.00
10/23/2015	01	62300	00000629	DAVIDHEISER'S INC.	180.00
10/23/2015	01	62301	00000118	DEL-VAL INTERNATIONAL TRUCKS, INC.	236.35
10/23/2015	01	62302	00000208	DELL MARKETING L.P.	209.98
10/23/2015	01	62303	00001172	DETLAN EQUIPMENT, INC.	127.85
10/23/2015	01	62304	00001520	DVIT - DELAWARE VALLEY INSURANCE	2,500.00
10/23/2015	01	62305	00000748	E.R. STUEBNER INC.	139,225.89
10/23/2015	01	62306	00000152	ECKERT SEAMANS CHERIN &	4,864.33
10/23/2015	01	62307	00002082	ECOMM TECHNOLOGIES	155.61
10/23/2015	01	62308	MISC-REC	ELIZABETH ASHLEY	90.00
10/23/2015	01	62309	00002047	ENVIRONMENTAL CONTROL SYSTEMS, INC.	585.00
10/23/2015	01	62310	00903110	ESTABLISHED TRAFFIC CONTROL	90.00
10/23/2015	01	62311	00000169	FEDEX	38.26
10/23/2015	01	62312	00002052	FOREMOST PROMOTIONS	640.00
10/23/2015	01	62313	00000180	FRANK CALLAHAN COMPANY, INC.	21.00
10/23/2015	01	62314	03214568	FULTON CARDMEMBER SERVICES	1,174.62

Check Date	Bank	Check	Vendor	Vendor Name	Amount
10/23/2015	01	62315	00001504	GALETON GLOVES	500.15
10/23/2015	01	62316	00000193	GEORGE ALLEN PORTABLE TOILETS, INC.	552.00
10/23/2015	01	62317	00906136	GEORGE T. BISEL CO., INC	183.24
10/23/2015	01	62318	MISC	GERALD AND BARBARA WINTERS	91.62
10/23/2015	01	62319	MISC-FIRE	GLEN ROETMAN	30.00
10/23/2015	01	62320	00001784	GOOGLE INC.	94.00
10/23/2015	01	62321	00000608	GOOSE SQUAD L.L.C.	675.00
10/23/2015	01	62322	03214570	GOT IT GET IT LLC	156.00
10/23/2015	01	62323	00001709	GOULDEY WELDING & FABRICATIONS, INC	165.30
10/23/2015	01	62324	00000060	GRAF ENGINEERING, LLC	1,250.00
10/23/2015	01	62325	00000229	GRAINGER	88.90
10/23/2015	01	62326	00000215	HAVIS, INC.	1,019.99
10/23/2015	01	62327	MISC-REC	HEATHER BERKEY	60.00
10/23/2015	01	62328	MISC-REC	HOLIDAY HOUSE PET RESORT	60.00
10/23/2015	01	62329	00000903	HOME DEPOT CREDIT SERVICES	10.88
10/23/2015	01	62330	00441122	HORSHAM CAR WASH	294.00
10/23/2015	01	62331	MISC	HRB TAX GROUP INC	283.39
10/23/2015	01	62332	00000787	INTERNATIONAL ASSOC. OF FIRE CHEIF	234.00
10/23/2015	01	62333	00000555	J & J TRUCK EQUIPMENT	199.04
10/23/2015	01	62334	MISC-REC	JAE YOUNG LEE	90.00
10/23/2015	01	62335	00002055	JAMES P. SMITH	1,000.00
10/23/2015	01	62336	00000735	JD BRAVO COMPANY	2,736.00
10/23/2015	01	62337	MISC-REC	JENNIFER SINGER	60.00
10/23/2015	01	62338	MISC-FIRE	JOE BIFOLCO	160.00
10/23/2015	01	62339	MISC-FIRE	JOHN H. MOGENSEN	60.00
10/23/2015	01	62340	MISC-REC	JOHN SCHAEFER	60.00
10/23/2015	01	62341	MISC-FIRE	JOSEPH J. SIMES	120.00
10/23/2015	01	62342	00003050	KATHI NEAL	128.00
10/23/2015	01	62343	MISC-REC	KATIE THOMPSON	70.00
10/23/2015	01	62344	00906123	KELLY FIRRIOLO	1,200.00
10/23/2015	01	62345	00906120	LISA M. VESPER	1,200.00
10/23/2015	01	62346	MISC-REC	LISA MARSLAND	70.00
10/23/2015	01	62347	MISC-REC	LONNIE KAPLAN, DPM	60.00
10/23/2015	01	62348	MISC	LORA JEAN GILBERT	1,200.00
10/23/2015	01	62349	00001706	LOWE'S COMPANIES INC.	170.41
10/23/2015	01	62350	00000354	MAD SCIENCE OF WEST NEW JERSEY	119.00
10/23/2015	01	62351	00000687	MARLANE GRAPHICS, INC.	680.00
10/23/2015	01	62352	MISC-FIRE	MARY NEWELL	90.00
10/23/2015	01	62353	MISC-FIRE	MATT SHINTON	30.00
10/23/2015	01	62354	MISC-REC	MATTHEW GENTILE	100.00
10/23/2015	01	62355	MISC-REC	MAUREEN BOWEN	20.00
10/23/2015	01	62356	MISC-REC	MELISSA SMITHERS	35.00
10/23/2015	01	62357	00906122	MERGEN CO, INC.	300.00
10/23/2015	01	62358	MISC-FIRE	MICHAEL D. SHINTON	40.00
10/23/2015	01	62359	MISC-FIRE	MICHAEL SHEARER	15.00
10/23/2015	01	62360	MISC-FIRE	MIKE BEAN	30.00
10/23/2015	01	62361	00000789	MINISCALCO CONSTRUCTION, LLC	35,589.40
10/23/2015	01	62362	MISC-REC	MITESH PATEL	70.00
10/23/2015	01	62363	00000326	MONTGOMERY COUN.Y	47.55
10/23/2015	01	62364	00000324	MOYER INDOOR / OUTDOOR	142.00
10/23/2015	01	62365	MISC-REC	MR. JAMES SHEA	16.00
10/23/2015	01	62366	MISC-REC	MRS. LISA SIEGEL	20.00
10/23/2015	01	62367	00000321	MUSCO CORPORATION	4,830.32
10/23/2015	01	62368	00001535	NORRIS SALES COMPANY INCORPORATED	78.01
10/23/2015	01	62369	MISC-REC	NORTH PENN NURSING MOTHERS	30.00
10/23/2015	01	62370	00000376	NORTH PENN SCHOOL DISTRICT	1,200.00
10/23/2015	01	62371	00001134	OFFICE DEPOT, INC	310.57
10/23/2015	01	62372	00906131	PANGARO TRAINING	369.00
10/23/2015	01	62373	MISC-REC	PATTY DIFONDI	60.00
10/23/2015	01	62374	MISC-FIRE	PAUL R. MOGENSEN	90.00
10/23/2015	01	62375	MISC-FIRE	PAUL SMITH	20.00
10/23/2015	01	62376	00000397	PECO ENERGY	7,698.80
10/23/2015	01	62377	00000399	PECO ENERGY	9,344.50
10/23/2015	01	62378	00000595	PENN VALLEY CHEMICAL COMPANY	431.49
10/23/2015	01	62379	00000447	PETTY CASH - POLICE	199.46
10/23/2015	01	62380	MISC-FIRE	PHIL STUMP	30.00
10/23/2015	01	62381	00001791	PHILADELPHIA PROTECTION BUREAU, INC	628.00
10/23/2015	01	62382	00001158	PITNEY BOWES	1,466.11
10/23/2015	01	62383	00000514	POSTMASTER	98.00
10/23/2015	01	62384	00001055	PROMO DIRECT	529.50
10/23/2015	01	62385	MISC-FIRE	RACHEL TROUTMAN	115.00
10/23/2015	01	62386	00906102	READY REFRESH	160.27
10/23/2015	01	62387	MISC-REC	REBECCA PAGE	20.00
10/23/2015	01	62388	00001146	RESERVE ACCOUNT	1,500.00
10/23/2015	01	62389	00000117	RIGGINS INC	1,018.67
10/23/2015	01	62390	00906121	ROBERT C. LEONARD JR.	1,200.00
10/23/2015	01	62391	MISC-FIRE	ROBERT MCMONAGLE	30.00
10/23/2015	01	62392	00906119	ROBERT WAGNER	5,323.55
10/23/2015	01	62393	MISC-FIRE	RYAN CROUTHAMEL	15.00
10/23/2015	01	62394	00000452	S&S WORLDWIDE	437.98
10/23/2015	01	62395	00000653	SCATTON'S HEATING & COOLING, INC.	1,809.82

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User: msanders
DB: Montgomery Twp

CHECK REGISTER FOR MONTGOMERY TOWNSHIP
CHECK DATE FROM 10/13/2015 - 10/26/2015

Page: 3/3

Check Date	Bank	Check	Vendor	Vendor Name	Amount
10/23/2015	01	62396	00000713	SETON IDENTIFICATION PRODUCTS	164.55
10/23/2015	01	62397	00000153	SHANNON DROSNOCK	2,719.92
10/23/2015	01	62398	MISC-REC	SHANNON WIELOCH	72.00
10/23/2015	01	62399	00906135	SRM ENTERTAINMENT GROUP LLC	128.00
10/23/2015	01	62400	00001847	STAPLES CONTRACT & COMMERCIAL, INC.	636.63
10/23/2015	01	62401	00001847	STAPLES CONTRACT & COMMERCIAL, INC.	65.98
10/23/2015	01	62402	00000636	STAPLES CREDIT PLAN	172.88
10/23/2015	01	62403	MISC-FIRE	STEVE SPLENDIDO	15.00
10/23/2015	01	62404	00000939	SUNGARD PUBLIC SECTOR	8,784.26
10/23/2015	01	62405	MISC-REC	THAO HOANG	100.00
10/23/2015	01	62406	00906115	THOMAS J. MORRIS III	5,992.50
10/23/2015	01	62407	00000327	U.S. MUNICIPAL SUPPLY INC.	7,650.54
10/23/2015	01	62408	00906126	U.S. TOY CO	125.68
10/23/2015	01	62409	00002062	UNITED ELECTRIC SUPPLY CO., INC.	100.70
10/23/2015	01	62410	00000040	VERIZON	136.07
10/23/2015	01	62411	00000170	VERIZON COMMUNICATIONS, INC.	369.97
10/23/2015	01	62412	00906145	VETERINARY SPECIALISTS & EMERGENCY	288.30
10/23/2015	01	62413	00903114	VICKI SOUDER	436.80
10/23/2015	01	62414	MISC	VILLAGE OF NESHAMINY FALLS	11.09
10/23/2015	01	62415	MISC-FIRE	VINAY SETTY	125.00
10/23/2015	01	62416	MISC-FIRE	VINCE ZIRPOLI	90.00
10/23/2015	01	62417	00001329	WELDON AUTO PARTS	318.81
10/23/2015	01	62418	00906114	WILLIAM SHOULDIS	1,000.00
10/23/2015	01	62419	00001084	WITMER ASSOCIATES, INC.	228.72
10/23/2015	01	62420	00003003	YANAE I. SAVAGE	72.80
10/23/2015	01	62421	00000550	ZEP MANUFACTURING COMPANY	662.45

01 TOTALS:

Total of 185 Disbursements:

501,827.61

10/21/2015

Check List

For Check Dates 10/13/2015 to 10/26/2015

Check

Date	Name	Amount
10/14/2015	STATE OF PA	State Tax Payment \$ 8,352.01
10/22/2015	PA SCDU	Withholding Payment \$ 2,717.28
10/22/2015	STATE OF PA	State Tax Payment \$ 8,189.72
10/22/2015	BCG 401	401 Payment \$ 14,020.78
10/22/2015	BCG 457	457 Payment \$ 9,992.96
10/22/2015	PBA	PBA Payment \$ 811.71
10/22/2015	UNITED STATES TREASURY	IRS Tax Payment \$ 77,172.27
Total Checks: 7		\$ 121,256.73