

Radnor Township
Stormwater Management Advisory Committee (SWMAC)
Agenda
7:00pm, Thursday, February 9, 2017



1. Call to Order.
2. Pledge of Allegiance.
3. Review / approve meeting minutes of January 12, 2017 SWMAC Meeting.
(5 minutes)
4. Public comment.
(10 minutes)
5. Township Wide Assessment - Presentation of final results (CH2M).
(60 minutes)
6. Consider recommendation to BoC that an RFP be put out for MS4 permitting.
(5 minutes)
7. Consider recommendation to allow for select RFP for Maplewood, which would include three conceptual plans with estimated costs.
(5 minutes)
8. Overview of possible changes to role of SWMAC, to be discussed in the BoC Public Works Subcommittee meeting on February 15, 2017, with review of SWMAC accomplishments to date.
(15 minutes)
9. Updates on: Banbury Francis project design, Highview project, Mill Dam research status, interviews for Stormwater Administrator, Sacred Heart wetlands rehabilitation.
(20 minutes)
10. Set the date and time for the next meeting and adjourn.

MEMORANDUM SWMAC – 2017 -01

TO: RADNOR TOWNSHIP BOARD OF COMMISSIONERS
FROM: RADNOR TOWNSHIP STORMWATER MANAGEMENT ADVISORY COMMITTEE
SUBJECT: SWMAC RECOMMENDATIONS – RFPs FOR MS4
DATE: FEBRUARY 9, 2017
CC: FILE

SWMAC has reviewed the services outlined in an MS4 proposal, prepared by CH2M, dated August 9, 2016. CH2M's proposal indicated a total cost of **\$167,365** for the outlined MS4 engineering services for the 4th quarter of 2016 and the year 2017. The proposal is attached for your reference.

SWMAC determined that the cost was exceedingly high for the scope of work. SWMAC requested a revised proposal that was more cost effective. CH2M therefore prepared a revised proposal with a total cost of **\$82,886**, dated November 8, 2016. The revised proposal outlined a reduction in cost as well as a reduction in scope of work. There are some book keeping/ paperwork type tasks that SWMAC could complete that would help to meet the MS4 requirements. However, there are other tasks that were eliminated from the revised proposal, such as inspections/GIS locating of all outfalls within Radnor Township. Tasks such as these would then be the responsibility of Township staff to complete.

SWMAC is therefore recommending to the BOC that RFPs be immediately initiated for engineering services to meet/prepare the latest requirements of the MS4 permit. To expedite the RFP process, SWMAC recommends that Steve Norcini advise the BOC/Township of a short list of qualified engineering firms from which to request proposals. The latest MS4 permit is due in September 2017 and the PRP (Pollutant Reduction Plans) are due in August 2017. The latest MS4 permit requires a 45-day public comment period prior to submission this fall.

SWMAC is requesting that the BOC approve our recommendation at the February 13, 2017 BOC Meeting. SWMAC will review the MS4 proposals immediately and vote on a qualified firm at the next SWMAC meeting. SWMAC would then recommend that the BoC authorize that the chosen qualified firm prepare the MS4.



TO: RADNOR TOWNSHIP BOARD OF COMMISSIONERS
FROM: STORMWATER MANAGEMENT ADVISORY COMMITTEE (SWMAC)
SUBJECT: SWMAC RECOMMENDATION – RFP FOR MAPLEWOOD OUTFALL PROJECT
DATE: FEBRUARY 9, 2017
CC: FILE

The Maplewood Outfall Project is a repair project near Odorisio Park involving a Township storm sewer pipe outfall into a swale. The swale, which runs through a residential area, has significant erosion issues. The swale condition will continue to deteriorate until repair/remedial work is performed for the outfall, the swale or both.

The Maplewood Outfall Project currently appears on the SWMAC budget as a pending repair after 2021. However, it has come to the attention of SWMAC that the project may warrant a higher priority. As a first step toward addressing the Maplewood Outfall, potential repair options need to be identified. Therefore, SWMAC is recommending to the Board of Commissioners (BoC) that Steven Norcini be authorized to put out an RFP to select firms (of his choosing) for three conceptual repair options with estimated costs for design and construction.

SWMAC requests that the BoC authorize Steven Norcini to request proposals from select firms at the BoC's February 13, 2017 meeting.



SWMAC Accomplishments (draft as of 1/29/17)

Independent, creative committee reporting to the Board of Commissioners with a goal of spending stormwater fees most effectively to reduce township-wide stormwater flooding

Committee wants to stress that these accomplishments were only possible by closely working with Steve Norcini and Dan Wible from CH2M.

Administration and budget

- Working with Steve Norcini, selected township SW administrator and technical consultant (Dan Wible, CH2M) (2015)
- Instituted monthly tracking of repair and capital project status (2016)
- With Steve Norcini, created list of prioritized repair projects with estimated costs (2016)
- Recommended to BoC (and BoC accepted) restricting repair spending at 20% of total budget and tracking this (2016-2017)
 - Prior to this recommendation and subsequent monitoring, repair spending was consuming most of yearly SW budget.
- Created 5-year budget that advances one capital spending project every two years, one repair project each year and meets repair spending goal of approximately 20% by 2019 (2015-2017)

SW infrastructure improvements

- At the request of the BOC, developed an engineering based process to assess the flooding issues in the Township with the goal of completing a prioritized list of SW Capital improvement projects.
- An initial pilot study was done of the Ithan Creek Watershed which produced a model to be followed for a township wide assessment and also identified the first new Capital Improvement Project (Banbury-Francis). The Township Wide SW engineering assessment being delivered this month provides a fact based, long-term blueprint for improving SW via targeted capital improvement spending.
 - BoC approved Ithan Creek modeling efforts in 2015
- Used Ithan Creek modeling to
 - show proposed Runnymede Ave retention system not cost effective (2016)
 - Proposed middle school connector project
 - BoC rejected due to low cost/benefit (2016)
 - Select first capital improvement project (Banbury/Francis Way).
 - BoC approved in 2015
- Proposed township-wide modeling assessment to choose most cost-effective SW improvement projects for township
 - BoC approved in 2015
 - Evaluations included:
 - Identifying flood-prone areas throughout the township and matching to model output
 - Recommending survey of township emergency services for problematic flooding areas
 - Currently in final phase
 - Expect prioritized list of projects to be assembled in 2017

SW infrastructure repairs

- Provide BoC with independent technical advice about repair spending priorities and project choice. This includes
 - Created prioritized spending plan for repair projects
 - Currently 10 projects completed, in progress, or to be completed
 - Recommended program to clean/televise/map storm sewer systems in township
 - BoC approved in 2014
 - Completed in 2016, awaiting final report by S. Norcini
 - Identified proposed repair project that was not SW-related (Mill Dam, \$250K) (2016)

- Identified portions of proposed culvert repair projects outside SW-associated costs (\$422K) (2016)
 - Included site visits inspecting five culverts to determine extent of damage and distinguish between SW and non-SW repairs
- Recommended modeling of N. Wayne Basin options to choose most cost-effective way to deal with flooding in that area (2016)

Credits/Incentive program

- Completed nationwide survey of credits/incentive programs to determine best residential and ODP programs for Radnor (2015)
- Recommended residential incentives program to BoC
 - BoC approved in 2015
 - Should be reevaluated in 2017 to determine ways to get more participation
- Examined possibility of credits program for ODP properties using data from nationwide survey
 - Chose to target credits to flood-prone areas as part of capital projects

SW Policy

- Provide dedicated forum for discussions of potential capital improvement projects
- Forum to discuss general principles for township use of SW fees. Topics discussed included:
 - Spending on public vs private land
 - Relative spending on repairs and capital improvements
- Future planned discussions include:
 - Water quality improvement and/or flooding control
 - Weighing ward project focus
 - Really just starting this

Public outreach and discussion

- Provide public forum for township residents and businesses to document and present their flooding issues
 - Includes Godfrey Rd, Arbordale/ Oakford Ave, Cumberland Place, Clark School/Sacred Heart School (Roberts Rd)
- Allow for documented, transparent, fact-based discussions of SW issues

Exploring partnership opportunities

- Private (Sacred Heart)
- PENNDOT
- DVRPC
- Other townships – part of charter, none undertaken so far, need commissioner to initiate discussions
- SEPTA Train Station - north side
- Growing Greener grant ideas from DEP
- Radnor Environmental Advisory Council
- Library expansion

Regulatory requirements

- MS/4
 - Provide opportunities to meet MS/4 requirements using proposed capital and repair projects
 - Unique mix of free expertise that cannot be easily replicated
- Stormwater ordinance revision
 - Working with Gannett-Fleming, provided BoC with list of recommended changes to current stormwater ordinance