

Norwood Borough

3800-FM-BPNPSM0507 4/2014 Chapter 94 Report



COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2018

Permittee is owner and/or operator of a POTW or other sewage treatment facility

Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION							
Per	mittee Name:	Norwood Borough	Permit No.:	PA N/A			
Mai	ling Address:	10 W. Cleveland Avenue	Effective Date:	N/A			
City	r, State, Zip:	Norwood, PA 19074	Expiration Date:	N/A			
Cor	ntact Person:	John J. Ryan	Renewal Due Date:	N/A			
Title): 	Borough Manager	Municipality:	Norwood Borough			
Pho	one:	610-586-5800	County:	Delaware			
Em	ail:	jryan@norwood-boro.org	Consultant Name:	Catania Engineering Associates, Inc.			
		CHAPTER 94 REPORT	COMPONENTS				
1.	 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1)) Check the appropriate boxes: Line graph for flows attached (Attachment) DEP Chapter 94 Spreadsheet used (Attachment) Section 1 is not applicable (report is for a collection system). 						
2.	 Attach to this report a line graph depicting the monthly average organic loads (express as lbs BOD5/day) for each month for the past 5 years and projecting the organic loads for the next 5 years. The graph must also include a line depicting the organic design capacity of the treatment plant per the WQM permit. (25 Pa. Code § 94.12(a)(2)) Check the appropriate boxes: Line graph for organic loads attached (Attachment) DEP Chapter 94 Spreadsheet used (Attachment) Section 2 is not applicable (report is for a collection system). 						

3.	If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))
	Please note the Chapter 94 Spreadsheet was used to show monthly average flows and projects. It is understood this report is for a collection system only.
4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. ($25 Pa. Code \S 94.12(a)(4)$)
	Check the appropriate boxes: Map showing sewer extensions constructed, approved/exempted but not yet constructed, and proposed projects attached (Attachment)
	 List summarizing each extension or project attached (Attachment) Schedules describing how each project will be completed over time and effects attached (Attachment)
	Comments:
	No sewer extensions were constructed or approved within the past yeas. A copy of the existing sanitary sewer system is attached. See Attachment A.
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5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))
	Outside contractors are utilized for sewer system opertion and maintenance on an as-needed basis. DELCORA is engaged to complete routine maintenance on the pump stations on behalf of the Borough. Video inspection is undertaken to address needs as problems arise. Sewer cleaning is contracted in known problem areas to mitigate potential surcharges.

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Discuss the condition of the sewer system including portions of the system where conveyance capacity is being 6. exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is needed or is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SSOs, excessive infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(6)) Check the appropriate boxes: System experienced capacity-related bypassing, SSOs or surcharging during the report year. On a separate sheet, list the date, location, and reason for each bypass, SSO or surcharge event. System did not experience capacity-related bypassing, SSOs or surcharging during the report year. Comments: Based upon video inspections completed in the reporting year, the Borough intends to complete rehabilitation work on a section of the system along Seneca, Gesner that are showing signs of deterioration. Work is budget driven. 2018 SSO was experienced due to a construction project on Tasker Avenue. See attachment B. 7. Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison of the maximum pumping rate with present maximum flows and the projected 2-year maximum flows for each station. (25 Pa. Code § 94.12(a)(7)) Check the appropriate boxes: The collection system does not contain pump stations The collection system does contain pump stations (Number -3) Discussion of condition of each pump station attached (Attachment C) 8. If the sewage collection system receives industrial wastes (i.e., non-sanitary wastes), attach a report with the information listed below. (25 Pa. Code § 94.12(a)(8)) a. A copy of any ordinance or regulation governing industrial waste discharges to the sewer system or a copy of amendments adopted since the initial submission of the ordinance or regulation under Chapter 94, if it has not previously been submitted. b. A discussion of the permittee's or municipality's program for surveillance and monitoring of industrial waste discharges into the sewer system during the past year. c. A discussion of specific problems in the sewer system or at the plant, known or suspected to be caused by industrial waste discharges and a summary of the steps being taken to alleviate or eliminate the problems. The discussion shall include a list of industries known to be discharging wastes which create problems in the plant or in the sewer system and action taken to eliminate the problem or prevent its recurrence. The report may describe pollution prevention techniques in the summary of steps taken to alleviate current problems caused by industrial waste dischargers and in actions taken to eliminate or prevent potential or recurring problems caused by industrial waste dischargers. Check the appropriate boxes: Industrial waste report as described in 8 a., b. and c. attached (Attachment D) Industrial pretreatment report as required in an NPDES permit attached (Attachment)

9. Existing or Projected Overload.					
Check the appropriate boxes: This report demonstrates an existing hydraulic overloa 	ad condition				
This report demonstrates an existing hydraulic overloa					
 This report demonstrates an existing organic overload 					
This report demonstrates a projected organic overload	d condition.				
If one or more boxes above have been checked, attach a or projected overloaded conditions under §§ 94.21 ar overload). (25 Pa. Code § 94.12(a)(9))	Corrective Action Plan (CAP) to reduce or eliminate present nd/or 94.22 (relating to existing overload and projected				
Corrective Action Plan attached (Attachment)					
10. Where required by the NPDES permit, attach a Sewage balance of solids coming in and leaving the facility over the					
Sewage Sludge Management Inventory attached (Attachment)					
11. For facilities with CSOs and where required by the NPDES permit, attach an Annual CSO Report (including satellite combined sewer systems).					
Annual CSO Report attached (Attachment)					
12. For POTWs, attach a calibration report documenting that flow measuring, indicating and recording equipment has been calibrated annually. (25 Pa. Code § 94.13(b))					
Flow calibration report attached (Attachment)					
RESPONSIBLE OFFICIAL CERTIFICATION					
I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).					
William Gavin	Dill Kenne				
Name of Responsible Official	Signature				
610-586-5800	7-19-2019				
Telephone No.	Date				
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PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Elizabeth A. Catania

Clipbisch a Ceture Signature 2/8/19

Name of Preparer

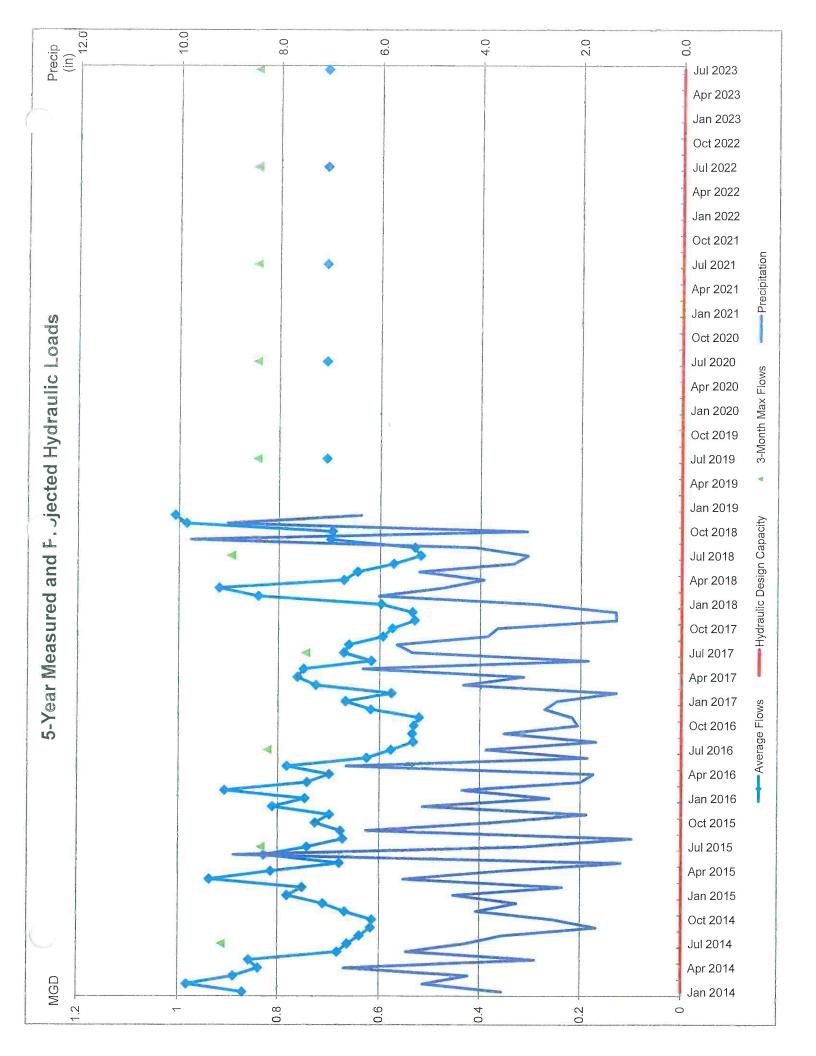
610-532-2884

Telephone No.

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Facility Name:	Norwood Borough - Muckinipates	ugh - Muckinip	ates			Permit No.:	d			Persons/EDU:	3.5
Existing Hydraulic Design Capacity: Upgrade Planned in Next 5 Years? Future Hydraulic Design Capacity:	Design Capaci n Next 5 Years esign Capacity	ity. * ::	WGD	SD Year:		Existing Organic Design Capacity: Upgrade Planned in Next 5 Years? Future Organic Design Capacity:)esign Capacit n Next 5 Years sign Capacity:			lbs BOD5/day Year: bs BOD5/day	
Month	<u>Montl</u> 2014	hly Average F 2015	lows for Past 2016	<u>Monthly Average Flows for Past Five Years (MGD)</u> t 2015 2016 2017	<u>IGD)</u> 2018	Month	Monthly /	Average BOD5 2015	5 Loads for 2016	Monthly Average BOD5 Loads for Past Five Years (Ibs/day) 2014 2015 2016 2017 2018	(lbs/day)
January	0.87029	0.78174	0.7472	0.66735	0.59797	January					
February	0.982	0.75206	0.90755	0.57699	0.84088	February					
March	0.88926	0.93742	0.74277	0.72585	0.91963	March					
April	0.8392	0.81439	0.69923	0.76271	0.67127	April					
May	0.85744	0.67916	0.78297	0.75039	0.64461	May					
June	0.6828	0.82835	0.62577	0.61711	0.57336	June					
July	0.66284	0.7431	0.57784	0.67075	0.51917	VIII					
Auaust	0.639	0.67238	0.53277	0.66076	0.53087	Annust					
Sentember	0.61707	0.67602	0 63614	0.60446	0.0000	Contomber					
Cotobor	10/10/0	10001 0	*10000	04460.0	0.03/40	Septermen					
October	0.0140/	U. / 266 /	0.53194	0.5/548	0.69441	October					
November	0.66804	0.69842	0.52148	0.53064	0.98477	November					
December	0.71077	0.81145	0.61791	0.53531	1.00792	December					
Annual Auc	0.76770100	010210320	0 66107006		10000001						
Max 2 Mo Aug	00120120	0.0001.049	0.0010101000	2000000000	0.020500						
INIAK J-IVIO AVU	0.9100493	0.03402001	1/00/2010	0./4031//8	0.030099	INIAX MIO AVG					
Max : Avg Katio	1.2.1	1.10	1.26	1.17	1.24	Max : Avg Ratio					
Existing EDUs	2,435.0	2,435.0	2,435.0	2,435.0		Existing EDUs	2,435	2,435	2,435	2,435	
Flow/EDU (GPD)	309.2	312.2	267.7	262.4		Load/EDU					
Flow/Capita (GPD)	88.3	89.2	76.5	75.0		Load/Capita					
Exist. Overload?						Exist. Overload?					
	đ	rojected Flow	's for Next Fiv	Projected Flows for Next Five Years (MGD)			Proje	cted BOD5 Lo	ads for Ney	Projected BOD5 Loads for Next Five Years (lbs/dav)	s/dav)
	2019	2020	2021	2022	2023		2019	2020	2021	2022	2023
New EDUs	1.0	1.0	1.0	10	10	New FDI le	-	÷	-	-	-
New EDU Flow	0.0003	0.0003	0.0003	0.0003	0.0003	New EDU Load	0.000	0000	0000	0000	0000
Droi Annual Aur	0 705 77	0 70607	F090F 0	F990F 0	2000E 0		101110	00000	000.0		0.00
Proj. Annual Avg Droi Max 2 Ma Avg	306430	1000/0	0.70037	0.70667	0.10697	Proj. Annual Avg		10/AIC#	10//10#	#DIV/01	i0/NIC#
Proj. Overload?		0	001	10000	0001000	Proj. Overload?	10/AIQ#				k:
Show Precipitation Data on	ation Data on I	Hvdraulic Graph?	ph?								
	Total Mo	onthly Precip	itation for Pas	onthly Precipitation for Past Five Years (Inches)	Inches)						
Month	2014	2015	2016	2017	2018						
January	3.56	4.52	2.63	2.48	2.85						
February	5.12	2.36	4.36	1.3	6.02						
March	4.23	5.52	2.01	4.33	4.74						
April	6.69	3.58	1.75	3.15	3.94						
May	2.91	1.2	6.65	6.33	5.21						
June	5.46	8.89	1.87	1.86	3.34						
July	4.3	3.16	3.88	5.35	3.06						
August	3.55	0.98	1.7	5.66	4.11						
September	1.69	6.27	3.52	3.86	9.76						
October	2.54	3.76	2.06	3.66	3.08						
November	4.07	1.89	2.17	1.3	9.03						
December	3 27	514	0 7 0	1 21	6 3B						

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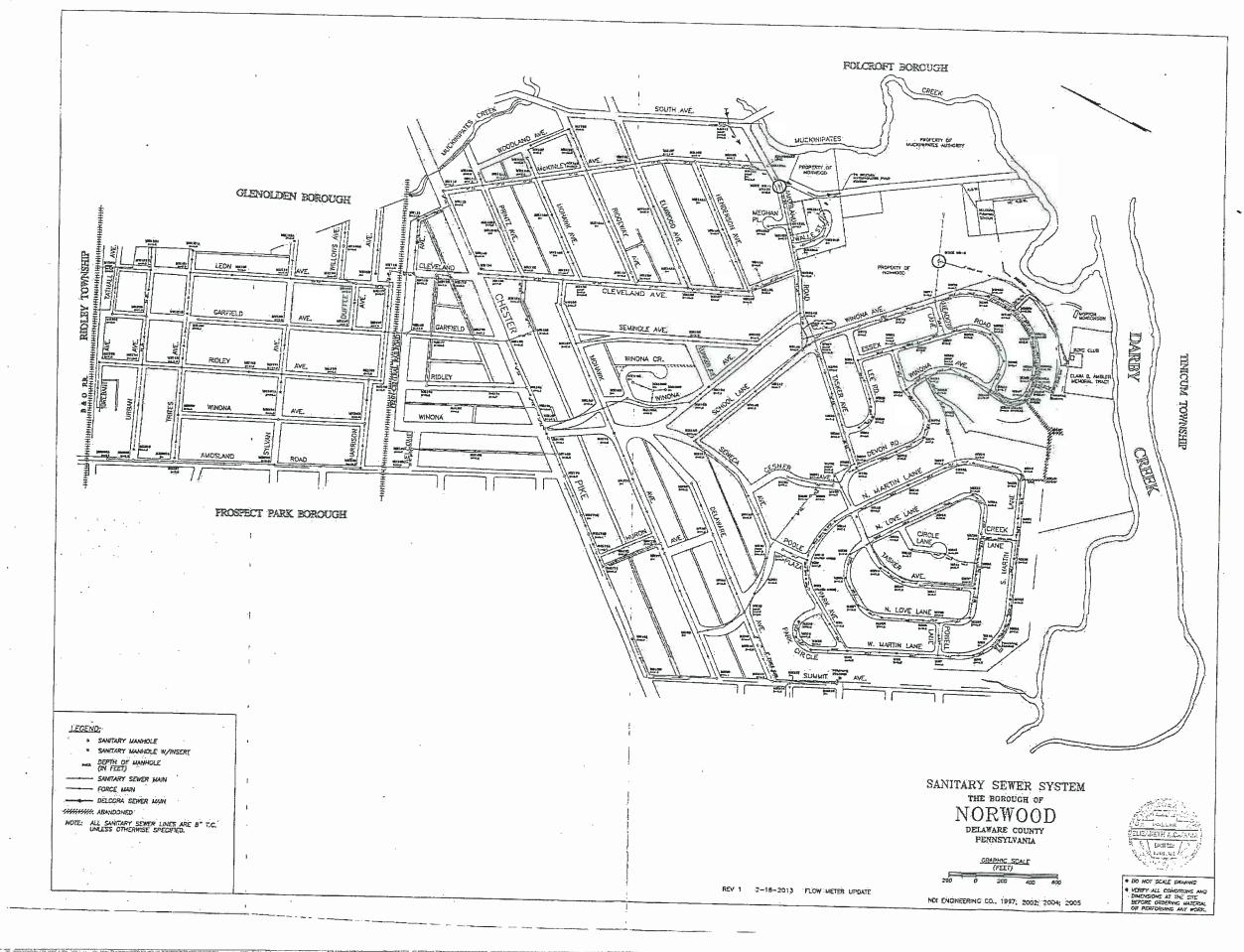
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NORWOOD BOROUGH MONTHLY FLOW METER DATA

Meter No.	Meter Location	Total EDUs	Outside EDUs		January			February			March			April		· ·	May			June		Comments
				Recorded Volume	Gallons EDU/Day	Outside EDUs	Recorded Volume	Gallons EDU/Day	Outside EDUs	Recorded Volume	Gallons EDU/Day	Outside EDUs	Recorded Volume	Gàllons EDU/Day	Outside EDUs	Recorded Volume	Gallons EDU/Day	Outside EDUs	Recorded Volume	Gallons EDU/Day	Outside EDUs	
1	107 Amosland Road (in front)	885		5,383,345	196		6,527,397	263		9,041,021	330		5,798,628	218		5,851,166	213		5,084,838	192		
2	Norwood Borough Park	916		8327178	293		10,886,971	424		12,044,686	424		9,096,110	331		8,928,766	314	•	7, 6 37,452	278		
	Unmetered Areas (average volume from all meters)	634		4,826,470	246		6,1 3 0,322	345		7,422,731	378	· ·	5,243,345	276		5,202,930	265		4,478,585	235		Use average EDU from all Propsect meters for estimate
	TOTAL	2,435	0	18,536,993			23,544,690			28,508,438			20,138,083			19,982,862			17,200,875			
	·			· ·	<u></u>		1		L	1	· ·		L	I I						L		· ·
Meter No.	Meter Location	Total EDUs	Outside EDUs		July			August			5eptember	· · · · _		October			November			December		Comments
				Recorded Volume	Gallons EDU/Day	Outside EDUs																
.1	107 Amosland Road (in front)	885		4,900,779	179		4,763,548	174	-	6,464,883	24 3	i	6,610,850	241		9,448,983	356		9,773 <u>,</u> 144	356		
2	Ńorwood Borough Park	916		7,003,058	247		7,408,574	261		9,011,083	328		9,310,934	328		12,402,043	451		13,336,895	470		
	Unmetered Areas (average volume from all meters)	634		4,190,468	213		4,284,911	218		5,447,952	286		5,604,892	285	-	7,692,144	404		8,135,350	414		Use average EDU from all Propsect meters for estimate
	TOTAL	2,435	0 -	16,094,305			16,457,033			20,923,918			21,526,676			29,543,170			31,245,389			

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Sanitary Sewer Overflow (SSO) Report to PADEP– Water Management

DEP fax: 484-250-5971

Please check the appropriate box

Dry Weather Overflow

Wet Weather Overflow

1. Date, Name, Phone # of person completing this report	Date : March 6, 2018 Name : Elizabeth A. Catania, PE Phone #: 610-532-2884
2. Your organization name and address ?	Name: Norwood Borough County: Delaware Address: 10 W. Cleveland Ave. Township/Municipality: Norwood, PA 19074
Sewer system owner and permit number	Norwood Borough
3. Date found and <u>specific</u> location of SSO. Including Municipality/County (if different from #2) ?	Date: 2/27/18 Municipality: Norwood Borough Location(Street & #): Unit block Tasker Ave County: Delaware
4. How was SSO discovered? By whom ?	PECO called PA One Call after hitting line
5. Start and end time of SSO (actual or estimate?)	Start approximately 10:00 AM and stopped 3:20 PM
6. Date, time and name of person who notified PADEP originally to notify of SSO ?	Date : January 28, 2018 Time: 10:28AM (approx.) Name: Bill Gavin
7. Description and actual or estimated volume of SSO	Raw sewage from 10" Force Main. Volume estimated at 70,000 gallons.
8. Where, <u>precisely</u> , did SSO go ? (land, roadway, basement, swale, storm sewer, creek, etc) Please include creek name or street location.	Gray water entered the street (Tasker) and down the gutterline into the storm sewer. Sewer discharges into unnamed branch of Muckinipattis Creek. Within a half hour, the sewage was directed to manhole downstream via overland flow and finally pumps were turned off and pump and haul was utilized until repair completed.
9. What caused SSO ? How was it stopped ?	PECO using a gopher to bore new gas service to home. See above for method to stop.
10. Describe extent of contamination and how it was cleaned up	All sewage was cleaned up and lime spread to neutralize.
11. What actions will be taken to prevent a re-occurrence ? When ?	None. Council is considering permit procedure change to prohibit these types of construction methods.
12. Other Comments ?	
13. Downstream notifications made: (All downstream users such as public water supplies must be notified)	None

Pump Station Summary

Three pump stations service the Borough. These stations are located on Summit Avenue servicing five (5) units, Martin Lane servicing five hundred thirty three (533) units and Winona Avenue, servicing two hundred twenty-five (225) units. All pump stations are equipped with emergency generators. Pump stations are maintained under contract with DELCORA.

Industrial Waste Report

There are no known industrial permits for the Norwood Borough system and no known sewer problems related to industrial wastes are evident.

Ridley Township

3800-FM-BPNPSM0507 4/2014 Chapter 94 Report

DEPARTMENT OF ENVIRONMENTAL PROTECTION COMMONWEALTH OF PENNSYLVANIA DEPARTMENT OF ENVIRONMENTAL PROTECTION BUREAU OF POINT AND NON-POINT SOURCE MANAGEMENT

CHAPTER 94 MUNICIPAL WASTELOAD MANAGEMENT ANNUAL REPORT

For Calendar Year: 2018

Permittee is owner and/or operator of a POTW or other sewage treatment facility

Permittee is owner and/or operator of a collection system tributary to a POTW not owned/operated by permittee

GENERAL INFORMATION								
Per	mittee Name:	Township of Ridley	Permit No.:	PAN/A				
Mai	ling Address:	100 East MacDade Boulevard	Effective Date:	N/A				
City	, State, Zip:	Folsom, PA 19033	Expiration Date:	N/A				
Con	itact Person:	Ed Pisani	Renewal Due Date:	N/A				
Title):	Township Manager	Municipality:	Ridley Township				
Pho	ne:	610-534-4806	County:	Delaware				
Ema	ail:	episani@ridleytwp.org	Consultant Name:	Catania Engineering Associates, Inc.				
		CHAPTER 94 REPORT	CHAPTER 94 REPORT COMPONENTS					
 Attach to this report a line graph depicting the monthly average flows (expressed in MGD) for each month for the past 5 years and projecting the flows for the next 5 years. The graph must also include a line depicting the hydraulic design capacity per the WQM permit. (25 Pa. Code § 94.12(a)(1)) Check the appropriate boxes: Line graph for flows attached (Attachment) DEP Chapter 94 Spreadsheet used (Attachment) Section 1 is not applicable (report is for a collection system). 								
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3.	If the DEP Chapter 94 Spreadsheet was not used to determine projections, discuss the basis for the hydraulic and organic projections. In all cases, include a description of the time needed to expand the plant to meet the load projections, if necessary, and data used to support the projections should be included in an appendix to this report. (25 Pa. Code § 94.12(a)(3))
	Please note that the Chapter 94 Spreadsheet was used to show monthly average flows and projections; it is understood that this report is for a collection system only.
4.	Attach a map showing all sewer extensions constructed within the past calendar year, sewer extensions approved or exempted in the past year in accordance with Act 537 and Chapter 71, but not yet constructed, and all known proposed projects which require public sewers but are in the preliminary planning stages. The map must be accompanied by a list summarizing each extension or project and the population to be served by the extension or project. If a sewer extension approval or proposed project includes schedules describing how the project will be completed over time, the listing should include that information and the effect this build-out-rate will have on populations served. (25 Pa. Code § 94.12(a)(4))
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	Schedules describing how each project will be completed over time and effects attached (Attachment)
	Comments:
	No sewer extensions were constructed or approved within the past calendar year. A copy of the sanitary sewer system is attached.
5.	Discuss the permittee's program for sewer system monitoring, maintenance, repair and rehabilitation, including routine and special activities, personnel and equipment used, sampling frequency, quality assurance, data analyses, infiltration/inflow monitoring, and, where applicable, maintenance and control of combined sewer regulators during the past year. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a)(5))
	See Sanitary Sewer Monitoring Report attachment.

6.	Discuss the condition of the sewer system including portions of the system where conveyance ca exceeded or will be exceeded in the next 5 years and portions where rehabilitation or cleaning is underway to maintain the integrity of the system and prevent or eliminate bypassing, CSOs, SS infiltration and other system problems. Attach a separate sheet if necessary. (25 Pa. Code § 94.12(a))	s needed or is SOs, excessive
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	Comments:	
	No SSOs were reported for the 2018 calendar year.	
7.	Attach a discussion on the condition of sewage pumping (pump) stations. Include a comparison o pumping rate with present maximum flows and the projected 2-year maximum flows for each station. $94.12(a)(7)$)	
	Check the appropriate boxes:	
	The collection system does not contain pump stations	
	 The collection system does contain pump stations (Number –) Discussion of condition of each pump station attached (Attachment) 	
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9.	Existing or Projected Overload.						
· · ·		ad condition. condition.					
	Corrective Action Plan attached (Attachment)						
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Ed	mond Pisani	CA					
<u> </u>	me of Responsible Official	Signature					
	0-534-4806	7/19/2019					
	lephone No.	Date CIIICOI					
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PREPARER CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared by me or otherwise under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. The information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowledge of violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Charles Catania Jr.

Name of Preparer

Signature Date

610-532-2884

Telephone No.