

PUBLIC WORKS OPERATIONS

MONTHLY ACTIVITY REPORT

JANUARY 2019

STREETS & FLEET

Road Construction Crew -

Snow / Ice Events	We have had a total of nineteen (19) events so far this winter. Here are the stats thus far: 2,633 tons of rock salt, 28,324 gallons of liquid brine used, and 10,638 miles driven.
High Water Complaints	The crew has been working diligently to clear basins and culverts to clear standing water (ice) from the roadway.
Fox Run Storm System	We have been collecting "as-built" storm system data and providing to IT so our GIS data is up to date.
Winter Equipment	Snow plows, spreaders and other winter equipment are getting inspected and repairs are being documented after each storm event.
Anti-Icing Program	We have continued to monitor the forecast and utilize our anti-icing program when possible.
Basin Repairs	We completed repairs on several reported failed catch basins on Maureen Dr in Marshall Woods. We are also inspecting the basins that are included in the resurfacing program for 2019.
Glen Rape Fill Site	The site is now set up and ready for fill. During the winter months, it's best to keep using the back yard at DPW for stockpiling our spoils until the spring weather arrives.

Fleet Maintenance (Scheduled) -

Vehicle or Equip.	Description of Work
Chevy Tahoe - 461	Replaced all four tires
Chevy Tahoe - 469	Replaced alternator and battery
Ford F250 - 1604	Replaced all four tires
Ford F250 - 1618	Replaced all four tires
Ford F550 - 1633	Replaced leaking plow cylinder and one battery
Freightliner - 1625	Repairing rusted passenger door
International Terrastar - 1611	Replaced bad spinner motor
Peterbilt - 1626	Welded shim plates on Gledhill front plow
Peterbilt - 1628	Repaired exhaust and Vbox center beam
Peterbilt - 1630	Replaced leaking plow lift cylinder
Snow Events	Handled snow routes during several snow events

Streets & Fleet (continued)

Preventive Maintenance Program			State Inspections	
Cars	24		Cars & Trucks	7
Trucks	2			
Equipment	8		Trailers	0

Traffic, Communications & Signs

Signal Operations -	
Rt 19/Victory Dr	<p>The intersection is back in operation after Staff completed a Signal Pole replacement for the damaged mast arm on the NE corner.</p> <p>We also received Penn DOT approval on changing the North and South Left Turn movements from protected to protected/permitted. These improvements are also complete.</p>
Rt 19/St Francis	Final design is almost complete. Conflicts with Overhead and Underground Utility provisions are complicating the design. An On-site Utility meeting is scheduled for Jan 23 to remediate these issues.
Backplate Upgrades	As improvements are made at intersections staff are slowly installing reflective borders on our signal backplates. These borders create additional visibility both during the day and at night to highlight the traffic signals.
LPR Program	Staff are prepping to install the wiring necessary to install the recently approved License Plate Reading System
Electrical -	
Police Dept Armory	Electrical work to complement the recent alterations to the Armory are complete.
Public Works Crew Leaders Area	<p>Renovations in the PW Crew Leaders space have been completed.</p> <p>Un-used data wiring was removed, and new LED lighting was installed in the suspended ceiling</p>

Traffic (continued)

Signs -	
Sign Maintenance	Sign maintenance and installation continues a regular basis.
Communications -	
Water Tank Communications	Staff are engineering Ethernet radio communications systems to provide communications platforms to the South and West Water Tanks. Weather permitting these will be installed by Spring

Facilities

Municipal Building	Artist Network Lighting	Working with Mary Jane Hadley from the Cranberry Artist Network to provide a lighting design for the artwork being displayed in the tenant hallway. After meeting with the CAN board a track style lighting that will light up sections of the wall is being proposed rather than trying to light individual pieces. Samples have been ordered and will be installed for approval before moving forward.
	Tenant Space	Rep. Metcalfe' office replacement carpet is complete. New carpet install for the tax collector's office is scheduled for Monday 1/28/19
Cranberry Highlands	Zone Controlled Heating System	Working with a heating design engineer on a radiant, hydronic, zone-controlled heating system for the Cranberry Highland banquet room. This system is being designed to create a heat curtain along the window walls to help prevent erratic swings in the room temperature. In addition to space heating the boiler will be designed to provide domestic hot water to the clubhouse and provide future capability for heating the cart storage and banquet room using hot water coils replacing the existing natural gas and electric heat.
Public Works Ops.	Crew Leader Area Renovations	Renovations for the crew leader's office space is in progress. An acoustical tile drop ceiling with LED lighting has been installed and walls patched and painted. Concrete floor is being prepped for an epoxy coating, new counter style desktops for the crew leader work space will be installed with cabinets and counter tops for a food prep area.

Facilities (continued)

WaterPark	Concession	A replacement grease trap for the pool concession kitchen has been installed.
Ambulance Bldg.	Walls were patched and painted throughout the ambulance building.	
Multiple Locations	During the extreme cold temperatures daily rounds are being done to check for heating issues. Emergency generator block heaters are also being checked along with a manual start done weekly.	
	Working with engineering project managers on mechanical submittals for the plant and Rt 19 fire station renovations.	
Park/ Haine Fire Station	Two frozen sprinkler heads were replaced at the Park Fire Station. The system was drained tested and reset to maintain fire protection. Contractor equipment failure was the suspected cause and equipment was replaced to prevent a repeat.	
	Working with Builders Hardware, Erie, on the keying for the Park and Haine Fire Stations. All public safety facility doors without card access will be setup on a master system keeping with our existing system. Once complete there will be three GGM keys for all Township facilities.	
Work Orders & Room Setup	Work Orders - Ongoing reactive, scheduled and room setups are being done.	

Operations Engineer

PROJECT: ADAPTIVE TRAFFIC SIGNAL TECHNOLOGY

Description:	ARLE and GLG Grant Projects to add adaptive technology to the traffic signal system automatically “adapt” the traffic signal based on the traffic conditions.
Update:	Rochester Rd (Thomson Park to Haine School) – Fully Adaptive Traffic Signal Operation (October 2016). Freedom Rd (Commonwealth) to Rt 228 (Cranberry Springs) – Installation complete. Test mode. Activation anticipated February 2019. Rt 19 (Turnpike to Rowan) – Installation complete. Test mode to start Spring 2019.

PROJECT: ROCHESTER ROAD WIDENING AT ROUTE 19

Description:	CMAQ Grant for additional lane on Rochester Rd approaching Route 19 allowing advance left turn signal phasing to increase intersection capacity and efficiency.
Update:	Construction complete; project closeout.

PROJECT: ROCHESTER ROAD WIDENING TO GRAHAM SCHOOL ROAD

Description:	Widening of Rochester Road to 5 lanes from Commerce Park Dr to Graham School Road.
Update:	Preliminary design complete. Final design and HOP by Developer.

PROJECT: ROUTE 19 & ST. FRANCIS WAY SIGNAL UPGRADE

Description:	GLG Grant for replacement of traffic signal to current standards including pedestrian and ADA facilities. Local project oversight.
Update:	Final design January 2019. Project to be bid and constructed in Spring 2019 upon PennDOT approval.

Operations Engineer (continued)

TRANSPORTATION GRANTS	
Pending Award Notifications (Submission Date):	
CMAQ2017:	SR19 & PROGRESS SIGNAL UPGRADE (9/5/17)
ARLE2018:	SR19 & FIRE STATION UPGRADE (6/29/18)
ARLE2018:	FREEDOM ROAD AT EXECUTIVE DRIVE INTERSECTION IMPROVEMENTS (6/29/18)
GLG2018:	SR19 & WALMART DRIVE/SHORT STREET SIGNAL UPGRADE (1/11/19)
AWARDS	
SINC-UP ROUND 4:	ROUTE 19, ROCHESTER, FREEDOM RT 228 (12/14/18)
BID UPDATES	
BID OPENINGS 1/24/19:	CONTRACT NO. 19-02 – SUPERPAVE STREET RESURFACING 2019
	CONTRACT NO. 19-03 – SEAL COATING 2019
	CONTRACT NO. 19-04 – MICRO-SURFACING 2019
	CONTRACT NO. 19-05 – CRACK SEALING 2019
AUTHORIZATION TO BID - 1/31/19:	ROUTE 19 & ST. FRANCIS WAY SIGNAL UPGRADE
STATUS OF BIDS:	ROCHESTER RD WIDENING AT ROUTE 19 (ECMS) - STATUS 95%
PROJECT PLAN REVIEWS – Engineering / Traffic	
January 2019	
PLANNING COMMISSION	2
BOARD OF SUPERVISORS	5
AS-PER PLANS	5

BCTP (Brush Creek Treatment Plant)

Report of Odor 12/18/18	Plant staff received an odor complaint; the resident specifically noted a chemical or fiberglass smell. Upon further investigation, it was determined to be a result of the slip lining activities that were going on along the Graham Park trail.	
Blower Sound Report 12/18/18	A resident called to inquire about a whining sound coming from the plant. It was determined to be caused by the new blowers that will change pitch as they ramp up or down (based on system air demand) all blowers are located inside buildings, however, there are louvers that allow for ambient intake air.	
Secondary Clarifier 12/19/18	Plant staff troubleshooted an issue with the secondary clarifier scum pump float system.	
Auxiliary Pump Station Pumps 12/26/18	The auto dialer alerted staff of VFD alarms for both aux. pump station pumps. Upon further investigation, it was determined that the main feeder breaker to the station was tripped. No cause was identified	
Staff Training 1/4/19	Plant staff participated in rotating drum thickener performance testing and training.	
Belt Press Feed Pump 1/7/19	Operators reinstalled belt press feed pump #1	
Briar Creek Pump Station	No operational problems	
Franklin Acres Pump Station	No operational problems	
Wolfe Run Pump Station	No operational problems	
Water Supply	12/30/18	Operators were alerted by the auto dialer of an OCV valve failure at the Pennwood pump station; further investigation indicated that all actuated valves were in the failed condition. This would suggest some type of power dip - staff reset the PLC and all valves returned to normal duty

Sewer & Water Field

Date	Job/Project Description
O'Reilly Auto Parts	S&W Field personnel assisted the Township's Engineering Division with the abandonment (cut & cap) of a one-inch service line at the new O'Reilly Auto Parts store at 20541 Route 19.
12/10/2018	
Interceptor One	Insight Pipe Contracting began the CCIP lining project along Interceptor One. A Sewer & Water Field staff member was on site to inspect the installation.
12/10/2018	
Pineridge Complex	Excavated and repaired a leak on the four-inch water main near 231 East Commons Drive in the Pineridge Complex.
12/11/2018	
135 Robinhood	Excavated and replaced a collapsed sewer lateral at 135 Robinhood Drive in the Fernway plan of homes.
12/12/2018	
LaPorte Dr & LaPorte Ct	Personnel excavated and repaired a leak on the eight-inch water main at the intersection of LaPorte Drive and LaPorte Court.
12/13/2018	
LaPorte Ct	Excavated and repaired a main line valve box at the entrance to LaPorte Court.
12/18/2018	
45 Dover Dr	S&W Field personnel excavated and replaced a collapsed sewer lateral at 45 Dover Drive in the Fernway plan of homes.
12/19/2018	
20541 Route 19	Personnel excavated and replaced a malfunctioning hydrant at 20541 Route 19.
1/7/2019	
Marshall & New Sewickley Flow Meters	Along with a sub-contractor – KWM Controls, Inc., personnel calibrated the Marshall Township and New Sewickley Township (Danbury Farms) sewer flow meters.
1/9/2019	

Pretreatment

FOG	Fog Updates	Rajbhog Indian Market, Freshii, and Fresh Thyme Market entering FOG program
	Fog New Construction	Holiday Inn Express/ Element Hotel – 1740 Route 228
		Cranberry Spring Retail Building A – 2085 Mackenzie Way
		Cranberry Springs Retail Building B- 2075 Mackenzie Way
		Village of Cranberry Woods (Atria)- 3020 Fairport Lane
I & I	Flow Monitor Data	Stream lining flow monitor data by using FSData website as a conduit
	Field Data	Creating plan to gather water/wastewater field data for modeling of distribution/collection systems and to convey data through the internal data viewer
	Fox Run	Created stormwater/sanitary sewer dye testing method for Fox Run.
	Smoke & Dye Testing	Created smoke testing/dye testing documents
	Fox Run	Plans being made to place secondary wastewater line in Fox Run to elevate hydraulic issues.
	Interceptor #13	Placed 9 wastewater flow monitors in Interceptor #13 to evaluate I/I sources. Historically Interceptor #13 has had high flows.
Additional Items	Sampling Plan	Developing wastewater treatment plant sampling plan to establish maximum allowable headworks loading limits.
	Conferences	Planning to attend EPWPCA pretreatment conference and Pa Rural Water Conference