STORM WATER COMMITTEE MINUTES MARCH 2, 2021

The Storm Water Committee meeting was held on March 2, 2021 at North Royalton City Hall, 14600 State Road. The meeting was called to order at 6:32 p.m.

PRESENT: <u>Committee Members</u>: Chair Jessica Fenos, Vice Chair Vincent Weimer, Linda Barath; <u>Council</u>: Paul Marnecheck, Jeremy Dietrich, Michael Wos; Joanne Krejci <u>Administration</u>: Mayor Larry Antoskiewicz, Law Director Thomas Kelly, City Engineer Justin Haselton, Wastewater Superintendent Mark Smith, Service Director Nick Cinquepalmi **Other:** Dan Langshaw; John Nickell, Jonah Pichette

APPROVAL OF MINUTES

Approval of the February 2, 2021 Committee minutes. Moved by Ms. Barath, seconded by Mr. Weimer. Vote: Yeas: 3; Nays: 0. **Motion Carried.**

UNFINISHED BUSINESS

1. Storm Water/Infrastructure Maintenance Monthly Report

See attached report.

2. Maintenance Projects

Mr. Haselton states the only update I have is a couple basins that I know that are getting cleaned up on South Hampton. There will be silt removed from that basin this month and the Huntington Park basin, I know that they are talking to contractors about cleaning those up.

3. Turnpike Mitigation

Mr. Haselton states there really is no update. I spoke to ODOT, and there is still money out there for us to do work, and that is something that we will definitely do at some point. We will utilize the money that is available.

4. York Road Property

No update.

Mr. Kelly states we have a request out for an appraisal with the appraiser that we have used for many years. We expect that she will be getting that to us very shortly, and from my conversation with Ms. Vozar we found one of the heirs that we were looking for, but there are multiple. It is going to take a while; it will be a long process.

NEW BUSINESS

ADJOURNMENT

Moved by Ms. Fenos, seconded by Ms. Barath to adjourn the March 2, 2021 meeting. Yeas: 3. Nays: 0. Motion carried. Meeting adjourned at 6:38 p.m.

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26-Feb	Cleaned storm mains and catch basins	hawley and Lynn
25-Feb	Flood patrol	
24-Feb	Cleaned storm mains and catch basins	Hawley
23-Feb	Repaired sanitary and storm laterals	3300 Hunting
22-Feb	Flood patrol	
19-Feb	Prep and paint at B plant	
18-Feb	Snow plowing	
17-Feb	Prep and paint at B plant	
16-Feb	Snow plowing	
15-Feb	Snow plowing	
12-Feb	Prep and paint at B plant	
11-Feb	Prep and paint at B plant	
10-Feb	Prep and paint at B plant	
9-Feb	Prep and paint at B plant	
9-Feb	Snow plowing	
8-Feb	Prep and paint at B plant	
5-Feb	Prep and paint at B plant	
4-Feb	Flood patrol	
4-Feb	Cleaned ditch	18285 Ridge
3-Feb	Located break in storm and sanitary lateral	8300 Hunting
3-Feb	Checked size of piping for Engineering	Bunker Rd
3-Feb	Checked headwall(Headwall has dropped and culvert eroded)	State Rd Culvert115
2-Feb	Snow plowing	
1-Feb	Snow plowing	
Date	Work performed	Property Address

Memorandum

To:	Mark Smith, Wastewater Superintendent
CC:	Scott Shantery, Assistant Superintendent Darren Thayer, Stormwater Supervisor
From:	C. Gibson Chen, PhD, PE, Avetin Engineering, Ltd.
Date:	March 1, 2021
Subject:	Summary of Field Investigations and Recommendations to Flooding Issues in the Hawley/Gregory Area

In the past fifteen years, the City has implemented sewer improvements and programs to mitigate the flooding issues following the Citizens Oversight Flooding Committee Final Report (June 2005). Currently the City continues cleaning and maintenance on the City's sewer infrastructure. However, occurrences of flooding during extreme storm events in the Hawley/Gregory area still exist.

Field investigations and records reviews were conducted by the Wastewater Department staff and Avetin Engineering Ltd. The ultimate goal of such activities was to increase the level of service and reduce the flooding frequency under extreme wet weather for the citizens.

The above-mentioned June 2005 report clearly described the watershed and drainage layouts of the Hawley/Gregory area. The findings and recommendations of the field investigations are provided in the following pages. In addition to drainage ditch improvements and a CCTV investigation, it is also recommended the City consider construction of a stormwater retention basin. The Hawley Drive is a build-out street. Therefore, the City may consider the feasibility of a new stormwater retention basin once a suitable vacant lot becomes available.

Ditch Between Lynn Drive and Beechwood Drive

Two (2) consecutive near-90-degree turns of the drainage ditch causes flow retardation and embankment erosion. Flow channel redirection and embankment stabilization are recommended.







Ditch Between Lynn Drive and Beechwood Drive (continued)

Photo 1 - Drainage ditch turns 90 degrees to the north (in the backyard) of 10164 Lynn Drive.



Photo 2 – Embankment erosion due to the 90degree turn along the flow channel to the north (in the backyard) of 10164 Lynn Drive.



Ditch Between Lynn Drive and Beechwood Drive (continued)

Photo 3 - Embankment erosion and sediment deposits downstream due to the second 90-degree turn along the flow channel to the west (in the backyard) of 10176 Lynn Drive.

Ditch Surrounds 10192 Delsy Drive

Existing surface runoff from both sides of Delsy Drive are directed surrounding 10192 Delsy Drive before flowing north through a culvert. The flow path is recommended to be modified to a new storm sewer between 10168 and 10180 Delsy Drive. The feasibility and design of the new storm sewer should be verified through hydraulic and hydrological calculations.

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Ditch Surrounds 10192 Delsy Drive (continued)

Photo 4 - Drainage ditch is constructed and directs surface runoff around 10192 Delsy Drive.



Photo 5 – Surface runoff from Delsy Drive is directed to the north through a culvert. The open channel between Hawley and Delsy Drives is recommended for dredging and embankment repairs, if needed

Ditch West of Gregory Lane

Stormwater in the northern portion of Gregory Lane is collected through a catch basin, between 10846 and 10858 Gregory Lane, and directed to a ditch west of Gregory Lane. Vegetation growth along the ditch impairs the drainage flow in this area. It is recommended the City coordinate with Cuyahoga County for cleaning and dredging of the ditch in this area.





Sanitary Sewer Infiltration/Inflow (I/I) Investigation

In 2005, the Wastewater Department conducted flow monitoring in the Hawley/Gregory area. A review of flow data for the sanitary sewer west of Gregory Lane indicated significant I/I occurred during a storm event on August 30-31, 2005. The peak flow rate was more than 1,700 gallons per minute (gpm) while the normal daily flow was less than 100 gpm. Drainage ditches cross this section of sanitary sewer twice. It is recommended the City conduct CCTV to verify the sewer pipe integrityand confirm that flow from the drainage ditches is not entering the sewer.



