

**Application of Pennsylvania-American Water Company for Acquisition of
the Wastewater Assets of East Coventry Township
66 Pa. C.S. §1329
Application Filing Checklist – Water/Wastewater**

Docket No. A-2025-3053487

20. Proof of Compliance. Provide proof of compliance with applicable design, construction and operation standards of DEP or of the county health department, or both, including:
- c. For **wastewater** system acquisitions, provide a copy of the Chapter 94 Municipal Wasteload Management Report that was most recently submitted to DEP.

RESPONSE: c. Attached as **Appendix A-20-c** is the most recent Chapter 94 Report submitted by East Coventry to DEP.

**CHAPTER 94
MUNICIPAL WASTELOAD MANAGEMENT
ANNUAL REPORT**

**2024
EAST COVENTRY TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

Prepared by:

**CARROLL ENGINEERING CORPORATION
949 Easton Road
Warrington, PA 18976**

Prepared for:

**EAST COVENTRY TOWNSHIP
855 Ellis Woods Road
Pottstown, Pennsylvania 19465
(610) 495-5443**

Preparer



**Signature
Brady L. Flaharty, P.E.
Carroll Engineering Corporation
Township Engineer**

**EAST COVENTRY TOWNSHIP
CHESTER COUNTY, PENNSYLVANIA**

**CHAPTER 94
MUNICIPAL WASTELOAD MANAGEMENT
ANNUAL REPORT
OPERATING YEAR 2024**

Table of Contents

	<u>Page</u>
1. INTRODUCTION	1
2. HYDRAULIC LOADINGS	1
3. 5-YEAR HYDRAULIC AND ORGANIC LOADING PROJECTIONS	1
4. SEWER EXTENSIONS	2
5. PROGRAM FOR SANITARY SEWER MONITORING, MAINTENANCE, AND REPAIR	2
6. SEWAGE PUMPING STATIONS	3
7. PUMPING STATION FLOW DURING MAJOR STORM EVENTS	4
8. CONDITION OF THE SEWER SYSTEM	4
9. INDUSTRIAL WASTES	5
10. CALIBRATION REPORT	5

EXHIBITS

- A. ECT – Hydraulic Loading
- B. ECT – Organic Loading
- C. ECT – Sanitary Sewer System Map with Proposed Development
- D. ECT – Pumping Station Monthly Flow Information
- E. ECT – Pumping Station Flows vs. Rainfall – Graphs
- F. ECT – 1-Inch Plus Rainfall vs. Flow at Pumping Stations - Summary
- G. ECT – 1-Inch Plus Rainfall vs. Flow at Pumping Stations – Graphs
- H. ECT – Pump Station Flow Meter Calibration Report

1. **INTRODUCTION**

This Municipal Wasteload Management Annual Report is prepared in accordance with 25 PA Code Chapter 94 for the East Coventry Township (Township) sewerage collection and conveyance system tributary to the North Coventry Municipal Authority (NCMA) Wastewater Treatment Plant.

The Township owns and maintains the sanitary sewer collection and conveyance systems within East Coventry Township under Water Quality Management Permit No. 1503417.

The Township sanitary sewer collection system provides for collection of domestic sewage from East Coventry Township, a suburban residential area encompassing several watersheds. Wastewater from each of these watersheds flows by gravity to one of five pumping stations, which ultimately convey the wastewater to a wastewater treatment plant operated by the NCMA.

The sanitary sewer collection system is comprised of approximately 63,714 lineal feet of gravity sewer and 323 manholes. The conveyance systems are comprised of five (5) sewage pumping stations with approximately 13,739 lineal feet of force main and 2,968 lineal feet of low-pressure force main.

2. **HYDRAULIC LOADINGS**

Sewage flow from the Township system is measured at the Main Pumping Station (PS-1), which conveys wastewater directly into the NCMA collection system. During 2024, the measured sewage flow from the Township sewer system averaged approximately 142,807 gallons-per-day (gpd). This represents an increase of approximately 8,257 gpd versus 2023 flows.

3. **5-YEAR HYDRAULIC AND ORGANIC LOADING PROJECTIONS**

The total number of EDUs connected at the end of 2024 was 1,127, which produced an average annual flow of 116.4 GPD.

A summary of flows over the last 5 years and a graph of past and projected flows are included in Exhibit “A”.

During the next five (5) years, the number of EDUs is projected to increase as follows:

		<u>Additional # of EDUs</u>	<u>Total # of EDUs</u>	<u>Total Flow (GPD)*</u>
<i>Actual</i>	2024		1,227	142,807
<i>Projected</i>	2025	49	1,276	148,510
<i>Projected</i>	2026	76	1,352	157,355
<i>Projected</i>	2027	76	1,428	166,201
<i>Projected</i>	2028**	122	1,550	180,400
<i>Projected</i>	2029	5	1,555	180,982

* Projected flows are based on 2024 estimated average per capita flow of 44 GPD.

** The Year 2028 Additional # of EDUs assumes the Parkerford Act 537 Special Study will be approved in 2025. The Special Study’s Phase 1 projects 117 EDUs to be connected to the East Coventry sanitary sewer system in 2028.

The estimated daily total lbs. of BOD₅ collected in 2024 is considered to be 268 lbs./day using an average BOD₅ rate of 225 mg/L. This calculates to be 0.083 lbs./day per capita for the estimated 3,221 persons connected to the East Coventry Township system. A summary of organic loadings over the last 5 years and a graph of past and projected loadings are included in Exhibit “B”.

4. SEWER EXTENSIONS

Exhibit “C” contains a map of the East Coventry Township sanitary sewer system and the proposed development within the Township that could be connected to the system. There were no new sewer extensions constructed in 2024.

5. PROGRAM FOR SANITARY SEWER MONITORING, MAINTENANCE, AND REPAIR

The sewer system is maintained by the Township Sewer Crew. This group is responsible for routine sewer and pump station maintenance and repairs. Sewer Crew personnel on a daily basis check all pump stations with various readings and notations made for each station as well as conditions and status of major operational components. Each pump station is equipped with various alarms and an automatic dialer to notify Sewer Crew personnel in the event of an equipment malfunction or an unusual system condition.

Township personnel formulate a plan to perform any necessary maintenance and repair, either in-house or with contracted services. All necessary repairs are made in a timely manner.

6. SEWAGE PUMPING STATIONS

The Township operates five (5) pumping stations all equipped with magnetic flow meters that measure the flows. All pumping stations are checked by the Sewer Crew personnel on a daily basis with various readings and notations made for each station as well as conditions and status of major operational components, and the maintenance of mechanical equipment is performed in accordance with the manufacturers’ recommendations. Personnel take regular ampere readings on the pumps to ensure proper operating conditions. Standby generators are exercised under load on a regular basis.

The Main Pumping Station (PS-1) collects all flow from the Township sewer system and conveys it directly to the NCMA sanitary sewer system for treatment at the NCMA wastewater treatment plant. Exhibit “D” contains a summary of all Township pumping station monthly flow totals and the monthly rainfall. The monthly data is charted for each pumping station in Exhibit “E”. Each pumping station operated within its permitted peak capacity with one pump on standby at 2024 metered peak flows during storm events of 1-inch or greater rainfall.

Pump Station	Permitted Peak Capacity with 1 pump out of service (gpd)	2024 Metered Peak Flow (gpd)
PS-1 *	1,728,000	342,700
PS-2	72,000	9,900
PS-3	410,400	152,300
PS-4	144,000	47,300
PS-5	44,100	7,200

* PS –1 has three (3) pumps and was designed and permitted to have two (2) operating simultaneously with the third pump as stand-by.

7. PUMPING STATION FLOW DURING MAJOR STORM EVENTS

The Department requires Chapter 94 Reports to include a discussion of metered flow data for the collection and conveyance systems, specifically during major storm events where 1.0 inch of rain or greater fell.

Exhibit “F” contains a chart of peak rain event flows at the five (5) pumping stations – Main Pumping Station (PS-1), Wood Crest Estate Pumping Station (PS-2), Coventry Glen Pumping Station (PS-3), Creekview Pumping Station (PS-4) and Sawmill Road Pumping Station (PS-5) for the eighteen (18) days in 2024 where rain fell 1 inch or more in a 24-hour period. As related to yearly average flow, the peaking factors for the five pump stations during the rain events are as follows:

	Yearly Avg. Flow (GPD)	Rain Events Peaking Factor		
		<u>High</u>	<u>Average</u>	<u>Design</u>
Main Pumping Station (PS-1)	142,807	2.40	1.44	3.35
Wood Crest Pumping Station (PS-2)	5,533	1.79	1.46	4.20
Coventry Glen Pumping Station (PS-3)	51,898	2.93	1.58	3.80
Creekview Pumping Station (PS-4)	19,482	2.43	1.44	4.10
Sawmill Road Pumping Station (PS-5)	2,021	3.56	1.83	4.20

Based on the 2024 flow meter readings and the preceding rain event peaking factors, the current peaking factors are sufficient for the pumping stations. The flow and rainfall data for each pumping station is graphed in Exhibit “G”.

8. CONDITION OF THE SEWER SYSTEM

During 2024, the sanitary sewer collection and conveyance systems operated as designed with no malfunctions. The highest 2024 average monthly flow at the Main Pumping Station was 160,345 gallons per day (gpd). The highest flow at the pump station during 2024 storm events of 1-inch or greater rainfall was 342,700 gpd. An 8-inch sewer main set at the PADEP minimum scouring slope of 0.005 is capable of carrying 551,000 gpd; therefore, any sewer main in the system was capable of carrying the 2024 average and maximum storm event flows.

9. **INDUSTRIAL WASTES**

There are no known industrial waste dischargers within East Coventry Township.

10. **CALIBRATION REPORTS**

A copy of the calibration report for all five (5) pump stations is included in Exhibit "H.

Exhibit A

East Coventry Township

Hydraulic Loading



**EXHIBIT A1
EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
HYDRAULIC LOADING DATA (GPD)
2020 - 2024**

Month	2020	2021	2022	2023	2024	2024 Rainfall (in.)
January	126,694	135,974	139,690	144,897	160,345	6.10
February	121,662	141,743	138,650	134,886	134,597	1.40
March	132,197	142,752	133,323	133,287	150,790	7.20
April	137,637	132,520	147,357	135,747	158,443	5.00
May	130,974	136,526	141,745	131,965	138,765	4.50
June	122,743	132,953	129,173	127,850	133,153	2.10
July	124,206	122,903	126,616	129,219	132,432	5.60
August	136,787	128,087	124,365	125,487	138,487	4.55
September	128,577	147,293	127,173	130,250	138,957	1.20
October	130,687	133,039	142,619	130,752	137,848	0.00
November	138,697	133,990	134,383	131,130	141,043	2.30
December	145,513	134,265	145,300	159,129	148,823	4.70
Average Annual Flow (MGD)	131,365	135,170	135,866	134,550	142,807	Total 44.65
Max. 3 Month Ave. Flow (MGD)	138,299	140,156	140,808	141,694	151,357	
PEAKING FACTOR						
Max. 3 Month Ave. Flow / Ave. Annual Flow	1.050	1.040	1.040	1.050	1.060	
Flow Peaking Factor: Average 5 Year Ratio	1.048					

EAST COVENTRY TOWNSHIP 2024 ANNUAL CHAPTER 94 REPORT HYDRAULIC LOADING

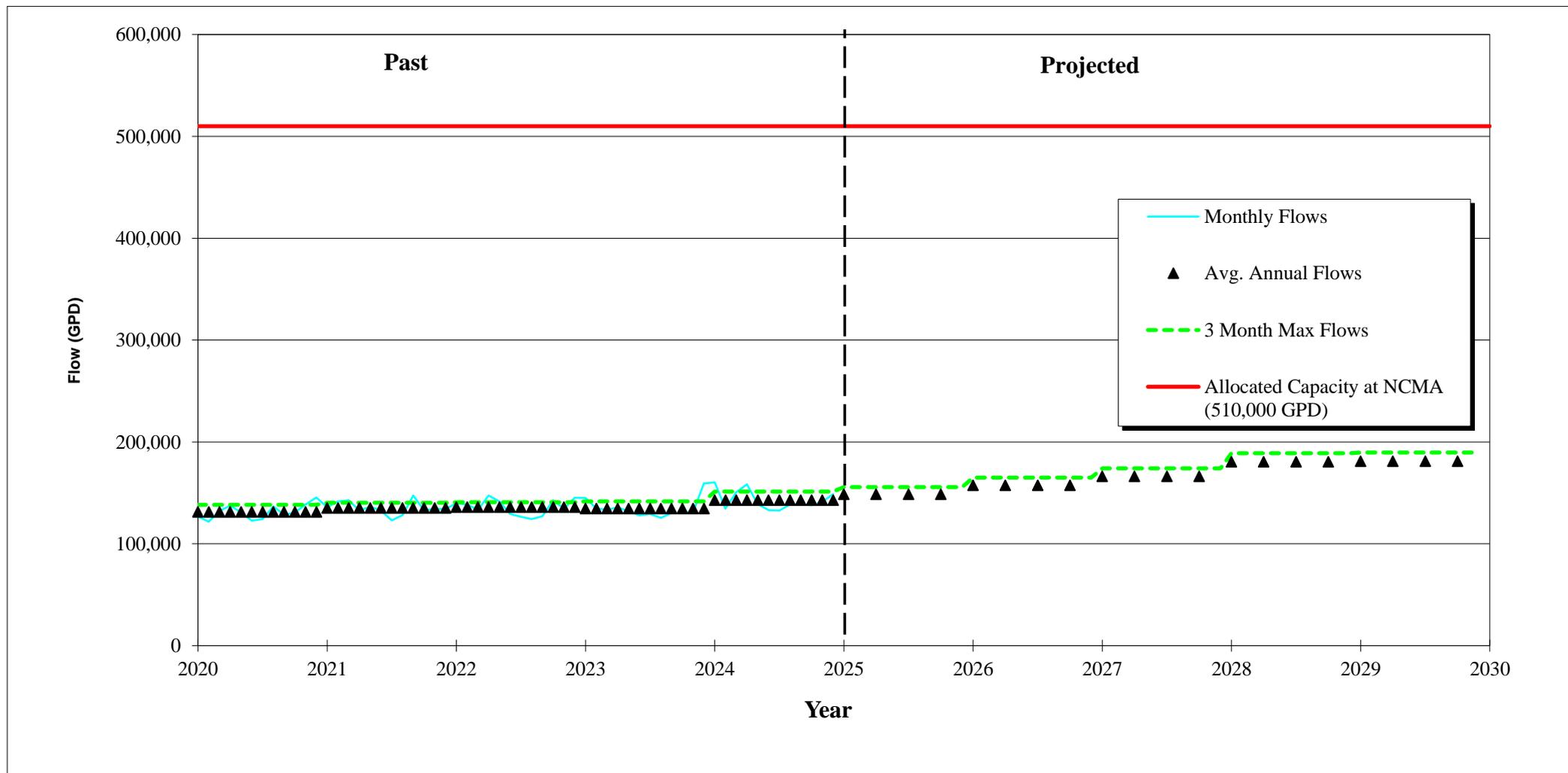


EXHIBIT A2

Exhibit B

East Coventry Township

Organic Loading



EXHIBIT B1
EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
ORGANIC LOADING DATA (lbs BOD5/Day)
2020 - 2024

Month	2020	2021	2022	2023	2024
January	237.7	255.2	262.1	271.9	300.9
February	228.3	266.0	260.2	253.1	252.6
March	248.1	267.9	250.2	250.1	283.0
April	258.3	248.7	276.5	254.7	297.3
May	245.8	256.2	266.0	247.6	260.4
June	230.3	249.5	242.4	239.9	249.9
July	233.1	230.6	237.6	242.5	248.5
August	256.7	240.4	233.4	235.5	259.9
September	241.3	276.4	238.6	244.4	260.8
October	245.2	249.6	267.6	245.4	258.7
November	260.3	251.4	252.2	246.1	264.7
December	273.1	251.9	272.7	298.6	279.3
Average Annual BOD5 (lbs/Day)	247	254	255	252	268
Max. 1 Month BOD5 Loading (lbs/Day)	273	276	277	299	301
RATIO:					
Max. 1 Month BOD5 / Ave. Annual BOD5	1.11	1.09	1.08	1.18	1.12
Organic Peaking Factor: Average 5 Year Ratio	1.12				

EXHIBIT B2
EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PAST AND PROJECTED LOADINGS

Year	EDUs	Connected Population	Average Total Flow (gpd)	Max. 3 Month Ave. Flow (gpd)	Per Capita Flow (gpcd)	Average Total BOD5 (lbs/day)	Per Capita BOD5 (lbs/day)
2020	1,109	2,911	131,365	138,299	45	247	0.085
2021	1,115	2,927	135,170	140,156	46	254	0.087
2022	1,115	2,927	135,866	140,808	46	255	0.087
2023	1,135	2,979	134,550	141,694	45	252	0.085
2024	1,227	3,221	142,807	151,357	44	268	0.083
Average		2,993	135,952		44	255	0.085
Projected Loadings							
2025	1,276	3,350	148,510	155,638	44	286	0.085
2026	1,352	3,549	157,355	164,908	44	303	0.085
2027	1,428	3,749	166,201	174,178	44	320	0.085
2028	1,550	4,069	180,400	189,059	44	347	0.085
2029	1,555	4,082	180,982	189,669	44	348	0.085

EAST COVENTRY TOWNSHIP 2024 ANNUAL CHAPTER 94 REPORT ORGANIC LOADING

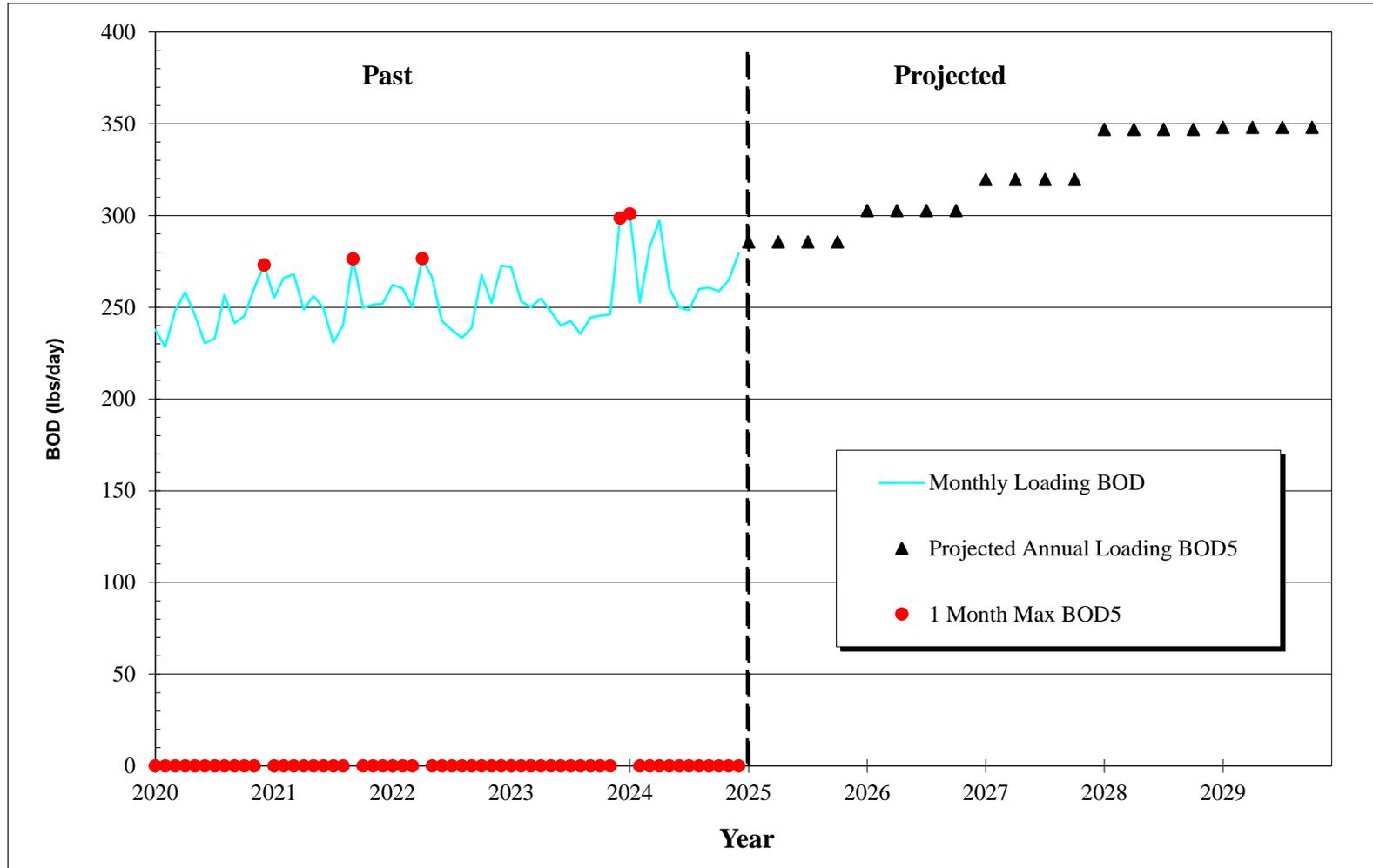


EXHIBIT B3

Exhibit C

East Coventry Township

Sanitary Sewer System Map

with

Proposed Development

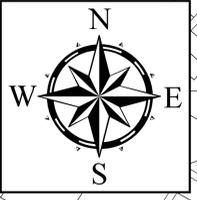
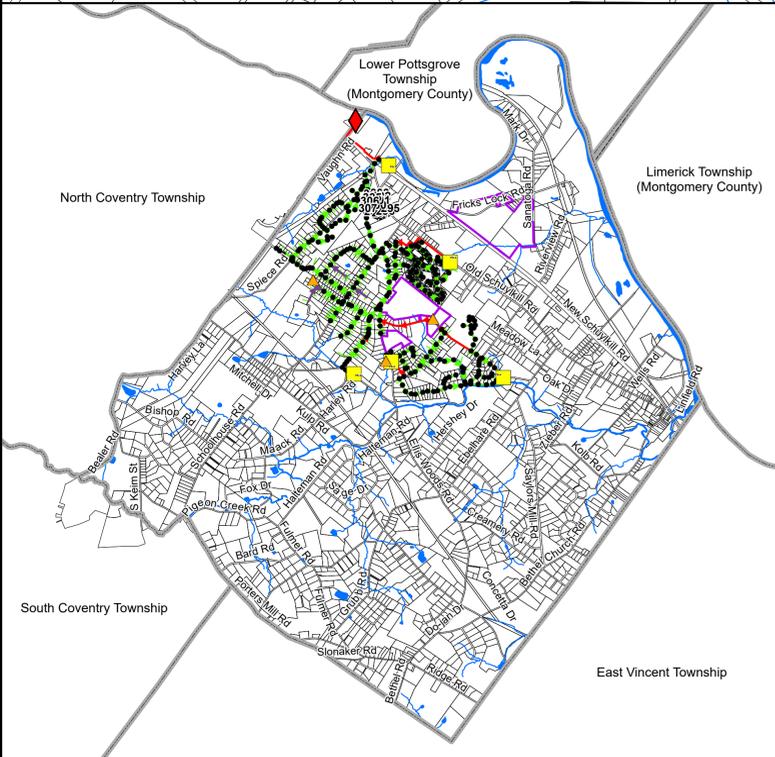
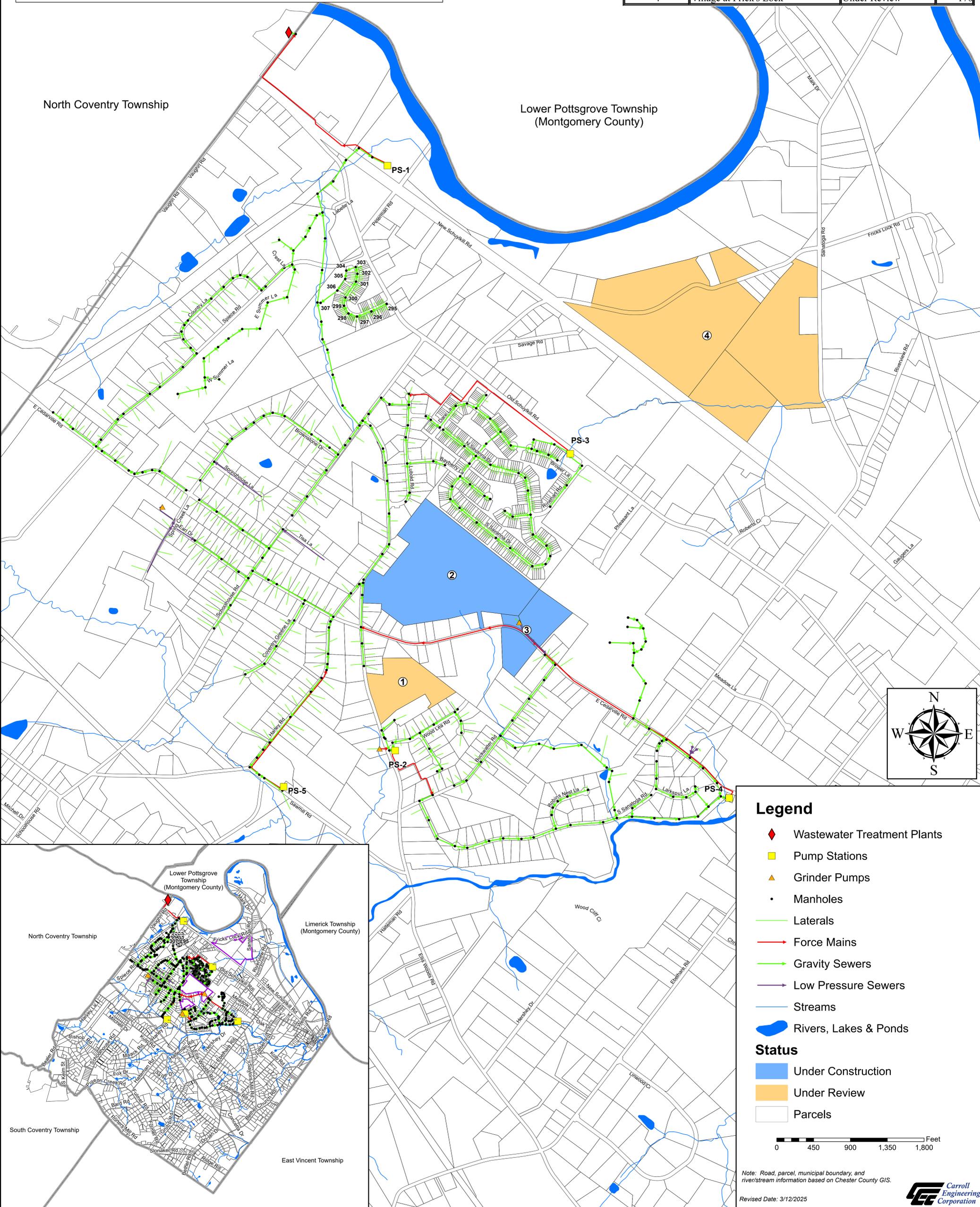


Sanitary Sewer System

East Coventry Township

Chester County, Pennsylvania

Sanitary Sewer Extensions			
Map Identifier	Project Name	Status	EDUs
1	Enclave at Ellis Woods	Under Review	12
2	Coventry Chase	Under Construction	122
3	2377 E Cedarville Road	Under Construction	3
4	Village at Frick's Lock	Under Review	170



Legend

- ◆ Wastewater Treatment Plants
- Pump Stations
- ▲ Grinder Pumps
- Manholes
- Laterals
- Force Mains
- Gravity Sewers
- Low Pressure Sewers
- Streams
- Rivers, Lakes & Ponds

Status

- Under Construction
- Under Review
- Parcels

0 450 900 1,350 1,800 Feet

Note: Road, parcel, municipal boundary, and river/stream information based on Chester County GIS.
Revised Date: 3/12/2025



W:\GIS\Projects\East Coventry\Maps\Sanitary Chapter 94.aprx

Exhibit D

East Coventry Township

Pumping Station Monthly Flow Information



EXHIBIT D
EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
AVERAGE MONTHLY METERED PUMP STATION FLOW

PUMP STATIONS NO. 1, NO. 2, NO. 3, NO. 4 and NO. 5

Year	Month	Average Monthly Flow, GPD					Monthly Rainfall
		PS 1 Avg. Monthly Flow	PS 2 Avg. Monthly Flow	PS 3 Avg. Monthly Flow	PS 4 Avg. Monthly Flow	PS 5 Avg. Monthly Flow	
2024	January	160,345	7,103	61,326	22,458	2,655	6.10
	February	134,597	5,759	49,414	19,293	2,045	1.40
	March	150,790	6,126	57,842	20,606	2,226	7.20
	April	158,443	5,873	57,773	21,940	1,963	5.00
	May	138,765	5,803	49,139	20,065	2,126	4.50
	June	133,153	5,067	48,143	17,360	1,863	2.10
	July	132,432	4,971	47,265	16,268	1,835	5.60
	August	138,487	4,771	51,935	18,432	1,948	4.55
	September	138,957	4,803	49,870	19,253	1,887	1.20
	October	137,848	4,648	48,797	19,032	1,777	0.00
	November	141,043	5,390	49,927	18,903	1,867	2.30
	December	148,823	6,084	51,342	20,177	2,058	4.70
Avg Annual Flow (GPD) =		142,807	5,533	51,898	19,482	2,021	
Peak Avg Monthly Flow (GPD) =		160,345	7,103	61,326	22,458	2,655	
Pump Max * (GPD) =		1,728,000	72,000	410,400	324,000	44,100	
* = With 1 pump on standby							

Exhibit E

East Coventry Township

Pumping Stations Flow vs Rainfall - Graphs

Main Pumping Station (PS-1)

Wood Crest Estates Pumping Station (PS-2)

Coventry Glen Pumping Station (PS-3)

Creekview Pumping Station (PS-4)

Sawmill Road Pumping Station (PS-5)

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION AVERAGE MONTHLY FLOW VERSUS RAINFALL
MAIN PUMPING STATION (PS-1)**

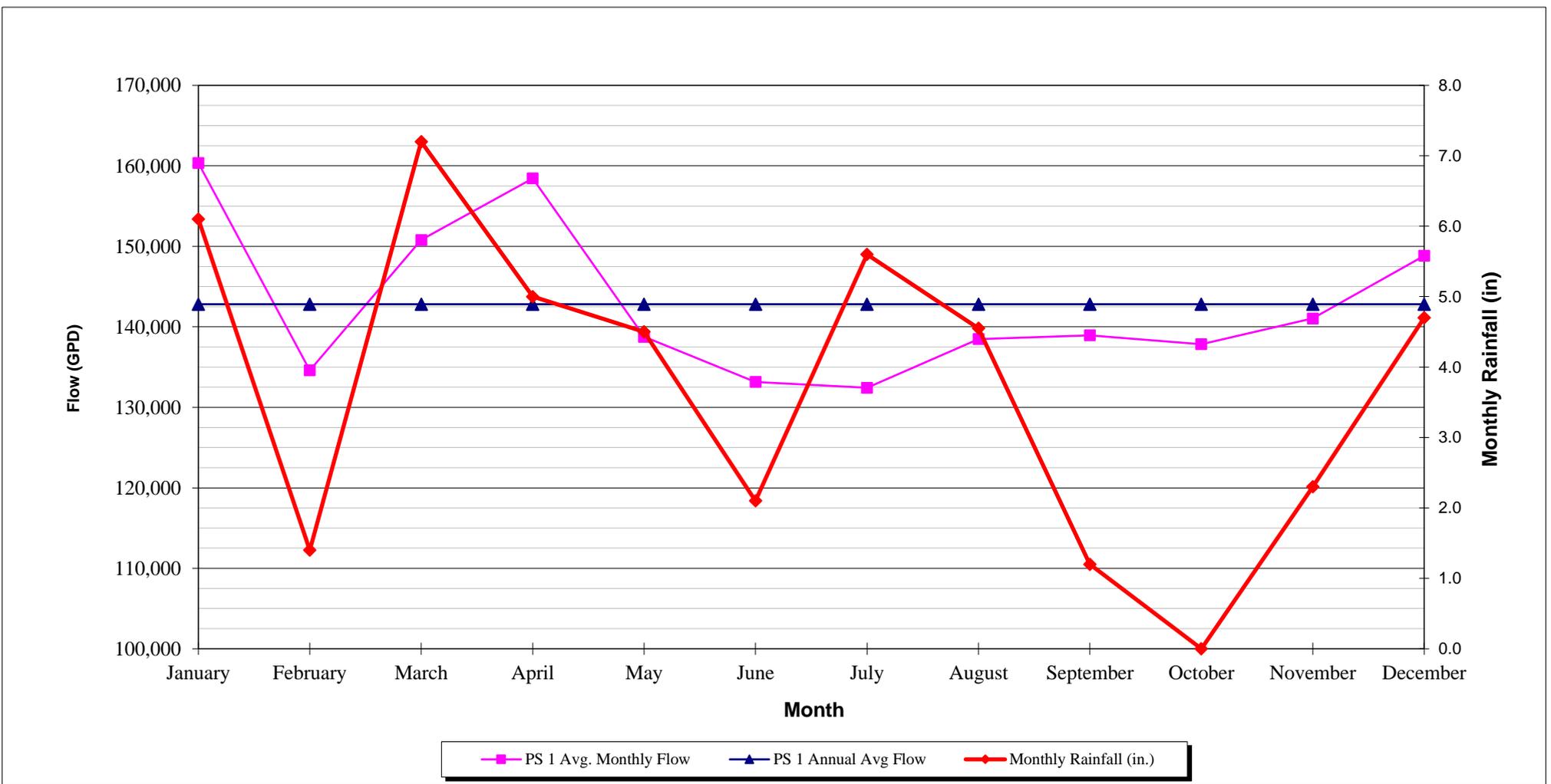


EXHIBIT E1

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION AVERAGE MONTHLY FLOW VERSUS RAINFALL
WOOD CREST PUMPING STATION (PS-2)**

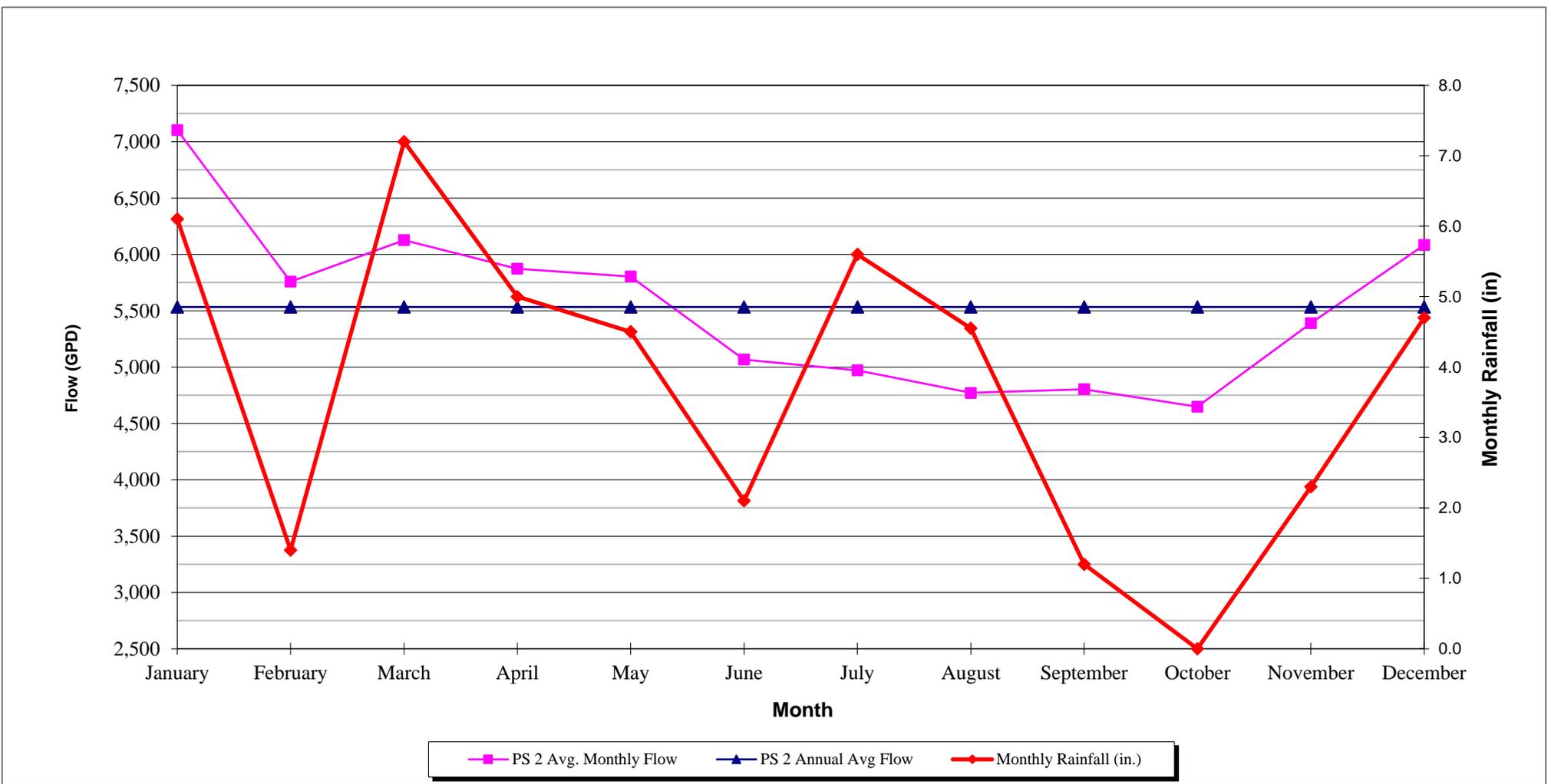


EXHIBIT E2

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION AVERAGE MONTHLY FLOW VERSUS RAINFALL**

COVENTRY GLEN PUMPING STATION (PS-3)

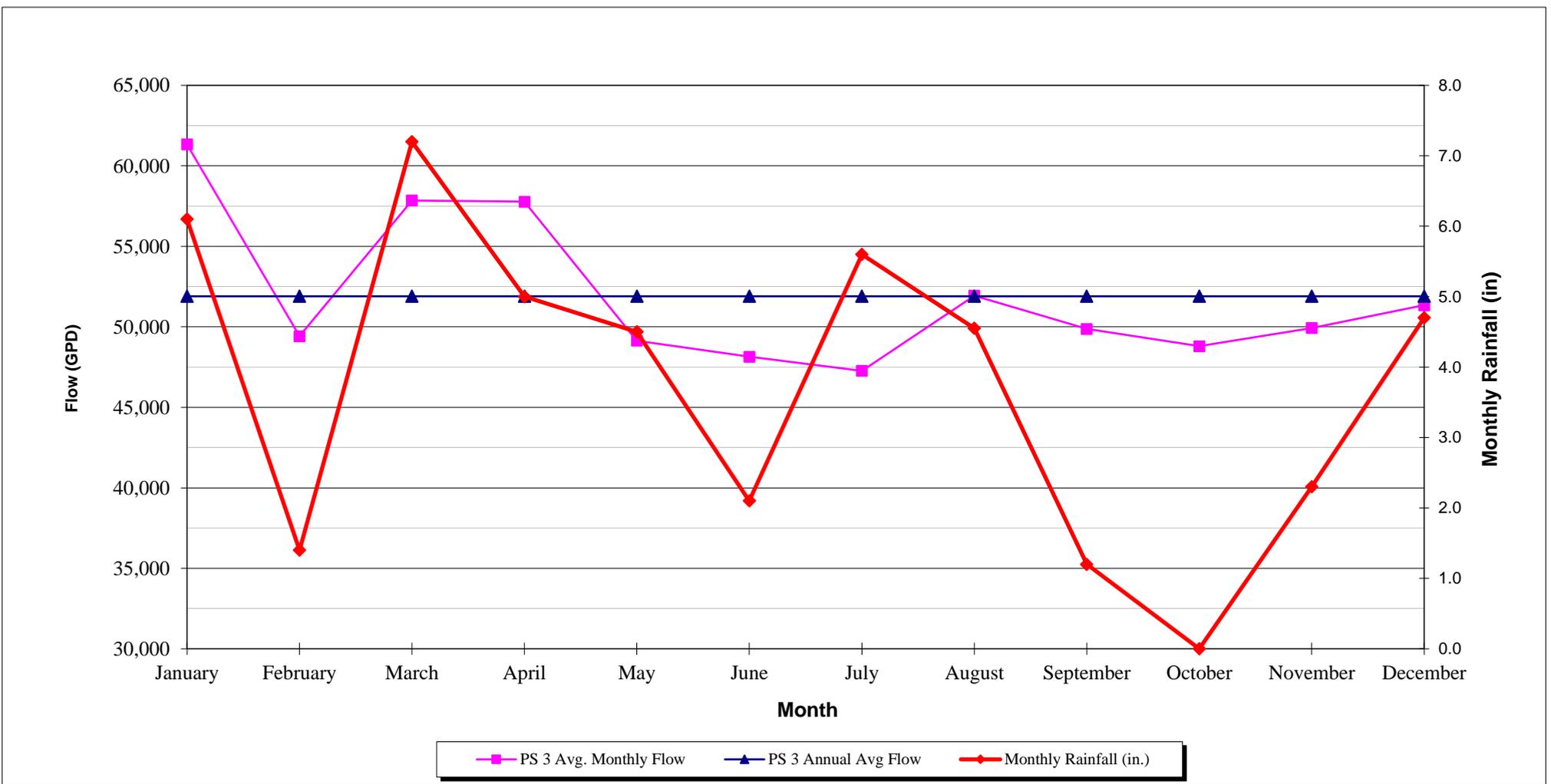


EXHIBIT E3

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION AVERAGE MONTHLY FLOW VERSUS RAINFALL**

CREEKVIEW PUMPING STATION (PS-4)

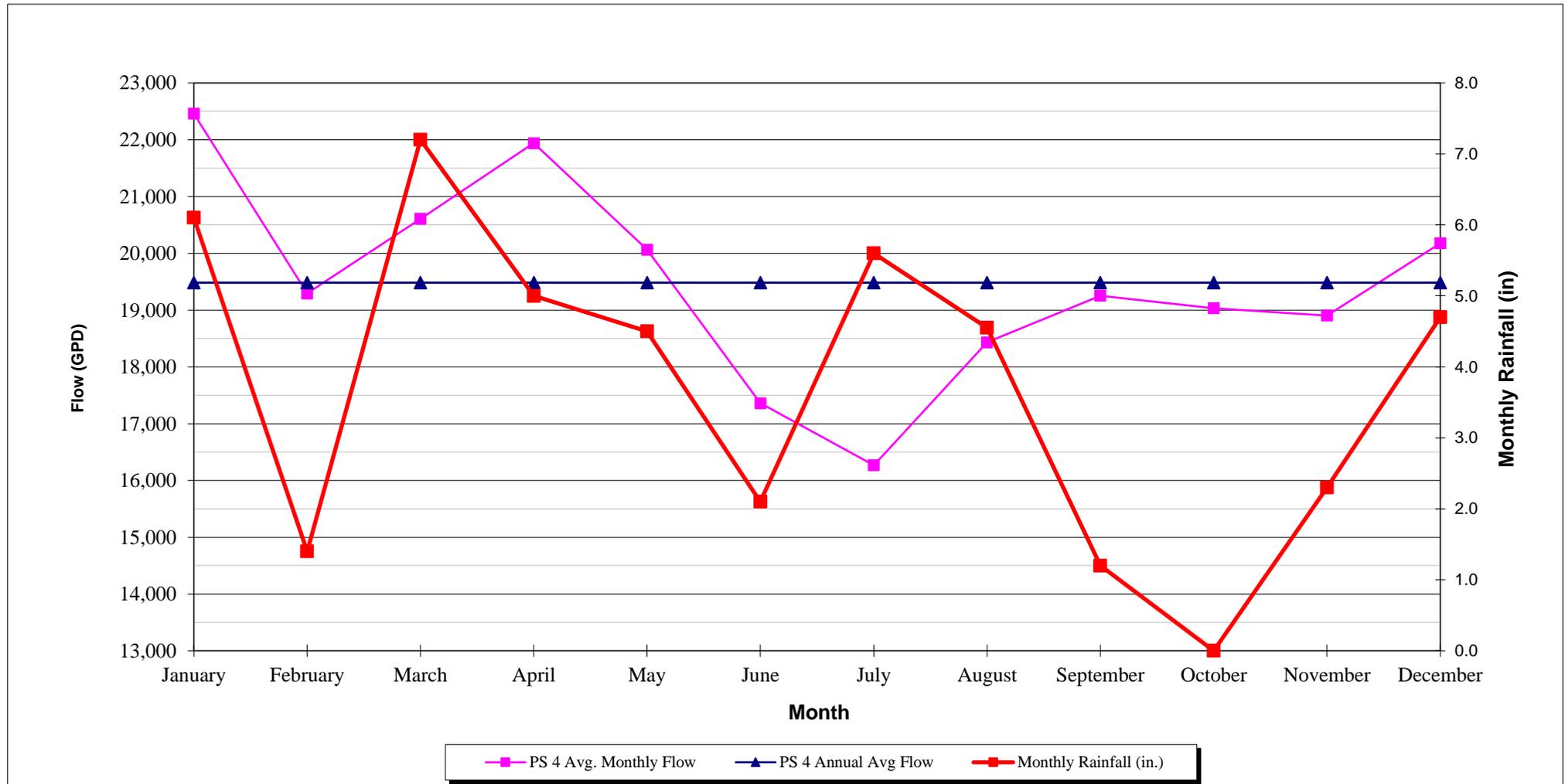


EXHIBIT E4

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION AVERAGE MONTHLY FLOW VERSUS RAINFALL**

SAWMILL ROAD PUMPING STATION (PS-5)

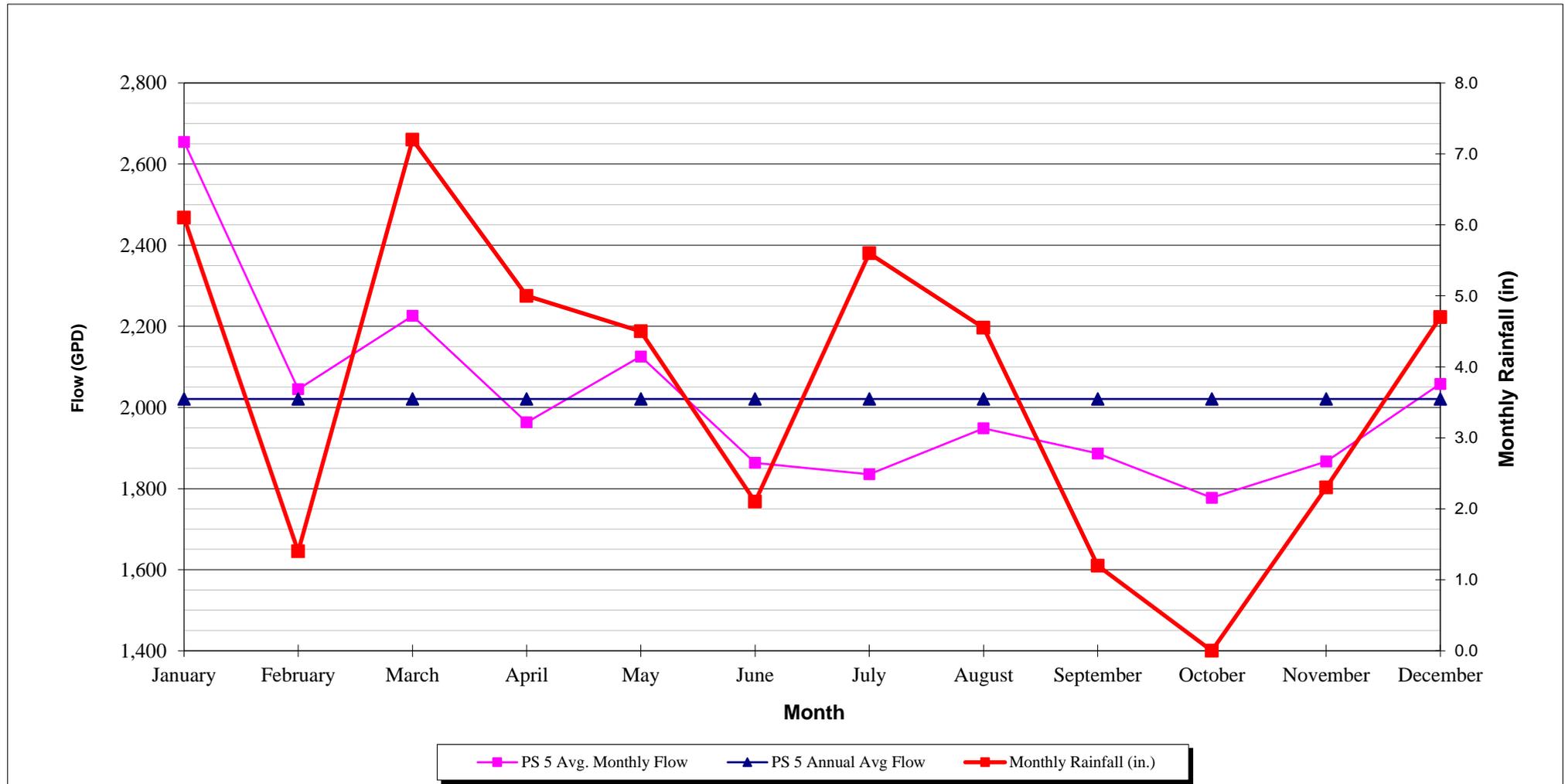


EXHIBIT E5

Exhibit F

East Coventry Township

1-Inch Plus Rainfall vs. Flow

At Pumping Stations – Summary

Main Pumping Station (PS-1)

Wood Crest Estates Pumping Station (PS-2)

Coventry Glen Pumping Station (PS-3)

Creekview Pumping Station (PS-4)

Sawmill Road Pumping Station (PS-5)

EXHIBIT F
EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY

Rain Date	Daily Rainfall (in.)	PS 1		PS 2		PS 3		PS 4		PS 5	
		Rainfall Flow (GPD)	Measured Peaking Factor								
01/09/24	3.00	281,100	1.97	9,700	1.75	130,200	2.51	46,300	2.38	6,000	2.97
01/13/24	1.00	189,200	1.32	7,800	1.41	74,700	1.44	24,900	1.28	2,600	1.29
01/28/24	1.00	231,700	1.62	9,800	1.77	93,100	1.79	33,000	1.69	7,200	3.56
03/02/24	1.60	205,000	1.44	8,600	1.55	85,700	1.65	30,300	1.56	4,000	1.98
03/09/24	1.50	224,900	1.57	8,900	1.61	102,900	1.98	29,400	1.51	2,000	0.99
03/23/24	2.50	234,500	1.64	8,200	1.48	88,099	1.70	38,500	1.98	5,500	2.72
04/02/24	2.00	342,700	2.40	9,900	1.79	152,300	2.93	47,300	2.43	5,000	2.47
04/03/24	1.40	342,700	2.40	9,900	1.79	152,300	2.93	47,300	2.43	5,000	2.47
05/29/24	2.00	144,200	1.01	6,700	1.21	48,500	0.93	22,900	1.18	2,800	1.39
06/05/24	1.00	143,700	1.01	6,100	1.10	50,300	0.97	20,600	1.06	2,200	1.09
07/25/24	2.50	168,200	1.18	6,900	1.25	57,600	1.11	20,700	1.06	4,200	2.08
08/06/24	1.00	145,200	1.02	6,000	1.08	50,400	0.97	17,300	0.89	2,900	1.44
08/08/24	1.00	182,300	1.28	7,400	1.34	83,900	1.62	18,300	0.94	3,500	1.73
08/09/24	1.50	182,300	1.28	7,400	1.34	83,900	1.62	22,300	1.14	3,500	1.73
11/20/24	1.00	174,100	1.22	9,400	1.70	50,200	0.97	20,500	1.05	1,900	0.94
12/11/24	1.50	153,500	1.07	6,800	1.23	50,500	0.97	21,800	1.12	2,300	1.14
12/15/24	1.00	180,800	1.27	7,900	1.43	65,300	1.26	21,800	1.12	2,700	1.34
12/30/24	1.00	168,300	1.18	7,900	1.43	57,400	1.11	21,700	1.11	3,200	1.58
Measured Annual Avg Flow (GPD) = 142,807				5,533		51,898		19,482		2,021	
Measured Peak Flow (GPD) = 342,700				9,900		152,300		47,300		7,200	
Permitted Average Flow (GPD) = 510,000				5,775		106,575		75,337		10,500	
Pump Max* (GPD) = 1,728,000				72,000		410,400		324,000		44,100	
Pump Max / Peak Flow Factor =		5.04		7.27		2.69		6.85		6.13	
High Peaking Factor =		2.40		1.79		2.93		2.43		3.56	
Average Peaking Factor =		1.44		1.46		1.58		1.44		1.83	
Design Peaking Factor =		3.35		4.20		3.80		4.10		4.20	
* = With 1 pump on standby											

Exhibit G

East Coventry Township

1-Inch Plus Rainfall vs. Flow

At Pumping Stations - Graphs

Main Pumping Station (PS-1)

Wood Crest Estates Pumping Station (PS-2)

Coventry Glen Pumping Station (PS-3)

Creekview Pumping Station (PS-4)

Sawmill Road Pumping Station (PS-5)

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY**

MAIN PUMPING STATION (PS-1)

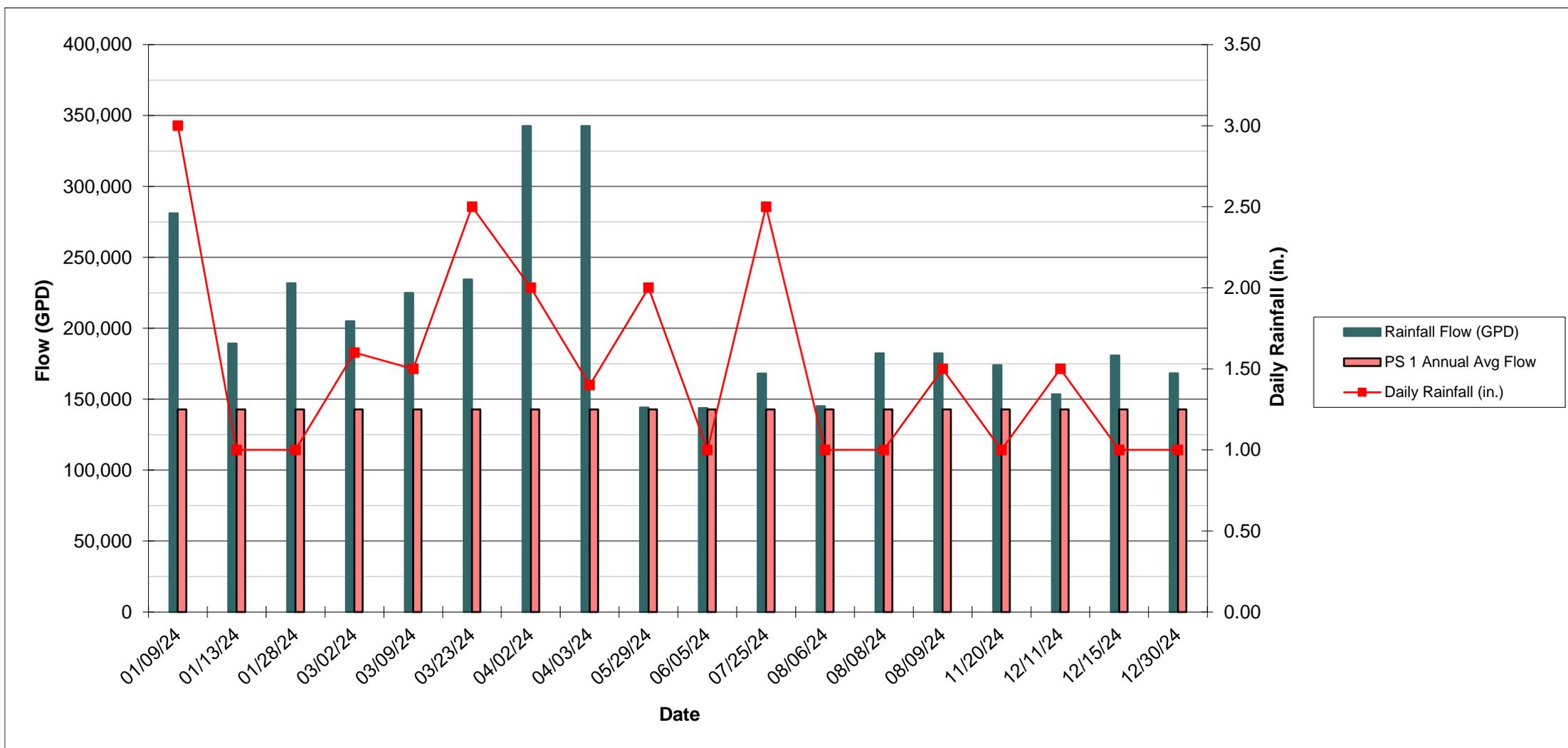


EXHIBIT G1

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY**

WOOD CREST PUMPING STATION (PS-2)

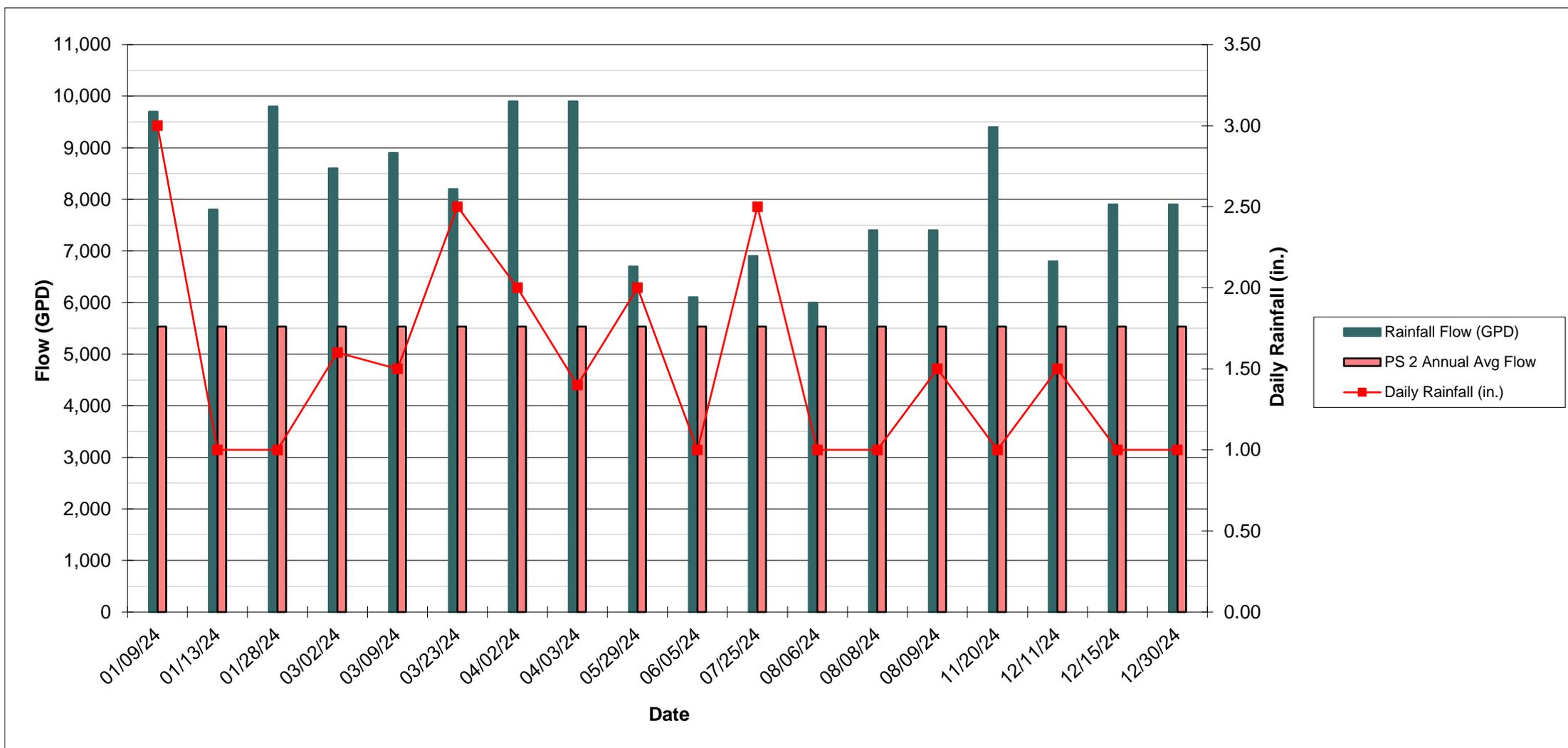


EXHIBIT G2

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY**

COVENTRY GLEN PUMPING STATION (PS-3)

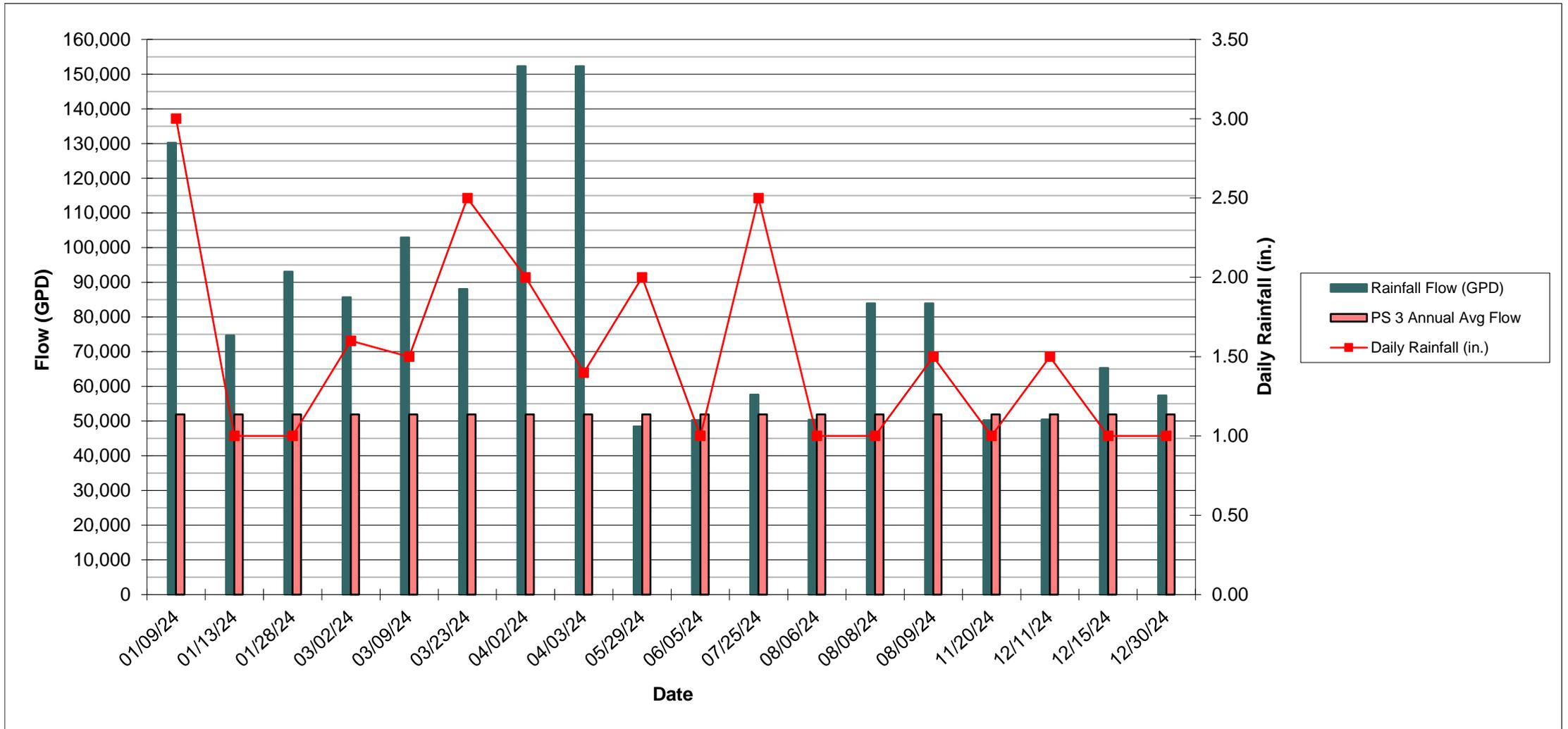


EXHIBIT G3

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY**

CREEKVIEW PUMPING STATION (PS-4)

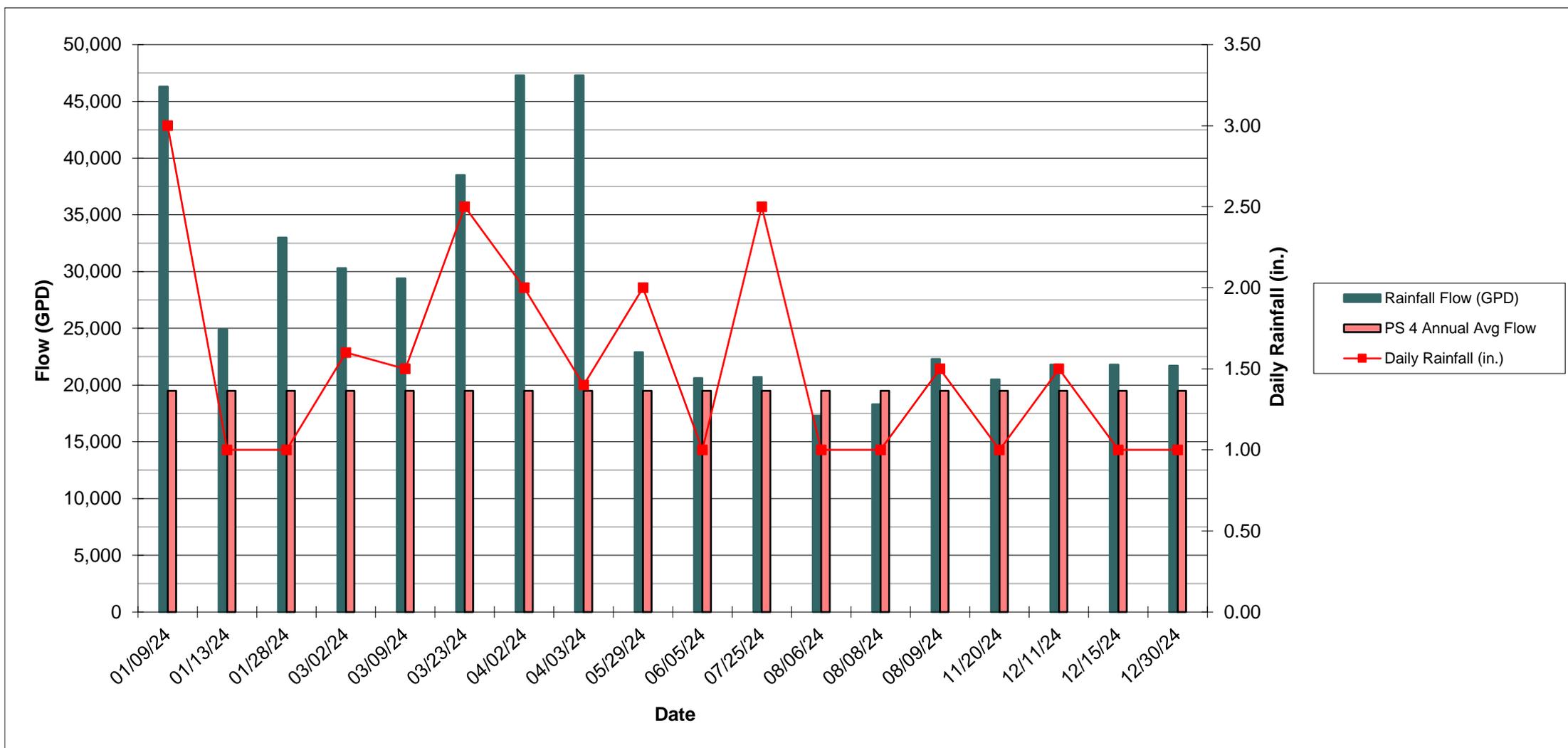


EXHIBIT G4

**EAST COVENTRY TOWNSHIP
2024 ANNUAL CHAPTER 94 REPORT
PUMP STATION FLOW AT RAINFALL GREATER THAN 1.0 INCH PER DAY**

SAWMILL ROAD PUMPING STATION (PS-5)

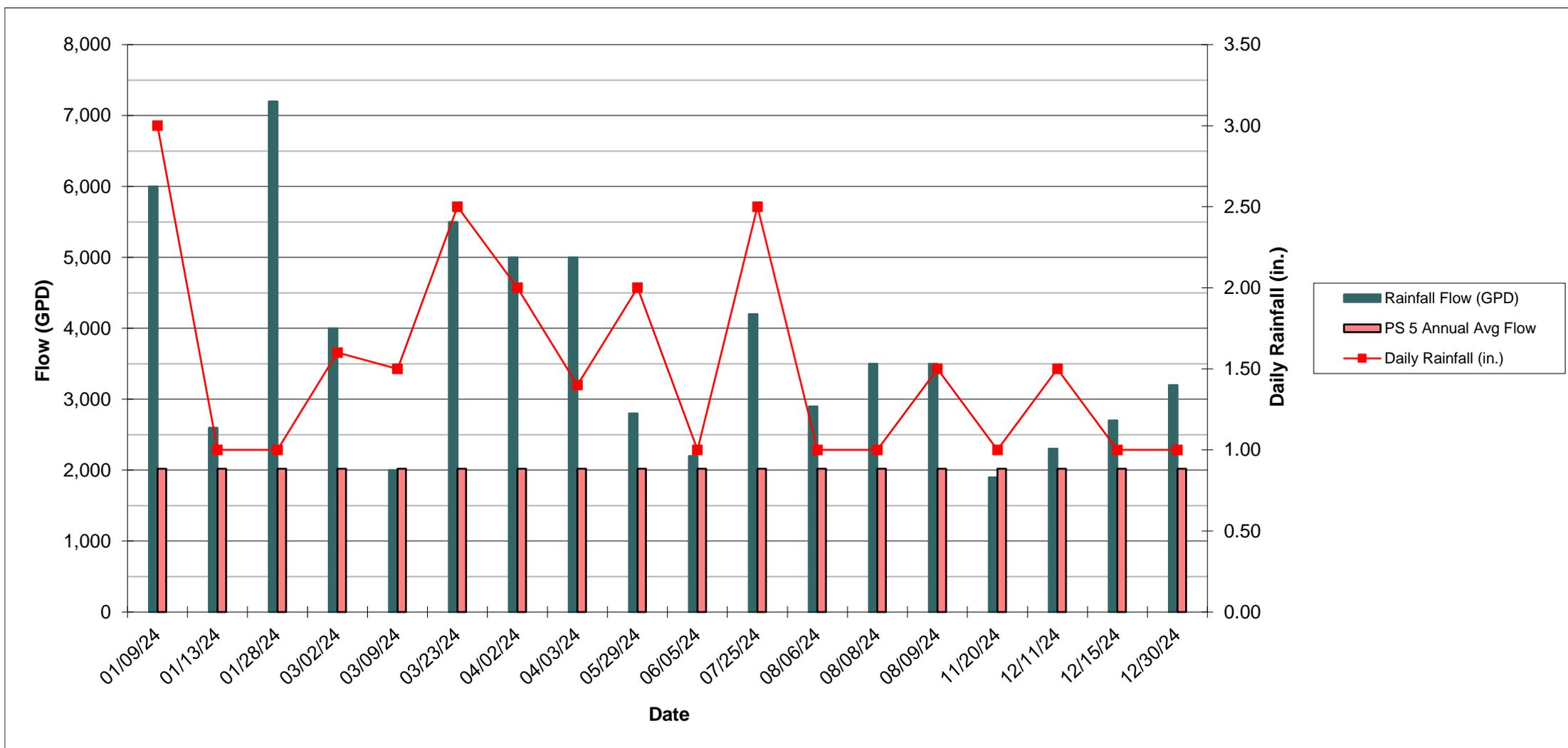


EXHIBIT G5

Exhibit H

East Coventry Township

Pump Station Flow Meter

Calibration Report



LRM, Inc
Instrumentation & Disinfection Systems

Calibration Date
 10/02/2024

User EAST COVENTRY TOWNSHIP
 855 Ellis Wood Road
 Pottstown
 PA 19465

Job Site PUMP STATION 1
 ROUTE 724 & PETERMAN RD.
 EAST COVENTRY, PA

Instrument Manufacturer/Model No:

ENDRESS & HAUSER
 50W

Instrument S/N:

6501551600

Instrument Loop:

EFFLUENT

Input Type:

MAGMETER

Primary Signal Producer:

MAG PRIMARY

Calibrated Range:

0-1500 GPM

Instrument Settings:

Found	
Zero	Span
0 GPM	1500 GPM

Changed To	
Zero	Span
NA	NA

Calibration Data

Input %	Input Value	Output Value	% Error After Calibration
0 %	0.00 GPM	4.00 MA	0.000000000000
50 %	750.00 GPM	12.00 MA	0.000000000000
100 %	1500.00 GPM	20.00 MA	0.000000000000

Equipment Used: FIELDCHECK VERIFICATION

Adjustments / Actions Taken: NONE

Comments:

Service Representative: Mike Sollazzo

Date: 10/02/2024

WO #: 13468



LRM, Inc
Instrumentation & Disinfection Systems

Calibration Date
 10/02/2024

EAST COVENTRY TOWNSHIP

PUMP STATION #2

User 855 Ellis Wood Road
 Pottstown
 PA 19465

Job Site

Instrument Manufacturer/Model No:

ENDRESS & HAUSER
 50W

Instrument S/N:

6C028A16000

Instrument Loop:

EFFLUENT

Input Type:

MAGMETER

Primary Signal Producer:

MAG PRIMARY

Calibrated Range:

0-100 GPM

Instrument Settings:

Found

Zero	Span
0 GPM	100 GPM

Changed To

Zero	Span
NA	NA

Calibration Data

Input %	Input Value	Output Value	% Error After Calibration
0 %	0.00 GPM	4.00 MA	0.0000
50 %	50.00 GPM	12.00 MA	0.0000
100 %	100.00 GPM	20.00 MA	0.0000

Equipment Used: FIELDCHECK VERIFICATION

Adjustments / Actions Taken: NONE

Comments:

Service Representative: Mike Sollazzo

Date: 10/02/2024

WO #: 13469



LRM, Inc
Instrumentation & Disinfection Systems

Calibration Date
 10/02/2024

EAST COVENTRY TOWNSHIP

PUMP STATION 3

User 855 Ellis Wood Road
 Pottstown
 PA 19465

Job Site

Instrument Manufacturer/Model No:

ENDRESS & HAUSER
 50W

Instrument S/N:

7202691600

Instrument Loop:

EFFLUENT

Input Type:

MAGMETER

Primary Signal Producer:

MAG PRIMARY

Calibrated Range:

0-500 GPM

Instrument Settings:

Found

Zero	Span
0 GPM	500 GPM

Changed To

Zero	Span
NA	NA

Calibration Data

Input %	Input Value	Output Value	% Error After Calibration
0 %	0.00 GPM	4.00 MA	0.000000000000
50 %	250.00 GPM	12.00 MA	0.000000000000
100 %	500.00 GPM	20.00 MA	0.000000000000

Equipment Used: FIELDCHECK VERIFICATION

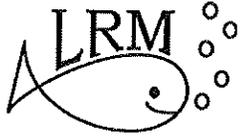
Adjustments / Actions Taken: NONE

Comments:

Service Representative: Mike Sollazzo

Date: 10/02/2024

WO #: 13470



LRM, Inc
Instrumentation & Disinfection Systems

Calibration Date
 10/02/2024

EAST COVENTRY TOWNSHIP

PUMP STATION 4

User 855 Ellis Wood Road
 Pottstown
 PA 19465

Job Site

Instrument Manufacturer/Model No:

ENDRESS & HAUSER
 50W

Instrument S/N:

7402FE16000

Instrument Loop:

EFFLUENT

Input Type:

MAGMETER

Primary Signal Producer:

MAG PRIMARY

Calibrated Range:

0-500 GPM

Instrument Settings:

Found

Zero	Span
0 GPM	500 GPM

Changed To

Zero	Span
NA	NA

Calibration Data

Input %	Input Value	Output Value	% Error After Calibration
0 %	0.00 GPM	4.00 MA	0.0000
50 %	250.00 GPM	12.00 MA	0.0000
100 %	500.00 GPM	20.00 MA	0.0000

Equipment Used: FIELDCHECK VERIFICATION

Adjustments / Actions Taken: NONE

Comments:

Service Representative: Mike Sollazzo

Date: 10/02/2024

WO #: 13471



LRM, Inc
Instrumentation & Disinfection Systems

Calibration Date
 10/02/2024

EAST COVENTRY TOWNSHIP

PUMP STATION 5

User 855 Ellis Wood Road
 Pottstown
 PA 19465

Job Site

Instrument Manufacturer/Model No:

ENDRESS & HAUSER
 53W

Instrument S/N:

9505CC1600

Instrument Loop:

EFFLUENT

Input Type:

MAGMETER

Primary Signal Producer:

MAG PRIMARY

Calibrated Range:

0-300 GPM

Instrument Settings:

Found

Zero	Span
0 GPM	300 GPM

Changed To

Zero	Span
NA	NA

Calibration Data

Input %	Input Value	Output Value	% Error After Calibration
0 %	0.00 GPM	4.00 MA	0.000000000000
50 %	150.00 GPM	12.00 MA	0.000000000000
100 %	300.00 GPM	20.00 MA	0.000000000000

Equipment Used: FIELDCHECK VERIFICATION

Adjustments / Actions Taken: NONE

Comments:

Service Representative: Mike Sollazzo

Date: 10/02/2024

WO #: 13472