

## RE: Weston & Sampson Infrastructure Update for BOT Meeting - September 15, 2021

Zongol, Joseph <zongolj@wseinc.com>

Tue 9/14/2021 5:21 PM

To: David McFadden <dmcfadden@tuxedopark-ny.gov>; Tinka Shaw <tshaw@tuxedopark-ny.gov>

Cc: John Ledwith <jledwith@tuxedopark-ny.gov>; Elizabeth Doherty <edoherty@tuxedopark-ny.gov>; Stone, Carl W. <stonec@wseinc.com>; Budrow, Jeffery <Budrowj@wseinc.com>; Hawley, Joshua <Hawley.Joshua@wseinc.com>

Good afternoon,

As an update to one of the active projects:

- **SSES Phase 3, Sub-Basins 2 & 10 Post Construction Flow Isolation:** Flow isolation was conducted in April. Upon receipt of the information, it was discovered that additional sections need to be isolated. We are working with the sub to remobilize to get the remaining sections (within our contract budget). We will coordinate this effort through the Village. **Follow-up flow isolation was conducted Monday night into Tuesday morning, September 13-14 (11:00 pm to 6:00 am). We expect to get the written results in the next few days at which time we will finalize our report to the DEC on the effectiveness of the SSES program within these sub-basins. My staff report the flow isolation values were favorable, showing the lining was successful. There are two manholes (not part of the recent construction) that will need new gaskets between their precast concrete joints but this is something that DPW should be able to easily handle. More details to follow on that front.**

Thanks,  
Joe



direct: 518-463-4400 ext. 6504

cell: 860-919-6876

---

**From:** Zongol, Joseph

**Sent:** Thursday, September 9, 2021 2:37 PM

**To:** David McFadden <dmcfadden@tuxedopark-ny.gov>; 'Tinka Shaw' <tshaw@tuxedopark-ny.gov>

**Cc:** John Ledwith (jledwith@tuxedopark-ny.gov) <jledwith@tuxedopark-ny.gov>; Elizabeth Doherty <edoherty@tuxedopark-ny.gov>; Stone, Carl W. <stonec@wseinc.com>; Budrow, Jeffery <Budrowj@wseinc.com>; Hawley, Joshua <Hawley.Joshua@wseinc.com>

**Subject:** Weston & Sampson Infrastructure Update for BOT Meeting - September 15, 2021

**Importance:** High

Hi David and Tinka,

Provided below is our list of active and pending project updates and statuses to share with the BOT along with pending proposals:

### Pending Proposals:

- Tuxedo Lake Water Main Final Design and Permitting (attached)
- DPW Relocation Programming Study and Site Sketch (attached)
- Summit Road Retaining Wall Evaluation and Design (attached) (note the bulk of the proposal is the geotechnical investigation which is crucial to diagnosing the underlying issues with the existing wall and prepare a design to avoid those issues from persisting after the wall is rebuilt).
- EPA Clean Water Act Administrative Compliance Act Sewer O&M Manual (attached)
- Asbestos Variance renewal (attached)
- Stormwater System GIS Mapping (attached but can be modified to meet Village's needs)

### Action Items:

- **Tuxedo Lake Water Main Replacement Grant Support:** We have completed the necessary available grant support applications and provided the Village with the design drawings along with the Engineer's Report. There are a few items that will require Village input as part of a grant submittal. Once the grants application acceptance period is announced, we'll reach out to the Village to get this resolved. EFC grant application periods are typically at the end of August. Attached is a proposal for the final design and permitting of the project so it will be ready to go in the event of an emergency break or grant funds becoming available.  
*Action Item: Please review and consider the attached propose if the Village would like to progress the project through the permitting phase. We are continuing to monitor EFC, the grant application period is not yet open.*
- **DPW Structural Assessment:** A draft report was provided to the Village on December 23, 2020.  
*Action Item: We are awaiting Village feedback to finalize the report to closeout this project. John has address some of the issues identified within the report. We recommend that the Village consider relocating the salt storage from within the building as this is causing structural deterioration of the building and will reduce it's lifespan. Some suggested locations would be elsewhere at the DPW site or at the WWTP. We met with Village officials last month to discuss relocation of the DPW and Village Hall to a location adjacent to the WWTP. Attached is a proposal to prepare a site sketch for that site which could include repurposing of the administrative building at the WWTP to maximize the Village's existing assets.*
- **Asbestos Pipe Variance:** NYS DOL has issued a Variance to the Village conduct repairs to asbestos containing water mains which is good through **October 31, 2021**, at which time it'll need to be renewed. A condition of the variance includes having a certified monitoring company preform air monitoring while working on asbestos containing materials and a certified abatement company conduct the removal and disposal of the AC pipe. Weston & Sampson provided the Village with a list of contractors that can preform this work.  
*Action Item: If it hasn't been done already, we recommend that the Village solicit for or designate contractors for on-call emergency asbestos pipe removal and disposal and air monitoring services so if/when another break occurs, Jeff and John have a plan in place to mobilize these firms immediately, as necessary. Attached is a proposal to renew the variance with the DOL which expires October 31, 2021. We will need time to re-apply prior to that date which is why we have provided this proposal for the September meeting.*
- **District Area Water Meters:** To help diagnosis the water loss reported by the Village (which was also cited in the OCDOH's WTP Notice of Violation), we have been asked to work on plan to help the Village target the locations of potential leaks to cost effectively investigate those areas. We are researching breaking down the system into sub-areas to assess where further evaluation is needed. We have identified and provided quotes for water flow meters that can be installed by the DPW via corporation taps on into your water mains in strategic areas that would isolate sub-areas of the Village's water system. We have also provided a quote from a local contractor to conduct the wet taps. The intent is to install these temporary,

removable water meters within a temporary manhole using HDPE pipe and manhole covers (items that should be available at the DPW). After one billing quarter, we would compare the meter readings to billed usage in the area. This will be used as a basis to determine if further leak detection should be pursued within this sub-area. This approach was discussed with John Ledwith, Tinka Shaw, and Jeff Voss last Friday (7/9).

**Action Item:** *We are seeking formal Village direction as to if this is a project you wish to pursue and what level of support you would like from W&S.*

- **Water System Pressure Analysis:** During the same call mentioned above (7/9), we discussed reviewing the Village's water system to identify areas prone to breaks. We requested the Village provide a map showing where breaks have occurred over the past few years. Weston & Sampson would then provide a proposal to review the existing water model we maintain to model system pressures and compare them to the age, material, and vintage of pipe to determine if the pressures experienced exceed the pipe's capacity. This would help develop a plan to proactively address vulnerable parts of the system and prepare a capital plan to address issues in a planned fashion rather than on an emergency basis which is much more expensive.

**Action Item:** *We are seeking formal Village direction as to if this is a project you wish to pursue and what level of support you would like from W&S. We also request a map showing the locations of water main breaks over the past few years.*

- **East Village Water Main:** During the same call mentioned above (7/9), we discussed re-engaging in conversations with NYSDOT and MNR to discuss relining the transite (asbestos cement) section of the East Village water main opposed to relocating it as previously designed. The NYSDOT and MNR would not allow a new pipe to be installed in the drainage culvert where the current pipe resides. Since there are now new potable water lining systems, a rehabilitation in place option may be permissible by NYSDOT and MNR, especially if new permitting officers are in place.

**Action Item:** *We are seeking formal Village authorization to engage in dialogue with these agencies if the Village wanted to pursue this project. If so, this could potentially be included within an EFC grant application along with the Tuxedo Lake project when grant funds become available which is typically the end of August but have yet to be announced for this year. We will continue to monitor for grant opportunities.*

#### Project Updates:

- **SSES Phase 3, Sub-basins 2 & 10 Construction:** The contractor has reached substantial completion as of February 22, 2020. A Certificate of Substantial Completion has been issued and Change Order No. 3 is pending EFC approval which provides the Village with a credit of \$82,202 for unit price items not used. The original contract price was \$451,552 and with acceptance of Change Order No. 3, bring the contract value down to \$294,925, allowing for a credit of \$156,627 that could potentially be used for trunk sewer repairs. **We are awaiting formal EFC approval of the change order. We reached out to the EFC and it is pending supervisor approval.**
- **SSES Phase 3, Sub-Basins 2 & 10 Post Construction Flow Isolation:** Flow isolation was conducted in April. Upon receipt of the information, it was discovered that additional sections need to be isolated. We are working with the sub to remobilize to get the remaining sections (within our contract budget). We will coordinate this effort through the Village. **Follow-up flow isolation was rescheduled and is anticipated the week of September 13-17 at night (11:00 pm to 6:00 am). Updates to follow when I have confirmed schedules from the subconsultant.**
- **Trunk Sewer Investigation:** We have finalized our sub-contractor agreement with the CCTV sub and are coordinating their availability. We hope to conduct this work in the next few weeks. We will coordinate this effort through the Village. **The CCTV sub is juggling their schedule and had some COVID delays but we are planning on having the work completed by the end of October. If the Village DPW can locate missing or paved manholes, that would help expedite the field work.**

- **Water Treatment Plant OCDOH Notice of Violation Support:** A response letter was provided to the DOH by the Village a few months ago. The Village is awaiting feedback from the DOH. We have provided the Village with documents to support responses to DOH comments 1 & 3, per our contract. To address comment No. 1, we provided Jeff Voss with a SUVA Compliance Protocol via email on January 19, 2021 and implementation should be underway. To address comment No. 3, we provided the Village with a Draft Engineer's Assessment of the WTP. Within this document we provided a recommended upgrade to the WTP to bring the plant into compliance with contact time requirements. Please note, the Engineer's Assessment includes a modest upgrade to the WTP, so if accepted by the DOH, we can provide a proposal to the Village to fully design the proposed upgrades. **No response received by the DOH to-date that we are aware.**

Thank you,

**Joseph M. Zongol, P.E.**

ASSOCIATE / TEAM LEADER

APWA CAPITAL BRANCH CHAIRMAN

direct: 518-375-2109

cell: 860-919-6876



Weston & Sampson, PE, LS, LA, PC

1 Winners Circle, Suite 130 | Albany, NY 12205

tel: 978-532-1900

[westonandsampson.com](http://westonandsampson.com)

[Facebook](#) | [Twitter](#) | [LinkedIn](#)



The contents of this e-mail and any attachments are the property of the Weston & Sampson companies. The e-mail contents are only to be used by the intended recipient of the e-mail. If you are not the intended recipient, then use, disclosure, copying, distribution or reliance on the e-mail is prohibited. All professional advice from us should be obtained in writing (not e-mail).