

## SANITARY SEWER STATUS UPDATE

August 31, 2016

PWD Timeline per agreement dated March 19, 2014 – no longer applicable as agreement timeline has been temporarily suspended for preparation of the I/I plan. The I/I Plan will be added as an option in the revised agreement.

### Options evaluated:

1. Interceptor – Evaluation of a sanitary sewer interceptor through Philadelphia per PWD direction to connect to a point downstream of their limiting pipe. DEP is not in favor of this option. PWD supports this option.
2. Equalization Tank – Evaluation of potential EQ sites and potential for EQ tank to control flows to 18 cfs per PWD direction. DEP is not in favor of this option. PWD supports this option.
3. Inflow/Infiltration reduction and diversion – Evaluation of substantial and concentrated reduction of I/I and flow diversion to other municipalities or PWD sewer line as directed by DEP. PWD has expressed concern that flows will not be able to be reduced enough to meet the 18 cfs limit, and even if they can be, it would not be able to occur within the remaining Timeline period. Evaluation expected to be completed in Nov. or Dec. 2015 depending on input from agencies.

### Key Dates:

PWD agreement signed – 3/19/14

Options 1 and 2 evaluated – April 2014 to October 2014

Act 537 Plan submitted to DEP – 10/8/14

Meeting with DEP to discuss Option 2 and 3 evaluation – 12/12/14

Meeting with DEP where Option 3 was requested – 12/17/14

Act 537 Plan withdrawn per DEP request – March 2015

Option 3 evaluation started – February 2015

System Model sent to PWD on September 2, 2015

### Meetings:

Progress Meetings held: April 7, 2015, May 5, 2015, June 16, 2015, July 16, 2015 and October 15, 2015 with DEP, Jenkintown, and Abington

Conference calls with PWD: August 5, 2015, September 1, 2015, October 8, 2015

Progress Meeting October 15, 2015 with DEP, PWD, and Abington (Jenkintown absent due to emergency) – discussion brought all parties up to speed on all aspects of evaluation since some had not been at all of the meetings. Discussed the concept of diversion and projected I/I reduction to meet 2021 date. PWD's staff reviewed diversion and found that diversion could not occur at the Township line since the pipes accepting flow

already had capacity issues – diverted flows could not enter the system until some distance further into the City. ARRO's I/I reduction modeling is not putting Township close to the 18cfs on its own. DEP agreed that intense I/I reduction and an EQ tank and seemed to be the only answer. They stated that the Township should do some intense I/I work prior to sizing the tank to try to keep the tank as small as possible. DEP indicated the Township would likely be under a consent decree with the tank. DEP agreed to send a letter to the Township shortly after the meeting once they had a chance to determine if this would be handled as 537 planning or as a CAP matter.

Township Planning Meeting November 12, 2015 with staff, consultants, and select Commissioner group to discuss 10-year plan for I/I Identification and Remediation.

Presentation by Township Engineer's office to Public Works Committee January 13, 2016 to outline proposed neighborhood I/I remediation work.

Meeting held with USACE, DEP and Township on January 28, 2016 to review and discuss requirements for archaeological Phase 1 study required for Chapter 105 Joint Permit for the Interceptor A replacement project.

Technical Presentation on Micro-monitoring on January 28, 2016 attended by Cheltenham, Abington, Jenkintown, and PADEP staff to review methodology and benefits of short-term localized low-flow sewer metering. This technology will allow the Township to narrow down the high I/I areas within the larger neighborhood drainage basins thereby reducing repair costs, saving time, and maximizing repair benefits.

Progress Meeting February 3, 2016 with DEP, PWD, Abington, and Jenkintown to discuss completion of the Act 537 Plan including selection of Option 3. PWD agreed to suspend the current agreement deadlines and to evaluate a new agreement with Cheltenham. Cheltenham has requested a 10-year time line for the I/I removal work, PWD would like an 8-year time line. DEP will be hosting a series of Technical Meetings with all parties to prepare the detailed I/I plan and milestones which will then be incorporated into the Act 537 Plan and the new agreement with PWD. The first meeting is set for February 10, 2016.

Technical Meetings held February 10<sup>th</sup> and 24<sup>th</sup> with DEP, Abington, and Jenkintown. In depth discussions regarding the preparation of the detailed I/I plan. First draft of the plan was submitted to DEP on February 19<sup>th</sup>. Next draft is expected to be sent on March 7<sup>th</sup>. Additional technical meetings are set for March 9<sup>th</sup> and 23<sup>rd</sup> and April 6<sup>th</sup>. PWD is expected to attend the meeting on the 9<sup>th</sup>.

During the week of February 22, ten (10) micro-monitoring (short-term, low flow) sewer meters were installed within the Cheltenham Village project area. Six (6) additional regional sewer meters were installed in the Cheltenham Village, Glenside, Wyncote, and Melrose Park East project areas. This brings the total number of regional meters to nineteen (19). It is anticipated that a number of the meters which have been in place and collecting data on Interceptor A for the past 12-18 months will be relocated in the near future.

Technical Meetings held March 9<sup>th</sup> and 23<sup>rd</sup> and April 6<sup>th</sup> with DEP, PWD, Abington, and Jenkintown. In depth discussions continued regarding the preparation of the detailed I/I plan and status of the CAP. Additional technical meetings are set for April 20<sup>th</sup> (if needed) and May 4<sup>th</sup>. A final version of the I/I Plan will be distributed for review and discussion at the May 4<sup>th</sup> meeting. It will be determined at that time if any additional technical meeting dates will be required.

Micro-monitoring sewer meters were removed from Cheltenham Village area on April 19<sup>th</sup>. Several regional meters that have been on Interceptor A for the past 12-18 months will be removed this week and relocated to new metering areas the week of May 9<sup>th</sup>.

Technical Meeting held May 4<sup>th</sup> with DEP, PWD, Abington, and Jenkintown. The I/I Plan is now called the "Corrective Action Plan" (CAP) per DEP. Detailed discussions continued on the latest version of the plan which had been distributed to the group on April 27<sup>th</sup>. DEP and PWD have asked for more revisions. It was also discussed that the 537 Plan does not need to be completed yet. The new CAP will be referenced in the 537 Plan once both are completed. The next meeting will be held on June 1<sup>st</sup>. A revised draft CAP will be issued to the group on or about May 25<sup>th</sup>.

Presentations and discussions on a new sanitary sewer lateral ordinance and upcoming repair projects were held at the Public Works Committee meeting on May 11<sup>th</sup> and the Board of Commissioners meeting on May 18<sup>th</sup>.

Revised CAP issued to the technical group on May 25<sup>th</sup>. The meeting on June 1<sup>st</sup> has been postponed until June 9<sup>th</sup> at PWD's request.

Technical Meeting held June 9<sup>th</sup> with DEP, PWD, Abington, and Jenkintown. DEP and PWD were unhappy to learn that the original lateral ordinance had been tabled and a new "time of sale or transfer" ordinance was being drafted. They stated that a transfer type of ordinance is for a 50-year plan, not the 8-year plan for I/I reduction that was required to be under preparation. DEP stated that connections will likely be capped. Staff will meet with PWD to discuss additional sewer meter locations and expected methodology for

analysis of collected data. Smoke testing to be added to all project areas. A final CAP meeting is anticipated in early August.

Staff met with PWD on June 15<sup>th</sup> to discuss detailed metering data and analysis methodology that PWD wants to see as projects progress. CAP revisions are being made with the revised Plan expected to be issued to the technical group by August 1<sup>st</sup>. A Technical Meeting is scheduled for August 3<sup>rd</sup> with DEP, PWD, Abington, and Jenkintown.

Revised CAPs issued on August 2<sup>nd</sup> and 22<sup>nd</sup>.

Technical Meetings held on August 3<sup>rd</sup> with DEP, PWD, Abington, and Jenkintown and on August 24<sup>th</sup> with DEP, Abington and Jenkintown. DEP stated that the CAP is still too ambiguous with respect to the private portion of the sanitary sewer system and they need to see a more comprehensive approach on the lateral rehabilitation subject before they can approve the Plan. They reminded the Township that their goals are to “get a good written plan” and for the Township to “get the work started”. There was much discussion on the subject of private laterals and the scope of the upcoming project in Cheltenham Village. Next meeting is tentatively set for October 5<sup>th</sup> (after the public sewer meeting on September 28<sup>th</sup>).

Copy of a letter to PHMC from USACE dated August 15<sup>th</sup> has been received. USACE indicated that they determined the proposed Interceptor A (Phases 2A, 2B, 3 and part of 4) project will have “No Adverse Effect” on the archaeological sites evaluated by CHRS, Inc. on behalf of the Township. As a result, we anticipate the issuance of the Joint Permit shortly. Once that is received, the project can go to bid.

Total expenditure 2000-2006: \$ 1,539,697.59

Total expenditure 2007-2016: \$16,469,839.39\*

\*also \$7.5M borrowed but not yet spent for Interceptor A Ph. 2A, 2B, 3 and part of 4 work